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**Scalable Database Server**

**HiRDB Version 8**

**Messages Part II**

3020-6-358(F)

**HITACHI**

## ■ Relevant program products

List of program products:

For the HP-UX 11.0, HP-UX 11i, or HP-UX 11i V2 (PA-RISC) operating system:

P-1B62-1182 HiRDB/Single Server Version 8 08-00  
P-1B62-1382 HiRDB/Parallel Server Version 8 08-00  
P-1B62-1582 HiRDB/Single Server Version 8(64) 08-00  
P-1B62-1782 HiRDB/Parallel Server Version 8(64) 08-00  
P-1B62-1B82 HiRDB/Run Time Version 8 08-00  
P-1B62-1C82 HiRDB/Developer's Kit Version 8 08-00  
P-1B62-1D82 HiRDB/Run Time Version 8(64) 08-00  
P-1B62-1E82 HiRDB/Developer's Kit Version 8(64) 08-00  
P-F1B62-11823 HiRDB Staticizer Option Version 8 08-00  
P-F1B62-11825 HiRDB Non Recover Front End Server Version 8 08-00  
P-F1B62-11826 HiRDB Advanced High Availability Version 8 08-00  
P-F1B62-11827 HiRDB Advanced Partitioning Option Version 8 08-00

For the HP-UX 11i V2 (IPF) operating system:

P-1J62-1582 HiRDB/Single Server Version 8(64) 08-00  
P-1J62-1782 HiRDB/Parallel Server Version 8(64) 08-00  
P-1J62-1D82 HiRDB/Run Time Version 8(64) 08-00  
P-1J62-1E82 HiRDB/Developer's Kit Version 8(64) 08-00  
P-F1J62-11823 HiRDB Staticizer Option Version 8 08-00  
P-F1J62-11825 HiRDB Non Recover Front End Server Version 8 08-00  
P-F1J62-11826 HiRDB Advanced High Availability Version 8 08-00  
P-F1J62-11827 HiRDB Advanced Partitioning Option Version 8 08-00

For the Solaris 8, 9 or 10 operating system:

P-9D62-1182 HiRDB/Single Server Version 8 08-00  
P-9D62-1382 HiRDB/Parallel Server Version 8 08-00  
P-9D62-1582 HiRDB/Single Server Version 8(64) 08-00  
P-9D62-1782 HiRDB/Parallel Server Version 8(64) 08-00  
P-9D62-1B82 HiRDB/Run Time Version 8 08-00  
P-9D62-1C82 HiRDB/Developer's Kit Version 8 08-00  
P-9D62-1D82 HiRDB/Run Time Version 8(64) 08-00  
P-9D62-1E82 HiRDB/Developer's Kit Version 8(64) 08-00  
P-F9D62-11823 HiRDB Staticizer Option Version 8 08-00  
P-F9D62-11825 HiRDB Non Recover Front End Server Version 8 08-00  
P-F9D62-11826 HiRDB Advanced High Availability Version 8 08-00  
P-F9D62-11827 HiRDB Advanced Partitioning Option Version 8 08-00

For the AIX(R) 5L V5.1, V5.2 or V5.3 operating system:

P-1M62-1182 HiRDB/Single Server Version 8 08-00  
P-1M62-1382 HiRDB/Parallel Server Version 8 08-00  
P-1M62-1582 HiRDB/Single Server Version 8(64) 08-00  
P-1M62-1782 HiRDB/Parallel Server Version 8(64) 08-00  
P-1M62-1B82 HiRDB/Run Time Version 8 08-00  
P-1M62-1C82 HiRDB/Developer's Kit Version 8 08-00

P-1M62-1D82 HiRDB/Run Time Version 8(64) 08-00

P-1M62-1E82 HiRDB/Developer's Kit Version 8(64) 08-00

P-F1M62-11823 HiRDB Staticizer Option Version 8 08-00

P-F1M62-11825 HiRDB Non Recover Front End Server Version 8 08-00

P-F1M62-11826 HiRDB Advanced High Availability Version 8 08-00

P-F1M62-11827 HiRDB Advanced Partitioning Option Version 8 08-00

For the Red Hat Linux 7.1, Red Hat Linux 7.2, Red Hat Enterprise Linux AS 2.1, Red Hat Enterprise Linux AS 3 (x86), Red Hat Enterprise Linux ES 3 (x86), Red Hat Enterprise Linux AS 4 (x86), Red Hat Enterprise Linux ES 4 (x86), Red Hat Enterprise Linux AS 3 (AMD64 & Intel EM64T),\* Red Hat Enterprise Linux AS 4 (AMD64 & Intel EM64T),\* or Red Hat Enterprise Linux ES 4 (AMD64 & Intel EM64T)\* operating system:

P-9S62-1182 HiRDB/Single Server Version 8 08-00

P-9S62-1382 HiRDB/Parallel Server Version 8 08-00

P-9S62-1B82 HiRDB/Run Time Version 8 08-00

P-9S62-1C82 HiRDB/Developer's Kit Version 8 08-00

P-F9S62-11823 HiRDB Staticizer Option Version 8 08-00

P-F9S62-11825 HiRDB Non Recover Front End Server Version 8 08-00

P-F9S62-11826 HiRDB Advanced High Availability Version 8 08-00

P-F9S62-11827 HiRDB Advanced Partitioning Option Version 8 08-00

\* Only operating systems that run on the Intel EM64T are supported.

For the Red Hat Enterprise Linux AS 3 (AMD64 & Intel EM64T),\* Red Hat Enterprise Linux AS 4 (AMD64 & Intel EM64T),\* or Red Hat Enterprise Linux ES 4 (AMD64 & Intel EM64T)\* operating system:

P-9W62-1182 HiRDB/Single Server Version 8 08-00

P-9W62-1382 HiRDB/Parallel Server Version 8 08-00

P-9W62-1B82 HiRDB/Run Time Version 8 08-00

P-9W62-1C82 HiRDB/Developer's Kit Version 8 08-00

\* Only operating systems that run on the Intel EM64T are supported.

For the Red Hat Enterprise Linux AS 3 (IPF) or Red Hat Enterprise Linux AS 4 (IPF) operating system:

P-9V62-1182 HiRDB/Single Server Version 8 08-00

P-9V62-1382 HiRDB/Parallel Server Version 8 08-00

P-9V62-1B82 HiRDB/Run Time Version 8 08-00

P-9V62-1C82 HiRDB/Developer's Kit Version 8 08-00

P-F9V62-11823 HiRDB Staticizer Option Version 8 08-00

P-F9V62-11825 HiRDB Non Recover Front End Server Version 8 08-00

P-F9V62-11826 HiRDB Advanced High Availability Version 8 08-00

P-F9V62-11827 HiRDB Advanced Partitioning Option Version 8 08-00

For the Windows 2000, Windows XP Professional, Windows XP x64 Edition, Windows Server 2003, Windows Server 2003 x64 Edition, Windows Server 2003 R2, or Windows Server 2003 R2 x64 Edition operating system:

P-2462-7187 HiRDB/Single Server Version 8 08-00

P-2462-7387 HiRDB/Parallel Server Version 8 08-00

P-2462-7H87 HiRDB Non Recover Front End Server Version 8 08-00

P-2462-7J87 HiRDB Advanced High Availability Version 8 08-00

P-2462-7K87 HiRDB Advanced Partitioning Option Version 8 08-00

For the Windows XP x64 Edition or Windows Server 2003 x64 Edition operating system:

P-2962-7187 HiRDB/Single Server Version 8 08-00

P-2962-7387 HiRDB/Parallel Server Version 8 08-00

P-2962-1187 HiRDB/Run Time Version 8 08-00

P-2962-1287 HiRDB/Developer's Kit Version 8 08-00

For the Windows Server 2003 (IPF) operating system:

P-2862-7187 HiRDB/Single Server Version 8 08-00

P-2862-7387 HiRDB/Parallel Server Version 8 08-00

P-2862-1187 HiRDB/Run Time Version 8 08-00

P-2862-1287 HiRDB/Developer's Kit Version 8 08-00

P-2862-7H87 HiRDB Non Recover Front End Server Version 8 08-00

P-2862-7J87 HiRDB Advanced High Availability Version 8 08-00

P-2862-7K87 HiRDB Advanced Partitioning Option Version 8 08-00

For the Windows 2000, Windows XP, Windows XP x64 Edition, Windows Server 2003, or Windows Server 2003 x64 Edition operating system:

P-2662-1187 HiRDB/Run Time Version 8 08-00

P-2662-1287 HiRDB/Developer's Kit Version 8 08-00

This edition of the manual is released for the preceding program products, which have been developed under a quality management system that has been certified to comply with ISO9001 and TickIT. This manual may also apply to other program products; for details, see *Before Installing* or *Readme file* (for the UNIX version, see *Software Information* or *Before Installing*).

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OLE is the name of a software product developed by Microsoft Corporation and the acronym for Object Linking and Embedding.

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# Preface

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This manual explains the messages issued by the HiRDB Version 8 Scalable Database Server program product.

## Intended readers

This manual is intended for users of HiRDB Version 8 (hereafter referred to as *HiRDB*).

It is assumed that readers of this manual have the following:

- For Windows systems, a basic knowledge of managing Windows
- For UNIX Systems, a basic knowledge of managing UNIX or Linux
- A basic knowledge of SQL

## Organization of this manual

This manual is organized as follows:

### Chapter 1. *Overview of Messages*

Explains the message output formats and the notations used in this manual to explain the messages.

### Chapter 2. *Messages*

Explains each message and the action to be taken when each message is output.

### Chapter 3. *ABORT Codes*

Explains the causes of ABORT codes (abnormal termination cause codes) and the actions to be taken in response to each ABORT code.

### Chapter 4. *Error Detail Codes*

Explains RPC-related errors, detailed codes about system-related errors, and system call return codes.

### Chapter 5. *HiRDB File System Error Codes*

Explains the error codes and the information about locked resources that are displayed by HiRDB.

### Chapter 6. *Lock Control Errors*

Explains resource types, resource names, and resource information output for lock control errors.

## Chapter 7. Messages Related to Sort Processing

Explains messages related to sort processing.

### Related publications

This manual is related to the following manuals, which should be read as required.

#### HiRDB (for Windows)

- *For Windows Systems HiRDB Version 8 Description* (3020-6-351(E))
- *For Windows Systems HiRDB Version 8 Installation and Design Guide* (3020-6-352(E))
- *For Windows Systems HiRDB Version 8 System Definition* (3020-6-353(E))
- *For Windows Systems HiRDB Version 8 System Operation Guide* (3020-6-354(E))
- *For Windows Systems HiRDB Version 8 Command Reference* (3020-6-355(E))

#### HiRDB (for UNIX)

- *For UNIX Systems HiRDB Version 8 Description* (3000-6-351(E))
- *For UNIX Systems HiRDB Version 8 Installation and Design Guide* (3000-6-352(E))
- *For UNIX Systems HiRDB Version 8 System Definition* (3000-6-353(E))
- *For UNIX Systems HiRDB Version 8 System Operation Guide* (3000-6-354(E))
- *For UNIX Systems HiRDB Version 8 Command Reference* (3000-6-355(E))
- *HiRDB Staticizer Option Version 7 Description and User's Guide* (3000-6-282(E))
- *For UNIX Systems HiRDB Version 8 Disaster Recovery System Configuration and Operation Guide* (3000-6-364)\*

#### HiRDB (for UNIX and Windows)

- *HiRDB Version 8 UAP Development Guide* (3020-6-356(E))
- *HiRDB Version 8 SQL Reference* (3020-6-357(E))
- *HiRDB Datareplicator Version 8 Description, User's Guide and Operator's Guide* (3020-6-360(E))
- *HiRDB Dataextractor Version 8 Description, User's Guide and Operator's Guide* (3020-6-362(E))

\* This manual has been published in Japanese only; it is not available in English.

You must use the UNIX or the Windows manuals, as appropriate to the platform you



are using.

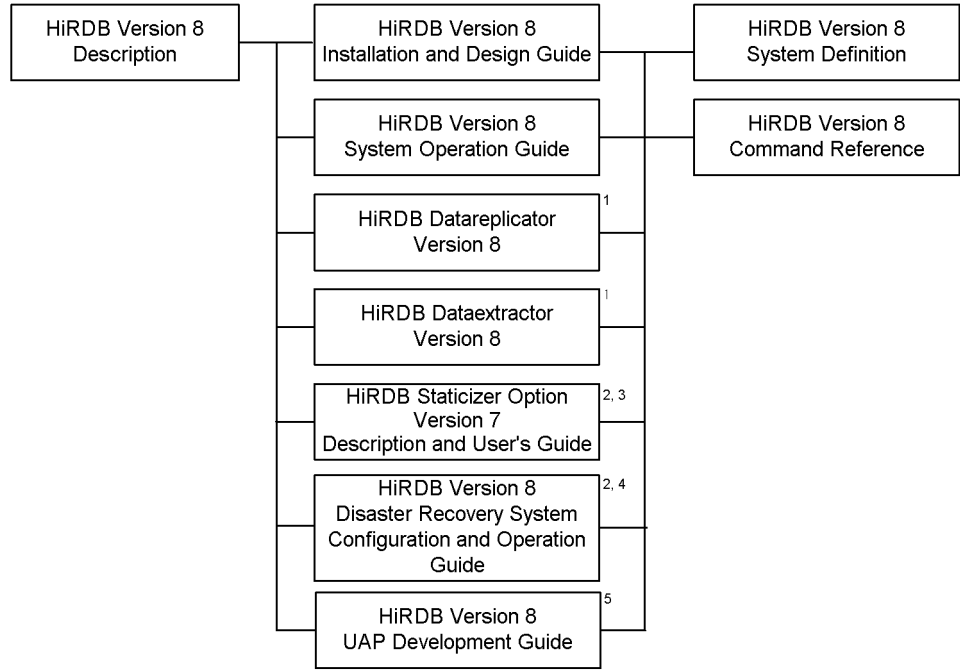
**Others**

- *HiRDB External Data Access Version 7 Description and User's Guide* (3000-6-284(E))
- *Distributed Database System DF/UX* (3000-3-248(E))

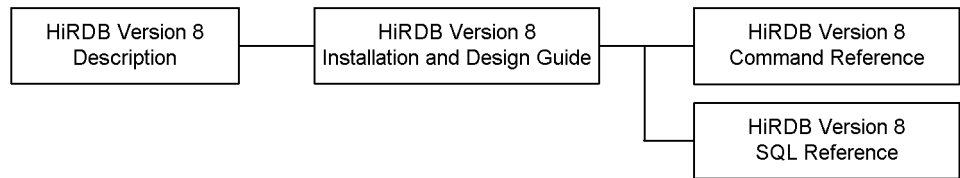
**Organization of HiRDB manuals**

The HiRDB manuals are organized as shown below. For the most efficient use of these manuals, it is suggested that they be read in the order they are shown, going from left to right.

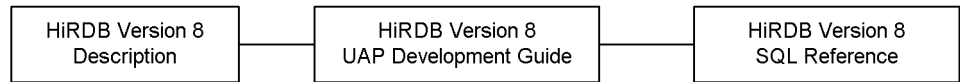
Manuals for system administrators:



Manuals for users who create tables:



Manuals for users who create or execute UAPs:



- <sup>1</sup> Read if you use the replication facility to link data.
- <sup>2</sup> Published for UNIX only. There is no corresponding Windows manual.
- <sup>3</sup> Read if you use the inner replica facility.
- <sup>4</sup> Read if you are configuring a disaster recovery system.
- <sup>5</sup> Must be read if you are linking HiRDB to an OLTP system.

## Conventions: Abbreviations

Unless otherwise required, this manual uses the following abbreviations for product and other names.

Name of product or other entity	Representation	
HiRDB/Single Server Version 8	HiRDB/Single Server	HiRDB or HiRDB Server
HiRDB/Single Server Version 8(64)		
HiRDB/Parallel Server Version 8	HiRDB/Parallel Server	
HiRDB/Parallel Server Version 8(64)		
HiRDB/Developer's Kit Version 8	HiRDB/Developer's Kit	HiRDB Client
HiRDB/Developer's Kit Version 8(64)		
HiRDB/Run Time Version 8	HiRDB/Run Time	
HiRDB/Run Time Version 8(64)		
HiRDB Datareplicator Version 7	HiRDB Datareplicator	
HiRDB Dataextractor Version 7	HiRDB Dataextractor	
HiRDB Text Search Plug-in Version 7	HiRDB Text Search Plug-in	
HiRDB Spatial Search Plug-in Version 3	HiRDB Spatial Search Plug-in	
HiRDB Staticizer Option Version 8	HiRDB Staticizer Option	
HiRDB LDAP Option Version 8	HiRDB LDAP Option	
HiRDB Advanced Partitioning Option Version 8	HiRDB Advanced Partitioning Option	
HiRDB Advanced High Availability Version 8	HiRDB Advanced High Availability	
HiRDB Non Recover Front End Server Version 8	HiRDB Non Recover FES	
HiRDB Disaster Recovery Light Edition Version 8	HiRDB Disaster Recovery Light Edition	
HiRDB External Data Access Version 8	HiRDB External Data Access	
HiRDB External Data Access Adapter Version 8	HiRDB External Data Access Adapter	
HiRDB Adapter for XML - Standard Edition	HiRDB Adapter for XML	
HiRDB Adapter for XML - Enterprise Edition		
HiRDB Control Manager	HiRDB CM	
HiRDB Control Manager Agent	HiRDB CM Agent	

Name of product or other entity	Representation
Hitachi TrueCopy	TrueCopy
Hitachi TrueCopy basic	
TrueCopy	
TrueCopy remote replicator	
JP1/Automatic Job Management System 2	JP1/AJS2
JP1/Automatic Job Management System 2 - Scenario Operation	JP1/AJS2-SO
JP1/Cm2/Extensible SNMP Agent	JP1/ESA
JP1/Cm2/Extensible SNMP Agent for Mib Runtime	
JP1/Cm2/Network Node Manager	JP1/NNM
JP1/Integrated Management - Manager	JP1/Integrated Management or JP1/IM
JP1/Integrated Management - View	
JP1/Magnetic Tape Access	EasyMT
EasyMT	
JP1/Magnetic Tape Library	MTguide
JP1/NETM/DM	JP1/NETM/DM
JP1/NETM/DM Manager	
JP1/Performance Management	JP1/PFM
JP1/Performance Management Agent for HiRDB	JP1/PFM-Agent for HiRDB
JP1/Performance Management - Agent for Platform	JP1/PFM-Agent for Platform
JP1/Performance Management/SNMP System Observer	JP1/SSO
JP1/VERITAS NetBackup BS v4.5	NetBackup
JP1/VERITAS NetBackup v4.5	
JP1/VERITAS NetBackup BS V4.5 Agent for HiRDB License	JP1/VERITAS NetBackup Agent for HiRDB License
JP1/VERITAS NetBackup V4.5 Agent for HiRDB License	
JP1/VERITAS NetBackup 5 Agent for HiRDB License	
OpenTP1/Server Base Enterprise Option	TP1/EE

Name of product or other entity	Representation	
Virtual-storage Operating System 3/Forefront System Product	VOS3/FS	VOS3
Virtual-storage Operating System 3/Leading System Product	VOS3/LS	
Extensible Data Manager/Base Extended Version 2 XDM basic program XDM/BASE E2	XDM/BASE E2	
XDM/Data Communication and Control Manager 3 XDM Data communication control XDM/DCCM3	XDM/DCCM3	
XDM/Relational Database XDM/RD	XDM/RD	XDM/RD
XDM/Relational Database Extended Version 2 XDM/RD E2	XDM/RD E2	
VOS3 Database Connection Server	DB Connection Server	
DB2 Universal Database for OS/390 Version 6	DB2	
DNCWARE ClusterPerfect (Linux Version)	ClusterPerfect	
Microsoft <sub>(R)</sub> Excel	Microsoft Excel or Excel	
Microsoft <sub>(R)</sub> Visual C++ <sub>(R)</sub>	Visual C++ or C++	
Oracle 8i	ORACLE	
Oracle 9i		
Oracle 10g		
Sun Java™ System Directory Server	Sun Java System Directory Server or Directory Server	
HP-UX 11i V2 (IPF)	HP-UX or HP-UX (IPF)	
Red Hat Linux	Linux	
Red Hat Enterprise Linux		
Red Hat Enterprise Linux AS 3 (IPF)	Linux (IPF)	Linux
Red Hat Enterprise Linux AS 4 (IPF)		
Red Hat Enterprise Linux AS 3(AMD64 & Intel EM64T)		
Red Hat Enterprise Linux AS 4(AMD64 & Intel EM64T)		
Red Hat Enterprise Linux ES 4(AMD64 & Intel EM64T)		
turbolinux 7 Server for AP8000	Linux for AP8000	

Name of product or other entity	Representation	
Microsoft <sub>(R)</sub> Windows NT <sub>(R)</sub> Workstation Operating System Version 4.0	Windows NT	
Microsoft <sub>(R)</sub> Windows NT <sub>(R)</sub> Server Network Operating System Version 4.0		
Microsoft <sub>(R)</sub> Windows <sub>(R)</sub> 2000 Professional Operating System	Windows 2000	
Microsoft <sub>(R)</sub> Windows <sub>(R)</sub> 2000 Server Operating System		
Microsoft <sub>(R)</sub> Windows <sub>(R)</sub> 2000 Datacenter Server Operating System		
Microsoft <sub>(R)</sub> Windows <sub>(R)</sub> 2000 Advanced Server Operating System	Windows 2000 or Windows 2000 Advanced Server	
Microsoft <sub>(R)</sub> Windows Server <sup>TM</sup> 2003, Standard Edition	Windows Server 2003	
Microsoft <sub>(R)</sub> Windows Server <sup>TM</sup> 2003, Enterprise Edition		
Microsoft <sub>(R)</sub> Windows Server <sup>TM</sup> 2003 R2, Standard Edition	Windows Server 2003 R2 or Windows Server 2003	
Microsoft <sub>(R)</sub> Windows Server <sup>TM</sup> 2003 R2, Enterprise Edition		
64 bit Version Microsoft <sub>(R)</sub> Windows Server <sup>TM</sup> 2003, Enterprise Edition (IPF)	Windows Server 2003 (IPF) or Windows Server 2003	
Microsoft <sub>(R)</sub> Windows Server <sup>TM</sup> 2003, Standard x64 Edition	Windows Server 2003 or Windows Server 2003 x64 Editions	Windows (x64)
Microsoft <sub>(R)</sub> Windows Server <sup>TM</sup> 2003, Enterprise x64 Edition		
Microsoft <sub>(R)</sub> Windows Server <sup>TM</sup> 2003 R2, Standard x64 Edition	Windows Server 2003, Windows Server 2003 R2 or Windows Server 2003 x64 Editions	
Microsoft <sub>(R)</sub> Windows Server <sup>TM</sup> 2003 R2, Enterprise x64 Edition		
Microsoft <sub>(R)</sub> Windows <sub>(R)</sub> XP Professional x64 Edition	Windows XP or Windows XP x64 Edition	
Microsoft <sub>(R)</sub> Windows <sub>(R)</sub> XP Professional Operating System	Windows XP Professional	Windows XP
Microsoft <sub>(R)</sub> Windows <sub>(R)</sub> XP Home Edition Operating System	Windows XP Home Edition	
Single server	SDS	

Name of product or other entity	Representation
System manager	MGR
Front-end server	FES
Dictionary server	DS
Back-end server	BES

- Windows 2000, Windows XP, and Windows Server 2003 may be referred to collectively as *Windows*.
- The hosts file means the `hosts` file stipulated by TCP/IP (including the `/etc/hosts` file in UNIX). As a rule, a reference to the hosts file means the `%windir%\system32\drivers\etc\hosts` file.

This manual also uses the following abbreviations:

Abbreviation	Full name or meaning
ACK	Acknowledgement
ADM	Adaptable Data Manager
ADO	ActiveX Data Objects
ADT	Abstract Data Type
AP	Application Program
API	Application Programming Interface
ASN.1	Abstract Syntax Notation One
BES	Back End Server
BLOB	Binary Large Object
BOM	Byte Order Mark
CD-ROM	Compact Disc - Read Only Memory
CGI	Common Gateway Interface
CLOB	Character Large Object
CMT	Cassette Magnetic Tape
COBOL	Common Business Oriented Language
CORBA(R)	Common ORB Architecture

<b>Abbreviation</b>	<b>Full name or meaning</b>
CPU	Central Processing Unit
CSV	Comma Separated Values
DAO	Data Access Object
DAT	Digital Audio Taperecorder
DB	Database
DBM	Database Module
DBMS	Database Management System
DDL	Data Definition Language
DF for Windows NT	Distributing Facility for Windows NT
DF/UX	Distributing Facility/for UNIX
DIC	Dictionary Server
DLT	Digital Linear Tape
DML	Data Manipulate Language
DNS	Domain Name System
DOM	Document Object Model
DS	Dictionary Server
DTD	Document Type Definition
DTP	Distributed Transaction Processing
DWH	Data Warehouse
EUC	Extended UNIX Code
EX	Exclusive
FAT	File Allocation Table
FD	Floppy Disk
FES	Front End Server
FQDN	Fully Qualified Domain Name
FTP	File Transfer Protocol
GUI	Graphical User Interface



<b>Abbreviation</b>	<b>Full name or meaning</b>
HBA	Host Bus Adapter
HD	Hard Disk
HTML	Hyper Text Markup Language
ID	Identification number
IP	Internet Protocol
IPF	Itanium(R) Processor Family
JAR	Java Archive File
Java VM	Java Virtual Machine
JDBC	Java Database Connectivity
JDK	Java Developer's Kit
JFS	Journalized File System
JFS2	Enhanced Journalized File System
JIS	Japanese Industrial Standard code
JP1	Job Management Partner 1
JRE	Java Runtime Environment
JTA	Java Transaction API
JTS	Java Transaction Service
KEIS	Kanji processing Extended Information System
LAN	Local Area Network
LDAP	Lightweight Directory Access Protocol
LIP	loop initialization process
LOB	Large Object
LRU	Least Recently Used
LTO	Linear Tape-Open
LU	Logical Unit
LUN	Logical Unit Number
LVM	Logical Volume Manager

<b>Abbreviation</b>	<b>Full name or meaning</b>
MGR	System Manager
MIB	Management Information Base
MRCF	Multiple RAID Coupling Feature
MSCS	Microsoft Cluster Server
NAFO	Network Adapter Fail Over
NAPT	Network Address Port Translation
NAT	Network Address Translation
NIC	Network Interface Card
NIS	Network Information Service
NTFS	New Technology File System
ODBC	Open Database Connectivity
OLAP	Online Analytical Processing
OLE	Object Linking and Embedding
OLTP	On-Line Transaction Processing
OOCOBOL	Object Oriented COBOL
ORB	Object Request Broker
OS	Operating System
OSI	Open Systems Interconnection
OTS	Object Transaction Service
PC	Personal Computer
PDM II E2	Practical Data Manager II Extended Version 2
PIC	Plug-in Code
PNM	Public Network Management
POSIX	Portable Operating System Interface for UNIX
PP	Program Product
PR	Protected Retrieve
PU	Protected Update

<b>Abbreviation</b>	<b>Full name or meaning</b>
RAID	Redundant Arrays of Inexpensive Disk
RD	Relational Database
RDB	Relational Database
RDB1	Relational Database Manager 1
RDB1 E2	Relational Database Manager 1 Extended Version 2
RDO	Remote Data Objects
RiSe	Real time SAN replication
RM	Resource Manager
RMM	Resource Manager Monitor
RPC	Remote Procedure Call
SAX	Simple API for XML
SDS	Single Database Server
SGML	Standard Generalized Markup Language
SJIS	Shift JIS
SNMP	Simple Network Management Protocol
SQL	Structured Query Language
SQL/K	Structured Query Language / VOS K
SR	Shared Retrieve
SU	Shared Update
TCP/IP	Transmission Control Protocol / Internet Protocol
TM	Transaction Manager
TMS-4V/SP	Transaction Management System - 4V / System Product
UAP	User Application Program
UOC	User Own Coding
VOS K	Virtual-storage Operating System Kindness
VOS1	Virtual-storage Operating System 1
VOS3	Virtual-storage Operating System 3

Abbreviation	Full name or meaning
WS	Workstation
WWW	World Wide Web
XDM/BASE E2	Extensible Data Manager / Base Extended Version 2
XDM/DF	Extensible Data Manager / Distributing Facility
XDM/DS	Extensible Data Manager / Data Spreader
XDM/RD E2	Extensible Data Manager / Relational Database Extended Version 2
XDM/SD E2	Extensible Data Manager / Structured Database Extended Version 2
XDM/XT	Extensible Data Manager / Data Extract
XFIT	Extended File Transmission program
XML	Extensible Markup Language

## Path name representations

- The backslash (\) is used as the delimiter in path names. Readers who are using a UNIX version of HiRDB must replace the backslash with a forward slash (/). When the path names in the Windows and UNIX versions differ, both path names are given.
- The HiRDB directory path is represented as %PDDIR%. However, when the path names in the Windows and UNIX versions differ, the directory path in the UNIX version is represented as \$PDDIR, as shown in the following example:

Windows version: %PDDIR%\CLIENT\UTL\

UNIX version: \$PDDIR/client/lib/

- %windir% refers to a Windows installation directory path.

## Log representations

- Windows version

The application log that is displayed by Windows Event Viewer is referred to as the *event log*. The following procedure is used to view the event log.

To view the event log:

1. Choose **Start, Programs, Administrative Tools (Common)**, and then **Event Viewer**.
2. Choose **Log**, and then **Application**.

3. The application log is displayed. Messages with **HiRDBSingleServer** or **HiRDBParallelServer** displayed in the **Source** column were issued by HiRDB.

If you specified a setup identifier when you installed HiRDB, the specified setup identifier follows **HiRDBSingleServer** or **HiRDBParallelServer**.

- UNIX version

The OS log is referred to generically as *syslogfile*. *syslogfile* is the log output destination specified in `/etc/syslog.conf`. Typically, the following files are specified as *syslogfile*.

OS	File
HP-UX	<code>/var/adm/syslog/syslog.log</code>
Solaris	<code>/var/adm/messages</code> or <code>/var/log/syslog</code>
AIX 5L	<code>/var/adm/ras/syslog</code>
Linux	<code>/var/log/messages</code>

## Conventions: Fonts and symbols

Font and symbol conventions are classified as:

- General font conventions
- Conventions in syntax explanations

These conventions are described below.

### General font conventions

The following table lists the general font conventions:

Font	Convention
<b>Bold</b>	<p>Bold type indicates text on a window, other than the window title. Such text includes menus, menu options, buttons, radio box options, or explanatory labels. For example, bold is used in sentences such as the following:</p> <ul style="list-style-type: none"> <li>• From the <b>File</b> menu, choose <b>Open</b>.</li> <li>• Click the <b>Cancel</b> button.</li> <li>• In the <b>Enter name</b> entry box, type your name.</li> </ul>
<i>Italics</i>	<p>Italics are used to indicate a placeholder for some actual text provided by the user or system. Italics are also used for emphasis. For example:</p> <ul style="list-style-type: none"> <li>• Write the command as follows: <code>copy source-file target-file</code></li> <li>• Do <i>not</i> delete the configuration file.</li> </ul>

Font	Convention
Code font	<p>A code font indicates text that the user enters without change, or text (such as messages) output by the system. For example:</p> <ul style="list-style-type: none"> <li>• At the prompt, enter <code>dir</code>.</li> <li>• Use the <code>send</code> command to send mail.</li> <li>• The following message is displayed: <code>The password is incorrect.</code></li> </ul>

Examples of coding and messages appear as follows (although there may be some exceptions, such as when coding is included in a diagram):

```
MakeDatabase
...
StoreDatabase temp DB32
```

In examples of coding, an ellipsis (...) indicates that one or more lines of coding are not shown for purposes of brevity.

### Conventions in syntax explanations

Syntax definitions appear as follows:

```
StoreDatabase [temp|perm] (database-name ...)
```

The following table lists the conventions used in syntax explanations:

Example font or symbol	Convention
<code>StoreDatabase</code>	Code-font characters must be entered exactly as shown.
<i>database-name</i>	This font style marks a placeholder that indicates where appropriate characters are to be entered in an actual command.
<b>SD</b>	Bold code-font characters indicate the abbreviation for a command.
<u>perm</u>	Underlined characters indicate the default value.
[ ]	Square brackets enclose an item or set of items whose specification is optional.
	Only one of the options separated by a vertical bar can be specified at the same time.
...	An ellipsis (...) indicates that the item or items enclosed in ( ) or [ ] immediately preceding the ellipsis may be specified as many times as necessary.
( )	Parentheses indicate the range of items to which the vertical bar ( ) or ellipsis (...) is applicable.

### Notations used in computational expressions

The following notations are used in computational expressions

Symbol	Meaning
↑ ↑	Round up the result to the next integer. Example: The result of $\uparrow 34 \div 3 \uparrow$ is 12.
↓ ↓	Discard digits following the decimal point. Example: The result of $\downarrow 34 \div 3 \downarrow$ is 11.
MAX	Select the largest value as the result. Example: The result of $\text{Max}(10, 2 \times 4, 3 + 8)$ is 11.
MIN	Select the smallest value as the result. Example: The result of $\text{Min}(10, 2 \times 4, 3 + 8)$ is 8.

## Notes on Windows path names

- In this manual, the Windows terms *directory* and *folder* are both referred to as *directory*.
- Include the drive name when you specify an absolute path name.

Example: `C:\win32app\hitachi\hirdb_s\spool\tmp`

- When you specify in a command argument, a control statement file, or a HiRDB system definition file a path name that includes a space or a parenthesis, you must enclose the entire path name in double quotation marks (").

Example: `pdinit -d "C:\Program Files(x86)\hitachi\hirdb_s\conf\mkinit"`

However, double quotation marks are not necessary when you use the `set` command in a batch file or at the command prompt to set an environment variable, or when you specify the installation directory. If you do use double quotation marks in such a case, the double quotation marks become part of the value assigned to the environment variable.

Example: `set PDCLTPATH=C:\Program Files\hitachi\hirdb_s\spool`

- HiRDB cannot use files on a networked drive, so you must install HiRDB and configure the HiRDB environment on a local drive. Files used by utilities, such as utility input and output files, must also be on the local drive.

## Conventions: KB, MB, GB, and TB

This manual uses the following conventions:

- 1 KB (kilobyte) is 1,024 bytes.
- 1 MB (megabyte) is 1,024<sup>2</sup> bytes.

- 1 GB (gigabyte) is  $1,024^3$  bytes.
- 1 TB (terabyte) is  $1,024^4$  bytes.

### **Conventions: Version numbers**

The version numbers of Hitachi program products are usually written as two sets of two digits each, separated by a hyphen. For example:

- Version 1.00 (or 1.0) is written as 01-00.
- Version 2.05 is written as 02-05.
- Version 2.50 (or 2.5) is written as 02-50.
- Version 12.25 is written as 12-25.

The version number might be shown on the spine of a manual as *Ver. 2.00*, but the same version number would be written in the program as *02-00*.

### **Important notes on this manual**

The following facilities are explained, but they are not supported:

- Distributed database facility
- Server mode system switchover facility
- User server hot standby
- Rapid system switchover facility
- Standby-less system switchover (1:1) facility
- Standby-less system switchover (effects distributed) facility
- HiRDB External Data Access facility
- Inner replica facility (supported only in the Windows versions of HiRDB)
- Updatable online reorganization (supported only in the Windows versions of HiRDB)
- Sun Java System Directory Server linkage facility
- Simple setup tool

The following products and option program products are explained, but they are not supported:

- HiRDB Control Manager
- HiRDB Disaster Recovery Light Edition
- HiRDB External Data Access



- HiRDB LDAP Option

## **Notes on printed manuals**

Please note that even though the printed manuals are separated into Part I and Part II, the chapters and page numbers sequentially continue from Part I to Part II. Also, please note that the index is only included in Part II.



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## 2.14 KFPS messages

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**KFPS00010-I R+S**

HiRDB setup start, func = *aa...aa*, HiRDB directory=*bb...bb*

HiRDB setup processing has started.

*aa...aa*: Function name:

add: HiRDB registration in OS

delete: HiRDB deletion from OS

*bb...bb*: Name of HiRDB directory

S: Resumes processing.

**KFPS00011-I R+S**

HiRDB setup ended, return code=*aa*

HiRDB setup processing has terminated.

*aa*: Termination code:

0: Terminated normally

8: Error occurred during processing

S: Terminates processing.

Action

If the termination code is not 0, take action appropriate to the message output before this message. If the text busy status has just occurred, HiRDB's zombie process may still remain. In such a case, terminate the zombie process with UNIX's *kill* command and re-execute.

**KFPS00012-I S**

Library setup for character code set *aa...aa*

Library for using *aa...aa* character codes has been set up.

*aa...aa*: HiRDB character codes:

CHINESE: EUC Chinese kanji codes

LANG-C: One-byte character codes

SJIS: Shift JIS kanji codes

UJIS: EUC Japanese kanji code

UTF-8: Unicode(UTF-8)

S: Terminates processing.

**KFPS00013-I S**

Library setup completed for program *aa....aa*

The library for program *aa....aa* has been set up.

*aa....aa*: Program name:

OmniBack: JP1/OmniBack II

S: Continues processing.

**KFPS00014-I S**

Load module setup completed for *aa....aa*

The load module for *aa....aa* has been set up.

*aa....aa*: Load type:

POSIX: POSIX library version of HiRDB

S: Continues processing.

**KFPS00015-E S**

Unable to setup *aa....aa*, reason code=*bb....bb*

The load module for *aa....aa* could not be set up.

*aa....aa*: Load type:

POSIX: POSIX library version of HiRDB

NO-POSIX: Non-POSIX library version of HiRDB

*bb....bb*: Reason code:

REMOVED: This module has been deleted

S: Terminates processing.

O: Reinstall HiRDB.

**KFPS00016-E S+L**

Error occurred while setup HiRDB

An error occurred during HiRDB setup processing.

S: Terminates processing.

Action

Check whether, before or after this message was issued, a memory shortage occurred in the */etc* or */tmp* directory. If a memory shortage occurred, allocate free disk space. Also, determine whether a disk failure occurred. If a disk failure occurred, recover from the disk failure. Then, re-execute the command.

**KFPS00020-E S**

Pdsetup already used by another user



The `pdsetup` command cannot be input because it is being used by another user.

S: Terminates processing.

Action

Wait until the `pdsetup` command being executed by the other user terminates, then re-execute.

**KFPS00021-E S**

Invalid user name, `user=aa....aa`

The authorization identifier of the HiRDB administrator is invalid.

*aa....aa*: Authorization identifier

However, if a check of the authorization identifier cannot be performed due to a memory shortage, `*****` is output.

S: Terminates processing.

Action

Take one of the following actions:

- If `*****` is output for the authorization identifier:

Stop unneeded programs and re-execute.

- Other than above (in UNIX)

Take one of the following actions:

- Change the user name to the name that corresponds to the user ID of the HiRDB administrator defined in `/etc/passwd`.
- Change the HiRDB administrator and the owner of the HiRDB operation directory.
- Other than above (in Windows)

Change the HiRDB administrator and the owner of the HiRDB operation directory.

**KFPS00022-E S**

Language "*aa....aa*" not installed

Language *aa....aa* has not been installed.

*aa....aa*: Language name

S: Terminates processing.

Action

Install language *aa....aa*.

## 2. Messages

### **KFPS00030-E S**

Permission denied

Specified processing is not permitted.

S: Terminates processing.

Action

Ask the super user to execute the pdsetup and pdopsetup command.

### **KFPS00031-E S**

Specified HiRDB system already catalogued

Specified HiRDB system has already been registered.

S: Terminates processing.

Action

Check the specified HiRDB directory, enter pdsetup -d, then re-execute, if necessary.

### **KFPS00032-E S**

Specified HiRDB system not catalogued

Specified HiRDB system has not been registered.

S: Terminates processing.

Action

Check the specified HiRDB directory, enter pdsetup, and re-execute, if necessary.

### **KFPS00033-E S**

Specified HiRDB home directory not exist

Specified HiRDB directory was not found.

S: Terminates processing.

Action

Check the specified HiRDB directory and re-execute.

### **KFPS00034-E E+L+S**

Insufficient disk capacity

There is not enough disk space.

S: Terminates processing.

Action

Allocate sufficient space to the specified HiRDB directory and re-execute. If the text busy status has just occurred, HiRDB's zombie process may still remain.

Terminate the process with the `kill` command (in UNIX) or with the `pkill` command (in Windows), and re-execute.

**KFPS00035-I S**

Creates files necessary for execution

File required for execution is created.

S: Resumes processing.

**KFPS00036-Q S**

Specify whether to delete files necessary for execution from specified HiRDB home directory ? [y:YES , n:NO]

Asks whether or not the files under the specified HiRDB directory that are required for execution are to be deleted.

y: Delete; n: Do not delete.

S: Resumes processing.

O: Enter y (yes) or n (no).

**KFPS00038-E S**

Specified HiRDB home directory not full pathname

Asks the absolute pathname for the HiRDB directory.

S: Terminates processing.

Action

Specify the absolute pathname of the HiRDB directory and re-execute.

**KFPS00040-I R+S**

Delete files necessary for execution

The files required for execution have been deleted.

S: Resumes processing.

**KFPS00050-E S**

Root directory specified

No root directory was specified for the HiRDB directory.

S: Terminates processing.

Action

Because the root directory cannot be changed to the HiRDB directory, create a separate HiRDB directory and re-execute.

**KFPS00054-E S**

Unable to specify HiRDB home directory pathname more than 128 bytes

The length of the specified HiRDB operation directory path is greater than 128 bytes.

S: Terminates processing.

Action

A HiRDB operation directory path of 128 bytes or less in length should be specified. When using a symbolic link, be sure that the length of the entity path to be linked to is less than or equal to 128 bytes.

**KFPS00055-E S**

"program ID" invalid

The length of the character string of the specified program ID exceeds 256 bytes.

S: Terminates processing.

Action: Specify the program ID with a maximum length of 256 bytes.

**KFPS00056-I S+L**

OS shutdown action setup mode=*aa....aa*

During OS shutdown, the function that terminated HiRDB was set to *aa....aa*.

*aa....aa*:

on: Explicitly terminate HiRDB.

off: Do not terminate HiRDB (depending on the OS, terminates the HiRDB process).

S: Terminates processing.

**KFPS00060-E S**

Usage: *aa....aa*

Command format *aa....aa* is invalid.

*aa....aa*:

- HP-UX (32-bit mode):

```
pdsetup { -d [-f] | [-c {sjis|chinese|lang-c|ujis|utf-8}]  
[-p program] [-l load] [-k {on|off}]} HiRDB_home_directory
```

- HP-UX (64-bit mode):

```
pdsetup { -d [-f] | [-c  
{sjis|chinese|lang-c|ujis|utf-8}] [-k {on|off}]}  
HiRDB_home_directory
```

- Solaris (32-bit mode):

```
pdsetup { -d [-f] | [-c  
{sjis|chinese|lang-c|ujis|utf-8}] [-l load] [-k  
{on|off}]} HiRDB_home_directory
```

- Solaris (64-bit mode):

```
pdsetup { -d [-f] | [-c
{sjis|chinese|lang-c|ujis|utf-8}] [-k {on|off}]}
HiRDB_home_directory
```

- AIX 5L (32-bit mode):

```
pdsetup { -d [-f] | [-c
{sjis|chinese|lang-c|ujis|utf-8}] [-l load]}
HiRDB_home_directory
```

- AIX 5L (64-bit mode):

```
pdsetup { -d [-f] | [-c {sjis|chinese|lang-c|ujis|utf-8}]}
HiRDB_home_directory
```

- Linux:

```
pdsetup { -d [-f] | [-c
{ujis|chinese|lang-c|utf-8|sjis}] [-k {on|off}]}
HiRDB_home_directory
```

S: Terminates processing.

Action

Check the operands and re-execute the command.

#### **KFPS00320-I R**

RPC Info. RC=*aa....aa*, Func=*bb....bb*, Msg=*cc....cc*, Local (Pid=*dd....dd*, Port=*ee....ee*)

Displays RPC information.

*aa....aa*: Return code

*bb....bb*: Maintenance information 1 (function name, module name, etc.)

*cc....cc*: Maintenance information 2

*dd....dd*: ID of local process

*ee....ee*: Local port number

S: Resumes processing.

#### **KFPS00323-E R**

RPC is unavailable. Remote node address=*aa....aa*, Remote port number=*bb....bb*, Remote tid=*cc....cc*, Local pid=*dd....dd*, Local port number=*ee....ee*

RPC cannot be executed.

*aa....aa*: IP address of remote host

## 2. Messages

*bb...bb*: Port number of remote process

*cc...cc*: Thread ID of remote process

*dd...dd*: ID of local process

*ee...ee*: Port number of local process

S: Resumes processing.

Action

Take appropriate action as indicated in the message output to the message log.

### **KFPS00326-E E+R**

Insufficient memory for RPC. Local pid=*aa...aa*, Local port number=*bb...bb*

A system call issued to execute RPC, such as `socket()` or `send()`, terminated abnormally due to a memory shortage.

*aa...aa*: ID of local process

*bb...bb*: Local port number

S: Terminates the displayed server abnormally.

Action

Take appropriate action as indicated in *4.1 Detail codes for RPC-related errors*.

### **KFPS00327-E R**

Too few sockets. RPC is unavailable. Local pid=*aa...aa*, Local port number=*bb...bb*, error number=*cc...cc*

RPC cannot be executed because there is no available socket.

*aa...aa*: ID of local process

*bb...bb*: Port number of local process

*cc...cc*: Error number

S: If the error number is 20490, terminates abnormally; otherwise, resumes processing.

Action

If the error number is 20490, contact a customer engineer.

For any other error number, take appropriate action as indicated in *4.1 Detail codes for RPC-related errors*.

### **KFPS00328-E E**

No data in RPC trace file *aa...aa*

Specified file *aa...aa* contains no data.

*aa....aa*: Specified file name

S: Cancels the applicable command's processing.

Action

Check the file name and reenter the command.

**KFPS00330-E E**

RPC trace file *aa....aa* not found

Specified file *aa....aa* was not found.

*aa....aa*: Specified file name

S: Cancels the applicable command's processing.

Action

Check the file name and reenter the command.

**KFPS00332-E E**

RPC trace file access error. Return information=*aa....aa*, Function name=*bb....bb*

One of the following possible errors is displayed:

- Memory shortage occurred
- RPC trace file I/O error occurred

*aa....aa*: Return information

*bb....bb*: Function name

S: Cancels the applicable command's processing.

Action

Contact a customer engineer.

**KFPS00335-E R**

Time out occurred in chained RPC. Service group=*aa....aa*, local pid=*bb....bb*

The call target already aborted a chained RPC (a server in the same service function group was called more than once within the same transaction using a reply RPC). Or, the transaction was not terminated within the specified time since the last chained RPC call.

*aa....aa*: Name of service group

*bb....bb*: Local process number

S: Terminates the displayed server abnormally.

P: Contact the HiRDB administrator.

Action

Take appropriate action as indicated in the message output to the message log.

**KFPS00336-E R**

RPC of message received from client or server with different HiRDB version. Local pid=*aa....aa*, Remote node address=*bb....bb*, Remote port number=*cc....cc*

The version of the text at the send side does not match the version at the receive side.

*aa....aa*: Received process ID

*bb....bb*: Node address of send side

*cc....cc*: Port number of send side (up to 5 numeric digits)

S: Resumes processing after discarding the message resulting in output of this message (does not send a message to that effect to the send side).

Action

Check the HiRDB version of the server that output this message and the HiRDB version of the HiRDB client or server that sent the message. If they do not match, use matching versions.

**KFPS00337-E E+R**

Unable to open RPC trace file *aa....aa*

An open error or a definition analysis error occurred in an RPC trace file.

*aa....aa*: Name of RPC trace file

If the path name of the RPC trace file exceeds 187 characters, the last 187 characters of the RPC trace file path name are output.

S: Resumes processing (RPC trace will not be collected).

Action

Check the following operands for an error:

- `pd_rpc_trace_name`
- `pd_rpc_trace_size`

If this message is reissued after correcting these operands, contact a customer engineer. If there is a shortage of system resources (disk space shortage, file count shortage, etc.), change the operating system kernel parameters.

**KFPS00345-W L**

Insufficient HiRDB registered ports, reason code=*aaa*. Use OS assigned ports

Port numbers assigned automatically by the OS are being used because the number of



ports being used for communication by HiRDB exceeded the number of ports specified in the `pd_registered_port` operand, or because all port numbers specified in the `pd_registered_port` operand are in use by other programs.

*aaa*: Reason code:

-10: The number of ports specified in the `pd_registered_port` operand was exceeded

-20: All port numbers specified in the `pd_registered_port` operand are in use by other programs

S: Continues processing.

Action

Take one of the following actions:

Reason code	Action
-10	Check the value specified in the <code>pd_registered_port</code> operand; there may be too few port numbers.
-20	Check the value specified in the <code>pd_registered_port</code> operand; all port numbers in the specified range may be in use by other programs. If this is the case, re-evaluate the specification; if all port numbers are not being used by other programs, there may be too few ports specified in the <code>pd_registered_port</code> operand.

When this message is output, it is recommended that the statistics analysis utility (statistical information related to system operations) be executed. Check the following items:

- Number of HiRDB reserved ports being used (`#OF REGISTERED PORTS`)
- Number of ports assigned automatically (by the OS) that were being used when the number of HiRDB reserved ports was exceeded (`#OF ASSIGNED PORTS`)

**KFPS00346-E L**

Port number in registered ports definition invalid

The specification of the `pd_registered_port` operand is invalid.

S: Terminates HiRDB startup processing.

Action

Correct the value specified in the `pd_registered_port` operand and restart HiRDB.

**KFPS00347-E L**

Insufficient shared memory. Required memory size=*aa....aa* bytes

A shortage of shared memory space occurred.

*aa...aa*: Size of shared memory that needs to be allocated

S: Terminates HiRDB startup processing.

Action

Reconsider the shared memory estimate. Also, if an error message was output before this message, take the action indicated in that message. If this message is output even after these measures, save the contents of the message and contact a customer engineer.

**KFPS00348-E L**

Duplicate registered ports, type=*aa...aa*, port number=*bb...bb*

There is a duplication of a port number that must not be duplicated in the range of port numbers specified in the `pd_registered_port` operand.

*aa...aa*: Type of duplicate port number:

NAME

Port number specified in `pd_name_port` operand or in `-p` option of `pdunit` operand.

SERVICE

Port number specified in `pd_service_port` operand.

SERVICES

Port numbers in the following `services` file are duplicated:

- In UNIX: `/etc/services`
- In Windows: `%windir%\system32\drivers\etc\services`

However, in an NIS or DNS environment, the files defined in the NIS or DNS configuration are used.

*bb...bb*: Duplicated port number

S: Terminates HiRDB startup processing.

Action

Review the value set in the system common definition or in the unit control information definition `pd_registered_port` operand and in the `services` file, and, if necessary, set the correct value. If the HiRDB system definition is changed, restart HiRDB. Because this message shows only the first duplicated port number, it is wise to check for any other duplicated port numbers.

**KFPS00349-E L**

Insufficient network port

An attempt to allocate a communication port number failed.

If this message is output, the system attempts to reacquire the communication port number. If successful, the HiRDB process will run without problem. If this message is output frequently or a communication error causes a HiRDB process error after this message is output, one of the following is the most likely cause:

- There is a shortage of automatically allocated port numbers for the operating system
- The network of the IP address described in the KFPS00352-I message output immediately after this message terminated abnormally
- There is an error in the IP address of the host name used by the HiRDB specified in the `hosts` file (in UNIX, `/etc/hosts`, and in Windows, `OS-installation-directory\system32\drivers\etc\hosts`)
- There is a memory shortage
- The port number output in the KFPS00352-I message is already in use (when it is the same as the value of the port number set by HiRDB, such as the value specified in the `pd_name_port` operand)

S: Continues processing. Attempts to reacquire communication port number.

#### Action

Take the following actions:

1. If there is a shortage of port numbers, check if a program other than HiRDB is using many communication ports. If another program is using many communication ports, reduce the number of ports it uses.

Alternatively, specify the `pd_registered_port` operand and secure (specify the range of) the communication port number HiRDB uses. For details about how to specify a range of port numbers, see the *HiRDB Version 8 System Operation Guide*.

Also, if this message is output by a server machine specifying a system manager on HiRDB/Parallel Server, or for HiRDB/Single Server, specifying 1 in the `PDTCPCONOPT` operand in the client environment definition is often effective. For details about the `PDTCPCONOPT` operand, see the *HiRDB Version 8 UAP Development Guide*.

2. If the network terminates abnormally, start the network.
3. Re-evaluate the content of the `hosts` file, and check if an incorrect IP address is specified in the host name entries defined by HiRDB. Correct any incorrect IP addresses found, and then start HiRDB.
4. If there is a memory shortage, re-estimate the memory. Alternatively, terminate any unneeded processes.

5. If the port number is already in use, revise the value of the port number set by HiRDB (such as the value specified in the `pd_name_port` operand) to a value that is not in use.
6. For any other case, obtain the output content of the KFPS00352-I message, and then contact a customer engineer.

**KFPS00350-W L**

Process memory over `pd_svr_castoff_size` value. Server=*aa...aa*,  
memory size=*bb...bb*, value= size=*cc...cc*

Server processing has been terminated because the amount of memory space used exceeded the value specified in the `pd_svr_castoff_size` operand.

*aa...aa*: Server name (server name specified in the `pdstart` operand of the system common definition)

*bb...bb*: Memory size used (in MB)

*cc...cc*: Size specified in `pd_svr_castoff_size` operand (in MB)

S: Terminates processing.

Action

If this message is output often, the effectiveness of resident processes will decline. In addition, frequent processing terminations and startups, as well as large amounts of output to the system and message logs, will result in overall performance degradation. Therefore, specify the `pd_svr_castoff_size` operand value for each server so that the following condition is satisfied:

$$a - b < c$$

a: Server process virtual memory size after SQL process termination

b: Server process virtual memory size immediately following HiRDB startup

c: Value set in `pd_svr_castoff_size` operand

Use an operating system command (e.g., the `top` command in HP-UX) to check the virtual memory size.

**KFPS00351-E L**

Hostname (*aa...aa*) not found

Host name *aa...aa* could not be obtained.

*aa...aa*: Host name

S: Terminates processing.

Action

The following are possible causes of this problem; eliminate the cause and re-execute the processing:

## In UNIX:

- The host name or IP address was not found in the `hosts` file.
- Referencing privilege for the `hosts` file has not been granted.
- The `hosts` file was modified while HiRDB was running. When the `hosts` file is modified, terminate normally, and then start HiRDB.
- If DNS or NIS is being used, the host name or IP address was not found in the database to be retrieved.
- If DNS or NIS is being used, then either the referencing privilege for the database to be retrieved or for the environment setup file of DNS has not been granted, or one or both of these settings is invalid.
- If DNS or NIS is being used, the setting of the `/etc/nsswitch.conf` file is invalid.

## In Windows:

- The host name or IP address was not found in the `hosts` file.
- Reference privilege for the `hosts` file has not been granted.
- The `hosts` file was modified while HiRDB was running. After the `hosts` file is modified, terminate normally, and then start HiRDB.
- If DNS or WINS is being used, the host name or IP address was not found in the database to be retrieved.
- If DNS or WINS is being used, either there is no reference privilege for the database to be retrieved or one of the settings is invalid.

**KFPS00352-I L**

Port number maintenance information, (*aa....aa*)

This is the port number maintenance information of the KFPS00349-E message.

*aa....aa*: Maintenance information

S: Continues processing.

## Action

This is the maintenance information of the KFPS00349-E message output immediately before this message. Take action according to the KFPS00349-E message.

**KFPS00353-E L**

System call error occurred while communication, *func=aa....aa*,  
*errno=bb....bb*, *info=cc....cc*

An unexpected error occurred during communication of a system call.

*aa...aa*: Name of the system call

*bb...bb*: System call return code

*cc...cc*: Internal information

S: Outputs an abort code (`Psrc780`), and terminates this process.

#### Action

Examine the error code (`errno`: external integer variable indicating the variable status) and refer to *errno.h* or to the applicable OS manual to eliminate the error. Then, restart the system. For representative examples of `errno`, see *4.3 System call return codes*.

Possible causes of the error:

- If a program is running that manages or changes the communication socket environment (such as a security management program)
- If a portscan or other method makes a large number of connection requests to a HiRDB process

If this is not resolved, contact a customer engineer.

#### **KFPS00354-W L**

Duplicate registered ports, port number=*aaaaa*

The port number specified as the HiRDB reserved port duplicates the port number registered in the following `services` file:

- In UNIX: `/etc/services`
- In Windows: `%windir%\system32\drivers\etc\services`

However, in an NIS or DNS environment, the files defined in the NIS or DNS configuration are used.

*aaaaa*: Duplicate port number

S: Does not use the duplicate port number as the HiRDB reserved port.

Action: Review the value set in the system common definition or in the unit control information definition `pd_registered_port` operand and in the `services` file, and, if necessary, set the correct value.

#### **KFPS00403-E E+L**

Unable to start lock service. reason code=*aa...aa*

An error occurred during lock service function startup or restart processing.

*aa...aa*: Reason code indicating the nature of the error

S: Terminates the HiRDB system abnormally.

## Action

Take action appropriate to the reason code, as listed below, and restart:

Reason code	Explanation	Action
10	Error occurred during definition analysis startup processing.	If an error message was issued before this message, take action appropriate to that message
20	Communication error occurred.	
30	Space shortage occurred.	Check for excessive memory allocation. If too much memory is allocated, release unneeded resources.
40	Shared memory shortage occurred	Re-evaluate the value of the <code>pd_lck_pool_size</code> operand specified in the corresponding server definition.
60	There is no directory for output of deadlock information.	Create a <code>%PDDIR%\spool\pdlckinf</code> directory.

**KFPS00412-E L**

Error occurred while terminating lock service; continues processing. reason code=*aa....aa*

An error occurred during lock service function termination.

*aa....aa*: Reason code indicating the nature of the error

S: Resumes processing.

## Action

Take action appropriate to the reason code, as listed below:

Reason code	Explanation	Action
10	Communication error occurred.	If an error message was issued before this message, take action appropriate to that message.

**KFPS00430-E L**

Unable to execute *aa....aa* command. reason code=*bb....bb*

The indicated command cannot be executed due to an invalid parameter or execution error.

*aa....aa*: Command name

*bb....bb*: Reason code indicating the nature of the error

S: Cancels command execution and terminates.

## Action

Take action appropriate to the reason code, as listed below, and reenter the command:

Reason code	Explanation	Action
10	Communication error occurred.	If an error message was issued before this message, take action appropriate to that message
30	Space shortage occurred.	Check for excessive memory allocation. If too much memory is allocated, release unneeded resources.
40	Versions do not match	Check the version of each library in HiRDB.
50	Name server daemon is inactive.	Check if the name server daemon is active

**KFPS00431-I E+S**

Usage: `pdls -d lck [-a] [server ID]`

Displays the format of the `pdls` command that displays information on lock release wait status. This message is displayed in the following cases:

- `-h` was specified in the command option.
- An invalid command option or argument was entered.

S: If the command specification is invalid, cancels command processing.

O: If the command specification is invalid, reenter the command specified correctly.

**KFPS00432-I E+S**

Usage: `pdls -d lck -p`

Displays the format of the `pdls` command that displays pool information for lock table. This message is displayed because an invalid command option or argument was entered.

S: Cancels command processing.

O: Reenter the command specified correctly.

**KFPS00433-E E**

Unable to execute `aa...aa` command command execution mode not set up for lock service.

The lock service function is inactive. Or, the command cannot be executed because the system is being terminated.

`aa...aa`: Command name

S: Cancels command processing.



O: Check that the system has started, then re-enter the command.

**KFPS00434-E E**

Unable to execute the command versions of the *aa...aa* command and lock service library different.

Command *aa...aa* cannot be executed, because the version of the command does not match the version of the lock service daemon.

*aa...aa*: Command name

S: Cancels command processing.

Action

Check the command as to whether or not it supports the HiRDB being used, take appropriate action, then re-execute the command.

**KFPS00440-W L**

Deadlock occurred. server=*aa...aa*

Deadlock occurred during lock processing by the lock service function.

*aa...aa*: Name of the server resulting in deadlock

S: Resumes processing.

**KFPS00441-I L**

Deadlock information output to *aa...aa* file.

Deadlock information was output.

*aa...aa*: Name of the file containing the deadlock information

S: Resumes processing.

Action

Check the output deadlock information and eliminate the cause of the deadlock, if necessary. Delete deadlock information that is no longer needed.

For the output contents of deadlock information, see the *HiRDB Version 8 System Operation Guide*; for details on how to handle deadlock, see the *HiRDB Version 8 UAP Development Guide*.

**KFPS00442-E E+L**

Unable to output deadlock information. reason code=*aa...aa*

Deadlock information cannot be output.

*aa...aa*: Reason code indicating the nature of the error

S: Resumes processing.

Action

Take action appropriate to the reason code, as listed below:

Reason code	Explanation	Action
10	Acquisition of the value of PDDIR environment variable failed.	Check if the value of PDDIR has been set.
20	File open processing failed.	Check if there is a %PDDIR%\spool\pdlockinf directory. Check if there are too many files. If there are too many files, delete any unneeded ones.
30	Error occurred while writing data into a file.	Check if there are too many files. If there are too many files, delete any unneeded ones.
40	Acquisition of time failed.	—
50	Space shortage occurred.	Check for excessive memory allocation. If too much memory is allocated, release unneeded resources.

—: Not applicable

#### KFPS00443-I L

Insufficient memory in lock table. server=*aa....aa*, code=*bb*, using=*cc....cc*, total=*dd....dd*, PROGRAM=*ee....ee*

A memory shortage occurred in the table for managing locked resources to be allocated by server *aa....aa* during lock processing.

*aa....aa*: Server name

*bb*: Error code

*cc....cc*: Number of currently used tables in which the error occurred

*dd....dd*: Total number of tables available to all users

*ee....ee*: UAP identification information

Identification information about the UAP specified in the client environment definition PDCLTAPNAME is displayed. For a utility, the command name is displayed. Some utilities cannot be displayed, in which case the symbol \*\*\*\*\* is displayed.

S: Resumes processing.

P: Take the following action according to the error code:

Error code	Explanation	Action
10, 30	A shortage of tables to process locked resources or shared-resource lock waits	<p>Check the cause of this problem by referring to the information about tables for managing locked resources indicated in a KFPS00447-I message, which is output following this message (if multiple messages are output, see the message with a matching process ID in the information attached to the message). For details on tables for managing locked resources, see the <i>HiRDB Version 8 System Operation Guide</i>.</p> <p>If a UAP is making too many lock requests, revise the UAP to reduce its lock requests. The number of lock requests made per UAP varies with SQL. For details on how to estimate the number of locked resources, see the <i>HiRDB Version 8 System Definition</i>.</p> <p>A maximum number of lock requests per UAP can be set in the PDLOCKLIMIT client environment definition.</p> <p>If the estimated number of tables for managing locked resources is too small, either execute the UAP at a different time of day when there is less need to use tables for managing locked resources or change the definitions shown below. When changing a definition, shut down and re-start the entire HiRDB system or the unit in which the problem occurred.</p> <p>Front-end server:  Increase the value specified in the operand <code>pd_fes_lck_pool_size</code> in the server definition in which the error occurred.</p> <p>Other servers:  Increase the value specified in the operand <code>pd_lck_pool_size</code> in the server definition in which the error occurred.</p>
20, 40, 50	A shortage of tables to process transactions or lock-release waits	Reduce the number of UAPs or utilities that are concurrently executed.
60	A shortage of tables occurred to retain information beyond a transaction or for processing RDAREAs	Increase the value specified in the operand <code>pd_lck_util_disconnect_cnt</code> in the server definition in which the error occurred.

**KFPS00444-I L**

Number of lock requests exceeds the limit, server=*aa....aa*, number=*bb....bb*

Lock requests reached the maximum value at server *aa....aa*.

*aa....aa*: Server name

*bb....bb*: Number of lock requests

S: Resumes processing.

Action

Increase the PDLOCKLIMIT operand value in the client environment definition.

**KFPS00446-W L**

Lock queue length reached *aaa*, server=*bb...bb*, resource type=*cccc*, resource id=*dd...dd*

During lock processing of the resource indicated by ID *dd...dd*, the number of users waiting for locking has reached *aaa*.

*aaa*: Number of users waiting for resource lock release

*bb...bb*: Server name

*cccc*: Resource type

*dd...dd*: Resource information

S: Resumes processing.

P: Check whether or not locking of this resource is valid.

O: Check the value specified in the `pd_lck_queue_limit` operand. If the value is correct, check whether or not locking of this resource is valid. For details on resources, see 6. *Lock Control Errors*.

**KFPS00447-I L**

Insufficient exclusive control table information output to *aa...aa* file

Information about tables for managing locked resources was output.

*aa...aa*: Name of the file to which information about tables for managing locked resources was output.

S: Continues processing.

P: Check the information about tables for managing locked resources that was output. Determine whether the number of locked resources used by users is appropriate. If necessary, take an action according to the preceding KFPS00443-I message (if multiple messages are output, see the message with a matching process ID in the information attached to the message).

For details on tables for managing locked resources, see the *HiRDB Version 8 System Operation Guide*.

Action

Check the information on tables for managing locked resources that was output. If necessary, take action according to the preceding KFPS00443-I message (if multiple messages are output, see the message with a matching process ID in the information attached to the message).

For details on tables for managing locked resources, see the *HiRDB Version 8 System Operation Guide*.

In addition, because the data file for the locked resources management table increases in size, after detection has been completed, or for files that do not need to be detected, delete files where appropriate using one of the following methods:

- `pdccspool` command
- The OS's `rm` command (in UNIX)
- Explorer (in Windows)

**KFPS00448-E E+L**

Unable to output insufficient exclusive control table information. Reason code=*aa....aa*

Information about tables for managing locked resources cannot be output.

*aa....aa*: Reason code describing the nature of the error

S: Resumes processing.

Action

Take the following action according to the reason code.

Reason code	Explanation	Action
10	Environment variable PDDIR get failure	Make sure that a value is assigned to PDDIR.
20	File opening failure	Check whether the %PDDIR%\spool\pdlockinf directory exists and make sure that there are not too many files in it. If there are too many files, delete unneeded files using one of the following methods: <ul style="list-style-type: none"> <li>• <code>pdccspool</code> command</li> <li>• the OS's <code>rm</code> command (in UNIX)</li> </ul> Explorer (in Windows)
30	File write error	
40	Time get error	—
50	Shortage of swap area	Make sure that there are no unneeded processes or processes with an excessive amount of memory. If a problem is found, stop the affected process.

—: Not applicable

**KFPS00450-W L**

Waiting time for exclusive control release out. server=*aa....aa*, wait\_time=*bb....bb*

Lock release wait timeout occurred.

*aa...aa*: Name of the server resulting in timeout

*bb...bb*: Lock-release wait time (seconds)

S: Resumes processing.

**KFPS00451-I L**

Timeout information output to *aa...aa* file.

Timeout information was output.

*aa...aa*: Name of the file to which timeout information was output

S: Resumes processing.

Action

Check the output timeout information and eliminate the cause of the timeout, if necessary. Delete any timeout information that is no longer needed.

For the output contents of timeout information, see the *HiRDB Version 8 System Operation Guide*.

If timeout resulted from a deadlock, take action appropriate to the deadlock.

For details on how to handle deadlock, see the *HiRDB Version 8 UAP Development Guide*.

**KFPS00452-E E+L**

Unable to output timeout information. reason code=*aa...aa*

Timeout information cannot be output.

*aa...aa*: Reason code indicating the nature of the error

S: Resumes processing.

Action

Take action appropriate to the reason code, as listed below:

Reason code	Explanation	Action
10	Acquisition of the value of PDDIR environment variable failed.	Check if the value of PDDIR has been set.
20	File open processing failed.	Check if there is a %PDDIR%\spool\pd1ckinf directory. Check if there are too many files. If there are too many files, delete any unneeded ones.
30	Error occurred while writing data into a file.	Check if there are too many files. If there are too many files, delete any unneeded ones.

Reason code	Explanation	Action
40	Acquisition of time failed.	—
50	Space shortage occurred.	Check for excessive memory allocation. If too much memory is allocated, release unneeded resources.

—: Not applicable

**KFPS00460-E E+L**

Insufficient memory. size=*aa....aa* bytes, area type=*bb....bb*

A memory shortage occurred.

*aa....aa*: Size of memory that was to be allocated

*bb....bb*: Type of area resulting in memory shortage:

DYNAMIC\_SHMPOOL: Dynamic shared memory area

PROCESS: Process area

STATIC\_SHMPOOL: Static shared memory area

S: Resumes processing.

Action

If the memory shortage occurred in the process area, re-evaluate the number of processes, etc., and take appropriate action. If the same error recurs, contact a customer engineer.

**KFPS00601-I E+L**

Shared memory *aa....aa* found insufficient while executing name service; another *bb....bb* bytes required.

A shortage occurred in the shared memory while executing the name service function.

*aa....aa*: HiRDB's internal information

*bb....bb*: Size insufficiency (in bytes)

S: Cancels the processing requested to the name service function. If the HiRDB system is engaged in startup processing, the startup processing is suspended.

Action

Re-examine the shared memory estimation. Also, if an error message was output before this message, take the action indicated in that message. If this message is output even after these measures, save the contents of the message and contact a customer engineer.

**KFPS00602-W E**

Error occurred during name service for HiRDB/client. reason code=*aa....aa*, maintenance information=*bb...bb*

The name service function is no longer available to the HiRDB client functions.

*aa....aa*: Cause code

*bb...bb*: Maintenance information

S: Resumes the regular name service function. However, the name service function is no longer available to the client functions.

Action

If the reason code is `nclt001` or `nclt007`, there is a shortage in the process native memory. In this case, take action such as reducing the number of processes.

If the reason code is other than the above, save the contents of this message and contact a customer engineer.

Furthermore, if the HiRDB client environment variable specifies a UAP that specified `PDHOST`, this does not influence the name service facility.

**KFPS00606-E E**

Definition variable *aa....aa* specifies undefined host name *bb...bb*. definition file=*cc....cc*

Node name *bb...bb* specified in definition variable *aa....aa* has not been defined.

*aa....aa*: HiRDB's internal information

*bb...bb*: Node name

*cc....cc*: Erroneous definition file: {SERVER}

SERVER: %PDCONFPATH%\pdsys

S: Resumes analysis of the configuration definition, but does not execute the name service.

Action

Correct the definition file or `hosts` file and re-execute HiRDB.

**KFPS00608-W E+L+R**

Interprocess communication error occurred in name service.maintenance information=*aa....aa*

An interprocess communication error occurred during name service execution.

*aa....aa*: Maintenance information

S: Resumes processing.

O: Check the following items and take appropriate action:



1. If any host constituting the HiRDB system has not been started, start it. Similarly, if the LAN has not been started, start it. If this message is output even though all other hosts and the LAN have been started, ignore the message (for example, when starting HiRDB in a parallel configuration).
2. If communication errors occur frequently, contact the HiRDB administrator and have the administrator check the cause.
3. Contact the HiRDB administrator and have the administrator check for errors in the HiRDB definition information.

#### Action

Check the items shown below and take appropriate action:

1. If the cause of frequent communication error occurrences is known, stop HiRDB, take appropriate action, then restart HiRDB.
2. Check that the following definition information is correct; if the information is incorrect, stop the HiRDB system, correct the definition information, then restart the system:  
  
Name of host for which the `-x` and `-c` options were specified in the `pdunit` operand of the system common definition
3. If neither of the above applies, contact a customer engineer.

#### **KFPS00609-E E+L**

Unable to analyze definition file due to insufficient memory  
A shortage of process memory was detected. The system common definition file cannot be analyzed.

S: Terminates processing.

#### Action

Use the following methods to increase the amount of available memory and restart the HiRDB system:

- Reduce the number of other processes running in the same machine.
- Increase the swap area.
- Add more real memory.

#### **KFPS00610-I L**

Transaction queuing started, queuing unit=*aa....aa*, down unit=*bb....bb*

If rapid system switchover or standby-less system switchover (1:1):

Transaction queuing started at the *aa....aa* unit because the *bb....bb* unit is terminating abnormally.

If standby-less system switchover (effects distributed):

Because server *bb...bb* is abnormally terminating, transaction queuing has started on unit *aa...aa*.

This message is output when the unit queuing the transaction receives a transaction queuing communication.

*aa...aa*: Name of the unit queuing the transaction

*bb...bb*:

- If rapid system switchover or standby-less system switchover (1:1): Name of the unit that is abnormally terminating
- If standby-less system switchover (effects distributed): Name of the server that is abnormally terminating

*cc...cc*:

- If rapid system switchover or standby-less system switchover (1:1): unit
- If standby-less system switchover (effects distributed): server

S: Starts transaction queuing. There are also cases when a transaction start error occurs and the retry process queues a transaction before this message is output.

**KFPS00611-I L**

Transaction queuing ended, queuing unit=*aa...aa*, down unit=*bb...bb*

If rapid system switchover or standby-less system switchover (1:1):

The *aa...aa* unit terminates transaction queuing because the *bb...bb* unit is ready to receive a transaction.

If standby-less system switchover (effects distributed):

The *aa...aa* server terminates transaction queuing because the *bb...bb* unit is ready to receive a transaction.

This message is output if the unit that is queuing a transaction receives a communication from the receiving unit that it is ready to receive a transaction.

*aa...aa*: Name of the unit that is queuing a transaction

*bb...bb*:

- If rapid system switchover or standby-less system switchover (1:1): Name of the unit that is ready to receive a transaction
- If standby-less system switchover (effects distributed): Name of the server that is ready to receive a transaction

*cc...cc*:

- If rapid system switchover or standby-less system switchover (1:1): unit
- If standby-less system switchover (effects distributed): server

S: Terminates transaction queuing.

#### **KFPS00612-E L**

Timeout for transaction queuing occurred, reason=*aa...aa*, queuing unit=*bb...bb*, down unit=*cc...cc*

The transaction queuing process for the *bb...bb* unit timed out for one of the following reasons:

- Even though the value of the `pd_ha_trn_queuing_wait_time` operand was exceeded, the abnormally terminating unit or server did not communicate that it was ready to receive a transaction.
- Even though the value of the `pd_ha_trn_restart_retry_time` operand was exceeded, the abnormally terminating unit or server did not start.

*aa...aa*: Timeout reason

- `pd_ha_trn_queuing_wait_time`: Exceeded the value of the `pd_ha_trn_queuing_wait_time` operand
- `pd_ha_trn_restart_retry_time`: Exceeded the value of the `pd_ha_trn_restart_retry_time` operand

*bb...bb*: Name of the unit queuing a transaction

*cc...cc*:

- If rapid system switchover or standby-less system switchover (1:1): Name of the unit that is abnormally terminating
- If standby-less system switchover (effects distributed): Name of the server that is abnormally terminating

*dd...dd*:

- If standby-less system switchover (1:1): unit
- If standby-less system switchover (effects distributed): server

S: Terminates transaction queuing. All transactions issued after this transaction generate an error, and none is queued.

Possible causes:

- The value of the `pd_ha_trn_queuing_wait_time` operand or the value of the `pd_ha_trn_restart_retry_time` operand is too small
- The rapid system switchover facility process failed
- System switchover processing failed

When the abnormally terminating unit or server becomes ready to receive a transaction, the transaction is processed normally without any error occurring.

#### Action

Take the following actions:

- When *aa....aa* is `pd_ha_trn_queuing_wait_time`:

Possible causes:

1. The HiRDB startup process could not be completed within the `pd_ha_trn_queuing_wait_time` operand value (time). In this case, increase the `pd_ha_trn_queuing_wait_time` operand value.
2. An error occurred during the restart process of the abnormally terminating unit or server, and restart failed. See the message output before this message to determine the cause of the error.

- When *aa....aa* is `pd_ha_trn_restart_retry_time`:

Possible causes:

1. The unit or server that abnormally terminated did not restart within the `pd_ha_trn_restart_retry_time` operand value (time). During system switchover, the disk disconnection process could be taking a long time. In this case, increase the `pd_ha_trn_restart_retry_time` operand value.
2. If the system switchover process failed, see the message output before this message to determine the cause of the error. Alternatively, also see the operating system messages or cluster software messages.

#### **KFPS00700-E E+L**

Error occurred in system call *aa....aa*. `errno=bbb`, function name=*cc....cc*

A system call *aa....aa* resulted in an error.

*aa....aa*: Name of system call

*bbb*: Return code of the system call

*cc....cc*: Name of the function resulting in the error

S: Resumes processing, or terminates the HiRDB system abnormally.

#### Action

Check `errno.h` or the OS manual for the details of `errno` (external integer variable indicating the error status), eliminate the cause of the error, then re-execute.

For representative `errno`, see *4.3 System call return codes*.

**KFPS00701-E L**

Unable to continue processing due to file system error.

A system call for manipulating a file terminated abnormally.

S: Terminates the system.

## Action

If another message was output immediately before this message, refer to that message. If there is no problem with the access privilege to the file to be operated on, contact a customer engineer.

**KFPS00703-E L**

Insufficient memory. required memory size=*aa....aa* bytes, area type=*bb....bb*

A memory shortage occurred.

*aa....aa*: Size of the area that was to be allocated

*bb....bb*: Type of area resulting in memory shortage:

PROCESS: Process private area

STATIC\_SHMPOOL: Static shared memory

S: Terminates the system.

## Action

If the memory shortage occurred in the process private area, check the number of processes and re-execute.

If the same error recurs, check the cause of the error and contact a customer engineer.

**KFPS00705-E L**

Error found while analyzing definition file.

An error was detected while analyzing a HiRDB system definition file.

S: Waits for the start command.

O: Correct the HiRDB system definition file and enter the `pdstart` command.

## Action

If another message was output immediately before this message, refer to that message. If there is no error in the HiRDB system definition file, contact a customer engineer.

**KFPS00707-E L**

Max number of processes in process service definition invalid

The specified maximum number of processes is invalid in the system common

definition or unit control information definition.

S: Waits for the start command.

O: Correct the definition file and reenter the `pdstart` command. If the definition file is correct, contact a customer engineer.

**KFPS00709-E L**

Process monitoring time in process service definition invalid

The specified process monitoring interval is invalid in the system common definition or unit control information definition.

S: Waits for the start command.

O: Correct the definition file and reenter the `pdstart` command. If the definition file is correct, contact a customer engineer.

**KFPS00710-E E+L**

Shared memory unavailable; unable to continue processing.

Shared memory is not available to the process server daemon or to a command.

S: Terminates the system. In the case of a command, terminates it abnormally.

O:

In the case of the process server daemon:

Contact a customer engineer.

In the case of a command:

Reenter the command. If HiRDB is not started or if it is in the process of starting, wait for HiRDB start processing to complete and then execute the command. If the same message is output even after executing this command a number of times, contact a customer engineer.

**KFPS00712-E E+L**

Unable to continue processing due to program error or hardware failure.

Processing cannot continue due to a program error or a hardware failure.

S: Terminates the system.

Action

Check the cause of the error and contact a customer engineer.

**KFPS00713-E L**

Load module *bb...bb* for server *aa...aa* not found.

Load module *bb...bb* for server *aa...aa* was not found.

*aa...aa*: Server name

*bb...bb*: Load module name

S: Terminates the system abnormally.

Action

Determine the cause of the error and contact a customer engineer.

**KFPS00714-E L**

Load module *bb...bb* for server *aa....aa* not executable file.

Load module *bb...bb* for server *aa....aa* is not an executable file.

*aa....aa*: Server name

*bb...bb*: Load module name

S: Terminates the system abnormally.

Action

Determine the cause of the error and contact a customer engineer.

**KFPS00715-E E+L**

Unable to continue processing serious error occurred (reason code=*aaa*) . enter `pdrpause`

HiRDB processing cannot continue due to an error.

*aaa*: Reason code

1: One of the following errors was found:

- An error was found in the setting of environment variable `PDDIR`.
- The content of `/etc/inittab` is invalid (in UNIX).
- The installation directory name contains a space (in UNIX).
- The HiRDB installation target is invalid (in Windows).
- The HiRDB installation did not terminate normally (in Windows).

2: There is a memory shortage.

3, 4, 13, 44, 101: Failed to open the status file.

5, 104: Failed to read the status file.

6: Failed to acquire the time.

7: HiRDB terminated abnormally three consecutive times during the restart process. However, if the `pd_term_watch_count` operand is specified, HiRDB terminated abnormally the number of consecutive times this operand was specified.

8: The content of the status file is invalid.

- 9, 105: Failed to move the file pointer in the status file.
- 10, 14, 42, 102: Failed to write to the status file.
- 11, 15, 103: Failed to close the status file.
- 16: Common memory is corrupted.
- 20: This is a definition error.
- 21: Failed to move the directory.
- 22: Failed to copy the common library (the file system is full or text busy).
- 30: No related program product is installed.
- 43: Failed to change privileges of the status file.

S: Terminates processing.

#### Action

Take the following action:

1. Ignore this message if 1 is specified in the `pd_start_level` operand in the system definition and it is okay to continue the start process, except for the unit in the additional information of this message.
2. Execute the `pdstop -f` command if this message is output, and then the `pdstart` command did not terminate.
3. If an error message or a warning message in the event log (in UNIX, syslogfile) of the system manager unit was output before or after this message, take the action for that message.
4. If an error message or a warning message in the event log (in UNIX, syslogfile) of a unit in the additional information of this message before or after this message was output, take the action for that message.
5. Eliminate the cause of the error according to the reason code for a unit in the additional information of this message.
6. In UNIX, execute the `pdrrpause` command for a unit in the additional information of this message.
7. For Windows: Restart the service. If the service did not stop, stop the service, and then restart it.
8. Execute the `pdstart` command.
9. If a problem occurs that the HiRDB administrator cannot resolve, contact a customer engineer.

#### **KFPS00717-E L**

System went down *aaa* consecutive times.



The system shut down *aaa* times in a row.

*aaa*: Abnormal terminations count

S: Cancels HiRDB restart processing.

Action

Refer to the message that was output before this message to eliminate the cause of the error, then restart. If the error cannot be corrected by the HiRDB administrator, contact a customer engineer.

**KFPS00719-E E+L**

Message output error. message ID= *aaa*

An error occurred during message output.

*aaa*: ID of the message that was to be output

S: Resumes processing.

O: Take an operator's action appropriate to the displayed message ID.

Action

Take a HiRDB administrator's action appropriate to the displayed message ID.

**KFPS00720-E L**

Load module name not defined in definition file of server *aa....aa*

A load module name (`set module =`) is not defined in the server definition file.

*aa....aa*: Server name (same as the definition file name)

S: Resumes processing.

O: Specify the load module name in the definition file and restart the server.

Action

Contact a customer engineer.

**KFPS00721-E E**

Versions of process service library and process service daemon different.

The version of the process service function daemon does not match the version of the library that issued a service request to the process service function. Therefore, the process service function daemon cannot provide the requested service.

S: Cancels processing.

Action

Re-create the user server or command using a library that is supported by the HiRDB system that is being used, and restart. If the same error recurs, contact a

customer engineer.

**KFPS00722-E E+L**

Unable to excute recover process, code=*aa...aa*

Process activation failed while recovering an abnormally terminated process.

*aa...aa*: Error code:

-729: Attempt was made to activate more processes than the value specified in the `pd_max_server_process` operand

Other: Internal error occurred

S: Terminates abnormally.

Action

Take action appropriate to the error code:

-729: Increase the value of the `pd_max_server_process` operand in the system common definition or unit control information definition

Other: Take appropriate action to the message output before this message

**KFPS00727-E L**

HA monitor has been stopped

The HA monitor or the Hitachi HA Toolkit Extension is currently stopping.

S: Terminates abnormally.

O: Start the HA monitor or the Hitachi HA Toolkit Extension and restart HiRDB.

**KFPS00728-E L**

System error detected during communication with HA monitor.  
error code=*aaaa*, detail code=*bbbb*

A system error was detected during communication processing with the HA monitor or Hitachi HA Toolkit Extension.

*aaaa*: The HA monitor or Hitachi HA Toolkit Extension's return code

*bbbb*: The HA monitor or Hitachi HA Toolkit Extension's detail return code

S: Terminates abnormally.

Action

Check whether the HA monitor or Hitachi HA Toolkit Extension is running. If it is running, contact a customer engineer.

**KFPS00729-E L**

Unable to continue HiRDB unit processing because server process went down *aaaaa* times; stops HiRDB unit *bbbb*

Unit *bbbb* terminated abnormally because a HiRDB server process terminated abnormally *aa....aa* times within the monitoring interval of the process abnormal termination count monitoring facility (the `pd_down_watch_proc` operand).

*aa....aa*: Number of times the server process terminated abnormally

*bbbb*: Unit identifier

S: Abnormally terminates.

#### Action

See the message output after this message and start HiRDB if necessary. To avoid abnormal termination of HiRDB due to abnormal termination of a server process, either omit the `pd_down_watch_proc` operand or specify 0. For details about the abnormal termination monitoring facility, see the *HiRDB Version 8 System Operation Guide*.

#### KFPS00730-I S

`pdpfresh` ended, return code = *aa....aa*

The `pdpfresh` command ended with return code *aa....aa*.

*aa....aa*: Return code (see Action below)

S: Continues processing if the `-c` option is not specified when the `pdpfresh` command is executed and the return code is 0 or 4. Otherwise, terminates processing.

#### Action

Take action according to the following return codes:

Return code	Processing results of the <code>pdpfresh</code> command		Action
0	No <code>-c</code>	Started refreshing the server process.	None.
	<code>-c</code>	No process is currently refreshing.	
1	No <code>-c</code>	Is not set.	Procedure: 1. Execute the <code>pdls -d prc -c</code> command. The process whose STATUS is C may be accessing a HiRDB file system area, including subsystem RDAREAs. 2. If forcibly refreshing this process is okay, re-execute the <code>pdpfresh -f</code> command. When not refreshing this process, after this running process terminates, re-execute the <code>pdpfresh</code> command. (If necessary, take action so the process will terminate.)
	<code>-c</code>	A process is currently refreshing.	

Return code	Processing results of the <code>pdppfresh</code> command	Action
4	The warning ended (an error occurred on at least one server).	Check the status of the server where the error occurred. If the server process is running, that server process might remain in a state in which it is accessing an RDAREA (to prevent resynchronizing of the pair volume). Use the <code>pdppfresh</code> command to specify the server, and then re-execute.
6	Terminated because the utility is running.	After the utility terminates, re-execute the <code>pdppfresh</code> command. Alternatively, if it is okay for an error to occur in the currently running utility, re-execute the <code>pdppfresh -p</code> command.
8	Abnormally terminated.	Contact a customer engineer.

**KFPS00750-E E**

Unable to execute command due to insufficient memory. required memory size=*aa...aa* bytes, area type=*bb...bb*

A command cannot be executed due to a memory shortage.

*aa...aa*: Size of the area that was to be allocated

*bb...bb*: Type of area resulting in memory shortage:

PROCESS: Process private area

STATIC\_SHMPOOL: Static shared memory

S: Terminates the command abnormally.

**Action**

If the memory shortage occurred in the process private area, check the number of processes and re-execute.

If the same error recurs, check the cause of the error and contact a customer engineer.

**KFPS00751-E E**

Command syntax incorrect.

A syntax error was detected in a command.

O: Check the command syntax.

**KFPS00752-E E**

Load module name invalid.

The length of a `pdls` command argument (load module name) is invalid.

O: Set the correct argument.

**KFPS00753-E E**

Server name invalid.

The length of a `pdls` command argument (server name) is invalid.

O: Set the correct argument.

**KFPS00754-E E**

Process ID invalid.

The length of a `pdls` command argument (process ID) is invalid.

O: Set the correct argument.

**KFPS00755-E E**

Inter-process communication unavailable.

A command cannot be executed because process-to-process communication is not available. Possible reasons are as follows:

- HiRDB is not active.
- Process-to-process communication environment has not been set up

O: Enter the command when the HiRDB system is active.

**KFPS00756-E E**

Command argument invalid.

A command argument is invalid.

O: Set the correct argument.

**KFPS00759-E E**

Service group name invalid.

The length of a `pdls` command argument (service group name) is invalid.

O: Set the correct argument.

**KFPS00760-E E**

Unable to execute `pdrrpause` command, HiRDB unit is not PAUSE

The `pdrrpause` command cannot be executed because the pause of HiRDB startup or restart processing has been released.

S: Terminates processing.

O: There is no need to execute the `pdrrpause` command.

**KFPS00791-I S**

Usage: `pdls -d prc { [-a | -s server ID | -g service group name | -l load module name | -p process ID] }`

Displays the format of the `pdls` command. This message is displayed when the command specification is invalid.

2. Messages

S: Terminates the command abnormally.

O: Reenter correctly the specified command.

**KFPS00793-I S**

Usage : pdrpause

The specification format of the pdrpause command is invalid.

S: Terminates processing.

O: Specify the command correctly and re-execute.

**KFPS00803-E E+L**

Unable to start scheduler. reason code=*aa....aa*

An error occurred during scheduler normal startup or restart processing.

*aa....aa*: Reason code indicating the nature of the error

S: Cancels HiRDB system normal startup or restart processing.

Action

Take action appropriate to the reason code in the list, and restart HiRDB. The following table shows the reason codes and actions:

Reason code	Explanation	Action
1	Impossible to allocate shared memory	If an error message has been output before this message, take action appropriate to that message and restart HiRDB.
2	Definition analysis error	
3	Communication error	
4	Queue information file access error	Check whether there is an access privilege to the spool directory under the HiRDB working directory. If there is an access privilege, contact a customer engineer.

**KFPS00830-E E+L**

Unable to start server *aa....aa*, reason code=*b*

An error occurred during the server start process.

*aa....aa*: Name of the server that cannot start

*b*: Reason code indicating the error content

S: Aborts the server start process.

O: If it is necessary to start the applicable server, after the HiRDB administrator takes action, start the server using the `pdstart -s` command.

Action

Take action appropriate to the reason code, as listed below:

Reason code	Explanation	Action
1	Server already active	Specified server or service group has already been started; if the specification is invalid, specify the correct server name and enter the <code>pdstart -s</code> command.
2	Timing error	Scheduler has not been started or is engaged in termination processing; enter the <code>pdstart -s</code> command after restarting the system.
3	Invalid number of servers	The maximum number of servers that can be run under the scheduler has been exceeded; check the schedule service definition, take appropriate action, then enter the <code>pdstart -s</code> command.
4	Communication error	If an error message has been output before this message, take action appropriate to that message and enter the <code>pdstart -s</code> command.
5	Incompatible program versions	Check the version of each library in the HiRDB system, take appropriate action, then enter the <code>pdstart -s</code> command.
6	Unable to activate a resident process	Re-evaluate the number of processes that the applicable server machine can start. If this message is output after HiRDB starts, execute the <code>pdstart</code> command and restart HiRDB. If this error occurs when executing the <code>pdstart -s</code> command, re-execute the <code>pdstart -s</code> command.
7	Memory shortage	Check the memory size specified in the definition, take appropriate action, then enter the <code>pdstart -s</code> command.
8	Definition analysis error	If an error message has been output before this message, take action appropriate to that message and enter the <code>pdstart -s</code> command.

#### KFPS00835-E E+L

Unable to terminate server *aa....aa*. reason code=*bb....bb*

An error occurred during server termination processing.

*aa....aa*: Name of server that cannot be terminated

*bb....bb*: Reason code indicating the nature of the error

S: Cancels server termination processing.

O: If the server needs to be terminated, take the appropriate HiRDB administrator's

action and terminate the server with the server termination command (`pdstop -s`).

#### Action

Take action appropriate to the reason code, as listed below:

Reason code	Explanation	Action
1	Server inactive	Specified server or service group has not been started; if the specification is invalid, specify the correct server name and enter the <code>pdstop -s</code> command.
2	Timing error	Scheduler has not been started or is engaged in termination processing; enter the <code>pdstart -s</code> command after restarting the system.
3	Communication error	If an error message has been output before this message, take action appropriate to that message and enter the <code>pdstart -s</code> command.
4	Incompatible program versions	Check the version of each library in the HiRDB system, take appropriate action, then enter the <code>pdstop -s</code> command.
5	Memory shortage	Check the memory size specified in the definition, take appropriate action, then enter the <code>pdstop -s</code> command.
6	Definition analysis error	If an error message has been output before this message, take action appropriate to that message and enter the <code>pdstart -s</code> command.

#### KFPS00836-E E+L

Unable to create a server process. `server=aa...aa`, reason code=`bb...bb` (`cc...cc`)

Server processing generation occurred during server scheduling.

`aa...aa`: Name of the server that could not create the process

`bb...bb`: Reason code for process creation error

`cc...cc`: Internal code

S: Resumes processing.

#### Action

Take action appropriate to the reason code:



Reason code	Explanation	Action
1	Maximum number of processes was exceeded	Decrease the number of processes being executed.
2	Memory shortage (fork error)	Correct the memory shortage.
99	HiRDB internal error	Check the message or the internal and error detail codes that were output before this message and eliminate the cause of the error. If the standby-less system switchover (effects distributed) facility is being used, internal code - 725 may be output during system switchover, but this is not a problem because server startup is suppressed during switchover.

**KFPS00840-E E+L**

Error occurred while analyzing definitions. server attribute=*aa....aa*

An error occurred while analyzing the system definition information.

*aa....aa*:

Type of server subject to system definition information analysis:

"SYSTEM": System server

"USER": Front-end server, back-end server, or dictionary server

The system processing and action to take differ depending on the server attributes.

System server:

S: Terminates HiRDB abnormally.

Action

If an error message was output before this message, take the action indicated in that message, and restart HiRDB. If the same error recurs, contact a customer engineer.

HiRDB/Parallel Server:

S: Cancels the server processing and terminates the process.

Action

Check the corresponding server definition statement, take appropriate action, then restart the server with the `pdstart -s` command. If the same error recurs, contact a customer engineer.

**KFPS00841-E E+L**

Service group name not defined in server definition file.  
 server=*aa....aa*

A service group name is not defined in the server definition file.

*aa....aa*: Name of the server resulting in the definition error

S: Cancels server startup processing.

O: If the server needs to be started, take the appropriate HiRDB administrator's action and enter the server startup command (`pdstart -s`).

Action

Specify the server group name in the corresponding server definition file.

**KFPS00843-I S**

Changed process count. server: *aa....aa*

The number of resident server processes and the maximum number of startup processes have been changed.

*aa....aa*: Name of the server for which the values have been changed

S: Resumes processing.

**KFPS00844-E E**

Error code in `pdchprc` command. server:*aa....aa*, reason code=*bb*

An error occurred during `pdchprc` command execution.

*aa....aa*: Name of the server resulting in the error

Depending on the timing of the error, `*****` may be output as the server name.

*bb*: Reason code indicating the nature of the error

S: Terminates processing.

Action

Take action appropriate to the reason code:

Reason code	Explanation	Action
11	Server inactive	If an invalid server name was specified, enter the <code>pdchprc</code> command with the correct server name specified.
12	Invalid server name	Enter the <code>pdchprc</code> command with the correct server name specified.

Reason code	Explanation	Action
13	Server terminating	If an invalid server name was specified, enter the <code>pdchprc</code> command with the correct server name specified.
14	Unit did not start up	After startup of the server <i>aa....aa</i> unit is complete, execute the <code>pdchprc</code> command.
21	Definition analysis error	If an error message was output before this message, take action appropriate to that message.
22	Communication timeout	
23	Memory shortage	Take appropriate action to prevent a memory shortage.
24	Mismatched program versions	Check the version of each HiRDB library and take appropriate action.
25	Maximum number of processes exceeded	Reduce the number of processes being executed.
26	Communication error	If an error message was output before this message, take action appropriate to that message.
Other	Does not apply	If an error message was output before this message, take the action indicated in that message. If no message was output, contact a customer engineer.

**KFPS00847-W E+L**

Unable to delete message queue automatically in next system startup; queue information failed to be cataloged. `server=aa....aa`

The message queue cannot be deleted automatically at the next system startup, because the queue information file write operation failed.

*aa....aa*: Name of the server resulting in the queue information write error

If the unit is applicable to the standby-less system switchover (effects distributed) facility, `*****` may be output instead of the server name.

S: Resumes processing.

**Action**

Take action appropriate to the error message output before this message. When HiRDB is stopped, use the `ipcrm` command to delete the relevant message queue.

**KFPS00849-W E**

Specified *aa....aa* is too large for `max users`, assumed limit *bbb*, `server:cc....cc`

The number of processes specified in the `pdchprc` command is greater than the maximum number of startup server processes defined for the HiRDB.

The system resumes processing assuming the maximum number of startup server processes specified in the HiRDB definition.

*aa...aa*: Item whose value is to be modified:

`max_process_count`: Maximum number of startup processes

`resident_process_count`: Number of resident processes

*bbb*: Maximum number of startup server processes specified in the HiRDB definition

*cc....cc*: Server name

S: Resumes processing.

O: If there are too many processes, enter the `pdchprc` command to reduce their number.

**KFPS00850-E E+L**

Unable to perform scheduling for server *bb...bb* due to an error in system call *aa....aa*. `errno=cc....cc`

The indicated server cannot be scheduled, because system call *aa....aa* resulted in an error.

*aa....aa*: Name of the system call resulting in the error

*bb...bb*: Name of the server on which the error occurred

If the unit is applicable to the standby-less system switchover (effects distributed) facility, `*****` may be output instead of the server name.

*cc....cc*: System call return code

S: Terminates the scheduling on the indicated server; continues other scheduling operations. However, if the server name is `*****`, startup of the unit is terminated.

Action

In UNIX:

Based on the return information, determine and correct the cause of the error. If the cause cannot be determined, contact a customer engineer.

- If an error occurs in the `MSGGET` system call, the value of the operating system parameter (kernel parameter) `msgmni` (message queue identifier count) in the operating system may be too small. Estimate the amount required for all programs to run on the server machines when `msgmni` is invoked. Reboot the applicable server machines after changing the specified value.

- If an error occurs in the MSGSND or MSGRCV system calls, the value of the operating system parameters (kernel parameters) `msgmni` or `msgtql` in the operating system may be too small. Estimate the amount required for all programs to run on the server machines. Reboot the applicable server machines after changing the specified value. Also, the message queue HiRDB uses may have been improperly deleted by the `ipcrm` or other command. If the message queue was deleted, forcibly terminate HiRDB if it does not abnormally terminate. Then, reboot the applicable server machines.

In Windows:

Estimate the number of message queue identifiers required by HiRDB, and specify a value at least that large in the `PDUXPLMSGMNI` and `PDUXPLMSGTQL` system environment variables. Then, terminate HiRDB and restart all services. For details on how to estimate the number of needed message queue identifiers, see the *HiRDB Version 8 Installation and Design Guide*.

#### **KFPS00851-E E**

Unable to delete message queue due to an error occurred in MSGCTL system call. `errno=aa....aa`, `queue ID=bb....bb`

In UNIX:

The message queue cannot be deleted, because the MSGCTL system call resulted in an error.

In Windows:

The message queue cannot be deleted, because an error occurred.

`aa....aa`: Return code of the system call

`bb....bb`: ID of the message queue resulting in the error

S: Resumes processing.

O: To delete message queues in UNIX, use the `ipcrm` command to delete the appropriate message queues.

In the case of Windows, restart the HiRDB service. If the error recurs even after a restart or if the cause cannot be determined, contact a customer engineer.

Action

In UNIX, refer to the OS manual to determine the cause on the basis of the return code of the system call, and take action. If the cause of the error cannot be identified or the message is reissued, contact a customer engineer.

#### **KFPS00852-E E**

Unable to delete message queue due to queue information acquisition failed. `reason code=aa....aa`

The message queue cannot be deleted, because acquisition of queue information failed.

*aa....aa*: Reason code

S: Cancels message queue deletion processing.

#### Action

If an error message has been output before this message, take action appropriate to that message. The following table lists the reason codes and the actions to be taken:

Reason code	Explanation	Action
1	Memory shortage	Terminate any unneeded processes and restart.
2	Queue information file access error	If an error message has been output before this message, take action appropriate to that message and restart. Also, check for any unauthorized access to a file under %PDDIR%\spool.
3	Incompatible program versions	Check the versions of HiRDB commands, libraries, etc., take appropriate action, then restart.
4	Invalid environment variable	Set the correct environment variable and restart.

#### **KFPS00854-W E+L**

Insufficient memory in message buffer pool. server=*aa....aa*

A message from a client cannot be stored, because a memory shortage occurred in the message storage buffer pool in the indicated server.

*aa....aa*: Name of the server resulting in memory shortage

S: Resumes processing.

#### Action

If an error message was output before this message, take the action indicated in the message. If an error has occurred at the server, take appropriate action and re-execute. If the same error recurs, contact a customer engineer.

#### **KFPS00855-W E+L**

Insufficient memory. required area size=*aa....aa* bytes, area type=*bb....bb*

A memory shortage occurred.

*aa....aa*: Size of the area that was to be allocated

*bb....bb*: Type of area resulting in memory shortage:

DYNAMIC SHMPOOL: Dynamic shared memory area

PROCESS: Process private area

STATIC SHMPOOL: Static shared memory area

S: Resumes processing.

Action

If an error message was output before this message, take the action indicated in the message. If the type of the area where a memory shortage occurred is a process private area, take the following action and then re-execute.

- Reduce the number of resident HiRDB server processes.
- Stop unnecessary processes.
- Extend the virtual memory.

If the same error recurs, contact a customer engineer.

**KFPS00856-E E+L**

Scheduler library and scheduler daemon have different version

The version of the scheduler library does not match the version of the scheduler daemon.

S: Terminates processing.

Action

Contact a customer engineer.

**KFPS00857-E E+L**

Mismatched version found during scheduler processing, version type=*aa....aa*

A version mismatch was detected during scheduler processing.

*aa....aa*: Type of version resulting in mismatch:

COMMAND: Command version

HOLD: Shutdown file version

NAMDATA: Name server registration version

QUEUE: Queue information file version

REQUEST: Service request header version

STATUS: Status file version

TABLE: Table version

S: Terminates processing.

Action

Check the current HiRDB environment, take appropriate action, and restart HiRDB.

**KFPS00860-W L**

`pd_service_port` ignored, reason code=*aaaa*(*bbbb*), cannot use `PDSERVICEPORT` for HiRDB/client.

HiRDB ignored the specification of the `pd_service_port` operand for the reason indicated in *aaaa*(*bbbb*), and continued processing. A HiRDB client cannot use the high-speed connection feature. An attempt to use a high-speed connection to the HiRDB where this message was output fails because the HiRDB server is not active.

*aaaa*: Reason code

*bbbb*: Maintenance information for the displayed reason code:

- Reason code 1:
  - 0
- Reason code 2 or 3:
  - 208: HiRDB-provided load module is invalid

S: Resumes processing.

O: Take action appropriate to the reason code:

Reason code	Explanation	Action
1	The value of the <code>pd_service_port</code> operand is the same as the value of the <code>pd_name_port</code> operand.	The port number specified in the <code>pd_service_port</code> operand in the system common definition or unit control information definition is the same as the port number specified in the <code>pd_name_port</code> operand. Change a definition so that these values are not duplicated, then re-execute HiRDB.
2 or 3	Definition analysis is invalid.	<ul style="list-style-type: none"> <li>• Maintenance information: -208 HiRDB may not have been installed correctly, or the HiRDB-provided load module may be invalid. Reinstall and set up HiRDB, then re-execute.</li> <li>• Maintenance information: Other than -208 Contact the administrator.</li> </ul>

Action

If none of the reasons provided under "O" applies, contact a customer engineer.

**KFPS00880-I S**

Usage: `pdls -d scd [-s server name]`



The format of an option is invalid in the `pdls -d scd` command.

S: Terminates processing.

Action

Reenter correctly the specified command.

**KFPS00888-W L**

Server *aa...aa* exceeded `pd_queue_watch_time` value. value=*bb...bb*

No message can be acquired from the message queue even if the message queue monitoring time (`pd_queue_watch_time` operand value) of the message queue monitoring facility is exceeded. The problem occurred on server *aa...aa*. For details about the message queue monitoring facility, see the *HiRDB Version 8 System Operation Guide*.

Possible causes of the message queue monitoring time being exceeded:

- The CPU load reduced the processing capacity
- I/O is delayed by an I/O error
- The number of processes available is less than that required for fetching messages from the message queue because the number of HiRDB server processes is less than appropriate for multiple executing UAPs and utilities

The number of HiRDB server processes is restricted by the following operands:

- `pd_max_server_process`

If there are several servers running within a unit, perform a detailed estimate of the value specified for this operand. Also, if the standby-less system switchover facility is being used, the estimate must include the case of a system switchover.

- `pd_max_bes_process`

If multiple front-end servers are being used or if the standby-less system switchover (1:1) facility is being used, perform a detailed estimate of the value specified for this operand.

- `pd_max_dic_process`

If multiple front-end servers are being used, perform a detailed estimate of the value specified for this operand.

- `pd_ha_max_server_process`

If the standby-less system switchover (effects distributed) facility is being used, perform a detailed estimate of the value specified for this operand.

- `pd_max_users`

If there are numerous concurrent connections, an appropriate value must be

selected.

*aa....aa*: Server name

*bb....bb*: Value of the `pd_queue_watch_time` operand

S: Continues processing.

#### Action

For details on causes of and actions for server processes not responding, and messages remaining in the message queue, see the *HiRDB Version 8 System Operation Guide*.

If you are unable to determine the cause of the problem, contact a customer engineer.

#### **KFPS00889-E L**

Server *aa....aa* exceeded `pd_queue_watch_time` value, Unit terminated.

No message can be acquired from the message queue even if the message queue monitoring time (`pd_queue_watch_time` operand value) of the message queue monitoring facility is exceeded. The problem occurred on server *aa....aa*.

The unit is terminated because `stop` was specified in the `pd_queue_watch_timeover_action` operand. For details about the message queue monitoring facility, see the *HiRDB Version 8 System Operation Guide*.

Possible causes of the message queue monitoring time being exceeded:

- The CPU load reduced the processing capacity
- I/O is delayed by an I/O error
- The number of processes available is less than that required for fetching messages from the message queue because the number of HiRDB server processes is less than appropriate for multiple executing UAPs and utilities.

The number of HiRDB server processes is restricted by the following operands:

- `pd_max_server_process`  
If there are several servers running within a unit, perform a detailed estimate of the value specified for this operand. Also, if the standby-less system switchover facility is being used, the estimate must include the case of a system switchover.
- `pd_max_bes_process`  
If multiple front-end servers are being used, or if the standby-less system switchover (1:1) facility is being used, perform a detailed estimate of the value specified for this operand.
- `pd_max_dic_process`

If multiple front-end servers are being used, perform a detailed estimate of the value specified for this operand.

- `pd_ha_max_server_process`

If the standby-less system switchover (effects distributed) facility is being used, perform a detailed estimate of the value specified for this operand.

- `pd_max_users`

If there are numerous concurrent connections, an appropriate value must be selected.

*aa....aa*: Server name

S: Abnormally terminates HiRDB.

Action

For details on causes of and actions for server processes not responding, and messages remaining in the message queue, see the *HiRDB Version 8 System Operation Guide*.

If you are unable to determine the cause of the problem, contact a customer engineer.

#### **KFPS00890-E E**

Error occurred during scheduler command processing. reason code=*aa....aa*, command=*bb....bb*

An error occurred during scheduler command processing.

*aa....aa*: Reason code indicating the nature of the error

*bb....bb*: Command name

S: Cancels command processing.

O: Take action appropriate to the reason code, as listed below, and reenter the command:

Reason code	Explanation	Action
31	Memory shortage	Determine the number of active processes, and reduce the amount of memory used. Also, if an error message was output before this message, take the action indicated in that message. After taking action, re-execute the command.
33	Definition analysis error	If an error message has been output before this message, take action appropriate to that message and reenter the command.

**KFPS00891-E E**

Invalid use of command *aa...aa*

The usage of command *aa...aa* is invalid.

*aa...aa*: Command name

S: Terminates processing.

Action

Reenter the command with the correct usage.

**KFPS00892-E E**

Scheduler inoperable; unable to execute *aa...aa* command

The scheduler is inactive. Or, the indicated command cannot be executed because the system is engaged in termination processing.

*aa...aa*: Command name

S: Cancels command processing.

O: Reenter the command after system startup is completed.

**KFPS00894-E E**

Scheduler *aa...aa* command and scheduler daemon have different version

The version of scheduler command *aa...aa* does not match the version of the daemon program.

*aa...aa*: Command name

S: Cancels processing.

Action

Check the commands available to the HiRDB that is being used, take appropriate action, then reenter the command. If the same error recurs, contact a customer engineer.

**KFPS00900-I L**

Communication protocol error occurred. status code=*aaaaaa*, request code=*bbbb*, branch number=*cccc*, server=*dddddd*

A communication protocol error occurred during transaction processing.

*aaaaaa*: HiRDB internal code (status code)

*bbbbbb*: HiRDB internal code (request code)

*cccccc*: HiRDB internal code (branch number)

*dddddd*: Server name

**Action**

Take one of the following actions:

- Tune the RPC and socket-related communication parameters by referring to the manual for the OS being used, a TCP/IP network guide, and the *HiRDB Version 8 System Definition* manual.
- Increase the concurrency level of the corresponding server.
- Check the network workload of the server machine where the corresponding server is located.

**KFPS00955-E E+L**

Unable to start transaction service. reason code=*aaaa*

An error indicated by the reason code occurred while starting or restarting the transaction service function; the transaction service function cannot be started.

*aaaa*: Reason code

S: Terminates HiRDB abnormally.

**Action**

Take an action appropriate to the reason code, as listed below, and restart HiRDB:

<b>Reason code</b>	<b>Explanation</b>	<b>Action</b>
0001	Memory shortage occurred in the process.	Reduce the number of processes and restart HiRDB. If this message is reissued, contact a customer engineer.
0002	Read error occurred in the transaction manager management file.	Contact a customer engineer.
0100	Shared memory shortage occurred	Contact a customer engineer.
0200	Definition analysis startup processing resulted in an error.	If an error message has been output before this message, take action appropriate to that message.
0201	Analysis of the system common definition or unit control information failed.	Check the system common definition or unit control information and restart HiRDB. If the definition is correct, contact a customer engineer.

## 2. Messages

Reason code	Explanation	Action
0300	Communication error occurred.	If an error message has been output before this message, take action appropriate to that message.
0600	Registration of service information in the name service function failed.	
1100	Error occurred while starting the statistics log service function.	
1800	Activation of recovery process failed.	
1801	Error occurred while reporting server completion to the system manager.	

### KFPS00956-E E+L

Error occurred while terminating transaction service; continues processing. reason code = *aaaa*

An error occurred while terminating the transaction service function.

*aaaa*: Reason code

S: Resumes processing.

Action

Check the reason code to determine why the transaction service function cannot be terminated normally, then take appropriate action, as listed below:

Reason code	Explanation	Action
0001	Memory shortage occurred in the process.	Reduce the number of processes and restart HiRDB. If this message is reissued, contact a customer engineer.
0300	Communication error occurred.	If an error message has been output before this message, take action appropriate to that message.
0601	Deletion of service information by the name service function failed.	
1101	Error occurred while terminating the statistics log service function.	
1802	Termination of recovery process failed.	

### KFPS00957-E E+L

Unable to change definition at transaction service restart

During restart or during start of a log application site, the value specified for the *pd\_max\_users*, *pd\_max\_bes\_process*, or *pd\_max\_dic\_process* operand has

changed since the previous normal startup.

S: Resumes processing.

Action

- Transaction execution site, or if Real Time SAN Replication with the log-only synchronous method is not used

Start the HiRDB system by restoring the system definition that should not be changed. After that, terminate the HiRDB system normally and change the system definition.

- Log application site

Make the operand value the same as that of the application site, perform system log optimizations, and then restart.

**KFPS00958-I E+L**

Unit terminating; stops receiving new transactions

No new transactions will be accepted because unit termination has been requested. The transaction service function is starting preparations for termination processing.

**KFPS00961-E E+L**

Unable to start transaction recovery service. reason code = *aaaa*

An error indicated by the reason code occurred while starting the transaction recovery service function; the transaction recovery service function cannot be started.

*aaaa*: Reason code

S: Terminates HiRDB abnormally.

Action

Take action appropriate to the reason code, as listed below, and restart HiRDB:

Reason code	Explanation	Action
0200	Definition analysis startup processing resulted in an error.	If an error message has been output before this message, take action appropriate to that message.
0300	Communication error occurred	
0800	Registration of recovery process in the schedule service function failed.	
1801	Error occurred while reporting completion of the service function to the system manager.	

**KFPS00962-E E+L**

Error occurred while terminating transaction recovery service; continues processing. reason code=*aaaa*

An error occurred while terminating the transaction recovery service function.

*aaaa*: Reason code

S: Resumes processing.

Action

Check the reason code to determine why the transaction service function cannot be terminated normally, then take appropriate action, as listed below:

Reason code	Explanation	Action
0300	Communication error occurred.	If an error message has been output before this message, take action appropriate to that message.

**KFPS00965-E E+L**

Insufficient memory. required memory size=*aa...aa* bytes, area type=*bb...bb*

A memory shortage occurred.

*aa...aa*: Size of the area that was to be allocated

*bb...bb*: Type of area resulting in memory shortage:

DYNAMIC SHMPOOL: Dynamic shared memory area

PROCESS: Process private area

STATIC SHMPOOL: Static shared memory area

S: Cancels processing.

Action

If the memory shortage occurred in the process private area, re-evaluate the number of processes, take appropriate action, then re-execute.

If the same error recurs, contact a customer engineer.

**KFPS00969-E L**

Error occurred during *aa...aa* processing, reason code=*bbbb*, TRNGID=*ccccccddddd*, TRNBID=*ccccccceeeee*, server=*ff...ff*, PID=*gg...gg*

An error occurred during transaction completion processing.

TRNGID: Global identifier of the transaction



TRNBID: Branch identifier of the transaction  
*aa....aa*: Transaction completion processing  
 prepare: One-phase commit processing  
 commit: Two-phase commit processing  
 rollback: Rollback processing  
*bbbb*: Reason code  
*ccccccc*: HiRDB system identifier and unit identifier  
*ddddddd*: Global transaction number  
*eeeeeee*: Transaction branch number  
*ff...ff*: Server name  
*gg...gg*: Process ID of the HiRDB server  
 S: Terminates the process.  
 Action: Take action based on the reason code.

Transaction completion processing	Reason code	Explanation	Action
commit	0001	During transaction commit processing, synchronization with the transaction on another server failed.	For whatever reason, a server other than the one where the message was output (excluding recovery-unnecessary front-end servers) could not continue processing the transaction. Check the status of the network, system, and server.

**KFPS00970-E E**

Unable to execute *aa....aa* command of transaction, reason code=*bbbb*  
 A transaction command *aa....aa* cannot be executed.  
*aa....aa*: Command name  
*bbbb*: Reason code  
 S: Cancels processing.  
 Action  
 Take action appropriate to the reason code, as listed below:

## 2. Messages

Reason code	Explanation	Action
0001	Memory shortage occurred on process	Reduce the number of processes and restart HiRDB. If this error recurs, contact a customer engineer.
0003	The number of characters in a flag argument is outside the permitted range.	Check the flag argument, correct the error, then reenter the command.
0004	Character string in a flag argument contains an invalid character.	
0005	A decimal character string in a flag argument is outside the permitted range.	
0008	There is no information to be displayed. The transaction cannot be concluded.	<p>(1) The possible causes are given below. If necessary, change the status of the unit or server, and re-execute the command.</p> <ul style="list-style-type: none"> <li>• The applicable transaction cannot be found.</li> <li>• The transaction service cannot be used.</li> <li>• The transaction status does not allow the transaction to be concluded.</li> <li>• There is no server running.</li> <li>• Because this is a log application site, the transaction cannot be displayed or resolved.</li> </ul> <p>(2) Because the transaction was executed on a recovery-unnecessary front-end server, the transaction cannot be completed. Refer to the section on methods for finishing incomplete transactions in the manual <i>HiRDB Version 8 System Operations Guide</i>, and make sure the transaction finishes automatically.</p>
0009	Option flag or flag argument is invalid.	Check the option flag or flag argument, correct the error, then reenter the command.
0010	System call error occurred because of a temporary memory shortage.	Wait a while, then reenter the command.
0200	Definition analysis startup processing resulted in an error.	If an error message has been output before this message, take action appropriate to that message.
0300	Communication error occurred.	<p>Reasons are:</p> <ul style="list-style-type: none"> <li>• The communication error was caused by the error that was reported before this message; take action appropriate to the error message.</li> <li>• The communication error was caused by a temporary memory shortage; reduce the number of processes and reenter the command.</li> </ul>
0301	Timeout occurred.	

Reason code	Explanation	Action
0602	Versions do not match.	Check the version of each library in the HiRDB system, take appropriate action, then reenter the command.
0700	An error occurred during file access.	If an error message was output before this message, take the action indicated in the message.
0701	An error occurred during transaction commit processing.	
0702	An error occurred during transaction rollback processing.	
0703	An error occurred during transaction forcible termination processing.	
0704	An error occurred during transaction status information acquisition.	
0705	The unit that contains the system manager is not running.	Start the unit with the system manager, then execute the command.
0706	The command was entered from a server machine that does not contain the system manager.	Execute the command from the server machine that contains the system manager.
0707	An environment information acquisition error occurred.	If an error message was output, follow the action indicated in the message. Eliminate the error, and then restart HiRDB.

**KFPS00971-I L+S**

Command accepted; (*aa....aa*)

The *aa....aa* command has been accepted.

*aa....aa*: Character string of entered command

S: Resumes processing.

**KFPS00972-I L**

Error occurred during commit processing; reason code=*aaaa*,  
TRNGID=*bb....bb* PROGRAM=*cc....cc*

An error occurred during commit processing.

*aaaa*: Reason code

*bb....bb*: Global transaction identifier

*cc....cc*: UAP identification information

S: Resumes processing.

## Action

Take action appropriate to the reason code:

Reason code	Explanation	Action
0001	Transaction was concluded by rollback processing because a timeout occurred while the system was waiting to receive communication from a child branch for the commit request.	Check the status of the network, system, and server. Or, check the maximum response wait time that has been set.

**KFPS00973-I L**

Transaction branch completed. TRNGID=aaaaaaaaabbbbbbb, TRNBID=aaaaaaaaaccccccc, server=dd...dd, service=ee...ee, completion type=ff

Because an error occurred in a transaction branch, a rollback was completed.

TRNGID: Transaction global identifier

TRNBID: Transaction branch identifier

aaaaaaaa: HiRDB system identifier and unit identifier

bbbbbbbb: Global transaction number

ccccccc: Transaction branch number

dd...dd: Server name

ee...ee: HiRDB system internal code

ff: Transaction completion type

r: Rollback

hr: Heuristic rollback

S: Continues processing.

**KFPS00974-I E+S**

Usage: pdfgt {-A [-x host\_name |-u unit\_id] [-s server\_name] |-t TRNGID [-x host\_name |-u unit\_id] [-s server\_name]}

Displays the format of the pdfgt command (to forcibly terminate transaction). This message is displayed in the following cases:

- The format of a specified option or argument of the command is invalid.
- -h was specified as a command option.

S: Terminates processing.

O: If the command specification is invalid, reenter the command specified correctly.

**KFPS00975-I E+S**

Usage: `pdls -d trn {[-t TRNGID] [-{a |c}] |-bc |-B system_node_ID  
[-{ a |c }] |-rc |-R RM_name [-{ a |c }] [-s server_name]}`

Displays the format of the `pdls` command that displays transaction status.

This message is displayed in the following cases:

- `-h` was specified as a command option.
- The format of a command option or argument is invalid.

S: If the command specification is invalid, cancels command processing.

O: If the command specification is invalid, reenter the command specified correctly.

**KFPS00976-I E+S**

Usage: `pdcm {-A [-x host_name |-u unit_id] [-s server_name]  
|-t TRNGID [-x host_name |-u unit_id] [-s server_name]}`

Displays the format of the `pdcm` command that commits a transaction. This message is displayed in the following cases:

- The format of a command option or argument is invalid.
- `-h` was specified as a command option.

S: If the command specification is invalid, cancels command processing.

O: If the command specification is invalid, reenter the command specified correctly.

**KFPS00977-I E+S**

Usage: `pdrbk {-A [-x host_name |-u unit_id] [-s server_name]  
|-t TRNGID [-x host_name |-u unit_id] [-s server_name]}`

Displays the format of the `pdrbk` command that rolls back a transaction. This message is displayed in the following cases:

- The format of a command option or argument is invalid.
- `-h` was specified as a command option.

S: If the command specification is invalid, cancels command processing.

O: If the command specification is invalid, reenter the command specified correctly.

**KFPS00978-E E**

Command *aa....aa* used invalidly

The usage of command *aa....aa* is invalid.

*aa....aa*: Command name

S: Cancels command processing.

O: Reenter the command with the correct usage.

**KFPS00979-E E**

Transaction service inoperable; unable to execute *aa...aa* command

Because the transaction service function has not been started or is engaged in termination processing, command *aa...aa* cannot be executed.

*aa...aa*: Command name

S: Cancels command processing.

O: Reenter the command after the system has been started.

**KFPS00980-W E+L**

Unable to monitor elapsed time for transaction branch.

TRNGID=*aaaaaaaaabbbbbbb*, TRNBID=*aaaaaaaaaccccccc*, server=*dd...dd*, service=*ee...ee*

Transaction branch elapsed time cannot be monitored.

TRNGID: Transaction's global identifier

TRNBID: Transaction's branch identifier

*aaaaaaaa*: HiRDB system identifier and unit identifier

*bbbbbbbb*: Global transaction number

*ccccccc*: Transaction branch number

*dd...dd*: Server name

*ee...ee*: HiRDB's internal code

S: Resumes processing.

Action

If there is no need to monitor the elapsed time, ignore this message. Otherwise, terminate HiRDB, refer to the timer service function message that was displayed before this message to eliminate the cause of the error, then restart HiRDB.

**KFPS00981-I E+S**

Usage: `pdtrndec -i input_file_name[,input_file_name...] [-r rollback_script_file_name] [-o output_directory_name]`

This shows the method for using the `pdtrndec` command (the command to forcibly complete uncompleted transactions). This message is output in the following cases:

- If the method of specifying the `pdtrndec` command options or arguments was incorrect
- If the `pdtrndec` command was specified with the `-h` option

S: If the command specification method was incorrect, terminates the command processing.

**Action**

If the command specification method was incorrect, re-execute the command using a correct specification method.

**KFPS00982-E E**

System call error, func=*aa....aa*, errno=*bb...bb*, path name=*cc....cc*

Error *aa....aa* occurred in file or directory *cc....cc*.

*aa....aa*: Name of the system call where the error occurred

open: File or directory open

close: File or directory close

read: File or directory read

write: File or directory write

fseek: File pointer or directory setting

*bb...bb*: errno of the system call where the error occurred

*cc....cc*: Absolute path name of the file or directory where the error occurred

If the path name exceeds 163 bytes, the path name is displayed preceded by "...", and the last 161 bytes are displayed.

S: Terminates processing.

**Action**

See *error.h* and the OS manual, and eliminate the cause of the error.

**KFPS00983-I L**

Current transaction cancel occurred, server = *aa....aa*, transaction count = *bb...bb*

The current transaction was forcibly terminated.

*aa....aa*: Server name

*bb...bb*: The number of forcibly terminated transactions

S: Continues processing.

**Action**

If an error message is output before this message, see that message to eliminate the error.

**KFPS00985-I E+L**

Undetermined transaction information stored in *aa....aa*

Information about unsettled transactions was collected in *aa....aa*.





*ccccccc*: Transaction branch number

*dd....dd*: Process ID at the server processing the transaction as part of UAP or utility processing

*ee....ee*: Process ID of the client (a UAP or a utility) that was connected to a server process. This information is valid only for a server process that was connected to a client. The information is also valid if the client library linked to a UAP is HiRDB Version 4.0 04-00 or later.

*ff...ff*: IP address of the client (a UAP or a utility) that was connected to a server process. This information is valid only for a server process that was connected to a client. The information is also valid if the client library linked to a UAP is HiRDB Version 4.0 04-00 or later.

*gghhii*: Time (hour, minute, second) the service request was accepted; in the case of a server process not connected to a client, 999999 is displayed.

*jj...jj*: UAP identification information (UAP name specified in PDCLTAPNAME in the client environment definition):

- PDCLTAPNAME not set:

Unknown is displayed.

- Utility:

The name of the utility is displayed.

However, if the utility was running on a utility server process or if there was an error, such that the UAP identifier information could be not obtained, spaces may be displayed.

*kkkk*: Identifier of connected OLTP (HiRDB\_PDTMID, PDTMID) (this information is output if a client (UAP) connected to the HiRDB server process is an application complying with X/Open; if no OLTP identifier has been specified, \*\*\*\* is displayed)

*llllllllllll,mmmmmmmmmmmmmmmmmm*:

Transaction identifier assigned by OLTP (applicable only when the client (UAP) connected to the server process is an X/Open-compliant application and the OLTP is OpenTP1 or TPBroker)

*nnnn*: Environment variable group identifier assigned by OLTP

This is output when the client (UAP) connected to the HiRDB server process is an X/Open-compliant application and it uses the multi-connection facility; if the multi-connection facility is not used, \*\*\*\* is displayed.

S: Resumes processing.

O: Follow the HiRDB administrator's instructions.

Action

Transaction-related error occurred:

This message is used to investigate the cause of the error indicated by one of the following error messages, which was output before this message:

- KFPS00972-I
- KFPS00973-I
- KFPS00990-I
- KFPS00991-I
- KFPS00992-E
- KFPS00993-I

Transaction still executing while planned termination is underway:

This message is used to check for transactions that have not been completed.

**KFPS00990-I E+L**

Transaction branch recovery complete. TRNGID=*aaaaaaaaabbbbbbb*, TRNBID=*aaaaaaaaaccccccc*, server=*dd....dd*, service=*ee....ee*, completion type=*f,gg*

Recovery of a transaction branch has been completed.

TRNGID: Transaction's global identifier

TRNBID: Transaction's branch identifier

*aaaaaaaa*: HiRDB system identifier and unit identifier

*bbbbbb*: Global transaction number

*cccccc*: Transaction branch number

*dd....dd*: Server name

*ee....ee*: HiRDB's internal code

*f*: Completion type of the corresponding transaction branch:

c: Commit

r: Rollback

*gg*: Completion type of the corresponding global transaction:

c: Commit

hc: Heuristic commit

hh: Heuristic hazard

hm: Heuristic mix  
 hr: Heuristic rollback  
 r: Rollback

S: Resumes processing.

**KFPS00991-I E+L**

Unable to recover from transaction branch.  
 TRNGID=aaaaaaaaabbbbbbb, TRNBID=aaaaaaaaaccccccc, server=dd...dd,  
 service=ee...ee, determination type=ff

Transaction branch recovery will be re-executed because recovery could not be completed.

TRNGID: Transaction's global identifier

TRNBID: Transaction's branch identifier

aaaaaaaa: HiRDB system identifier and unit identifier

bbbbbbbb: Global transaction number

ccccccc: Transaction branch number

dd...dd: Server name

ee...ee: HiRDB internal code

ff: Settlement type:

c: Commit

hc: Heuristic commit

hh: Heuristic hazard

hm: Heuristic mix

hr: Heuristic rollback

r: Rollback

S: Resumes processing.

Action

If an error message has been output before this message, correct the error.

**KFPS00992-E E+L**

Unable to determine commit or rollback for transaction branch.  
 TRNGID=aaaaaaaaabbbbbbb, TRNID=aaaaaaaaaccccccc, server=dd...dd,  
 service=ee...ee

A transaction branch cannot be committed or rolled back by the system due to a communication error, etc.

TRNGID: Transaction's global identifier

TRNBID: Transaction's branch identifier

*aaaaaaaa*: HiRDB system identifier and unit identifier

*bbbbbbbb*: Global transaction number

*ccccccc*: Transaction branch number

*dd...dd*: Server name

*ee...ee*: HiRDB internal code

S: Retains the transaction branch status and resumes processing.

Action

Prepare for transaction commit with the `pdcm` or `pdrbk` command in case the error cannot be recovered. Or, if OpenTP1 or TPBroker is inactive, start it.

If the `pdcm` or `pdrbk` command is used to commit the transaction, use the same commit type as the other transaction branches with the same TRNGID.

For other transaction branches, use the same commit type as the transaction branch with the same TRNGID displayed in the KFPS00990-I message that is output after recovery processing has been completed. If there is no KFPS00990-I message containing the same TRNGID and no other transaction branch is found by `pdls -d trn`, use the `pdrbk` command to conclude the transaction.

**KFPS00993-I L**

Accepted process abnormal end request. PID=*aa...aa*, TRNGID=*bb...bb*, TRNBID=*cc...cc*, REQUEST=*dd...dd*

A request for forced termination of the server process was received for one of the following reasons:

- A related server process stopped.
- A related unit terminated abnormally.
- A cause that must abort the transaction occurred.

*aa...aa*: Process ID subject to forced termination

*bb...bb*: Transaction identifier (transaction's global identifier)

*cc...cc*: Transaction identifier (transaction's branch identifier)

*dd...dd*: Request type:

`abnormal_unit_branch`:

Request for forced termination of the abnormal unit-related branch

`clt_attention`:

Request for forced termination accompanied by an interrupt at the client (this applies as well if **Ctrl+C** is pressed at the keyboard during execution of the client UAP)

`force_end:`

Request for forced termination based on a recovery instruction from OLTP (OLTP is applicable only to OpenTP1; for example, if OpenTP1 is abnormally terminated and then restarted)

`pdcancel_end:`

Request for forced termination by `pdcancel`

`PDCWAITTIME_over:`

Request for forced termination due to the end of client's `PDCWAITTIME`

`subordinate_branch:`

Request for forced termination of a subbranch (for example, this applies if the subbranches related to a transaction are forcibly terminated due to another error)

`superior_branch:`

Request for forced termination of a master branch (for example, this applies if the master branch of a transaction is forcibly terminated due to an abnormality in one of the subbranches)

`abnormal_tran_end:`

Forced termination request from the skip count monitoring facility for enabling a synchronization point dump

`log_remain_check`

Request for forced termination from the facility for monitoring free area for the system log file

`abnormal_svr_branch:`

Request to forcibly terminate a branch related to an abnormal server

S: Terminates abnormally by terminating the indicated server process.

P: Contact the HiRDB administrator. After taking action, re-execute the process.

#### Action

Take a corrective action according to the message output by the related server process, the related unit, or the transaction.

- If the request type is `abnormal_tran_end`:

If, in the KFPS00988-I message that is output following this message, the UAP identification information is `hdssqle [aa....aa] bb` (*aa....aa*: *reflection-group-name*, *bb*: *extraction-source-HiRDB Datareplicator-identifier*), see the description of the skipped effective synchronization point dump monitoring facility in the *HiRDB Version 8 System Operation Guide*.

**KFPS01001-I L+S**

`aa....aa` assigned as current logical status file. server kind:*bb*  
server:*cc....cc*

The status file *aa....aa* was allocated as the current file.

*aa....aa*: Name of the current status file

*bb*: Server type:

00: Unit

01: Server

*cc....cc*: Name of the server used to allocate the file (if the server type is 00, the unit name is displayed; if it is 01, the server name is displayed)

S: Resumes processing.

Action

If HiRDB is started when there is a status file in which an error occurred, the information displayed in the message is required for the specification of the following operands:

- The unit control information definition `pd_syssts_last_active_file` operand (if this message is output by a log application site, the `pd_syssts_last_active_subfile` operand)
- The server definition `pd_sts_last_active_file` operand (if this message is output by a log application site, the `pd_sts_last_active_subfile` operand)

**KFPS01005-E E+L**

Unable to status service due to *aa....aa*.

The status service function cannot be started.

*aa....aa*: Reason code indicating the nature of the error

S: Terminates HiRDB abnormally.

Action

Take action appropriate to the reason code, as listed below, and restart HiRDB:

Reason code	Explanation	Action
0000000001	Error in the definition environment of status service function	Take action as indicated in the message output before this message. Eliminate the cause of the error, and then restart HiRDB.
0000000003	Error in the definition of status service function	Revise the unit control information definition or server definition, and then restart HiRDB.
0000000004	All status files specified in the unit control information definition or server definition are in hold status.	Take action as indicated in the message output before this message. Eliminate the cause of the error, and then restart HiRDB.
0000000005 0000000006	Memory shortage	Take action as indicated in the message output before this message. Determine the cause of and take measures against memory shortage. Revise the operating system parameters (maximum number of processes, maximum memory allocation per process, etc.), and then restart HiRDB.
0000000007 0000000008	Status file error	Take action as indicated in the message output before this message. Eliminate the cause of the error, and then restart HiRDB.
0000000009	Swapping error	
0000000010	An error occurred in the status file. Because <code>stop</code> was specified in the <code>pd_syssts_initial_error</code> operand or the <code>pd_sts_initial_error</code> operand, HiRDB start processing was terminated.	Take action as indicated in the message output before this message. Eliminate the cause of the error and restart HiRDB. If HiRDB terminates with this error code again after restarting, consider that during HiRDB startup there may be a status file in which an error occurred. For the procedure on starting HiRDB with a status file in which an error occurred, see the <i>HiRDB Version 8 System Operation Guide</i> .
0000000011 0000000012 0000000013 0000000014	Internal processing error	If an error message was output before this message, take action as indicated in that message. If no error message was output before this message, contact a customer engineer.

2. Messages

Reason code	Explanation	Action
000000015	<p>The current file name indicated by HiRDB does not match the file name indicated in the <code>pd_syssts_last_active_file</code> operand or the <code>pd_sts_last_active_file</code> operand (if this message was output by a log application site, the <code>pd_syssts_last_active_subfile</code> or the <code>pd_sts_last_active_subfile</code> operand).</p>	<p>See the section on the procedure for starting HiRDB with a status file for which an error occurred in the <i>HiRDB Version 8 System Operation Guide</i>.</p> <p>Determine whether the file name of the previous operation is specified in the <code>pd_syssts_last_active_file</code> operand or the <code>pd_sts_last_active_file</code> operand (if this message was output by a log application site, the <code>pd_syssts_last_active_subfile</code> or the <code>pd_sts_last_active_subfile</code> operand). If the file name of the previous operation is not specified, specify the file name of the previous operation in the <code>pd_syssts_last_active_file</code> operand or the <code>pd_sts_last_active_file</code> operand (if this message was output by a log application site, the <code>pd_syssts_last_active_subfile</code> or the <code>pd_sts_last_active_subfile</code> operand), and start HiRDB. If this reason code is output even though the current file name used during the previous session was specified, an error occurred in the current file name used during the previous session. Follow the procedure when HiRDB (unit) cannot be restarted because an error occurred in the current file on both systems in the <i>HiRDB Version 8 System Operation Guide</i>, and then start HiRDB.</p>



Reason code	Explanation	Action
0000000016	<p>If the <code>pd_syssts_last_active_file</code> operand or the <code>pd_sts_last_active_file</code> operand (if this message was output by a log application site, the <code>pd_syssts_last_active_subfile</code> or the <code>pd_sts_last_active_subfile</code> operand) was not specified, the file name of the previous operation could not be indicated, and HiRDB startup processing was interrupted. If the <code>pd_syssts_last_active_file</code> operand or the <code>pd_sts_last_active_file</code> operand (if this message was output by a log application site, the <code>pd_syssts_last_active_subfile</code> or the <code>pd_sts_last_active_subfile</code> operand) was specified, there is no spare file, and HiRDB startup processing was interrupted.</p>	<p>If the <code>pd_syssts_last_active_file</code> operand or the <code>pd_sts_last_active_file</code> operand (if this message was output by a log application site, the <code>pd_syssts_last_active_subfile</code> or the <code>pd_sts_last_active_subfile</code> operand) was not specified, see the section on the procedure for starting HiRDB when an error occurred in the status file in the manual <i>HiRDB Version 8 System Operation Guide</i>. Specify the file name of the previous operation in the <code>pd_syssts_last_active_file</code> operand or the <code>pd_sts_last_active_file</code> operand (if this message was output by a log application site, the <code>pd_syssts_last_active_subfile</code> or the <code>pd_sts_last_active_subfile</code> operand), and start HiRDB.</p> <p>If the <code>pd_syssts_last_active_file</code> operand or the <code>pd_sts_last_active_file</code> operand (if this message was output by a log application site, the <code>pd_syssts_last_active_subfile</code> or the <code>pd_sts_last_active_subfile</code> operand) was specified, prepare a spare file, and then start HiRDB.</p>

2. Messages

Reason code	Explanation	Action
000000017	<p>The normal system of the current file indicated by HiRDB does not match the system specified in the <code>pd_syssts_last_active_side</code> operand or the <code>pd_sts_last_active_side</code> operand (if this message was output by a log application site, the <code>pd_syssts_last_active_side_sub</code> or the <code>pd_sts_last_active_side_sub</code> operand).</p>	<p>See the section on the procedure for starting HiRDB when an error occurred in the status file in the <i>HiRDB Version 8 System Operation Guide</i>. Confirm that the normal system of the file indicated in the previous operation was specified in the <code>pd_syssts_last_active_side</code> operand or the <code>pd_sts_last_active_side</code> operand (if this message was output by a log application site, the <code>pd_syssts_last_active_side_sub</code> or the <code>pd_sts_last_active_side_sub</code> operand). If the normal system was not specified, specify the normal system in the <code>pd_syssts_last_active_side</code> operand or the <code>pd_sts_last_active_side</code> operand (if this message was output by a log application site, the <code>pd_syssts_last_active_side_sub</code> or the <code>pd_sts_last_active_side_sub</code> operand), and then start HiRDB. If this reason code was output even though the normal system was specified, an error occurred in the file name specified in the previous operation. Follow the procedure when HiRDB (unit) cannot be restarted because an error occurred in the current file on both systems in the <i>HiRDB Version 8 System Operation Guide</i>, and start HiRDB.</p>
000000018	<p>Because the normal system of the current file of the previous operation cannot be determined, HiRDB start processing was terminated.</p>	<p>See the section on the procedure for starting HiRDB when an error occurred in the status file in the manual <i>HiRDB Version 8 System Operation Guide</i>. Specify the normal system of the current file in the <code>pd_syssts_last_active_side</code> operand or the <code>pd_sts_last_active_side</code> operand (if this message was output by a log application site, the <code>pd_syssts_last_active_side_sub</code> or the <code>pd_sts_last_active_side_sub</code> operand), and then start HiRDB.</p>

Reason code	Explanation	Action
000000102	There is no inheritance information from the application site.	Consider the following causes: (1) During preparation for log application, the secondary status file was not created as per the procedure (2) The current secondary status file was deleted If (1), determine whether there is an error in the preparation for log application procedure, and then re-execute the preparation for log application. If (2), preparation for log application is required to start the log application site HiRDB. Perform preparation for log application, and then restart HiRDB. For details about preparation for log application, see the manual <i>HiRDB Version 8 Disaster Recovery System Configuration and Operation Guide</i> .

**KFPS01006-E E+L**

*aa....aa* statement in status service definition is invalid. reason code=*bb....bb*

There is a specification error in the unit control information definition or the server definition *aa....aa* operand. An error occurred during analysis of the unit control information definition or the server definition.

*aa....aa*: Name of the operand specified in the unit control information definition or the server definition

*bb....bb*: Reason code indicating the nature of the error (table below lists the reason codes and actions to be taken)

S: Continues processing.

O: Correct the unit control information definition or the server definition.

**Action**

Determine the cause from the following reason codes, and correct the unit control information definition or server definition.

## 2. Messages

Reason code	Explanation	Action
000000001	Duplicated information was specified in the definition.	Revise the unit control information definition or the server definition, and then restart HiRDB.
000000002	A definition statement is missing or is invalid.	
000000003	Invalid value was specified in the definition.	
000000004	The number of characters specified in the definition is invalid.	
000000005	The file name specified in the definition was not found.	
000000006	Combination of definition statements is invalid.	
000000101	The logical file name of the secondary status file does not match the logical file name of the corresponding primary status file.	
000000102	There is no definition for the secondary status file that corresponds to the primary status file.	
000000103	There is no definition for the primary status file that corresponds to the secondary status file.	

### KFPS01008-I E+L

*aa...aa* file unable to be used as standby status file due to *bb...bb*  
Indicated file cannot be used as a reserve status file.

*aa...aa*: Path name of the status file or name of the status file

If the path name of the status file exceeds 152 characters, the last 152 characters of the status file path name are output.

*bb...bb*: Reason code indicating the nature of the error

S: Terminates processing.

Action

Take action appropriate to the reason code, as listed below:

Reason code	Explanation	Action
0000000001	Record length does not match that of the current file.	Use the same record length as the current file.
0000000002	The numbers of records in file versions A and B do not match.	Match the numbers of records in file versions A and B.
0000000003	Record lengths of file versions A and B do not match.	Match the record lengths of file versions A and B.

**KFPS01009-E E+L**

File consistency error occurred in physical status file *aa...aa*

A file inconsistency error occurred in a status file.

*aa...aa*: Path name of the status file

If the path name of the status file exceeds 161 characters, the last 161 characters of the status file path name are output.

S:

- Reserve status file available:  
Swaps the files.
- Reserve status file not available:  
Cancels startup processing and places the erroneous file on shutdown status.

O: Check the previous session for any online shutdown or file system error and the status file for any allocation error. Correct the status file error and either provide a status file or restart HiRDB.

**KFPS01010-E E+L**

Error occurred in last updated status file *aa...aa*. reason code=*bb...bb*

An error occurred in the status file containing the most recent file.

*aa...aa*: Path name of the status file

If the path name of the status file exceeds 144 characters, the last 144 characters of the status file path name are output.

*bb...bb*: Reason code indicating the nature of the error (the table below lists the reason codes and actions to be taken)

S:

- 0000000006 set as the reason code:  
Recovers the file error and resumes processing.

- Other than 0000000006 set as the reason code:  
If a reserve status file is available, swaps the files; otherwise, cancels startup processing and places the erroneous file on shutdown status.
- Error occurred in both file versions A and B:  
Cancels startup processing.

## Action

Take action appropriate to the reason code, as listed below:

Reason code	Explanation	Action
0000000001	The numbers of records or record lengths of file versions A and B do not match.	Use the same number of records or the same record length as the normal file version and initialize the file with the <code>pdstsinit</code> command.
0000000002	The numbers of records or record lengths of file versions A and B do not match, and a data error was detected.	Match the numbers of records or record lengths of file versions A and B and initialize them with the <code>pdstsinit</code> command.
0000000003	Record update numbers do not match in file versions A and B.	Initialize file version B with the <code>pdstsinit</code> command.
0000000004	Record update error was detected in both file versions A and B.	Initialize both file versions A and B with the <code>pdstsinit</code> command.
0000000005	Record input error was detected.	Take action appropriate to the KFPS01040-E message that was output before.
0000000006	Incomplete file update status was detected.	No action is necessary. However, if both file versions A and B resulted in an error, initialize the erroneous files with the <code>pdstsinit</code> command.

**KFPS01011-I L+S**

HiRDB system selected *aa....aa* as last updated status file

Of the open files, status file *aa....aa* holds the most recent information. If `continue` or `excontinue` was specified in the `pd_syssts_initial_error` operand or the `pd_sts_initial_error` operand, and the current file of the previous session could not be determined, the name of the file from among the open status files that holds the most recent information is shown in *aa....aa*.

The name of the file output in *aa....aa* is not restricted to the current file of the previous session. For details on conditions where the current file of the previous session cannot be determined, see the explanation of the `pd_syssts_initial_error` operand or the `pd_sts_initial_error` operand in the manual *HiRDB Version 8 System Definition*.

*aa....aa*: Name of the status file

S: Resumes processing.

**KFPS01012-I L+S**

Error occurred in last updated status file *b* on *aa....aa* system

An error occurred in the one-way system of the status file *aa....aa* that holds the most recent information.

*aa....aa*: Name of the current status file

*b*: System where the error occurred {A | B}

S: Continues processing.

**KFPS01040-E E+L**

*aa....aa* error occurred in physical status file *bb....bb*. reason code=*cc....cc*

Error *aa....aa* occurred in status file *bb....bb*. HiRDB processing after this message is output differs depending on HiRDB startup or command execution.

- While HiRDB is running

If it is before the current file was allocated (before the KFPS01001-I message was output): Error shutdown is performed on the file where the error occurred.

If it is after the current file was allocated (after the KFPS01001-I message was output): Error shutdown is performed on the file where the error occurred, after which, if the status file where the error occurred is the current file, the file is swapped.

- During command execution

Continues processing.

*aa....aa*: Nature of the error:

close: File Close

create: File creation

delete: File deletion

filecheck: File validity checking

fstat: File status report

logical: Inconsistent record

open: File Open

read: Record input

write: Record output

*bb....bb*: Path name of the status file

## 2. Messages

If the path name of the status file exceeds 144 characters, the last 144 characters of the path name are output.

*cc...cc*: Reason code indicating the nature of the error

S: If a reserve status file is available, swaps files; otherwise, places the erroneous file on shutdown status and resumes processing.

### Action

Determine the cause from the following reason codes, and take the appropriate action.

Reason code	Explanation	Action
0000000001	Invalid status file record occurred.	Initialize the applicable status file with the <code>pdstsinit</code> command.
0000000002		Contact a customer engineer.
0000000003	Status file update incomplete.	Initialize the applicable status file with the <code>pdstsinit</code> command.
0000000004	HiRDB file system error occurred.	Contact a customer engineer.
0000000005	Invalid status file management area occurred.	Initialize the applicable status file with the <code>pdstsinit</code> command.
0000000006	The applicable file is not defined as a status file.	Check that the path name of status file <i>bb...bb</i> is correct. Correct the unit control information definition or the server definition.
0000000007	Erroneous file has not been initialized.	Delete the applicable status file with the <code>pdstrm</code> command, and initialize it with the <code>pdstsinit</code> command.
0000000008	Invalid status file initialization occurred.	Initialize the applicable status file with the <code>pdstsinit</code> command.
0000000009	Invalid status file management area occurred.	
0000000010		
0000000011		
0000000020	No access privilege for a character special file	Revise the access privilege to the HiRDB file system area that stores the status file.
0000000021	No access privilege for a file.	Revise the status file access privilege.



Reason code	Explanation	Action
000000022	Lock error (in use by another process) occurred.	The <code>pdstsrn</code> , <code>pdstsinit</code> , or <code>pdcat -d sts -e</code> command may have been executed for the open status file. Execute the <code>pdls -d sts</code> command, and check that the specified file is open. If it is open, take the following actions: <ul style="list-style-type: none"> <li>For the <code>pdstsrn</code> or the <code>pdstsinit</code> command, close the status file using the <code>pdstscfs</code> command and then re-execute the command.</li> <li>For the <code>pdcat -d sts -e</code> command, use the <code>pdstscfs</code> command to close the status file. Or, omit the <code>-e</code> option and re-execute the command.</li> </ul>
000000023	System resource (file lock) shortage occurred.	If an error message was output immediately before this, take the action indicated in the message. Revise the operating system parameters (number of files that can be open simultaneously, etc.).
000000024	No write privilege for file	Revise the access privilege to the status file. If Real Time SAN Replication is used, it is possible that the pair volume that stores the status file is an S-VOL. See the manual <i>HiRDB Version 8 Disaster Recovery System Configuration and Operation Guide</i> , and determine whether there is an error in the HiRDB startup procedure.
000000025	System resource (file descriptor) shortage occurred.	If an error message was output immediately before this, take the action indicated in the message. Revise the operating system parameters (number of files that can be open simultaneously, etc.).
000000026	Not initialized as a HiRDB file system area.	Check that the path name of status file <code>bb...bb</code> is correct. Use the <code>pdfmkfs</code> command to initialize as a HiRDB file system area.

## 2. Messages

Reason code	Explanation	Action
000000027	I/O error occurred.	Check if a disk error or operating system error occurred, and take appropriate action. Check that the disk where the status file was allocated is enabled. If the disk is not enabled, enable it. If an attempt was made to start individual units in a multiple-unit HiRDB/Parallel Server configuration that uses Real Time SAN Replication with the log-only synchronous method, it is possible that the combination of the use of the <code>pdstart</code> command <code>-l</code> option, the site status, and the disk settings is inappropriate. Use a correct combination of the <code>pdstart</code> command <code>-l</code> option, site status, and disk settings. For details about appropriate combinations, see the section on <code>pdstart</code> command notes in the manual <i>HiRDB Version 8 Command Reference</i> .
000000028	Memory shortage occurred.	Revise the operating system parameters (maximum number of processes, maximum memory allocated per process, etc.).
000000029	File not found	Check that the path name of status file <code>bb...bb</code> is correct. Or, revise the unit control information definition or server definition.
000000030	In UNIX, the number of character special files that can be opened has been exceeded. In Windows, the number of files that can be opened has been exceeded.	If an error message was output immediately before this, take the action indicated in the message. Revise the operating system parameters (number of files that can be open simultaneously, etc.).
000000031	Invalid file name.	Consider the following causes: <ul style="list-style-type: none"> <li>• An illegal character was used in the path name.</li> <li>• The path name length exceeded the limit (167 characters).</li> <li>• The HiRDB file name length exceeded the limit (30 characters).</li> </ul> Check the status file name specified in the command argument, or re-evaluate the unit control information definition or the server definition.

Reason code	Explanation	Action
000000032	Internal processing error occurred.	Contact a customer engineer.
000000033		
000000034		
000000035		
000000036		
000000037	Specified path is not a HiRDB file system area.	If an error message was output immediately before this, take the action indicated in the message. Check that the path name of status file <i>bb...bb</i> is correct. Initialize the applicable status file using the <code>pdfmkfs</code> command.
000000038	There is a shortage of area in the HiRDB file system area.	Increase the area of the HiRDB file system area, and re-initialize using the <code>pdfmkfs</code> command. Allocate the status file to another HiRDB file system area.
000000039	The system version of the HiRDB file does not match.	If an error message was output immediately before this, take the action indicated in the message. The HiRDB file system area that contains <i>bb...bb</i> cannot be used. Either specify another HiRDB file system area or use the <code>pdfmkfs</code> command to re-initialize the HiRDB file system area.
000000040	Internal processing error occurred.	Contact a customer engineer.
000000041		
000000042		
000000043	Attempt was made to create a status file in a HiRDB file system area that is not for system files.	Check the HiRDB file system area name, use the <code>pdfstatfs</code> command to check the purpose of use of the HiRDB file system area, and create a status file in a HiRDB file system area for use with system files.

**KFPS01041-I E+L**

Physical status file with error is closed and status service is placed in shutdown state. remove the closed file with `pdstrsrn` command and switch over to standby status file with `pdstsinit` command and `pdstsoopen` command

The status service function will be placed on shutdown status after closing the erroneous status file (delete the erroneous file with the `pdstsrn` command, and provide a reserve status file with the `pdstsinit` and `pdstsopen` commands).

S: Resumes processing.

O: Delete the erroneous file with the `pdstsrn` command. Initialize a file with the `pdstsinit` command and switch to a reserve status file with the `pdstsopen` command.

**KFPS01042-E E+L**

Logical status file *aa...aa* is short of capacity

An area shortage error occurred in the status file.

*aa...aa*: Name of the status file

S: If a reserve status file is available, swaps files; otherwise, cancels swapping.

Action

Check the size of the status file.

**KFPS01043-I E+L**

Fragmentation occurred in logical status file *aa...aa*

Fragmentation occurred in the status file.

*aa...aa*: Name of the status file

S: If a reserve status file is available, swaps files; otherwise, cancels swapping.

**KFPS01044-I L+S**

Current logical status file *aa...aa* is placed in the one-system operation state. The normal system is *b*. Take appropriate action immediately.

Current status file *aa...aa* was placed in single operation mode. The normal system is displayed. Take appropriate action immediately.

*aa...aa*: Name of current status file

*b*: Normal file version { A | B }

S: Continues processing.

Action

Take one of the following actions:

- Prepare a reserve file, and use the `pdstsswap` command to swap the status file.
- Determine the cause of the error and take action, use the `pdstsinit` command to initialize the system where the error occurred to the current file,

and then open using the `pdstsopen` command.

If you are starting HiRDB when using the status file in single-operation mode, the information displayed in this message must be specified in the following operands:

- `pd_syssts_last_active_file` (if a log application site, `pd_syssts_last_active_subfile`)
- `pd_syssts_last_active_side` (if a log application site, `pd_syssts_last_active_side_sub`)
- `pd_sts_last_active_file` (if a log application site, `pd_sts_last_active_subfile`)
- `pd_sts_last_active_side` (if a log application site, `pd_sts_last_active_side_sub`)

**KFPS01050-E E**

Inter-process communication error occurred

A process-to-process communication error occurred.

A process-to-process communication error occurred while processing a service request to the status service function. Or, while the status service function was active, an RPC error occurred.

S: Cancels processing.

O: Check the HiRDB operating environment, eliminate the cause of the error, then reissue the service request to the status service function.

**KFPS01051-I E+L**

Physical status file with error is closed and status service is placed in shutdown state

The status service function will be placed on shutdown status after closing the erroneous physical status file.

S: Initialize the erroneous file with the `pdstsinit` command, and switch to a reserve status file with the `pdstsopen` command.

**KFPS01060-I L+S**

Status file *aa....aa* open

Status file *aa....aa* has been opened (the system has completed opening of the status file).

*aa....aa*: Path name of the status file or name of the status file

S: Resumes processing.

**KFPS01061-I L+S**

Status file *aa....aa* closed

Status file *aa...aa* has been closed (the system has completed closing of the status file).

*aa...aa*: Path name of the status file or name of the status file

S: Resumes processing.

**KFPS01062-I L+S**

Status file swapping started. reason=*aaaaaaaa*

Status file swapping has started.

*aaaaaaaa*: Reason for swapping:

COMMAND: Swap command (*pdstsswap*) was entered

ONLINE: Access error occurred in the current file in the online mode

START: Error occurred in the current file while starting or restarting the status service function (access error, logical error between file versions A and B)

S: Resumes processing.

**KFPS01063-I L+S**

Status file swapping completed. current logical status file:  
*aa...aa*

Status file swapping has been completed.

*aa...aa*: Name of the current status file

S: Resumes processing.

Action

If you are starting HiRDB when an error occurred in the status file, the information displayed in this message must be specified in the following operands:

- *pd\_syssts\_last\_active\_file* (if a log application site, *pd\_syssts\_last\_active\_subfile*)
- *pd\_sts\_last\_active\_file* (if a log application site, *pd\_sts\_last\_active\_subfile*)

**KFPS01064-E E+L**

Error occurred during status file swapping. reason code=*aa...aa*

Status file swapping resulted in an error.

*aa...aa*: Reason code (the table below lists the reason codes and actions to be taken)

S: Cancels swapping.

O: Take action appropriate to the reason code, as listed below:

Reason code	Explanation	Action
0000000001	No available reserve status file	Prepare a reserve status file.
0000000002 0000000003	Allocation of the process private area failed.	Take the action indicated in the error message that was output immediately before this.
0000000004	No reserve status file exists for the swap target. A status file other than the current file is in hold or reserve status. Or, there is an area shortage.	Prepare a reserve status file. If this reason code is output even when there is a reserve status file, there is an area shortage in the reserve status file. Revise the estimate of the status file area to prepare a larger reserve status file. Once the larger status file has been made the current status file, increase the size of the remaining status files.
0000000005	Error occurred in the current status file.	If an error message was output immediately before this message, take the action indicated in the message. If no message was output, contact a customer engineer.
0000000006	Internal processing error occurred.	Contact a customer engineer.
0000000007		If an error message was output immediately before this message, take the action indicated in the message. If no message was output, contact a customer engineer.
0000000008 0000000009		Contact a customer engineer.

**KFPS01070-E E+L**

Error occurred during *aa....aa* command processing. reason code=*bb....bb*

An error occurred while processing command *aa....aa* (error occurred while processing a status service function command).

*aa....aa*: Command name

*bb....bb*: Reason code (the table below lists the reason codes and actions to be taken)

S: Terminates command processing.

O: Check the error message output before, correct the error, the reenter the command.

## 2. Messages

Reason code	Explanation	Action
000000001	Invalid information in status file management record (STR)	If an error message has been output before this message, take action appropriate to that message. Or, check the arguments specified in the command. If the cause of the error cannot be identified, retain the file and contact the HiRDB administrator.
000000002	Invalid information in status file management record (SHR)	
000000003	Record length differs from that of the current file, or the sizes of file versions A and B are different	Check the record length or the number of records in the status file with the <code>pdls</code> command specifying the <code>-d sts</code> option. Or, initialize the file with the <code>pdstsinit</code> command.
000000004	File status does not allow command entry	Check the file status with the <code>pdls</code> command specifying the <code>-d sts</code> option. Correct the file status and re-execute the command.
000000005	Basic file system error	If an error message has been output before this message or a message has been output from the status service function, take action appropriate to that message.
000000006	Specified file name is undefined in the unit control information definition or server definition	Check the arguments specified in the command.
000000007	Process-to-process communication error	If an error message has been output before this message, take action appropriate to that message. Correct the error and re-execute the command.
000000008	No reserve status file exists.	Provide a reserve status file.
000000009	Swapping error	Provide a status file and restart HiRDB.
000000010	System call error	Correct the error and re-execute the command.
000000011	Status file is being used ( <code>OPEN</code> ) by another status service function or is being processed by another status service function command	Check the system definition and server definition for a duplicate physical file name. Or, close the status file that is being used by the other status service function, or wait until the status service function and command have terminated.
000000012	System definition analysis error	Re-evaluate the system definition.
000000013	Process-to-process communication initialization error	Correct the error and re-execute the command.
000000014	No commands are being accepted	Re-execute the command while HiRDB is active.
000000015	Invalid data length in RPC text	Contact a customer engineer.



Reason code	Explanation	Action
0000000016	Current file was specified	Check the file status and the arguments specified in the command with the <code>pdls</code> command specifying the <code>-d sts</code> option. Or, swap status files and re-execute the command.
0000000017	Status of a specified file has already been changed	Check the file status with the <code>pdls</code> command specifying the <code>-d sts</code> option.
0000000018	Error was detected during file checking	Initialize the erroneous file with the <code>pdstsinit</code> command.

**KFPS01081-I E+S**

Usage: `pdstsinit [-x host_name | -u unit_id] -f full_path_name [-l record_length] [-c record_number] pdstsinit -s server_name -f full_path_name [-l record_length] [-c record_number]`

Displays the format of the `pdstsinit` command for a HiRDB/Single Server. This message is output when the command format is invalid.

Usage

`pdstsinit -f file-name [-l record-length] [-c record-count]`

S: Terminates processing.

O: Reenter correctly the specified command.

**KFPS01081-I E+S**

Usage: `pdstsinit {-x host_name | -u unit_id} -f full_path_name [-l record_length] [-c record_number] [-D]`  
`pdstsinit -s server_name [-x host_name | -u unit_id] -f full_path_name [-l record_length] [-c record_number] [-D]`

Displays the format of the `pdstsinit` command for a HiRDB/Parallel Server. This message is output when the command format is invalid.

Usage

`pdstsinit -f file-name [-l record-length] [-c record-count] [-D]`

S: Terminates processing.

O: Reenter correctly the specified command.

**KFPS01082-I E+S**

Usage: `pdstrsrn [-x host_name | -u unit_id] -f full_path_name pdstrsrn -s server_name [-x host_name | -u unit_id] -f full_path_name`

Displays the format of the `pdstrsrn` command for a HiRDB/Single Server. This

message is output when the command format is invalid.

Usage

```
pdstsrn -f file-name
```

S: Terminates processing.

O: Reenter correctly the specified command.

**KFPS01082-I E+S**

```
Usage: pdstsrn {-x host_name | -u unit_id} -f full_path_name  
[-D]
```

```
pdstsrn -s server_name -f full_path_name [-D]
```

Displays the format of the `pdstsrn` command for a HiRDB/Parallel Server. This message is output when the command format is invalid.

Usage

```
pdstsrn -f file-name [-D]
```

S: Terminates processing.

O: Reenter correctly the specified command.

**KFPS01083-I E+S**

```
Usage: pdstsoopen [-x host_name | -u unit_id] {-f full_path_name  
|-n logical_file_name}
```

```
pdstsoopen -s server_name {-f full_path_name | -n  
logical_file_name}
```

Displays the format of the `pdstsoopen` command for a HiRDB/Single Server. This message is output when the command format is invalid.

Usage

```
pdstsoopen { -f file-name | -n logical-file-name }
```

S: Terminates processing.

O: Reenter correctly the specified command.

**KFPS01083-I E+S**

```
Usage: pdstsoopen {-x host_name | -u unit_id} {-f full_path_name  
|-n logical_file_name}
```

```
pdstsoopen -s server_name {-f full_path_name | -n  
logical_file_name}
```

Displays the format of the `pdstsoopen` command for a HiRDB/Parallel Server. This message is output when the command format is invalid.

Usage

```
pdstsoopen { -f file-name | -n logical-file-name }
```

S: Terminates processing.

O: Reenter correctly the specified command.

**KFPS01084-I E+S**

```
Usage: pdstscls [-x host_name |-u unit_id] {-f full_path_name
|-n logical_file_name}
pdstscls -s server_name {-f full_path_name |-n
logical_file_name}
```

Displays the format of the `pdstscls` command for a HiRDB/Single Server. This message is output when the command format is invalid.

Usage

```
pdstscls { -f file-name |-n logical-file-name }
```

S: Terminates processing.

O: Reenter correctly the specified command.

**KFPS01084-I E+S**

```
Usage: pdstscls {-x host_name |-u unit_id} {-f full_path_name
|-n logical_file_name}
pdstscls -s server_name {-f full_path_name |-n
logical_file_name}
```

Displays the format of the `pdstscls` command for a HiRDB/Parallel Server. This message is output when the command format is invalid.

Usage

```
pdstscls { -f file-name |-n logical-file-name }
```

S: Terminates processing.

O: Reenter correctly the specified command.

**KFPS01086-I E**

```
Usage: pdstsswap [-x host_name |-u unit_id]
pdstsswap -s server_name
```

Displays the format of the `pdstsswap` command for a HiRDB/Single Server. This message is output when the command format is invalid.

Usage

```
pdstsswap
```

S: Terminates processing.

O: Reenter correctly the specified command.

**KFPS01086-I E**

```
Usage: pdstsswap {-x host_name |-u unit_id}
```

## 2. Messages

```
pdstsswap -s server_name
```

Displays the format of the `pdstsswap` command for a HiRDB/Parallel Server. This message is output when the command format is invalid.

Usage

```
pdstsswap
```

S: Terminates processing.

O: Reenter correctly the specified command.

### **KFPS01090-E E+L**

Error occurred in system call *aa....aa* [error code=*bb...bb*] function with error: *cc....cc*

System call *aa....aa* resulted in an error.

*aa....aa*: Name of the system call resulting in the error

*bb...bb*: Return value of the system call

*cc....cc*: Name of the function that issued the system call

S: Either resumes processing or terminates HiRDB abnormally, depending on the nature of the error.

Action

Contact a customer engineer.

### **KFPS01091-E E+L**

Insufficient memory. required memory size=*aa....aa* bytes, area type: *bb...bb*

A memory shortage occurred during execution of the status service function.

*aa....aa*: Size (in bytes) of the area to be allocated

*bb...bb*: Type of area in which the memory shortage occurred:

PROCESS: Process private area

STATIC SHMPOOL: Static shared memory

S: Either resumes processing or terminates HiRDB abnormally, depending on the error.

Action

Take action appropriate to the area type in which the memory shortage occurred:

Static shared memory:

Contact a customer engineer.

Process private area:

Check the usage of the process private area, take appropriate action, then re-execute the function.

If the error recurs, contact a customer engineer.

**KFPS01099-E E+L**

Error occurred with *aa....aa* function. error code=*bb....bb* function: *cc....cc*

Function *aa....aa* (an HiRDB function) resulted in an error.

*aa....aa*: Name of the HiRDB function resulting in the error

*bb....bb*: Internal return value of the HiRDB function

*cc....cc*: Name of the function that issued the HiRDB function

S: Either resumes processing or terminates HiRDB abnormally, depending on the nature of the error.

Action

Check the message output before or after this message to find the cause of the error, eliminate the error, and then re-execute. If no message was output before or after this message, see *4.1 Detail codes for RPC-related errors* and *4.2 Detail codes for system-related errors*. If the codes are the same as the HiRDB function internal return values, take the action appropriate for the codes. In UNIX, if HiRDB terminates abnormally, collect the core file.

**KFPS01103-E E+L**

Unable to start log service. reason code=*aaaa*

The log service function cannot be started (error occurred while starting or restarting the log service function).

*aaaa*: Reason code indicating the nature of the error (the table below lists the reason codes and actions to be taken)

S: Abnormally terminates HiRDB.

Action

Check the reason code to determine why the log service function cannot be started or restarted, take appropriate action, then restart HiRDB.

Reason code	Explanation	Action	Remarks
101	Memory shortage occurred.	Re-evaluate the memory usage.	—
103	Network error occurred.	Correct the error and restart the system.	

2. Messages

Reason code	Explanation	Action	Remarks
405	Error was detected during definition analysis.	Check the definition file, correct the specification, and restart the system.	Error details are provided in a KFP002XX message.
501	The number of HiRDB servers exceeded the maximum.	Correct the defined information and restart the system.	—
502	The information required to recover the system was not found in the status file.	<p>Re-evaluate the operand related to the status file for the server in each server definition.</p> <p>Possible causes:</p> <ul style="list-style-type: none"> <li>• The status file name specified in the <code>pd_sts_file_name_1-7</code> (if a log application site, <code>pd_sts_subfile_name_1-7</code>) operand has been changed</li> <li>• The status file specified in the <code>pd_sts_file_name_1-7</code> (if a log application site, <code>pd_sts_subfile_name_1-7</code>) operand has been initialized</li> <li>• The logical file name specified in the <code>pd_sts_last_active_file</code> and <code>pd_sts_last_active_side</code> (if a log application site, <code>pd_sts_last_active_subfile</code> and <code>pd_sts_last_active_side_sub</code>) operands or the status file that was current in the previous system operation are different</li> </ul>	—

Reason code	Explanation	Action	Remarks
503	Error occurred during status file I/O processing.	Check the cause of the error, correct the error, and restart the system.	—
504	Error occurred while activating the log service function process.	Check the cause of the error, correct the error, and restart HiRDB.	
508	Error occurred while activating the synchronization point dump service function process.		
512	Error occurred while analyzing the synchronization point dump service function-related definitions.		
514	Error occurred while activating the transaction recovery log service function process.	Check the cause of the error, correct the error, and restart HiRDB.	Details of the cause of the error are displayed before this message.
515	Error occurred while analyzing the transaction log recovery service function definitions.	Correct the definition according to the message that was output before this message and restart HiRDB.	—
516	Activation of an internal thread failed in the log service function process.	Check the cause of the error, correct the error, and restart HiRDB.	Details of the cause of the error are displayed before this message.
541	Error occurred while activating the status service function.	Correct the error on the basis of the message that was output before this message and restart the system.	—

—: Not applicable

#### **KFPS01104-W L**

Unable to recover previous log service conditions referring to status file; continues restart processing without status file.  
reason code=*aaaa*

The status of the previous log service function could not be restored from the status file. The system resumes restart processing without the status file.

*aaaa*: Reason code indicating the nature of the error (the table below lists the reason codes and actions to be taken)

S: Resumes processing.

#### Action

Take action appropriate to the reason code, as listed below:

Reason code	Explanation	Action	Remarks
502	Previous online status was not found in the status file	For a log application site, if a failure occurred during startup, perform preparation for system log application, and then restart. If other than the above, no action is required in response to this message.	Possible reason is: <ul style="list-style-type: none"> <li>• Error occurred while writing the status during the previous session</li> <li>• For a log application site, all secondary status files have been initialized</li> </ul>
503	Error occurred during status record I/O processing.	If restart fails, take action appropriate to the status service message (KFPS010xx) that was output before this message.	—

—: Not applicable

#### **KFPS01108-W L**

Error occurred while terminating log service; continues processing. reason code=*aaaa*

An error occurred while terminating the log service function, but processing continues.

*aaaa*: Reason code indicating the nature of the error (the table below lists the reason codes and actions to be taken)

#### Action

Refer to the reason code in order to check the cause of the error and take appropriate action, if necessary.

Reason code	Explanation	Action
101	Memory shortage occurred.	Check the memory size before the next startup.
103	Network error occurred.	Correct the network error before the next startup.
503	Error occurred during status file I/O processing.	Check the cause of the error and take appropriate action before the next startup.

#### **KFPS01109-W E+L**

Minor error occurred while analyzing definitions for log service. file being analyzed *aa....aa*, record number=*bb....bb*, reason code=*cc....cc*

A minor error occurred while analyzing the log service function-related definitions.

*aa....aa*: Name of definition file being analyzed



*bb...bb*: Record number resulting in the error

*cc...cc*: Reason code indicating the nature of the error (the table below lists the reason codes and actions to be taken)

S: Ignores the definition statement containing the erroneous `pdlogadfg` or `pdlogadpf` operand and starts or restarts the log service function (assumes that the definition statement has not been specified).

Action

Re-evaluate the log service function-related definitions.

Reason code	Explanation	Action	Remarks
408	The <code>pdlogadfg</code> operand is invalid: <ul style="list-style-type: none"> <li>-g option is not specified.</li> <li>Specified file group name is duplicated.</li> </ul>	If necessary, terminate the system, correct the definition, then restart.	—
409	-g option is invalid in the <code>pdlogadpf</code> operand: <ul style="list-style-type: none"> <li>-g option is not specified.</li> <li>File group specified in the -g option is undefined in the <code>pdlogadfg</code> operand specified in the previous row</li> </ul>	If necessary, stop the system, check the following items, and correct the <code>pdlogadpf</code> operand. Then, restart the system. <ul style="list-style-type: none"> <li>Is the <code>g</code> option specified?</li> <li>Is the file group name specified in the -g option correct?</li> <li>Is the file group specified in the -g option defined in the <code>pdlogadfg</code> operand specified in the previous row?</li> </ul>	

2. Messages

Reason code	Explanation	Action	Remarks
411	<p>-a option is invalid in the <code>pdlogadpf</code> operand:</p> <ul style="list-style-type: none"> <li>• -a option is not specified.</li> <li>• Length of path specified in the -a option exceeds the character maximum.</li> <li>• Length of the HiRDB file system area name specified in the -a option exceeds the limit (117 characters).</li> <li>• Length of HiRDB file name specified in the -a option exceeds the maximum (30 characters).</li> <li>• HiRDB file name specified in the -a option duplicates another HiRDB file name.</li> </ul>	If necessary, terminate the system, correct the definition, then restart.	
412	<p>-b option is invalid in the <code>pdlogadpf</code> operand:</p> <ul style="list-style-type: none"> <li>• -b option is not specified (applicable when dual log is used).</li> <li>• Length of path specified in the -b option exceeds the character maximum.</li> <li>• Length of the HiRDB file system area name specified in the -b option exceeds the limit (117 characters).</li> <li>• Length of HiRDB file name specified in the -b option exceeds the maximum (30 characters).</li> <li>• HiRDB file name specified in the -b option duplicates another HiRDB file name.</li> </ul>		Applicable when dual log is used.
413	The number of <code>pdlogadfg</code> operands exceeds the maximum.		An erroneous <code>pdlogadfg</code> operand is not included in the operands count.
415	More than one <code>pdlogadpf</code> operand with the same file group name was specified.		—
422	-d option is invalid in the <code>pdlogadfg</code> operand or is not specified.		

Reason code	Explanation	Action	Remarks
423	-d option is invalid in the pdlogadpf operand or is not specified.		

— : Not applicable

#### KFPS01113-E E+L

Unable to start *aaaa*(*xx....xx*) log file service. reason code=*bbbb*

Log service function *aaaa*(*xx....xx*) cannot be started.

An error occurred while starting or restarting the log service function.

*aaaa*: Type of log file:

sys: System log file

*xx....xx*: HiRDB server name

*bbbb*: Reason code indicating the nature of the error (the table below lists the reason codes and actions to be taken)

S: Cancels unit startup processing.

#### Action

Take action appropriate to the reason code, as listed below, then restart HiRDB:

Reason code	Explanation	Action	Remarks
101	Memory shortage occurred.	Check the memory size in use.	—
103	Network error occurred.	Correct the error and restart the system.	
114	Required information was not found in the message queue identifier table in the system.	Reconfigure the kernel, changing the value of message-related msgmni parameter.	

2. Messages

Reason code	Explanation	Action	Remarks
117	Because the value specified for the operand changed, an attempt was made to allocate more memory than the size of the shared memory that was allocated at system startup.	For the formula for calculating the log server, see the section on formulas for calculating shared memory used by unit controllers in the manual <i>HiRDB Version 8 Installation and Design Guide</i> , and change the definition values to make the size of the log server shared memory less than 2 GB. For HiRDB/Parallel Server, calculate using 1 as the value for <i>number-of-servers-in-unit+D</i> and <i>number-of-FES-in-unit</i> .	—
405	Error was detected during definition analysis.	Check the definition file, correct the error, then restart the system.	Error details are provided in a KFP002XX message.
414	The number of valid log file group definitions is less than the minimum number of generations required for system startup.	Correct the <code>pdlogadfg</code> operand in the applicable HiRDB server definition and restart the system.	A valid definition means a correct <code>pdlogadfg</code> operand with <code>ONL</code> specified.
416	The file group names specified in the <code>-g</code> option of the <code>pdlogadfg</code> operand include file groups not defined in the <code>pdlogadpf</code> operand; or file groups are defined in the <code>pdlogadpf</code> operand before the <code>pdlogadfg</code> operand.	Check the following items, and correct the <code>pdlogadfg</code> operand and <code>pdlogadpf</code> operand of the corresponding HiRDB server definition. Then, restart the system. <ul style="list-style-type: none"> <li>Is the file group name specified in the <code>-g</code> option correct?</li> <li>Is the <code>pdlogadpf</code> operand defined after the <code>pdlogadfg</code> operand definition?</li> </ul>	—
503	Error occurred during status file I/O processing.	Check the cause of the error, correct the error, then restart the system.	Details of the error have been displayed before this message.
504	Error occurred while activating the log I/O process.		
508	Error occurred during startup of the synchronization point service function		
510	Error was detected during log file checking.		

—: Not applicable

**KFPS01114-W E+L**

Error occurred while terminating *aaaa(xx...xx)* log file service; continues processing. reason code=*bbbb*

An error occurred while terminating log service function *aaaa(xx...xx)*.

*aaaa*: Type of log file:

*sys*: System log file

*xx...xx*: HiRDB server name

*bbbb*: Reason code indicating the nature of the error (the table below lists the reason codes and actions to be taken)

*Note*

The log service function will be started normally the next time.

S: Resumes termination processing.

Action

Take action appropriate to the reason code as listed below, if necessary:

Reason code	Explanation	Action	Remarks
101	Memory shortage occurred.	Check the memory size before the next startup.	—
103	Network error occurred.	Recover the network environment before the next startup.	
503	Error occurred during status file I/O processing.	Check the cause of the error and take appropriate action before the next startup.	
511	Error occurred during log file termination processing.	Check the cause of the error and take appropriate action before the next startup.	Details of the error have been displayed before this message.

—: Not applicable

**KFPS01115-E E+L**

Unable to start I/O service of *aaaa(xx...xx)* log file. reason code=*bbbb*

I/O process cannot be started for log file *aaaa(xx...xx)*.

*aaaa*: Type of log file

*sys*: System log file

*xx....xx*: HiRDB server name

*bbb*: Reason code indicating the nature of the error (the table below lists the reason codes and actions to be taken)

S: Terminates HiRDB.

Action

Take action appropriate to the reason code, as listed below, then restart HiRDB:

Reason code	Explanation	Action	Remarks
101	Memory shortage occurred.	Check the memory size in use.	—
103	Network error occurred.	Correct the error and restart the system.	
405	Error was detected during definition analysis.	Check the definition file, correct the error, then restart the system.	Error details are provided in a KFPU002XX message.
503	Error occurred during status file I/O processing.	Check the cause of the error, correct the error, then restart the system.	—

—: Not applicable

**KFPS01116-W L**

Error occurred while terminating I/O service of *aaaa* (*xx....xx*) log file; continues processing. reason code=*bbb*

An error occurred while terminating the I/O process for log file *aaaa*(*xx....xx*), but the system resumed processing.

*aaaa*: Type of log file:

*sys*: System log file

*xx....xx*: HiRDB server name

*bbb*: Reason code indicating the nature of the error (the table below lists the reason codes and actions to be taken)

*Note*

The log service function will be started normally the next time.

S: Resumes termination processing.

Action

Take action appropriate to the reason code, as listed below, if necessary:

Reason code	Explanation	Action
101	Memory shortage occurred.	Check the memory size before the next startup.
103	Network error occurred.	Recover the network environment before the next startup.
503	Error occurred during status file I/O processing.	Check the cause of the error and take appropriate action before the next startup.

**KFPS01121-E L**

Insufficient memory. required memory size=*aa....aa*, type: *bb...bb*

A memory shortage occurred.

*aa....aa*: Size of the area that was to be allocated

*bb...bb*: Type of the area resulting in the error:

STATIC\_SHMPOOL: Static shared memory

S: Cancels processing.

Action

Re-evaluate the system definition and re-execute.

**KFPS01125-E L**

Unable to use log service server *aaaa (xx....xx)*. reason code=*cccc-dd*

Server *aaaa(xx....xx)* cannot use the log service function.

*aaaa*: Server name

*xx....xx*: HiRDB internal code

*cccc*: Reason code indicating the nature of the error (the table below lists the reason codes and actions to be taken)

*dd*: HiRDB internal code

S: Depends on server message *aaaaaaaa* that is issued after this message.

O: Take action appropriate to the reason code, as listed below:

Reason code	Explanation	Operator's action	HiRDB Administrator's action
101	Memory shortage occurred.	—	Take action appropriate to the message output after this message.

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Reason code	Explanation	Operator's action	HiRDB Administrator's action
104	Log service function is not online.	Terminate the system and restart it.	Check the cause of the error to determine why HiRDB has not started normally.
903	Server with the same name attempted to use the log service function.	—	Check the server name or startup mode.
904	This server cannot be restarted because the log service function has started normally.	—	Take action appropriate to the message output after this message.
905	Log service cannot be provided to this server due to a status file access error.	—	Check the cause of the status file access error.
906	Log required for server restart is not available due to a log file I/O error or other error.	—	Check the cause of the log file error as required.
907	Attempt was made to start the synchronization point service function, but this service cannot be provided to this server.	Take action appropriate to the message that is output after this message.	Check the HiRDB server definition for an error.
908	Synchronization point service definition was defined for a server that does use the synchronization point service function.	—	

— : Not applicable

**KFPS01128-W L**

Unable to specify *bb...bb* in *aa...aa* operand, replace *bb...bb* with *cc...cc*, *server=dd...dd*

*bb...bb* cannot be specified in the *aa...aa* operand. *bb...bb* has been replaced with *cc...cc*.

*aa...aa*: Operand name

*bb...bb*: Specified value of the *aa...aa* operand

*cc...cc*: Value replacing the *aa...aa* operand

*dd...dd*: Server name

S: Continues processing.

Action



Referring to the manual *HiRDB Version 8 System Definition*, re-evaluate the value specified in the *aa....aa* operand. Pay particular attention to the following points:

- Check if values that cannot be combined are specified.
- Check if values that cannot be changed during startup have been changed.

**KFPS01129-E E+L**

Definition analysis error. definition name=*aa....aa*, server name=*bb....bb*, reason code=*cc....cc*

An analysis error occurred on the *aa....aa* operand in the definition analysis of the server *bb....bb*.

*aa....aa*: Operand name

*bb....bb*: HiRDB server name

*cc....cc*: Reason code indicating the nature of the error

1: The specified value is greater than the operand specification range.

2: The specified number of operands is invalid.

606: Other than the above

S: Terminates processing.

Action

Referring to the manual *HiRDB Version 8 System Definition*, re-evaluate the value specified in the *aa....aa* operand.

**KFPS01130-W L**

Error occurred while starting *aaaa (bb....bb)* log service; continues processing. reason code=*cccc*

An error occurred while the *aaaa(bb....bb)* log service facility was being started, but processing continues.

*aaaa*: Type of log file:

sys: System log file

*bb....bb*: HiRDB server name

*cccc*: Reason code indicating the nature of the error:

1654: Invalid file for data linkage

S: If the reason code is 1654, the system continues system startup processing using the same HiRDB Datareplicator extraction-completed or extracting status in the system log file as the last time HiRDB was terminated. Extracting status will not be released even for a log file whose extraction was completed when HiRDB was terminated at the corresponding server.

O: If the reason code is 1654, check the HiRDB Datareplicator linkage file by entering the `pdls -d rpl -j` command to determine whether or not the linkage operation can continue. If linkage processing with HiRDB Datareplicator cannot be continued, contact the administrator.

Action

If the reason code is 1654 and the HiRDB Datareplicator linkage cannot be performed, see the *HiRDB Datareplicator Version 8 Description, User's Guide and Operator's Guide*, and redo the data linkage.

**KFPS01150-E L**

```
Auto log unload service terminated. server=aa...aa:create
dir=bb...bb:reason=cccc
```

The automatic log unloading facility was terminated in server *aa...aa*.

*aa...aa*: HiRDB server name

*bb...bb*: Unload log file creation directory

*cccc*: Reason code indicating the error cause:

1660: Unloading of system log files failed in all unload log file creation directories.

1661: Creation of an automatic log unloading process failed.

1664: The unload log file that was to be created is already being used by another process.

S: Continues processing.

Action

Take one of the following actions:

- 1660 displayed as the reason code

A disk space shortage occurred in the unload log file creation directory or a disk error occurred. Allocate available disk space or correct the disk error, then resume the automatic log unloading facility by executing the `pdlogatul -b` command or by restarting HiRDB normally.

- 1661 displayed as the reason code

Check the maximum number of processes that can be executed in the server machine and terminate unnecessary processes; also check if sufficient system resources, such as memory space, are available.

- 1664 displayed as the reason code

Check if there is another process that is manipulating a file in the unload log file creation directory. Then resume the automatic log unloading facility by

executing the `pdlogatul -b` command or by restarting HiRDB normally.

- In all other cases

Obtain the following information and contact a customer engineer:

- All files under `%PDDIR%\spool`
- HiRDB system definition files
- Event log (in UNIX, `syslogfile`)
- Execution results of the `pdlogls -d sys` command

#### **KFPS01151-I L**

`aa....aa` changed auto log unload directory from `bb...bb` to `cc....cc`.reason=`dddd`

The unload log file creation directory to be used by server `aa....aa` was switched from `bb...bb` to `cc....cc`.

`aa....aa`: HiRDB server name

`bb...bb`: Unload log file creation directory before the switch

If the name of the unload log file creation directory before the switch exceeds 76 characters, the last 76 characters of the name of the unload log file creation directory before the switch is output.

`cc....cc`: Unload log file creation directory after the switch

If the name of the unload log file creation directory after the switch exceeds 76 characters, the last 76 characters of the name of the unload log file creation directory after the switch is output.

`dddd`: Reason code:

1665: The disk in which the unload log file creation directory is located became full.

S: Continues processing.

Action

Move unload log files in the unload log file creation directory to another area or delete unneeded unload log files.

#### **KFPS01152-W L**

No use `aa....aa` as auto log unload directory.  
server=`bb...bb`:reason=`cccc`

Directory cannot be switched to the unload log file creation directory (directory name `aa....aa`) used by server `bb...bb`. Another directory is being used as the switching destination.

*aa....aa*: Name of the unload log file creation directory

*bb....bb*: HiRDB server name

**cccc**: Detail code (see the list of detail codes in the Action section)

S: Continues processing.

#### Action

Take the action appropriate to the detail code, as shown below:

Detail code	Meaning	Action
1661	A shortage of resources occurred (such as memory space, file descriptors, or lock segments).	Recheck the amount of memory that is required. In UNIX, change the values of the following operating system parameters as necessary: <ul style="list-style-type: none"> <li>• <code>maxfiles</code></li> <li>• <code>nfile</code></li> <li>• <code>nflocks</code></li> </ul>
1666	A permission error occurred.	Grant the write privilege for the unload log file creation directory.
1667	An I/O error occurred.	Correct the error on the disk in which the unload log file creation directory is located. If the unload log files necessary for database recovery have been lost, make a backup.
1668	An unload log file creation directory or a HiRDB file system area for creation of unload log files does not exist.	Create an unload log file creation directory or a HiRDB file system area for unload log files.
1669	Unload log files created during the previous operation remain in the unload log file creation directory.	Move the unload log files to another area or delete unneeded unload log files.
1670	The type of the unload log file creation directory or HiRDB file system area for unload log files is invalid.	<ul style="list-style-type: none"> <li>• Check that the path name of the unload log file creation directory is correct.</li> <li>• Check that a HiRDB file system area for unload log files has been created for utilities.</li> </ul>

#### KFPS01153-I L

```
Auto log unload service restart. server=aa....aa:create
dir=bb....bb:reason=cccc
```

The automatic log unloading facility will be restarted in server *aa....aa*.

*aa....aa*: HiRDB server name

*bb....bb*: Unload log file creation directory

**cccc**: Reason code:

1662: The automatic log unloading facility was restarted because the `pdlogatul -b` command was executed.

S: Continues processing.

**KFPS01154-I L**

Auto log unload service stopped. `server=aa....aa:create dir=bb....bb:reason=cccc`

The automatic log unloading facility was stopped in server `aa....aa`.

`aa....aa`: HiRDB server name

`bb....bb`: Unload log file creation directory

`cccc`: Reason code:

1662: The automatic log unloading facility was stopped because the `pdlogatul -t` command was executed.

S: Continues processing.

**KFPS01155-W L**

`aa....aa` changed auto log unload directory from `bb....bb` to `cc....cc`. `reason=dddd`

Because an error occurred in the unload log file creation directory (directory name `bb....bb`) to be used by server `aa....aa`, the directory was switched from `bb....bb` to `cc....cc`.

`aa....aa`: HiRDB server name

`bb....bb`: Unload log file creation directory before the switch

If the name of the unload log file creation directory before the switch exceeds 76 characters, the last 76 characters of the name of the unload log file creation directory before the switch are output.

`cc....cc`: Unload log file creation directory after the switch

If the name of the unload log file creation directory after the switch exceeds 76 characters, the last 76 characters of the name of the unload log file creation directory after the switch are output.

`dddd`: Detail code (see the list of detail codes in the Action section)

S: Continues processing.

**Action**

Take the action appropriate to the detail code, as shown below:

Detail code	Meaning	Action
1661	A shortage of resources occurred (such as memory space, file descriptors, or lock segments).	Recheck the amount of memory that is required. In UNIX, change the values of the following operating system parameters as necessary: <ul style="list-style-type: none"> <li>• maxfiles</li> <li>• nfile</li> <li>• nflocks</li> </ul>
1666	A permission error occurred.	Grant the write privilege for the unload log file creation directory.
1667	An I/O error occurred.	Correct the error on the disk in which the unload log file creation directory is located. If the unload log files necessary for database recovery have been lost, make a backup.
1668	An unload log file creation directory or a HiRDB file system area for creation of unload log files does not exist.	Create an unload log file creation directory or a HiRDB file system area for unload log files.
1669	Unload log files created during the previous operation remain in the unload log file creation directory.	Move the unload log files to another area or delete unneeded unload log files.
1670	The type of the unload log file creation directory or HiRDB file system area for unload log files is invalid.	<ul style="list-style-type: none"> <li>• Check that the path name of the unload log file creation directory is correct.</li> <li>• Check that a HiRDB file system area for unload log files has been created for utilities.</li> </ul>

**KFPS01156-I L**

*aa....aa* wait for auto log unloading.file group=*bb....bb*:create dir=*cc....cc*

Server *aa....aa* is waiting for automatic log unloading to be completed. System log files of file group *bb....bb* are being unloaded at this time.

*aa....aa*: HiRDB server name

*bb....bb*: File group name of the system log files being unloaded currently

*cc....cc*: Unload log file creation directory

S: Continues processing.

**KFPS01157-W L**

Unable to use auto log unload service. server=*aa....aa*:reason=*bbbb*

The automatic log unloading facility cannot be used in server *aa....aa*.

*aa....aa*: HiRDB server name

*bbb*: Reason code:

1662: HiRDB system definition is invalid.

1663: Status file information is invalid.

1664: For a log application site HiRDB, the automatic log unloading facility cannot be started.

S: Continues processing.

Action

Take one of the following actions:

Reason code is 1662:

Check if the value specified in the `pd_log_auto_unload_path` operand is correct. If it is, restart HiRDB normally and start the automatic log unloading facility.

Reason code is 1663:

If this message was preceded by an error message related to the status file, take the action recommended in that message. If there has been no error in the status file, restart HiRDB normally and start the automatic log unloading facility.

Reason code is 1664:

For a transaction execution site HiRDB, start the automatic log unloading facility.

In all other cases:

Save the following information and contact a customer engineer:

- All files under `%PDDIR%\spool`
- HiRDB system definition files
- Event log (in UNIX, `syslogfile`)
- Execution results of the `pdlogls -d sys` command

#### **KFPS01160-E L**

Insufficient system log space. Transaction service stopped. Transactions terminate by force, server = *aa....aa*, output file name = *bb....bb*

The free space percentage of the system log file became less than the warning value. The target server is *aa....aa*. The system log file free area monitoring facility suppresses the scheduling of new transactions to the *aa....aa* server and forcibly terminates all transactions on the server. This facility also outputs the system log file

status information file to %PDDIR%\spool\pdjnlinf\*bb...bb*.

For details about monitoring the free area for system log files, see the *HiRDB Version 8 System Operation Guide*.

*aa...aa*: HiRDB server name

*bb...bb*: Status information file name of the system log file

S: Continues processing.

O: Contact the HiRDB administrator.

#### Action

Take the following actions:

- Check the status of the system log file using the `pdlogls` command, and then increase the number of system log files created at the swap destination.
- Suppress the issuing of new transactions to the *aa...aa* server until the KFPS01161-I message is output.

After taking these actions, eliminate the cause of the free area shortage in the system log file of server *aa...aa*.

For details about the actions to be taken by the HiRDB administrator if the free space percentage for the system log files becomes lower than the warning value, see the description of monitoring the free area for system log files in the *HiRDB Version 8 System Operation Guide*.

If Real Time SAN Replication is applicable and if a KFPS02178-E message was output before this message, take the action indicated in the KFPS02178-E message.

#### **KFPS01161-I L**

System log available space gained. Transaction service restart, server = *aa...aa*, rest = *bb...bb*%

The free percentage of the system log file became greater than the warning value because new areas ready for system log output were acquired. The target server is *aa...aa*. Cancels scheduling suppression of new transactions by the free space monitoring facility for system log files. For details about monitoring the free area for system log files, see the *HiRDB Version 8 System Operation Guide*.

*aa...aa*: HiRDB server name

*bb...bb*: Percentage of remaining system log file space the system log can output.

This percentage is based on a value of 100% for the entire system log file space.

S: Continues processing.

#### Action



Take the following actions:

- Cancel the suppression of the issuing of new transactions.
- If no action was taken according to the KFPS01160-E message, take action immediately.
- When *bb...bb* is low, the cause of the system log file free space shortage was not resolved. If operation continues in this state, the problem of insufficient free space for the system log file may recur. For details about how to recover from insufficient free space, see the description of monitoring free space for system log files in the *HiRDB Version 8 System Operation Guide*.

**KFPS01162-W L**

Insufficient system log space, server = *aa...aa*, output file name = *bb...bb*

The free percentage of the system log file became less than the warning value. The target server is *aa...aa*. The status information file of the system log file is output to %PDDIR%\spool\pdjnlinf\*bb...bb*.

*aa...aa*: HiRDB server name

*bb...bb*: Status information file name of the system log file

S: Continues processing.

O: Contact the HiRDB administrator.

Action

Check the status of the system log file using the `pdlogls` command and increase the number of status system log files created at the swap destination. For details about the actions to be taken by the HiRDB administrator if the free space percentage for the system log files becomes lower than the warning value, see the description of monitoring the free area for system log files in the *HiRDB Version 8 System Operation Guide*.

After taking these actions, eliminate the cause of the free area shortage in the system log file of server *aa...aa*.

If Real Time SAN Replication is applicable and if a KFPS02178-E message was output before this message, take the action indicated in the KFPS02178-E message.

**KFPS01163-W L**

Waiting for transaction completion, server = *aa...aa*, current transaction count = *bb...bb*

The system manager is waiting for completion of the transaction. The target server is *aa...aa*. Because the RDAREA may perform an error shutdown if the transaction waiting for termination is forcibly terminated, do not forcibly terminate the

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transaction.

*aa....aa*: HiRDB server name

*bb....bb*: The number of transactions waiting for termination

Action

Suppress the issuing of new transactions to the *aa....aa* server until the KFPS01161-I message is output. For details about how to determine the transaction for which completion is pending, see the description of monitoring free space for system log files in the *HiRDB Version 8 System Operation Guide*.

**KFPS01170-E L**

Unable to read system log file, server=*aa....aa*, reason=*bbbb(cc....cc)*

The update log of the system log file could not be read with discrepancies application of online reorganization.

*aa....aa*: HiRDB server name

*bbbb*: Reason code (see Action below)

*cc....cc*: Detail information (see Action below)

S: Terminates processing.

Action

See the reason code and detail information in the following table, and then take appropriate action. For details about re-executing updatable online reorganization, see the *HiRDB Staticizer Option Version 7 Description and User's Guide*.

Reason code (bbbb)	Detail information (cc....cc)	Meaning	Action
101	Memory size to be allocated	Failed to secure the necessary memory area.	Re-evaluate the system virtual memory capacity. If there is a shortage, expand the virtual memory capacity. If the memory capacity cannot be extended, secure more free virtual memory by stopping other unnecessary resident programs or processes.

Reason code (bbbb)	Detail information (cc....cc)	Meaning	Action
106	Internal information	Cannot access common memory HiRDB uses.	<p>If this message is output when HiRDB is inactive, restart HiRDB, and then re-execute the <code>pdorend</code> command.</p> <p>If this message is output when HiRDB is active, either the common memory area was deleted or the access privilege is invalid. If a system call error message is output immediately before this message, take action according to that message. If the system call error message is not output, check the following items for problems:</p> <ul style="list-style-type: none"> <li>• Is the person executing the updatable online reorganization the HiRDB administrator?</li> <li>• Is the file in the <code>spool</code> directory in the HiRDB operation directory improperly falsified?</li> </ul> <p>If the problem cannot be determined, contact a customer engineer.</p>
112	Internal information	Executed updatable online reorganization, but server did not start the unit.	Start the applicable unit.
711	Generation number	The generation number is missing from the file group of the system log file in the detail code.	<p>Use the <code>pdlogls -d sys</code> command to check if the file group of the system log file with the applicable generation number exists.</p> <p>If the file group of the system log file does not exist, updatable online reorganization cannot continue because the system log file was overwritten and the required update log records cannot be input. To re-execute updatable online reorganization, re-execute from the <code>pdorbegin</code> command.</p> <p>If the file group of the system log file exists, prepare the following data and contact a customer engineer:</p> <ul style="list-style-type: none"> <li>• Execution result of the <code>pdls -d org -a</code> command</li> <li>• Execution result of the <code>pdlogls -d sys</code> command</li> <li>• Applicable system log file or a backup file of the applicable system log file (except for the unload file)</li> </ul>

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Reason code (bbbb)	Detail information (cc....cc)	Meaning	Action
1001	701	Cannot find the file group of the system log file the system log target start point indicates.	Execute the <code>pdls -d org -a</code> command and check the file group name of the system log for the system log target start point. In addition, use the <code>pdlogls -d sys</code> command to check for the file group of the system log file. If the file group of the system log file cannot be found, updatable online reorganization cannot continue because the system log file was overwritten and the necessary update log records cannot be input. To execute updatable online reorganization, re-execute from the <code>pdorbegin</code> command.
	702	Cannot open the system log file the system log target start point indicates.	See the KFPS01171-E message just output to determine the cause of the error and take appropriate action. Then, execute the <code>pdorend</code> command and re-execute updatable online reorganization.
	1605	Generation information of the system log file the system log target start point indicates is invalid.	Execute the <code>pdls -d org -a</code> command and check the generation number and run ID of the file group for the system log file the system log target start point indicates. In addition, use the <code>pdlogls -d sys</code> command to check if the generation number and run ID match the generation number and run ID of the file group of the system log file. If the generation numbers or run IDs do not match, updatable online reorganization cannot continue because the system log file was overwritten and the necessary update log records cannot be input. To re-execute updatable online reorganization, re-execute from the <code>pdorbegin</code> command. If the generation numbers and run IDs are the same, prepare the following data and contact a customer engineer: <ul style="list-style-type: none"> <li>• Execution result of the <code>pdls -d org -a</code> command</li> <li>• Execution result of the <code>pdlogls -d sys</code> command</li> <li>• Applicable system log file or a backup file of the applicable system log file (except for the unload log file)</li> </ul>

Reason code (bbbb)	Detail information (cc....cc)	Meaning	Action
1653	701	Cannot find the file group of the system log file the system log target point indicates.	Execute the <code>pdls -d org -a</code> command and check the file group name of the system log file the system log target start point indicates. In addition, use the <code>pdlogls -d sys</code> command to check for the file group of the system log file. If the file group of the system log file cannot be found, updatable online reorganization cannot continue because the system log file was overwritten and the necessary update log records cannot be input. To execute updatable online reorganization, re-execute from the <code>pdorbegin</code> command.
	702	Cannot open the system log file the system log target start point indicates.	See the KFPS01171-E message just output to determine the cause of the error and take appropriate action. Then, execute the <code>pdorend</code> command and re-execute updatable online reorganization.
	1602	Found missing system log block(s) in the system log file input from the system log target point.	Execute the <code>pdlogls -d sys</code> command and check for the file group of the system log file including the system log block number of the input target for the KFPS01171-E message just output. If the file group of the system log file cannot be found, updatable online reorganization cannot continue because the system log file was overwritten and the necessary update log records cannot be input. To execute updatable online reorganization, re-execute from the <code>pdorbegin</code> command.

Reason code (bbbb)	Detail information (cc....cc)	Meaning	Action
	1605	Generation information of the system log file the system log target start point indicates is invalid.	<p>Execute the <code>pdls -d org -a</code> command and check the generation number and run ID of the file group for the system log file the system log target start point indicates. In addition, use the <code>pdlogls -d sys</code> command to check if the generation number and run ID match the generation number and run ID of the file group of the system log file.</p> <p>If the generation numbers or run IDs do not match, updatable online reorganization cannot continue because the system log file was overwritten and the necessary update log records cannot be input. To re-execute updatable online reorganization, re-execute from the <code>pdorbegin</code> command.</p> <p>If the generation numbers and run IDs are the same, prepare the following data and contact a customer engineer:</p> <ul style="list-style-type: none"> <li>• Execution result of the <code>pdls -d org -a</code> command</li> <li>• Execution result of the <code>pdlogls -d sys</code> command</li> <li>• Applicable system log file or a backup file of the applicable system log file (except for the unload log file)</li> </ul>

**KFPS01171-E L**

Error occurred while reading system log file, server=*aa....aa*, file\_group=*bb...bb*, system A/B=*c*, reason=*dddd* (*ee....ee*)

An error occurred in the system log file input in updatable online reorganization.

*aa....aa*: The HiRDB server name

*bb...bb*: File group name of the system log file

*c*: System where the error occurred (A or B)

*dddd*: Reason code (see Action below)

*ee....ee*: Detail information (see Action below)

S: Continues processing.

Action

See the reason code and detail information in the following table, and then take appropriate action.

Reason code (dddd)	Detail information (ee....ee)	Meaning	Action
213	Error code of the HiRDB file system	An open error occurred with the system log file	Check for the error cause and fix the error based on <i>5.1 Error codes returned from HiRDB file system access requests</i> .
215	Error code of the HiRDB file system	A read error occurred with the system log file.	For detail information other than error codes of the HiRDB file system, contact a customer engineer.
219 or 1652	Internal code	Invalid log lock data was detected in the system log file input.	<p>When the system log file is duplexed, processing continues using the system where no errors occurred.</p> <p>When the system log file is not duplexed, or an error occurs on both duplexed systems, updatable online reorganization cannot continue. To re-execute updatable online reorganization, first abort updatable online reorganization using the <code>pdorend -u</code> command, and then re-execute from the <code>pdorbegin</code> command. If this error message is repeatedly output even when re-executing updatable online reorganization, prepare the following data, and then contact a customer engineer:</p> <ul style="list-style-type: none"> <li>• All directories or files under <code>%PDDIR%\spool</code></li> <li>• The HiRDB system definition file</li> <li>• The execution result of the <code>pdlogls -d sys -e</code> command executed on the server that caused the error</li> <li>• The backup file created by executing the <code>pdfbkup</code> command on the system log file in the overwriting denied status for online reorganization</li> <li>• Event log (in UNIX, syslogfile)</li> </ul>

2. Messages

Reason code (dddd)	Detail information (ee....ee)	Meaning	Action
602	Internal code	Invalid log record data was found in the system log file input.	<p>When the system log file is duplexed, processing continues using the system where no errors occurred.</p> <p>When the system log file is not duplexed, or an error occurs on both duplexed systems, the systems abnormally terminate because updatable online reorganization cannot continue. To re-execute updatable online reorganization, first abort updatable online reorganization using the <code>pdorend -u</code> command, and then re-execute from the <code>pdorbegin</code> command. If this error message is repeatedly output even when re-executing updatable online reorganization, prepare the following data, and then contact a customer engineer:</p> <ul style="list-style-type: none"> <li>• All directories or files under <code>%PDDIR%\spool</code></li> <li>• The HiRDB system definition file</li> <li>• The execution result of the <code>pdlogls -d sys -e</code> command executed on the server that caused the error</li> <li>• The backup file on the server where the error occurred created by executing the <code>pdfbkup</code> command on the system log file in the overwriting denied status for online reorganization</li> <li>• Event log (in UNIX, syslogfile)</li> </ul>
1602	System log number of the input target	Found missing system log block(s) in the system log file input.	<p>Execute the <code>pdlogls -d sys</code> command and check for the file group of the system log file including the system log block number of the input target.</p> <p>If the file group of the system log file including the system log block number of the input target cannot be found, the file group of the applicable system log file may have been overwritten. If this causes updatable online reorganization to discontinue, the KFPS01170-E message is immediately displayed. See the actions for the KFPS01170-E message.</p> <p>If there is a file group of the system log file that includes the system log block number of the input target, processing can continue by using the system where the error did not occur, if the system log file is duplexed. However, if the system log file is not duplexed, or if the error occurs on both duplexed systems, updatable online reorganization cannot continue. In this case, the KFPS01170-E message is immediately displayed. See the actions for the KFPS01170-E message.</p>



Reason code (dddd)	Detail information (ee....ee)	Meaning	Action
1605	Generation information of the system log file*	Cannot process input of the update log record(s) because the generation information of the system log file does not match.	If the system log file is duplexed, processing can continue using the system where the error did not occur. If the system log file is not duplexed, or if the error occurs on both duplexed systems, there are cases in which updatable online reorganization cannot continue. In this case, the KFPS01170-E message is immediately displayed. See the actions for the KFPS01170-E message.
1653	Generation information of the system log file*	The generation information of the system log file does not match the system log target start point, so the information cannot be used in update log record input processing.	If the system log file is duplexed, processing can continue using the system where the error did not occur. If the system log file is not duplexed, or if the error occurs on both duplexed systems, updatable online reorganization cannot continue. In this case, the KFPS01170-E message is immediately output. See the actions for the KFPS01170-E message.

\* Formats:

*AA....AA, BB....BB, CC....CC*

*AA....AA*: Run ID

*BB....BB*: User run ID

*CC....CC*: Generation number

#### **KFPS01175-W L**

Online DB Reorganization overwrite status in all log file group changed and retrying swap, *server=aa....aa, type=bbb*

A system log file in the overwrite denied status for online reorganization was found, but because *pd\_log\_org\_no\_standby\_file\_opr=continue* was specified in the system definition, all system log files on the server were changed from the overwrite denied status for online reorganization to the overwrite permitted status for online reorganization, and the system log files were swapped.

*aa....aa*: HiRDB server name

*bbb*: Type of log file:

*sys*: System log file

S: Continues processing.

Action

After this message is output, all system log files enter the overwrite permitted status for online reorganization. Therefore, the update information required for discrepancies application of online reorganization is overwritten, and in some cases, updatable online reorganization cannot continue. In such cases, see the KFPS01170-E when it is output.

**KFPS01180-E L**

Skipped blocks detected while reading log. type: *aaaa* (*xx....xx*), previous read point: *bb....bb,cc....cc*, current read point: *dd....dd, ee....ee*, read direction: *g*

A missing block was detected while reading the log.

*aaaa*: Type of log file:

*sys*: System log file

*xx....xx*: HiRDB server name

*bb....bb*: Name of the log file group that was read immediately before the missing block was detected

*cc....cc*: Log block number that was read immediately before the missing block was detected

*dd....dd*: Name of the log file group that has just been read

*ee....ee*: Log block number that has just been read

*g*: Log block read direction:

*f*: Forward

*b*: Backward

*Note*

If no log block was read, *\*\*\*\*\**, *\*\*\*\*\** is displayed for *bb....bb, cc....cc*.

*S*: Resumes processing.

Action

Refer to the messages listed below to check the cause of the error; if a file error, recover from the error. If the data can be recovered, recover the data and then restart HiRDB. If the data cannot be recovered, restore the data from a backup and then restart HiRDB. If the cause cannot be identified, contact a customer engineer:

- KFPS01181-E
- KFPS01183-E
- KFPS01184-E

**KFPS01181-E L**

Log read error. type:*aaaa*(*xx...xx*), read point: *bb...bb,cc...cc*, read direction: *d*, element file: *ee...ee*, system A/B: *f*, reason code=*gggg-hh*

A log read error occurred.

*aaaa*: Type of log file:

sys: System log file

*xx...xx*: HiRDB server name

*bb...bb*: File group name

*cc...cc*: Block number

*d*: Log block read direction:

f: Forward

b: Backward

*ee...ee*: File group name of the system log file

*f*: File version resulting in the error:

a: A

b: B

*gggg*: Reason code:

213: The file group being read contains a closed file.

214: The file group being read contains a shutdown file.

215: The file group being read contains a file that cannot be read.

209: An I/O error occurred in the file group that was being read.

*hh*: HiRDB internal code

S: Resumes processing.

Action

Check the cause of the error on the basis of the reason code displayed in this message or the KFPS01203-E message, if it has been output before this message.

**KFPS01182-I L**

Generation file groups changed for further reading of log blocks. type: *aaaa*(*xx...xx*), from: *bb...bb,cc...cc*, to: *dd...dd,ee...ee*, read direction: *g*

File generations were changed for reading the log.

*aaaa*: Type of log file:  
    *sys*: System log file  
*xx....xx*: HiRDB server name  
*bb....bb*: File group name before change  
*cc....cc*: Generation number before change  
*dd....dd*: File group name after change  
*ee....ee*: Generation number after change  
*g*: Log block read direction:  
    *f*: Forward  
    *b*: Backward

**KFPS01183-E L**

Skipped generations detected while reading log blocks. type: *aaaa* (*xx....xx*), range: *bb....bb,cc....cc* to *dd....dd,ee....ee*, skipped generations: *ff....ff* to *gg....gg*, read direction: *h*

A missing generation was detected while reading the log.

*aaaa*: Type of log file:  
    *sys*: System log file  
*xx....xx*: HiRDB server name  
*bb....bb*: Name of the first log file group from which log blocks are read  
*cc....cc*: Number of the first log generation from which log blocks are read  
*dd....dd*: Name of the last log file group from which log blocks are read  
*ee....ee*: Number of the last log generation from which log blocks are read  
*ff....ff*: Number of the first generation missing a generation  
*gg....gg*: Number of the last generation missing a generation  
*h*: Log block read direction:  
    *f*: Forward  
    *b*: Backward

*Note*

During recovery of the log service function, *\*\*\*\*\**, *\*\*\*\*\** is displayed for *dd....dd, ee....ee*. If only one generation is missing, the same information is displayed in *ff....ff* to *gg....gg*.

S: Resumes processing.

**KFPS01184-E L**

Invalid log data detected while reading log. type:*aaaa* (*xx...xx*), read point: *bb...bb,cc...cc*, element file: *dd...dd* read direction: *e*, system A/B: *f*

Invalid log data was detected while reading the log.

*aaaa*: Type of log file:

sys: System log file

*xx...xx*: HiRDB server name

*bb...bb*: Name of the log file group in which invalid log data was detected

*cc...cc*: Number of the log block that was to be read

*dd...dd*: File group name of the system log file

*e*: Log block read direction:

f: Forward

b: Backward

*f*: File version resulting in the error:

a: A

b: B

S: Resumes processing.

Action

Because the log file may be damaged, stop using the log file and check the cause of the error.

**KFPS01185-E L**

Unable to read log file group. type: *aaaa* (*xx...xx*), read point: *bb...bb,cc...cc*, read direction: *d*, reason code=*eeee-ff*

While reading log files, a file group was detected that cannot be read.

*aaaa*: Type of log file:

sys: System log file

*xx...xx*: HiRDB server name

*bb...bb*: File group name

*cc...cc*: Generation number

*d*: Log block read direction:

## 2. Messages

f: Forward

b: Backward

eeee: Reason code:

1001: The indicated file group cannot be read, because the last location of the log was lost in the file group

ff: HiRDB internal code

S: Resumes processing.

### **KFPS01200-E L**

Failure to open *aaaa*(*xx....xx*) log file. element file: *bb...bb*, system A/B: *c*, reason code=*dddd-ee*

The system failed to open log file *aaaa*(*xx....xx*). A file cannot be opened.

*aaaa*: Type of log file:

sys: System log file

*xx....xx*: HiRDB server name

*bb...bb*: File group name

*c*: File version:

a: A

b: B

*dddd*: Reason code

*ee*: HiRDB internal code (the table below lists the reason codes and actions to be taken)

S: Shuts down the erroneous file and resumes processing.

O: Take action appropriate to the reason code, as listed below:

Reason code	Explanation	Operator's action	HiRDB Administrator's action
101	Memory shortage occurred.	—	Re-estimate the memory.

Reason code	Explanation	Operator's action	HiRDB Administrator's action
201	File name is invalid.	Consider the following causes: <ul style="list-style-type: none"> <li>• An invalid character was specified in the path name.</li> <li>• The length of the HiRDB file name exceeds the maximum (30 characters).</li> </ul> Specify the file name correctly and re-execute the command.	—
202	In UNIX: The specified file name is not a character special file. Or, there is no device that corresponds to this file. In Windows: This is not a direct disk; or there is no device that corresponds to this file.	—	Re-evaluate the pdlogadpf operand specification. For a log application site, determine whether the absolute path of the system log file is the same as for a transaction execution site.
203	The device specified in path has not been initialized for the HiRDB file system.		
207	Maximum value was exceeded when a character special file was being opened.	Close files that are not being used by the log service function and reopen the file.	Re-evaluate the maximum number of files that can be opened per process, and re-create the kernel, if necessary.

2. Messages

Reason code	Explanation	Operator's action	HiRDB Administrator's action
208	There is no access privilege for the specified character special file.	Use the OS command to check the access privilege for the HiRDB file system area.	—
209	I/O error occurred.	Check the cause of the I/O error and take appropriate action.	
210	HiRDB file system versions do not match.	Re-create the HiRDB file system with the <code>pdfmkfs</code> command, and re-create the log file with the <code>pdloginit</code> command.	
211	There is no access privilege for the specified file.	Check the access privilege for the log file with the <code>pdfls</code> command.	
212	Specified file was not found.	—	Re-evaluate the <code>pdlogadpf</code> operand specification. For a log application site, determine whether the absolute path of the system log file is the same as for a transaction execution site.
218 219	Specified file cannot be used as a log file.	Delete the erroneous file with the <code>pdlogrm</code> command, then re-create the file with the <code>pdloginit</code> command. For a log application site, determine whether the absolute path of the system log file is the same as for a transaction execution site.	—
220	Specified file is not a log file.	—	Re-evaluate the <code>pdlogadpf</code> operand specification. For a log application site, determine whether the absolute path of the system log file is the same as for a transaction execution site.
221	Lock segment shortage occurred.		Re-evaluate the number of record lock segments specified during the construction of the OS system.



Reason code	Explanation	Operator's action	HiRDB Administrator's action
222	Attempt was made to open a log file, but it was being used by another process.	Check the applicable log file as to whether or not it is being used by another process. Reopen the file, if necessary.	—

—: Not applicable

#### KFPS01201-E L

Failure to close *aaaa*(*xx....xx*) log file. element file: *bb...bb*, system A/B: *c*, reason code=*dddd-ee*

The system failed to close log file *aaaa*(*xx....xx*). A file cannot be closed.

*aaaa*: Type of log file:

*sys*: System log file

*xx....xx*: HiRDB server name

*bb...bb*: System log file name

*c*: File version:

a: A

b: B

*dddd*: Reason code:

101: Memory shortage occurred.

209: I/O error occurred.

221: Lock segment shortage occurred.

*ee*: HiRDB internal code

S: Ignores the error and resumes processing.

O: Check the cause of the file I/O error and correct the error.

In the case of a lock segments shortage, re-evaluate the number of record lock segments specified during construction of the OS system.

Action

If a memory shortage occurred, the memory must be re-estimated.

#### KFPS01202-E L

Failure to write to *aaaa*(*xx....xx*) log file. element file: *bb...bb*, system A/B: *c*, reason code=*dddd-ee*

The system failed to write data into log file *aaaa*(*xx....xx*). Data cannot be written into

a file.

*aaaa*: Type of log file:

sys: System log file

*xx....xx*: HiRDB server name

*bb....bb*: System log file name

*c*: File version:

a: A

b: B

*dddd*: Reason code:

209: I/O error occurred.

226: Shortage of disk space.

*ee*: HiRDB internal code

S: Shuts down the file that failed and continues processing.

Action

Take one of the following actions:

- When the reason code is 209:

Check for the cause of the I/O error in the file, eliminate the cause of the error, and then reallocate the file to HiRDB.

- When the reason code is 226:

Take one of the following actions:

1. Move the files HiRDB does not use from the disk with the memory shortage to another disk, or delete the files.
2. In UNIX, use character special files.
3. Specify the `-i` option in the `pdfmkfs` command and create a HiRDB file system area.
4. Replace the hard disk with a larger capacity disk, and then recover the HiRDB file system areas from backup files.

**KFPS01203-E L**

Failure to read from *aaaa* (*xx....xx*) log file. element file: *bb....bb*, system A/B: *c*, reason code=*dddd-ee*

An attempt to read the *aaaa* (*xx....xx*) log file failed. The file cannot be read.

*aaaa*: Type of log file:

sys: System log file  
 xx....xx: HiRDB server name  
 bb....bb: System log file name  
 c: File version:  
     a: A  
     b: B  
 dddd: Reason code:  
     209: I/O error occurred.  
 ee: HiRDB internal code  
 S: Ignores the error and resumes processing.  
 O: Check the cause of the file I/O error, correct the error, then reallocate the file in HiRDB.

**KFPS01204-E L**

Error occurred while handling log element file of *aaaa*(xx....xx) log file. reason code=*bbbb-cc*

An error occurred while processing log file *aaaa*(xx....xx) {open|close|read|write}.

*aaaa*: Type of log file:

sys: System log file  
 xx....xx: HiRDB server name  
 bbbb: Reason code:  
     101: Memory shortage occurred.  
     103: Network error occurred.  
     105: A time-out occurred during communication or file I/O processing.

*cc*: HiRDB internal code

S: Terminates processing.

Action

- When the reason code is 101:  
Re-estimate the amount of required memory.
- When the reason code is 103:  
Check for the cause of the network error, and then take appropriate action.  
Restart HiRDB.

## 2. Messages

- When the reason code is 105:

Check the status of the network or system. Reduce the load placed on the system. If a hardware error message is output to the disk that created the system log files, check the status of that disk.

Alternatively, restart HiRDB.

### **KFPS01205-E L**

Failure to concurrent access *aaaa*(*xx....xx*) log file. element file: *bb....bb*, system A/B: *c*, reason code=*dddd-ee*

An error occurred while concurrently accessing (opening) log file *aaaa*(*xx....xx*).

*aaaa*: Type of log file:

sys: System log file

*xx....xx*: HiRDB server name

*bb....bb*: File group name

*c*: File version:

a: A

b: B

*dddd*: Reason code:

101: Memory shortage occurred.

207: Number of open files exceeded the maximum.

208: There is no access privilege.

209: I/O error occurred when a log file created in the HiRDB file system was accessed.

210: File initialization version is invalid.

*ee*: HiRDB internal code

S: Stops HiRDB.

Action

Take action appropriate to the reason code, as listed below.

<b>Reason code</b>	<b>Meaning</b>	<b>Action</b>
101	There is a memory shortage.	Re-estimate the amount of memory required. Add real memory if necessary.

Reason code	Meaning	Action
207	The number of open files exceeded the maximum.	For HP-UX, use the <code>sam</code> command to change the value of the <code>nfile</code> operating system parameter. For Solaris, use the <code>limit</code> or <code>ulimit</code> command to change the maximum file descriptor count, rebuild the system, and then re-execute. For Linux, wait for the other processes to terminate, and then re-execute.
208	User has no access privilege.	Re-evaluate your file access privileges. For Windows, if this error occurred in an area using the raw I/O facility, check if a formatted disk was specified.
209	An I/O error occurred when accessing the system log file.	Take action according to <code>errno</code> of the KFPO00107-E message output immediately before this message.
210	Initialization version of the system log file is invalid.	Check the absolute path name of the system log file. When downgrading the initialization version, normally terminate HiRDB, re-create the system log file, and then start HiRDB.
214	A shortage of file lock segments occurred.	For HP-UX, use the <code>sam</code> command to change the value of the <code>nflocks</code> operating system parameter. For other than HP-UX, wait for other processes that are using locks to terminate, and then re-execute.

**KFPS01206-W L+C+E**

Unable to open *aaaa* (*bb...bb*) log file because file record size is unavailable. element file: *cc...cc*, system A/B: *d*, record size=*eeee*, `pd_log_rec_leng=ffff`

The record length for a system log file is inconsistent with the value specified in the `pd_log_rec_leng` operand; the system log file cannot be opened.

*aaaa*: Type of log file:

`sys`: System log file

*bb...bb*: Server name

*cc...cc*: File group name of the system log file

*d*: System in which the error occurred

*eeee*: Record length for the system log file (in bytes)

*ffff*: Value of the `pd_log_rec_leng` operand

S: Resumes processing.

O: Make the record length for the system log file equal to the value specified in the `pd_log_rec_leng` operand. For details on how to change the record length for a

system log file, see the *HiRDB Version 8 System Operation Guide*.

**KFPS01207-E E**

HiRDB file system area sector size, record size or record count is invalid. reason code=*aaaa*, HiRDB file system area sector size=*bb....bb*, valid record size range=*cc....cc*

The sector length of the HiRDB file system, a specified record length, or a specified record count is invalid.

*aaaa*: Reason code

- 1604: The value specified in the *-n* option in the *pdloginit* command is outside the range indicated by *cc....cc*.
- 1611: The sector length for the HiRDB file system area is greater than 4096 bytes. HiRDB files cannot be created in the indicated HiRDB file system area.
- 1612: The value specified in the *-l* option in the *pdloginit* command is less than the sector length for the HiRDB file system area.

*bb....bb*: Sector length of HiRDB file system area

*cc....cc*: Displays the range of specifiable record counts in a "minimum - maximum" format

For a reason code 1611 or 1612, this code displays a \*\*\*

S: Terminates processing.

O: The specific action to be taken depends on which of the following reason codes was displayed:

- 1604: Make the value specified in the *-n* option in the *pdloginit* command fall within the numerical range indicated by *cc....cc* and re-execute the *pdloginit* command.
- 1611: Reset the HiRDB file system area on a hard disk (partition) with a sector length less than or equal to 4096 bytes and re-execute the *pdloginit* command.
- 1612: Make the value specified in the *-l* option in the *pdloginit* equal to or greater than the sector length for the HiRDB file system area and re-execute the *pdloginit* command.

**KFPS01211-I L**

*aa....aa* log file group unload start. server=*bb....bb*:gen no=*cc....cc*

Unloading of system log file *aa....aa* of server *bb....bb* by the automatic log unloading facility is starting.

*aa....aa*: File group name of the system log file

*bb...bb*: HiRDB server name

*cc...cc*: Generation number of the system log file

S: Continues processing.

**KFPS01212-I L**

*aa...aa* log file group unload completed. server=*bb...bb*:unload log file name=*cc...cc*

Unloading of system log file *aa...aa* of server *bb...bb* by the automatic log unloading facility has been completed. The name of the created unload log file is *cc...cc*.

*aa...aa*: File group name of the system log file

*bb...bb*: HiRDB server name

*cc...cc*: Unload log file name

If the name of the unload log file exceeds 138 characters, the last 138 characters of the unload log file name are output.

S: Continues processing.

**KFPS01213-W L**

*aa...aa* log file group already unloaded. Change log file group status to be unloaded. server=*bb...bb*:gen no=*cc...cc*

An attempt was made to unload system log file *aa...aa* automatically, but the file had already been unloaded. The status of system log file *aa...aa* has been changed to unloaded.

*aa...aa*: File group name of the system log file

*bb...bb*: HiRDB server name

*cc...cc*: Generation number of the system log file

S: Continues processing.

**KFPS01215-I L**

File group *bb...bb* of *aaaa*(*xx...xx*) log opened

*bb...bb* of log *aaaa*(*xx...xx*) was opened.

A log group was opened.

*aaaa*: Type of log file:

sys: System log file

*xx...xx*: HiRDB server name

*bb...bb*: Name of the opened file group

**KFPS01216-I L**

File group *bb...bb* of *aaaa (xx...xx)* log closed

*bb...bb* of log *aaaa(xx...xx)* was closed.

A log group was closed.

*aaaa*: Type of log file:

sys: System log file

*xx...xx*: HiRDB server name

*bb...bb*: Name of the closed file group

**KFPS01217-I L**

File group *bb...bb* of *aaaa (xx...xx)* log became available

Log file (*bb...bb*) of *aaaa(xx...xx)* is now usable by HiRDB.

*aaaa*: Type of log file:

sys: System log file

*xx...xx*: HiRDB server name

*bb...bb*: Name of the usable log file group

**KFPS01218-I L**

File group *bb...bb* of *aaaa (xx...xx)* log became unavailable

Log file *bb...bb* of *aaaa(xx...xx)* is no longer usable by HiRDB.

*aaaa*: Type of log file:

sys: System log file

*xx...xx*: HiRDB server name

*bb...bb*: Name of the log file group that is no longer usable

**KFPS01220-E L**

Request to swap *aaaa (xx...xx)* log file unable to be executed because there is no standby log file group available

A request to swap the *aaaa (xx...xx)* log file was issued, but no swappable system log file was found. Reasons no swappable system log files were found:

1. There is no standby log file.
2. A standby file group is on one of the following statuses:
  - Waiting for unload
  - Cannot overwrite (now acquiring synchronization point dump corresponding to the applicable log file)



- Reading data for HiRDB recovery
- Being used for command processing

*aaaa*: Type of log file:

*sys*: System log file

*xx....xx*: HiRDB server name

S: Terminates the system.

Action

Take one of the following actions:

- Place the log file on usable status, or add a log file.
- Unload the log file.
- If there is a reserved file, make it available in the online mode, then swap the files.
- Increase the number of log files.

#### **KFPS01221-I L**

*aaaaaaaa* assigned as current file group of *bbbb(xx....xx)* log file. generation number=*cc....cc*, first block number=*dd....dd*

Log file group *aaaaaaaa* has been assigned as the current log file for HiRDB server *bbbb(xx....xx)*.

*aaaaaaaa*: Name of the assigned log file group

*bbbb*: Type of log file:

*sys*: System log file

*xx....xx*: HiRDB server name

*cc....cc*: Log generation number

*dd....dd*: First log block number in file

#### **KFPS01222-I L**

*aa....aa* released from *bbbb(xx....xx)* log file. generation number=*cc....cc*, first block number=*dd....dd*, last block number=*ee....ee*

The *bbbb(xx....xx)* system log file is no longer current.

*aa....aa*: File group name of the system log file that is no longer current

*bbbb*: Type of log file:

*sys*: System log file

*xx....xx*: HiRDB server name

## 2. Messages

*cc....cc*: Log generation number

*dd....dd*: First log block number in file

*ee....ee*: Last log block number in file (0 means that no log item has been output)

### **KFPS01223-E L**

Error occurred during *aaaa* (*xx....xx*) log swap processing. reason code=*bbbb*

An error occurred while swapping log file *aaaa*(*xx....xx*).

*aaaa*: Type of log file:

*sys*: System log file

*xx....xx*: HiRDB server name

*bbbb*: Reason code:

101: Memory shortage occurred

103: Network error occurred; possible causes are as follows:

- Error in hardware, such as Ethernet board or cable
- Invalid network definition
- Target node is not active, or HiRDB is not running at that node
- Target process is not executing

105: Timeout error occurred

S: Terminates the system.

Action

- Reason code 101

Ensure that the memory estimate is correct.

- Reason code 103

Perform the following:

- Use an operating system command to check the connection status of the server machine.
- Use a HiRDB command to check the run status of each server.

- Reason code 105

Perform the following:

- Reduce the system load.
- If a hardware failure message was output on the disk where the system log

file was created, check the disk status.

- Determine whether the value specified in the `pd_log_swap_timeout` operand is too small, and, if necessary, increase the value.

**KFPS01224-I L**

*aaaa* (*xx....xx*) log does not have standby file group available for next swapping

*aaaa* (*xx....xx*) does not have a swappable file group for the next swapping; a swappable log file group needs to be provided.

*aaaa*: Type of log file:

`sys`: System log file

*xx....xx*: HiRDB server name

O: Unload any log file group that has not been unloaded. If there is no such log file group but there is a reserve file group, open the reserve file group.

**KFPS01225-I L**

Request to swap *aaaa* (*xx....xx*) log occurred, but no standby file group available. system opened file groups having been closed to get available standby

A need to swap system log file *aaaa* (*xx....xx*) has arisen. However, because there was no available file group that could be assigned as the current system log file, the system opened closed file groups in order to find a swappable file group.

A need to swap system log file *aaaa* arose. However, because the previous online transaction had not been settled, the system opened a reserve file.

*aaaa*: Type of log file:

`sys`: System log file

*xx....xx*: HiRDB server name

**KFPS01226-E L**

*bb....bb* file group of *aaaa* (*xx....xx*) log opened but unable to be assigned as current file group; now closing

Log file *bb....bb* of *aaaa* (*xx....xx*) was opened, but it was closed again because this log file cannot be assigned as the current file.

A closed file was opened, but it was closed again because its log file group has not been unloaded and cannot be used as the current file.

*aaaa*: Type of log file:

`sys`: System log file

*xx....xx*: HiRDB server name

*bb...bb*: Name of opened log file group

S: Closes log file *bb...bb* and resumes processing.

**KFPS01227-W E+L**

*aaaa* (*bb...bb*) log does not have standby file group available for next swapping; stop datareplication and continues swapping

Swapping failed because *aaaa*(*bb...bb*) file was on HiRDB Datareplicator extracting status. The system terminates HiRDB Datareplicator linkage and continues swapping of log files because `pd_log_rpl_no_standby_file_opr=continue` is specified.

*aaaa*: Type of log file:

`sys`: System log file

*bb...bb*: HiRDB server name

S: Resumes processing.

O: HiRDB Datareplicator was terminated forcibly. To restart HiRDB Datareplicator linkage, the target database must be re-created. For details about what action to take, see the *HiRDB Datareplicator Version 8 Description, User's Guide and Operator's Guide*.

Action

Referring to the *HiRDB Datareplicator Version 8 Description, User's Guide and Operator's Guide*, restart data linkage. To restart data linkage, you must re-create the database on the reflection side.

**KFPS01228-W L**

Error occurred *aaaa* (*bb...bb*) log for waiting syncpoint acquisition opportunities. reason code=*cccc*

When the `pdlogswap` or `pdlogsync` command was executed with the `-w` option specified, validation of a synchronization point dump was not completed within the monitoring interval time.

*aaaa*: Type of log file:

`sys`: System log file

*bb...bb*: Server name

*cccc*: Reason code:

105: Timeout occurred while waiting for validation of synchronization point dump during execution of `pdlogswap` command with the `-w` option specified.

S: Resumes processing

O: Re-execute the `pdlogswap` command after taking appropriate action as described below. If the same event recurs when the `pdlogswap` command is executed or none

of the events listed below applies, contact a customer engineer.

#### Action

Check whether there is a transaction that is taking a long time to execute.

Time-consuming transaction present:

Transaction cannot be cancelled:

- Wait until the transaction terminates. After confirming that the synchronization point can be enabled, re-execute either the `pdlogswap` or `pdlogsync` command.
- To allow the synchronization point to be held until the current transaction terminates, specify a large enough value in the `-t` option and then re-execute either the `pdlogswap` or `pdlogsync` command.

Transaction can be cancelled:

- Cancel the transaction and re-execute either the `pdlogswap` or `pdlogsync` command.

No time-consuming transactions present:

- Re-execute either the `pdlogswap` or `pdlogsync` command.

#### **KFPS01229-I L**

Next *aa....aa* log file restart point, generation number=*bb...bb*, block number=*cc....cc*. restart end point, generation number=*dd....dd*, block number=*ee....ee*. last acquired syncpoint dump *ffff/gg/hh ii:jj:kk*

Displays the system log input starting position, the system log input termination position, and the date and time when the synchronization point dump was last enabled for the next restarting of server name *aa....aa*.

If an error occurs in the synchronization point dump file or status file before the server is restarted, the system log input starting position indicated in this message may differ from the position at which the system log is actually input.

*aa....aa*: Server name

*bb...bb*: System log generation number that will be the input starting position<sup>1</sup>

*cc....cc*: System log block number that will be the input starting position<sup>1</sup>

*dd....dd*: System log generation number that will be the input termination position<sup>1</sup>

*ee....ee*: System log block number that will be the input termination position<sup>1</sup>

*ffff/gg/hh*: Date the current synchronization point was enabled<sup>2</sup>

*ii:jj:kk*: Time the current synchronization point was enabled<sup>2</sup>

## 2. Messages

<sup>1</sup> If the value to be displayed in the generation number or block number cannot be determined, the system displays the symbol **\*\*\*\*\***.

<sup>2</sup> If an enabling date cannot be determined, the symbol **\*\*\*\*/~/\*\*** is displayed; if an enabling time cannot be displayed, the symbol **\*\* : \*\* : \*\*** is displayed.

S: Resumes processing.

O: If the server cannot be restarted unless a system log file is added, or when determining the number of system log files to be added, or when determining an approximate length of time required to restart the server next time, see both output information about this message and the execution results of the `pdlogls` command. If the generation number and block number of this message display **\*\*\*\*\***, refer to the message output during the previous unit shutdown. For HiRDB/Single Server, this message is output to the message log file and the event log (in UNIX, `syslogfile`). For HiRDB/Parallel Server, the output target differs depending on the condition. The conditions and output targets are listed below.

Condition	Message output target
<ul style="list-style-type: none"> <li>Unit terminated abnormally</li> <li>Failure at server startup</li> <li>Failure at server shutdown</li> </ul>	Messages are output to the message log file and the event log (in UNIX, <code>syslogfile</code> ) of the unit where the system manager resides. However, if a communication error occurs between the unit (or server) and the unit where the system manager resides, or if the unit where the system manager resides is stopped, messages will be output to the event log (in UNIX, <code>syslogfile</code> ) of the affected unit.
<ul style="list-style-type: none"> <li>Unit terminated forcibly</li> <li>Server terminated forcibly</li> </ul>	Messages will be output to the event log (in UNIX, <code>syslogfile</code> ) of the affected unit.

### **KFPS01230-E E+L**

Unable to read log file reason=(*aaaa*, *bbbbbbb*)

The system was unable to execute HiRDB Datareplicator log input processing.

*aaaa*: Reason code

*bbbbbbb*: Detail code

The detail codes and operator's actions for reason code *aaaa* are listed in the table below.

S: Terminates processing.

O: Take action appropriate to the reason code and detail code, as shown below:

Reason code	Detail code	Explanation	Operator's action
101	Size to be allocated	Memory shortage occurred.	Check the number of processes, take appropriate action, then re-execute.
203	Error code for HiRDB file system	Log file open error or read error occurred.	See <i>5.1 Error codes returned from HiRDB file system access requests</i> to determine the cause of the error. If the displayed detail code is not found in the list of error cause codes, contact a customer engineer.
212	0	Access to all files failed except for the one at the input startup point.	Execute the <code>pdlogls</code> command to determine the cause of the error on the basis of the result.
405	101	Memory shortage occurred during definition analysis.	Re-execute after the current process has terminated. If a system call error message was output immediately before this message, take action appropriate to that message.
	403	Open error occurred in a definition file.	Check the cause of the error on the basis of the definition file open error message that was output immediately before this message.
	404	Open error occurred in an analysis file.	Check the cause of the error on the basis of the analysis file open error message that was output immediately before this message.
	405	Error was detected during analysis processing.	Check the cause of the error on the basis of the analysis error message that was output immediately before this message.
	414	The number of valid log file groups was 0.	Correct the <code>pdlogadfg</code> and <code>pdlogadpf</code> operands in the corresponding server definition and re-execute.
410	0	File group names of the system log file were duplicated.	Correct the <code>pdlogadfg</code> and <code>pdlogadpf</code> operands in the corresponding server definition and re-execute.
413	0	The maximum file group count of the system log file was exceeded.	Correct the <code>pdlogadfg</code> and <code>pdlogadpf</code> operands in the corresponding server definition and re-execute.
1602	Block number	A missing block was detected in the log file.	The log file may have been overwritten. Check the cause.

Reason code	Detail code	Explanation	Operator's action
1653	0	Log input location is invalid.	<p>Check the contents of the definition file.</p> <p>If there is no error in the definition file, check that there was a file at the input startup point output by the <code>pdls -d rpl -j</code> command and that the file is accessible.</p> <p>If the file exists and is accessible, enter the <code>pdls -d rpl -j</code> and <code>pdlogls -d sys</code> commands.</p> <p>HiRDB Datareplicator linkage cannot be established unless the system log displayed by the <code>pdls</code> command as being extracted is not listed under the log block output status of all system log files displayed by the <code>pdlogls</code> command. Take an appropriate action according to the system administrator's instructions so that HiRDB Data-replicator linkage can be restarted. If the system log displayed by the <code>pdls</code> command as being extracted is listed under the log block output status of all system log files displayed by the <code>pdlogls</code> command, contact a customer engineer.</p>

### Action

Terminate HiRDB Datareplicator linkage, if it is in effect. To restart HiRDB Datareplicator linkage, the target database must be re-created. For details about what action to take, see the *HiRDB Datareplicator Version 8 Description, User's Guide and Operator's Guide*.

However, if reason code 203 was output, the system log file may temporarily have been unreferenceable. See the KFPS01231-W or KFPO00107-E message output immediately before, correct the temporary device busy or other problem with the disk that stores the system log file so that it can be referenced, and restart the HiRDB Datareplicator.

### KFPS01231-W E+L+R

Error occurred while reading log element file, file group=*aa...aa*, system A/B: *b*, reason=(*cccc,dd...dd*)

Error occurred while reading a file for system *b* in log file group *aa...aa*.

*aa...aa*: Name of log file group

*b*: System where the error occurred:

a: System A

b: System B

*cccc*: Reason code



*dd....dd*: Detail code

The detail codes and operator's actions for reason code *cccc* are listed in the table below.

S: Terminates processing.

O: Take action appropriate to the reason code and detail code, as shown below:

Reason code	Detail code	Explanation	Operator's action
213	HiRDB file system error code	Log file open error occurred.	See <i>5.1 Error codes returned from HiRDB file system access requests</i> to determine the cause of the error. If the displayed detail code is not found in the list of error cause codes, contact a customer engineer.
215	HiRDB system error code	Log file read error occurred.	
1602	Log block number	A missing block was detected in the log file.	The log file may have been overwritten. Check the cause.

#### KFPS01232-E E+L

Datareplication stopped for *aaaa(bb...bb)*; reason code=*cccc*, continues processing.

Log service *aaaa(bb...bb)* can no longer output data linkage information for reason *cccc*, but HiRDB operation will be continued as is.

*aaaa*: Type of log file:

*sys*: System log file

*bb...bb*: HiRDB server name

*cccc*: Reason code indicating the nature of the error:

115: Cancellation of HiRDB Datareplicator extraction processing was detected

212: File for data linkage was not found

S: Resumes processing.

O: HiRDB Datareplicator linkage has been terminated forcibly. Take appropriate action based on the *HiRDB Version 8 System Operation Guide* and the *HiRDB Datareplicator Version 8 Description, User's Guide and Operator's Guide*.

Action

To re-execute HiRDB Datareplicator linkage, the target database must be re-created.

Referring to the *HiRDB Datareplicator Version 8 Description, User's Guide and Operator's Guide*, return the HiRDB Datareplicator linkage to a state in which it

can once again be restarted. Then, either enter the `pdrplstart` command or, after confirming that `pd_rpl_init_start=Y` is set in the system common definitions (`pdsys` under `PDCONFPATH`), start HiRDB normally, and then restart HiRDB Datareplicator.

**KFPS01233-E E+L**

HiRDB Datareplicator access communication file for *aaaa* (*bb...bb*) is invalid; continues processing. reason code=*cccc*

An error was detected by HiRDB Datareplicator in the file for data linkage. HiRDB operation will be continued, but data can no longer be linked by HiRDB Datareplicator.

*aaaa*: Type of log file:

*sys*: System log file

*bb...bb*: HiRDB server name

*cccc*: Maintenance information

S: Continues processing without changing the system log file's HiRDB Datareplicator extraction-completed or extracting status.

O: Enter the `pdls -d rpl` command to determine whether or not HiRDB is writing data linkage information. If HiRDB is writing data linkage information, data can no longer be linked using HiRDB Datareplicator. Enter the `pdrplstop` command to terminate HiRDB Datareplicator linkage. Also, terminate both HiRDB Datareplicators at the data extraction source and target.

Action

To re-execute HiRDB Datareplicator linkage, the target database must be re-created.

Referring to the *HiRDB Datareplicator Version 8 Description, User's Guide and Operator's Guide*, return the HiRDB Datareplicator linkage to a state in which it can once again be restarted. Then, either enter the `pdrplstart` command or, after confirming that `pd_rpl_init_start=Y` is set in the system common definitions (`pdsys` under `PDCONFPATH`), start HiRDB normally, and then restart HiRDB Datareplicator.

**KFPS01234-I L**

No extract database in *aa...aa*.

Server *aa...aa* contains no database subject to data extraction by HiRDB Datareplicator. The system will no longer manage the system log file's extraction status (extraction-completed/extracting status) at this HiRDB server.

*aa...aa*: HiRDB server name

S: Continues system operation, removing the HiRDB Datareplicator

extraction-completed/extracting status in the system log file at this HiRDB server.

O: There is no problem if there is no database subject to data linkage at this HiRDB server. If the extraction system definition or extraction definition for HiRDB Datareplicator is invalid, data linkage cannot be continued. Execute the `pdrplstop` command to terminate HiRDB Datareplicator linkage. Also, terminate both HiRDB Datareplicators at the data extraction source and target.

#### Action

To re-execute HiRDB Datareplicator linkage, the target database must be re-created.

If a HiRDB Datareplicator extraction system definition or extraction definition is invalid, referring to the *HiRDB Datareplicator Version 8 Description, User's Guide and Operator's Guide*, correct the invalid definition, and return the HiRDB Datareplicator linkage to a state in which it can once again be restarted. Then, either enter the `pdrplstart` command or, after confirming that `pd_rpl_init_start=Y` is set in the system common definitions (`pdsys` under `PDCONFPATH`), start HiRDB normally, and then restart HiRDB Datareplicator.

#### **KFPS01235-E E+R+L**

Log file generation may be skipping between log file group *aa....aa* (*cc....cc*, *dd....dd*) and *bb....bb* (*ee....ee*, *ff....ff*)

The file group of the read system log files was switched from *aa....aa* to *bb....bb* by data extraction, but a system log file generation skipping error may have occurred during that time.

*aa....aa*: File group name of the previous system log file that was read

*bb....bb*: File group name of the system log file that was read

*cc....cc*: Run ID of *aa....aa* (hexadecimal)

*dd....dd*: Generation number of *aa....aa* (hexadecimal)

*ee....ee*: Run ID of *bb....bb* (hexadecimal)

*ff....ff*: Generation number of *bb....bb* (hexadecimal)

S: Continues processing.

O: A mismatch may have occurred between the extracted database and the target database. Use the `pdhold` command to put the extracted database in reference-possible backup hold status. Then, perform the target process up to the newest data and check for mismatches between the extracted database and the target database.

- If there are no mismatches

Resume updating of the extracted database. HiRDB Datareplicator linkage

can continue.

- If there are mismatches

You must synchronize, and then initialize the data linkage environment between the extracted database and the target database. For details about how to handle a mismatch between databases, see the *HiRDB Datareplicator Version 8 Description, User's Guide and Operator's Guide*.

If the unit stops during normal startup and this message is output when no disk error occurred in the system log file, no mismatches occur between the databases.

**KFPS01240-E L**

Element file *aa...aa* unable to be used as *bbb(xx...xx)* log file. file group: *cc...cc*, system A/B: *d*, reason code=*eee*

A file was found that cannot be used as a log file.

*aa...aa*: Name of the system log file where the error occurred

*bbb*: Type of log file:

*sys*: System log file

*xx...xx*: HiRDB server name

*cc...cc*: Name of log file group resulting in the error

*d*: File version:

a: A

b: B

*eee*: Reason code

The table below lists the reason codes and actions to be taken.

S: Releases this file and resumes processing.

O: Take action appropriate to the reason code, as listed below:

Reason code	Explanation	Operator's action	HiRDB Administrator's action
223	File is too small to collect the maximum amount of defined record data.	Obtain the estimated file size from the HiRDB administrator and determine whether or not the size is correct. If the file size is incorrect, re-create the file at the correct size.	Check the definition to determine whether or not the maximum record data length is correct. If it is incorrect, re-estimate the file size and change the definition. If the maximum record data length is correct, instruct the operator to re-create the file at the estimated size.

Reason code	Explanation	Operator's action	HiRDB Administrator's action
601	File failed to open.	Take appropriate action according to the KFPS01200-E or KFPS01203-E message that was output immediately before this message.	—
602	Management information in the file failed to be read.		
603	Management information is damaged in the file.	Initialize this file.	
604	System information in the file is not for the actual system that is being used; files of other system may be damaged.	Check with the HiRDB administrator as to whether the file can be used with this system. If the file can be used with this system, initialize it.	Check the file as to whether or not it is used with another system. If it is used with another system, change the definition so that this file will not be used with this system.
605	File configuration in the file is different from that of the current file configuration; the file configuration may have been changed.	Check with the HiRDB administrator as to whether or not the file configuration has been changed. If it has not been changed, initialize this file.	Check the definition and determine whether or not the log file group and element file using the corresponding file have been changed. If the file configuration has been changed, change it to the initial configuration in the definition.
606	File is the current file.	An error may have occurred in this file during the previous session. Unload the log information, then change the file status or initialize the file.	—
		If other than the above, contact the HiRDB administrator.	If a unit shuts down between the time that it is made primary and startup processing finishes, the header information might not be written correctly before close processing. If not performing recovery using the system log, use the <code>pdlogchg</code> command to change the status. If performing recovery using the system log, use the <code>pdlogunld</code> command to unload, and then use the <code>pdlogchg</code> command to change the status.

— : Not applicable

*Note*

Use the following procedure to initialize a file:

1. Delete the file with the `pdlogrm` command.
2. Re-create the file with the `pdloginit` command.

To change the file status, use the `pdlogchg` command; to unload log information, use the `pdlogunld` command.

**KFPS01250-I L**

*aaaa* (*xx...xx*) log file group *bb...bb* is not unloaded; unload.

Log file group *bb...bb* of *aaaa* (*xx...xx*) has not been unloaded. Or, log information has not been unloaded from this log file group; unload the log information (otherwise, this log file group cannot be swapped).

*aaaa*: Type of log file:

`sys`: System log file

*xx...xx*: HiRDB server name

*bb...bb*: Name of the log file group whose log information has not been unloaded

S: Resumes log service function startup.

O: Enter the `pdlogunld` command to unload the log information.

**KFPS01251-I L**

*aaaa* (*xx...xx*) log file group *bb...bb* is in invalid state; change file group state.

The status of log file group *bb...bb* of *aaaa*(*xx...xx*) is invalid. Correct the file group's status.

The status of this log file group is invalid, because an error occurred during the previous online session. Log information cannot be collected unless the status is changed. Either unload the log information or change the file group status.

*aaaa*: Type of log file:

`sys`: System log file

*xx...xx*: HiRDB server name

*bb...bb*: Name of the log file group on invalid status

S: Resumes log service function startup.

O: Either enter the `pdlogunld` command to unload the log information or enter the `pdlogchg` command to change the file group status.

**KFPS01252-I L**

*aaaa* (*bb...bb*) log file group *cc...cc* is not extracted; extract.

Extraction by HiRDB Datareplicator of *aaaa(bb...bb)* with log file group *cc...cc* has not been completed. Use HiRDB Datareplicator to extract the system log. This log file group cannot be subject to swapping unless system log extraction is completed.

*aaaa*: Type of log file:

*sys*: System log file

*bb...bb*: HiRDB server name

*cc...cc*: Name of log file group whose extraction by HiRDB Datareplicator has not been completed

S: Resumes processing.

O: If HiRDB Datareplicator is not active, start it and extract the system log.

**KFPS01253-I L**

*aaa(bb...bb)* log file group *cc...cc* not reflected by Online DB Reorganization; retry Online DB Reorganization or cancel Online DB Reorganization

The file group of the *aaa(bb...bb)* system log file did not terminate that online reorganization discrepancy application that was using the update log.

*aaa*: Type of log file:

*sys*: System log file

*bb...bb*: HiRDB server name

*cc...cc*: File group name of the system log file

S: Continues processing.

Action

Perform one of the following actions:

- Execute the `pdorend` command to continue online reorganization discrepancy application processing.
- Execute the `pdorbegin -u` or `pdorend -u` command to suspend updatable online reorganization.

**KFPS01255-W L**

Number of available file groups of *aaaa(xx...xx)* log is insufficient; open log file groups.

The number of log file groups for *aaaa(xx...xx)* is less than the required minimum. Open more log file groups.

If operation is continued, the destination of log information cannot be changed in the future, because the number of available log file groups is less than the required value. Open more log file groups immediately.

## 2. Messages

*aaaa*: Type of log file:

*sys*: System log file

*xx....xx*: HiRDB server name

S: Resumes processing.

O: Enter the `pdlogopen` command to open file groups.

### **KFPS01256-E L**

No standby file groups of *aaaa* (*xx....xx*) log are available.

There are no log file groups available for *aaaa* (*xx....xx*).

The current log file group cannot be selected, because there is no available log file group for the destination of log information.

*aaaa*: Type of log file:

*sys*: System log file

*xx....xx*: HiRDB server name

S: Outputs the KFPS01113-E message and cancels log service function startup processing.

O: Eliminate the cause of this error so that the current file group cannot be selected.

### **KFPS01257-E L**

Unable to restore current *aaa* (*xx....xx*) log file group.

For a transaction execution site, or if Real Time SAN Replication with the log-only synchronous method is not used, all files in use when the system was previously online are initialized, and the current log file group cannot be recovered.

For a log application site, all system log files are initialized, and log applications cannot be started.

*aaa*: Type of log file:

*sys*: System log file

*xx....xx*: HiRDB server name

S: Outputs a KFPS01113-E message, and stops HiRDB restart processing.

O: Take the following actions:

- For a transaction execution site, or if Real Time SAN Replication with the log-only synchronous method is not used  
Execute forced normal startup of HiRDB and recover the database.
- For a log application site



After completing the preparation for log application, start the log application site.

**KFPS01258-W L**

Unable to swap current *aaaa* (*xx....xx*) log file group for a standby file group because no standby is available; ignores "rerun swap" and continues processing.

Because there are no files that can be the target of a swap, the system log file represented by *aaaa* (*xx....xx*) is not swapped.

*aaaa*: Type of log file:

sys: System log file

*xx....xx*: HiRDB server name

S: Determine whether there are system log files in unload wait status. If so, unload them.

**KFPS01260-E L**

Log generation file for system recovery not found; stops recovery processing. type: *aaaa* (*xx....xx*)

Recovery processing was cancelled, because there was no log generation file subject to system recovery.

*aaaa*: Type of log file:

sys: System log file

*xx....xx*: HiRDB server name

S: Terminates the system.

Action

Refer to the KFPS01240-E message in order to check the cause of the error.

**KFPS01261-E L**

Error occurred while reading log blocks; stops recovery processing. type: *aaaa* (*xx....xx*)

Recovery processing was cancelled, because an error occurred while reading the log.

*aaaa*: Type of log file:

sys: System log file

*xx....xx*: HiRDB server name

S: Terminates the system.

Action

Refer to the following messages that are output immediately after this message to

check the cause of the error:

- KFPS01180-E
- KFPS01181-E
- KFPS01183-E
- KFPS01184-E

**KFPS01262-I L**

Log block reading started. type: *aaaa (xx...xx)*, read start point: *bb...bb, cc...cc, dd...dd*

Log read operation has started.

*aaaa*: Type of log file:

*sys*: System log file

*xx...xx*: HiRDB server name

*bb...bb*: First file group name that was read

*cc...cc*: First generation number that was read

*dd...dd*: First block number that was read

**KFPS01263-I L**

Log block reading completed. type: *aaaa (xx...xx)*, read end point: *bb...bb, cc...cc, dd...dd*

Log read operation is completed (log was read during system recovery).

*aaaa*: Type of log file:

*sys*: System log file

*xx...xx*: HiRDB server name

*bb...bb*: Last file group name that was read

*cc...cc*: Last generation number that was read

*dd...dd*: Last block number that was read

*Note*

If no log block was read, *\*\*\*\*\**, *\*\*\*\*\**, *\*\*\*\*\** is displayed for *bb...bb, cc...cc, dd...dd*.

**KFPS01264-E L**

Error occurred during inter-system adjustment for duplicated log files. type: *aaaa (xx...x)*

An error occurred during inter-system adjustment for dual log files at the time of HiRDB recovery.

When dual log files are used, an error occurs in the last location of the log between file versions A and B depending on the HiRDB termination timing. Inter-system adjustment is performed to adjust such an error during HiRDB restart.

*aaaa*: Type of log file:

*sys*: System log file

*xx....xx*: HiRDB server name

S: Resumes processing.

O: Check the cause of the error on the basis of the following messages:

- KFPS01202-E
- KFPS01203-E

**KFPS01265-I L**

Log block reading started for database recovery. type: *aaaa(bb....bb)*, read start point: *cc....cc, dd....dd, ee....ee*

Log read processing for database recovery has been started.

*aaaa*: Type of log file:

*sys*: System log file

*bb....bb*: HiRDB server name

*cc....cc*: Name of the first file group to be read

*dd....dd*: Number of the first generation to be read

*ee....ee*: Number of the first block to be read

S: Resumes processing.

**KFPS01266-I L**

Log block reading completed for database recovery. type: *aaaa(bb....bb)*, read end point: *cc....cc, dd....dd, ee....ee*

Log read processing for database recovery has been completed.

*aaaa*: Type of log file:

*sys*: System log file

*bb....bb*: HiRDB server name

*cc....cc*: Name of the last file group read

*dd....dd*: Number of the last generation read

*ee....ee*: Number of the last block read

*Note*

2. Messages

If no log block was read, **\*\* . . \*\*** is displayed for *bb...bb*, *cc...cc*, and *ee...ee*.

S: Resumes processing.

**KFPS01267-E E+L**

Error occurred while database recovery for *aaa(bb...bb)* . reason code= (*cc...cc*, *dd...dd*)

An error occurred in database recovery during restart, or in the preparation for log application processing.

*aaa*: Type of log file:

*sys*: System log file

*bb...bb*: HiRDB server name

*cc...cc*: Reason code

*dd...dd*: Maintenance information

S: Terminates abnormally.

O: See the following table and take action.

Action

Take action appropriate to the reason code listed below.

If a reason code not in the list is output, contact a customer engineer.

Reason code	Explanation	Operator's action	HiRDB Administrator's action
107	Error occurred during message queue processing.	Contact the HiRDB administrator.	Contact a customer engineer.
114	Error was detected during message queue processing.	Run again.	If the error recurs, contact a customer engineer.
209	I/O error occurred in the log file being input.	Contact the HiRDB administrator.	If this reason code is output, or a KFPS01203-E message was output before this message, investigate the cause.
213	A closed file was found in the log file being input.		
214	A shutdown file was found in the log file being input.		
215	A file that cannot be input was found in the log file being input.		

Reason code	Explanation	Operator's action	HiRDB Administrator's action
550	After a transaction execution site terminated with a status other than normal, it was started using the <code>pdstart dbdestroy</code> command or the <code>pdstart -i</code> command, so the integrity of the log application site database cannot be guaranteed.	Contact the HiRDB administrator.	<p>For a transaction execution site, or if Real Time SAN Replication with the log-only synchronous method is not used:</p> <p>Collect the following data, and contact a customer engineer:</p> <ul style="list-style-type: none"> <li>• HiRDB system definition file</li> <li>• Files under <code>%PDDIR%\spool</code></li> <li>• Event log (in UNIX, syslogfile)</li> </ul> <p>For a log application site: After executing preparation for log application, restart the log application site.</p>
711	A log file generation was skipped.	Check the log file definition to make sure that changes were made correctly.	<p>If there is no error in the log file definition, collect the following data, and contact a customer engineer:</p> <ul style="list-style-type: none"> <li>• HiRDB system definition file</li> <li>• Files under <code>%PDDIR%\spool</code></li> <li>• System log file of the relevant HiRDB server, or system log file backup file (collected using the <code>pdfbkup</code> command)</li> <li>• Status file of the relevant HiRDB server, or status file backup file (collected using the <code>pdfbkup</code> command)</li> <li>• Event log (in UNIX, syslogfile)</li> </ul>

2. Messages

Reason code	Explanation	Operator's action	HiRDB Administrator's action
1001	No log file exists at the input start position.	Contact the HiRDB administrator.	<p>If Real Time SAN Replication with the log-only synchronous method is not used, or for a transaction execution site when Real Time SAN Replication with the log-only synchronous method is used:</p> <p>Determine whether the log file definition was mistakenly changed. Also, confirm that the system log file was not initialized. If the system log file was initialized and HiRDB cannot be restarted, see the section on measures to be taken when HiRDB cannot be restarted due to an error in the current file of both systems in the manual <i>HiRDB Version 8 System Operation Guide</i>.</p> <p>If the above actions cannot resolve the problem, collect the following data, and contact a customer engineer:</p> <ul style="list-style-type: none"> <li>• HiRDB system definition file</li> <li>• Files under %PDDIR%\spool</li> <li>• System log file of the relevant HiRDB server, or system log file backup file (collected using the pdfbkup command)</li> <li>• Status file of the relevant HiRDB server, or status file backup file (collected using the pdfbkup command)</li> <li>• Event log (in UNIX, syslogfile)</li> </ul> <p>For a log application site: After executing preparation for log application, restart the log application site.</p>

Reason code	Explanation	Operator's action	HiRDB Administrator's action
1602	An invalid log block was detected.	Contact the HiRDB administrator.	<p>If Real Time SAN Replication with the log-only synchronous method is not used, or for a transaction execution site when Real Time SAN Replication with the log-only synchronous method is used:</p> <p>The log file may be corrupt. Use the following procedure for recovery:</p> <ol style="list-style-type: none"> <li>1. Collect the following data, and contact a customer engineer: <ul style="list-style-type: none"> <li>• HiRDB system definition file</li> <li>• Files under %PDDIR%\spool</li> <li>• System log file of the relevant HiRDB server, or system log file backup file (collected using the <code>pdfbkup</code> command)</li> <li>• Status file of the relevant HiRDB server, or status file backup file (collected using the <code>pdfbkup</code> command)</li> <li>• Event log (in UNIX, syslogfile)</li> </ul> </li> <li>2. Recover the database using a method other than restart, and start HiRDB.</li> </ol> <p>For a log application site: After executing preparation for log application, restart the log application site.</p>
1610	A missing log block was detected.		

**KFPS01268-E L**

Invalid log data detected while reading log. type: *aa....aa (bb....bb)* , read point: *cc....cc, dd....dd*.

Invalid log data was detected while loading a system log.

*aa....aa*: File type:

sys: System log file

## 2. Messages

*bb...bb*: HiRDB server name

*cc...cc*: File group name of the system log file in which the invalid data was detected

*dd...dd*: Block number of the system log that was to be loaded

S: Terminates processing.

### Action

The action to be taken differs depending on the abort code output before or after this message.

- When `Psjnr38` is output

Take the action recommended when `Psjnr38` is output.

- When `Psjnr38` is not output

Save the files and system log files under `%PDDIR%\spool` and contact a customer engineer.

### **KFPS01269-I L**

Reading log block. type:*aaaa(bb...bb)*, reading point:*cc...cc, dd...dd, ee...ee*

Reports the system log file being loaded during a HiRDB restart.

*aaaa*: File type:

*sys*: System log file

*bb...bb*: HiRDB server name

*cc...cc*: File group name of the system log file being loaded

*dd...dd*: Generation number of the system log being loaded

*ee...ee*: Block number of the system log being loaded

S: Continues processing.

### **KFPS01270-E E+L**

Unable to use log file due to I/O error. element file: *aa...aa*, system A/B: *b*

A log file cannot be used due to an I/O error.

*aaaa*: Name of the system log file where the error occurred

*b*: Erroneous file version:

a: A

b: B

S: Resumes processing.



O: Eliminate the cause of the error and reenter the command.

Action

Refer to the message that was output immediately before this message to check the cause of the error, and correct the error.

**KFPS01271-I E+L**

Unloading completed. generation number=*aa...aa*, start block number=*bb...bb*, end block number=*cc...cc*

Unload processing is completed. Displays the range of unloaded block numbers.

*aa...aa*: Generation number of the log file group from which log was unloaded

*bb...bb*: First block number unloaded

*cc...cc*: Last block number unloaded

Note

If no log block was unloaded, **\*\*\*\*\*** is displayed for *cc...cc*.

**KFPS01272-E E+L**

Unable to unload log file. element file: *aa...aa*, system A/B: *b*, reason code=*cccc-dd*

An attempt was made to unload a file group containing a system log file that cannot be unloaded.

*aa...aa*: Name of the system log file where the error occurred

*b*: Erroneous file version:

a: A

b: B

*cccc*: Reason code

*dd*: HiRDB internal code

S: Resumes processing.

O: Take action appropriate to the reason code, as listed below.

Action

Take action appropriate to the reason code, as listed below:

Reason code	Explanation	Operator's action	HiRDB Administrator's action
220	This file is not the system log file.	—	Re-evaluate the system log file names in the file group.

2. Messages

Reason code	Explanation	Operator's action	HiRDB Administrator's action
603	The management information in the file is corrupted.	Suspend unloading of the applicable file group, and then disconnect from HiRDB.	—
605	The configurations of the file and the definition file are different.	—	Check if the definition related to the system log file was changed.
1603	The system log file is in unload completed status.	Re-evaluate the file group name specified in the command.	
1607	The system log file is not used by HiRDB.		—

— : Not applicable

**KFPS01273-E E+L**

Unable to change log file status. element file: *aa...aa*, system A/  
B: *b*, reason code=*cccc-dd*

Cannot change the status of some system log files in the target file group.

*aa...aa*: Name of the system log file where the error occurred

*b*: Erroneous file version:

a: A

b: B

*cccc*: Reason code (the table below lists the reason codes and actions to be taken)

*dd*: HiRDB internal code

S: Resumes processing.

O: Take action appropriate to the reason code, as listed below.

Action

Take action appropriate to the reason code, as listed below:

Reason code	Explanation	Operator's action	HiRDB Administrator's action
220	This file is not the system log file.	—	Re-evaluate the system log file names in the file group.

Reason code	Explanation	Operator's action	HiRDB Administrator's action
603	The management information in the file is corrupted.	Suspend unloading of the applicable file group, and then disconnect from HiRDB.	—
605	The configurations of the file and the definition file are different.	—	Check if the definition related to the system log file was changed.
1603	The system log file is in unload completed status.	Re-evaluate the file group name specified in the command.	—
1607	The system log file is not used by HiRDB.		

—: Not applicable

#### KFPS01274-E E+L

Failure to open log element file. element file: *aa...aa*, system A/  
B: *b*, reason code=*cccc-dd*

Failed to open the system log file.

*aa...aa*: System log file name

*b*: Erroneous file version:

a: A

b: B

*cccc*: Reason code

*dd*: HiRDB internal code

S: Resumes processing.

O: Take action appropriate to the reason code, as listed below.

Action

Take action appropriate to the reason code, as listed below:

Reason code	Explanation	Operator's action	HiRDB Administrator's action
101	Memory shortage occurred.	Re-execute the command after the current process has terminated.	Re-estimate the memory size.

2. Messages

Reason code	Explanation	Operator's action	HiRDB Administrator's action
201	File name is invalid.	Consider the following causes: <ul style="list-style-type: none"> <li>An invalid character was specified in the path name.</li> <li>The length of the HiRDB file name exceeds the maximum (30 characters).</li> </ul> Specify the file name correctly and re-execute the command.	—
202	HiRDB file system area name specified in the path is not an HiRDB file system area.	Check the HiRDB file system name specified in the path and re-execute the command.	Re-evaluate the specification of the pdlogadpf operand file.
203	The device specified in the path has not been initialized for the HiRDB file system.	—	—
207	Maximum value was exceeded when the HiRDB file system area specified in the path was opened.	—	—
208	User does not have access privilege for the HiRDB file system area specified in the path.	Check the access privilege for the HiRDB file with the pdfls command.	Re-evaluate the specification of the pdlogadpf operand file.
209	I/O error occurred.	Check the cause of the I/O error and take appropriate action.	—
210	HiRDB file system versions do not match.	—	Re-evaluate the specification of the pdlogadpf operand file.
211	There is no access privilege for the specified file.	Check the access privilege for the log file with the pdfls command.	—
212	Specified file was not found.	—	Re-evaluate the specification of the pdlogadpf operand file.
221	Lock segment shortage occurred.	—	Re-evaluate the number of record lock segments specified during construction of the OS system.

Reason code	Explanation	Operator's action	HiRDB Administrator's action
222	The applicable system log file is being used by another process.	Check the run status of the applicable system log file or the file group to which the file belongs, and then re-execute the command.	—

—: Not applicable

#### **KFPS01275-E E+L**

Minor error occurred while analyzing definitions for log service. file being analyzed: *aaaaaaaa*, record number=*bbbbbbbbbb*, reason code=*cccc*

A minor error occurred while analyzing the log file-related definitions.

*aaaaaaaa*: Name of definition file being analyzed

*bbbbbbbbbb*: Record number resulting in the error

*cccc*: Reason code indicating the nature of the error (the table below lists the reason codes and actions to be taken)

S: Resumes processing the log service function command.

#### Action

Check the log service function-related definitions.

## 2. Messages

Reason code	Explanation	Action
409	One of the following errors was found in the specification of the <code>-g</code> option with the <code>pdlogadpf</code> operand: <ul style="list-style-type: none"> <li>The <code>-g</code> option was not specified</li> <li>The length of the system log file group name is incorrect</li> </ul>	Correct the specification of the <code>pdlogadpf</code> operand, and then re-execute the command.
410	More than one <code>pdlogadpf</code> operand specified the same file group name.	
411	One of the following errors was found in the specification of the <code>-a</code> option with the <code>pdlogadpf</code> operand: <ul style="list-style-type: none"> <li>The <code>-a</code> option was not specified</li> <li>The file name was not specified</li> </ul>	
412	One of the following errors was found in the specification of the <code>-b</code> option with the <code>pdlogadpf</code> operand: <ul style="list-style-type: none"> <li>The <code>-b</code> option was not specified when duplexing</li> <li>The file name was not specified</li> </ul>	
422	An error was found in the specification of the <code>-d</code> option with the <code>pdlogadfg</code> operand, or the <code>-d</code> option was not specified.	
423	An error was found in the specification of the <code>-d</code> option with the <code>pdlogadpf</code> operand, or the <code>-d</code> option was not specified.	Stop the system if necessary, and then correct the definition content and restart.

### **KFPS01277-E L**

Log point information is invalid. info=aaaa

Invalid log point information was detected.

aaaa: System maintenance information

S: Resumes processing.

O: Check the items shown below and take appropriate action:

1. Check that the correct backup file is specified in the `pdrstr` command; if it is not the correct file, specify the correct file name and re-execute the command.
2. Refer to both the log point information file that was re-created from the backup file with the `pdrstr` command and the execution result of the `pdlogls` command, check whether the log file recorded in the log point information file exists, and report the result to the administrator.

**Action**

Check the items shown below and take appropriate action:

1. If the log file recorded in the log point information file does not exist, check whether the log file specification in the server definitions was manipulated. If the log file that was used was removed from the definitions after that backup was made, add the file and re-execute the command.

If the above log file was deleted or the log file recorded in the log point information file was overwritten, the database cannot be recovered by specifying `-L` in the `pdrstr` command.

2. If neither of the above applies, contact a customer engineer.

**KFPS01278-W L**

Failure to processing log file group. type: *aaa(bb...bb)*, file group: *cc...cc*, reason code=*dddd-ee*

The *cc...cc* log file group, which is used by the *bb...bb* server, cannot be processed because status referencing has been disabled due to *dddd*.

*aaa*: Log type (*sys* or *lar*)

*bb...bb*: HiRDB server name

*cc...cc*: Name of file group

*dddd*: Reason code:

- 209: I/O error occurred in log file.
- 213: Open error occurred in log file.
- 215: Input is disabled for log file.
- 222: Another process is using this file group.
- 1601: Target log file does not exist.

*ee*: System maintenance information

S: Resumes processing and does not process the log file group.

O: If the log file is not being used, no problem exists.

- During `pdrstr` (database recovery utility) execution:

If the log file was being used from the time the backup was made to the current time, the database may not be recovered correctly.

If the KFP01279-W message was output, consider the message contents, contact the administrator, take appropriate action, then re-execute the command.

- During `pdlogchg` (log file status change command) execution:

When the reason code is 222:

The memory status does not match the status of the system log file itself for the log file group. Close the log file group with the `pdlogcls` command and then reopen it with the `pdlogopen` command.

For all other reason codes:

Take appropriate action for the reason code and then re-execute the command. If the KFPS01279-W message is output, correct the error that is reported by that message and then re-execute the command.

#### Action

If the log file is not needed for execution of the `pdrstr` or `pdlogchg` command, no problem exists. If the log file is needed for execution of the above commands, check the items shown below and take appropriate action.

1. If an error occurred in the log file group or the log file group was initialized after being used online, recover the log file if it is recoverable, then re-execute the command.
2. Check that the log file description in the server definition is correct, correct any errors, then re-execute the command.
3. If reason code 222 is output after the `pdlogchg -z` command is executed while HiRDB is active, the log file cannot be reused. Close the log file and then reopen it.
4. If neither of the above applies, contact a customer engineer.

#### **KFPS01279-W L**

Unable to use log file. element file: *aa...aa*, system A/B: *b*, reason code=*ccc-dd*

The file status of the *aa...aa* log file cannot be referenced because of the reason indicated by *cccc*. The log file cannot be processed.

*aa...aa*: Name of log file

*b*: System in which the error occurred (a or b)

*ccc*: Reason code

*dd*: System maintenance information

S: Resumes processing and does not process the log file.

O: If the log file is not being used, no problem exists. If the KFPS01278-W message is not output for the file group of the log file, no problem exists. If neither of the above applies, determine the cause of the error from the reason code and contact the



administrator.

### Action

If the log file is not needed for execution of the `pdprstr` or `pdlogchg` command, no problem exists. If the log file is needed for execution of the above commands, check the cause from the reason code, recover the file from the information displayed in the KFPS01278-W message, then re-execute the command.

Following are the reason codes:

Reason code	Explanation	Operator's action	HiRDB Administrator's action
101	Memory shortage occurred.	Re-execute the command after the current process has terminated.	Re-estimate the memory.
201	File name is invalid.	Consider the following causes: <ul style="list-style-type: none"> <li>An invalid character was specified in the path name.</li> <li>The length of the HiRDB file name exceeds the maximum (30 characters).</li> </ul> Specify the file name correctly and re-execute the command.	—
202	HiRDB file system area name specified in the path is not an HiRDB file system area.	Check the HiRDB file system name specified in the path and re-execute the command.	Re-evaluate the file specification of the <code>pdlogadpf</code> operand.
203	The device specified in the path has not been initialized for the HiRDB file system.	—	—
207	Maximum value was exceeded when the HiRDB file system area specified in the path was opened.	—	—
208	User does not have access privilege for the HiRDB file system area specified in the path.	Check the access privilege for the HiRDB file with the <code>pdfls</code> command.	Re-evaluate the file specification of the <code>pdlogadpf</code> operand.
209	I/O error occurred.	Determine the cause of the I/O error and take appropriate action.	—
210	HiRDB file system versions do not match.	—	Re-evaluate the file specification of the <code>pdlogadpf</code> operand.

2. Messages

Reason code	Explanation	Operator's action	HiRDB Administrator's action
211	User does not have access privilege for the specified file.	Check the access privilege for the log file with the <code>pdfls</code> command.	—
212	Specified file was not found.	—	Re-evaluate the file specification of the <code>pdlogadpf</code> operand.
221	Lock segment shortage occurred.	—	Re-evaluate the number of record lock segments specified during startup of the OS system.
222	The applicable system log file is being used by another process.	Check the run status of the applicable system log file or the file group it belongs to, and then re-execute the command.	—
603	The maintenance information in the file is corrupted.	Initialize this file.	—
605	The file configuration of the file does not match the current file. The file configuration may have been changed.	Check with the HiRDB administrator as to whether or not the file configuration has been changed. If it has not been changed, initialize this file.	Check the definition and determine whether or not the log file group and element file using the corresponding file have been changed. If the file configuration has been changed, change it to the initial configuration in the definition.
1067	The file is not used by HiRDB.	Check the corresponding file group.	—

— : Not applicable

**KFPS01280-E E**

Unable to execute *aa....aa* command due to *bbbb-cc*

Cannot execute the *aa....aa* command.

*aa....aa*: Command name that could not be executed

*bbbb*: Reason code

*cc*: HiRDB internal code

S: Terminates command execution.

O: Take action appropriate to the reason code and re-execute the command, if necessary.

## Action

Take action appropriate to the reason code, as listed below:

Reason code	Explanation	Operator's action	HiRDB Administrator's action
101	Memory shortage occurred.	<p>Re-execute the command after the current process has terminated (if a system call message has been issued immediately before this message, take action appropriate to that message). If one of the following commands was executed while HiRDB was active, also take the action called for:</p> <ul style="list-style-type: none"> <li>• <code>pdlogchg</code> command Mismatch between the memory status and the system log file's status may have occurred. Close the file group with the <code>pdlogcls</code> command and then reopen it with the <code>pdlogopen</code> command. If the file group is on unload wait status at this point, re-execute the <code>pdlogchg</code> command.</li> <li>• <code>pdlogunld</code> command If the KFPS01271-I message is output immediately after this reason code, the unload log file has been created normally. However, a mismatch between the memory status and the system log file's status has occurred. Close the file group with the <code>pdlogcls</code> command and then reopen it with the <code>pdlogopen</code> command. If the KFPS01271-I message is not output, re-execute the <code>pdlogunld</code> command.</li> </ul>	Re-estimate the memory.
102	The shared memory library service function cannot be provided, because the number of shared memory segments attached to the read process would exceed the permitted maximum.	If a system call message has been issued immediately before this message, take action appropriate to that message.	Re-estimate the shared memory.

2. Messages

Reason code	Explanation	Operator's action	HiRDB Administrator's action
103	<p>Network error occurred; possible causes are as follows:</p> <ul style="list-style-type: none"> <li>• Error in hardware, such as Ethernet board or cable</li> <li>• Invalid network definition</li> <li>• Target process is not executing</li> </ul>	<p>Check the cause of the error using the procedure described below and take appropriate action:</p> <ol style="list-style-type: none"> <li>1. Check the server machine connection status with the applicable OS command.</li> <li>2. Check the execution status of each server with the applicable HiRDB command.</li> </ol> <p>If one of the following commands was executed while HiRDB was active, also take the action called for:</p> <ul style="list-style-type: none"> <li>• <code>pdlogchg</code> command A mismatch between the memory status and the system log file's status may have occurred. Close the file group with the <code>pdlogcls</code> command and then reopen it with the <code>pdlogopen</code> command. If the file group is on unload wait status at this point, re-execute the <code>pdlogchg</code> command.</li> <li>• <code>pdlogunld</code> command If the KFPS01271-I message is output immediately after this reason code, the unload log file has been created normally. However, a mismatch between the memory status and the system log file's status has occurred. Close the file group with the <code>pdlogcls</code> command and then reopen it with the <code>pdlogopen</code> command. If the KFPS01271-I message is not output, re-execute the <code>pdlogunld</code> command.</li> </ul>	Re-estimate the shared memory.

Reason code	Explanation	Operator's action	HiRDB Administrator's action
104	The log service function is not online, or required information in the shared memory cannot be referenced.	<p>Use the <code>pdls</code> command to examine the status information of the corresponding unit and server, and, after it is running, re-execute the command. If the standby-less system switchover (effects distributed) facility is being used, take the following actions:</p> <ul style="list-style-type: none"> <li>• If the unit where the system manager resides is running The corresponding server might be temporarily stopped due to a system switchover. Use the <code>pdls</code> command to examine the server status information, and, after it is running, re-execute the command.</li> <li>• If the unit where the system manager resides is stopped <ul style="list-style-type: none"> <li>(a) If executed with the <code>-u</code> option specified The corresponding server is not running on the unit specified in the <code>-u</code> option. Use the <code>pdls</code> command to investigate the unit that the server is running on, and specify the unit identifier of the unit in the <code>-u</code> option.</li> <li>(b) If executed without the <code>-u</code> option specified The corresponding server is not running on a regular unit. Use the <code>pdls</code> command to investigate the unit that the server is running on, and specify the unit identifier of the unit in the <code>-u</code> option.</li> </ul> </li> </ul>	—

## 2. Messages

Reason code	Explanation	Operator's action	HiRDB Administrator's action
105	Timeout was detected during command execution.	<p>If the corresponding HiRDB unit is not online, wait until it is placed online and re-execute the command.</p> <p>If the corresponding HiRDB unit is already online and a reason code is displayed by executing the <code>pdlogswap</code> command with the <code>-w</code> option specified, check for any transaction that has been executing for a long time.</p> <ol style="list-style-type: none"> <li>If there is a transaction that has been executing for a long time: <ol style="list-style-type: none"> <li>If the transaction cannot be cancelled: <ul style="list-style-type: none"> <li>Wait until the transaction has terminated, make sure that the synchronization point dump can be validated, then re-execute the <code>pdlogswap</code> command.</li> <li>Re-execute the <code>pdlogswap</code> command with a sufficiently large value specified in the <code>-t</code> option so that validation of the synchronization point dump can be delayed until the current transaction has terminated.</li> </ul> </li> <li>If the transaction can be cancelled: <ul style="list-style-type: none"> <li>Cancel the transaction and re-execute the <code>pdlogswap</code> command.</li> </ul> </li> </ol> </li> <li>If there is no transaction that has been executing for a long time: <ul style="list-style-type: none"> <li>Re-execute the <code>pdlogswap</code> command.</li> </ul> </li> </ol>	—
106	Shared memory cannot be used.	Take action appropriate to the system call error message that was output immediately before this message.	—
107	System call error occurred.	Refer to the system call error message that was output immediately before this message to check the cause of the error.	—
108	Specified option is invalid for non-dual log file.	Specify only those options permitted for non-dual log file and re-execute the command.	—
110	Command specification is not valid in the execution environment of the target system.	Check the option specified with <code>-d</code> . Or, check the execution environment of the target system.	—

Reason code	Explanation	Operator's action	HiRDB Administrator's action
116	The <code>pdlogswap</code> command with the <code>-w</code> option specified cannot be executed because the system is waiting for validation of a synchronization point dump for the previous <code>pdlogswap</code> command that was executed with the <code>-w</code> option specified.	<p>Check for any transaction that has been executing for a long time.</p> <ol style="list-style-type: none"> <li>1. If there is a transaction that has been executing for a long time:               <ol style="list-style-type: none"> <li>(a) If the transaction cannot be cancelled:                   <ul style="list-style-type: none"> <li>• Wait until the transaction has terminated, make sure that the synchronization point dump can be validated, then re-execute the <code>pdlogswap</code> command.</li> <li>• Re-execute the <code>pdlogswap</code> command with a sufficiently large value specified in the <code>-t</code> option so that validation of the synchronization point dump can be delayed until the current transaction has terminated</li> </ul> </li> <li>(b) If the transaction can be cancelled:                   <ul style="list-style-type: none"> <li>• Cancel the transaction and re-execute the <code>pdlogswap</code> command.</li> </ul> </li> </ol> </li> <li>2. If there is no transaction executing for a long time:               <ul style="list-style-type: none"> <li>• Re-execute the <code>pdlogswap</code> command.</li> </ul> </li> </ol>	—
201	File name is invalid.	<p>Consider the following causes:</p> <ul style="list-style-type: none"> <li>• An invalid character was specified in the path name.</li> <li>• The length of the HiRDB file name exceeds the maximum (30 characters).</li> </ul> <p>Specify the correct file name and re-execute the command.</p>	—
202	<p>In UNIX: The specified file name is not a character special file. Or, there is no device that corresponds to this character special file.</p> <p>In Windows: The specified file name is not a direct disk; or there is no device that corresponds to this direct disk.</p>	Revise the specified file name, and re-execute the command.	—
203	The specified device has not been initialized for the HiRDB file system.	Check the file name. If the file name is correct, initialize the device for the HiRDB file system.	—

## 2. Messages

Reason code	Explanation	Operator's action	HiRDB Administrator's action
204	Specified file already exists.	Check the file name. If the file name is correct, delete the file with the <code>pdlogrm</code> command and re-execute the <code>pdloginit</code> command.	—
205	Area necessary for file creation cannot be allocated.	Use a different device to create the file. Or, delete any unneeded file or back up the file, re-create the HiRDB file with the <code>pdfmkfs</code> command, restore the file, then create the file.	Re-estimate the file size.
206	Maximum number of files specified during file system initialization was exceeded.		
207	In UNIX, the number of character special files that can be opened has been exceeded. In Windows, the number of direct disks that can be opened has been exceeded.	—	
208	In UNIX, there is no access privilege for the specified character special files. In Windows, there is no access privilege for the specified direct disks.	Check the access privilege with the <code>pdfls</code> command.	
209	I/O error occurred while accessing a log file in the HiRDB file system.	Investigate the cause of the I/O error and take appropriate action. If the <code>pdloginit</code> command could not be executed, create the HiRDB file system area on a different disk device or partition from the one where the I/O error occurred, and re-execute the command.	—
210	HiRDB file system versions do not match.	Re-create the HiRDB file system.	—
211	There is no access privilege for the specified file.	Check the access privilege with the <code>pdfls</code> command.	—
212	Specified file was not found.	Specify the correct file name and re-execute the command.	—



Reason code	Explanation	Operator's action	HiRDB Administrator's action
216	Specified file is not a log file or synchronization point dump file.		—
217	Specified file is not an unload log file.		—
221	Lock segment shortage occurred.	—	Re-evaluate the number of record lock segments specified during construction of the OS system.
222	Attempt was made to use a log file, but it was being used by another process.	<p>Check if the file specified in the command is being used by another process. Re-execute the command, if necessary. If one of the following commands was executed while HiRDB was active, also take the action called for:</p> <ul style="list-style-type: none"> <li>• <code>pdlogopen</code>, <code>pdlogcls</code>, or <code>pdlogswap</code> command Re-execute the command.</li> <li>• <code>pdlogchg</code> command A mismatch between the memory status and the system log file's state may have occurred. Close the file group with the <code>pdlogcls</code> command and then reopen it with the <code>pdlogopen</code> command. If the file group is on unload wait status at this point, re-execute the <code>pdlogchg</code> command.</li> <li>• <code>pdlogunld</code> command If the KFPS01271-I message is output immediately after this reason code, the unload log file has been created normally. However, a mismatch between the memory status and the system log file's status has occurred. Close the file group with the <code>pdlogcls</code> command and then reopen it with the <code>pdlogopen</code> command. If the KFPS01271-I message is not output, re-execute the <code>pdlogunld</code> command.</li> </ul>	—
224	Specified file is on unload wait status.	Check the file name. If the file name is correct, either place the file on unloaded status with the <code>pdlogunld</code> or <code>pdlogchg</code> command or re-execute <code>pdlogrm</code> specifying the <code>-u</code> option.	—

## 2. Messages

Reason code	Explanation	Operator's action	HiRDB Administrator's action
225	Attempt made to create a file in an HiRDB file system area that is not for system files.	Check the usage of the HiRDB file system area by specifying the HiRDB file system area name in the <code>pdstatfs</code> command, and create the file in an HiRDB file system area for system files.	—
227	Specified file is on extracting status.	Check the file name. If the file name is correct, either use the <code>pdlogchg</code> command to place the file on extraction-completed status or re-execute the <code>pdlogrm</code> command with the <code>-u</code> option specified.	—
228	The specified file is in the overwriting denied status for online reorganization.	Re-evaluate the file name. If the file name is correct, use the <code>pdlogchg</code> command to put the file in the overwriting permitted status for online reorganization, or execute the <code>pdlogrm -u</code> command.	—
301	Specified file already exists.	Use an operating system command to re-execute the command with the correct file name.	—
302	Specified file is a directory.		
303	Error occurred while opening an unload log file.	Refer to the open system call error message that was output immediately before to check the cause of the error.	—
304	Error occurred while closing an unload log file.	Refer to the close system call error message that was output immediately before to check the cause of the error.	—
305	Error occurred while accessing an unload log file.	Refer to the write system call error message that was output immediately before to check the cause of the error.	—
306	Error occurred in an unload log file created in a HiRDB file system area.	Check the cause of the error based on the preceding KFPS01300-E message.	—
307	Error occurred while reading an unload log file.	Investigate the error on the basis of the error message for the <code>read</code> system call output immediately before.	—
403	Definition file open error occurred.	Refer to the definition file open error message that was output immediately before to check the cause of the error.	—

Reason code	Explanation	Operator's action	HiRDB Administrator's action
404	Analysis file open error occurred.	Refer to the analysis file open error message that was output immediately before to check the cause of the error.	—
405	Error was detected during definition analysis processing.	Check the cause of the error on the basis of the analysis error message that was output immediately before.	—
410	A duplication error was detected in the file group name of the system log file during definition analysis processing.	Check if the file group name specified in the <code>-g</code> option of the <code>pdlogadpf</code> operand was duplicated.	—
413	A limit error was detected in the file group count of the system log file during definition analysis processing.	Check if the <code>pdlogadpf</code> operand number exceeds the limit of the file group count for system log files.	—
414	Number of valid log file group definitions is less than the minimum number of generations necessary to start the system. A valid log file group definition is an error-free <code>pdlogadfg</code> operand for which <code>ONL</code> is specified.	Revise the <code>pdlogadfg</code> operand for the corresponding HiRDB server definition and restart the system.	—
417	An error was detected during definition analysis processing.	Find the error cause based on the analysis error message output immediately before this message.	—
701	File group was not found.	Check the status of the file group with the <code>pdlogls</code> command and re-execute the command, if necessary. If a definition file analysis error has been output immediately before this message, refer to that message to check the cause of the error.	—
702	A file group failed to open.	Refer to the KFPS01200-E or KFPS01201-E message that was output to the log file to check the cause of the error, and take an appropriate action.	—
703	A file group failed to close.		

## 2. Messages

Reason code	Explanation	Operator's action	HiRDB Administrator's action
704	Specified file group has already been opened.	Check the status of the file group with the <code>pdlogls</code> command, specify the correct file group name, then re-execute the command.	—
705	Specified file group has already been closed.		
706	Specified file group cannot be closed.		
707	Specified file group is being used for system recovery processing or by the <code>pdlogunld</code> or <code>pdlogchg</code> command.	Check the status of the file group with the <code>pdlogls</code> command, specify the correct file group name, then re-execute the command.	—
708	Specified file group cannot be closed, because there would be no overwritable file group if it is closed.	—	—
709	File open processing was cancelled, because the same generation of the file group already exists.	Delete the physical files comprising the corresponding file group with the <code>pdlogrm</code> command and re-create the physical file with the <code>pdloginit</code> command	—
710	Specified file group is the current file group.	Check the status of the file group with the <code>pdlogls</code> command and re-execute the command, if necessary.	—
712	The system log file could not be closed because the percentage of free system log files was less than the warning value.	Increase the percentage of free system log files, and then re-execute the <code>pdlogcls</code> command. For details about the free space percentage for system log files, see the <i>HiRDB Version 8 System Operation Guide</i> .	—
1101	An attempt to open the target file failed.	Follow the instructions in the KFPS01240-E message.	—
1301	Specified resource group name was not found.	Check the resource group name with the <code>pdlogls</code> command.	—
1601	There is no log file that can be unloaded or whose status can be changed.	Check the specified file group name.	—

Reason code	Explanation	Operator's action	HiRDB Administrator's action
1602	Missing block was detected in a log file.	The log file may have been damaged. Cancel unloading of the corresponding file group and contact the HiRDB administrator.	The system log file cannot be unloaded. Acquire a backup so that the database can be recovered without using the unload log of that system log file. Also, to help with investigating the cause, acquire the system log file for which the unload failed, and contact a customer engineer.
1603	Specified file group has already been unloaded.	Check the specified file group name. If the specified file group is correct and the <code>pdlogls</code> command indicates that this file group is waiting to be unloaded, the previously entered <code>pdlogunld</code> or <code>pdlogchg</code> command may have caused an error that prevented the status from being updated in memory (the unload processing itself was successful). In such a case, close the affected file group with the <code>pdlogcls</code> command, then reopen the file group with the <code>pdlogopen</code> command to correct the status mismatch.	—
1604	Specified <code>-n</code> option value in the <code>pdloginit</code> command is outside the range 12 to 2097152.	Specify a value in the <code>-n</code> option in the range 12 to 2097152 and re-execute the <code>pdloginit</code> command.	—

## 2. Messages

Reason code	Explanation	Operator's action	HiRDB Administrator's action
1606	<p>During the execution of the command, HiRDB assumed one of the following states:</p> <ul style="list-style-type: none"> <li>• HiRDB starting processing</li> <li>• HiRDB terminating processing</li> <li>• HiRDB running</li> </ul> <p>This command is terminated to protect the system log file.</p>	—	<p>Use the <code>pdls -d svr</code> command to check the operating status of HiRDB. If HiRDB is shut down, re-execute the <code>pdlogchg</code> or <code>pdlogunld</code> command.</p> <p>If this message is output during the execution of the <code>pdlogunld</code> command, any unload log file that was created cannot be used for database recovery.</p>
1607	<p>The specification <code>pd_log_unload_check=N</code> is specified and HiRDB is operating; the status of the file group cannot be changed.</p>	—	<p>Specify the <code>-R</code> option in the <code>pdlogchg</code> command; specify the <code>-f</code> option in the <code>pdlogunld</code> command.</p>
1609	<p>Specified file group is in extraction-completed status.</p>	<p>Check the name of the specified file group. If the specified file group is correct and the <code>pdlogls</code> command displays that this file group is on extracting status, an error may have occurred during the previous <code>pdlogchg</code> command execution that makes it impossible to update the status in memory. In such a case, this conflict can be resolved by closing the corresponding file group with the <code>pdlogcls</code> command and then reopening it with the <code>pdlogopen</code> command.</p>	—
1612	<p>The value specified in the <code>-l</code> option of the <code>pdloginit</code> command is out of the 1024 to 4096 range.</p>	<p>Change the value specified in the <code>-l</code> option to fall within the 1024 to 4096 range and re-execute the <code>pdloginit</code> command.</p>	—

Reason code	Explanation	Operator's action	HiRDB Administrator's action
1613	The sector length of the HiRDB file system area, the specified record length, or the specified record count is invalid.	Check the cause of the error based on a preceding KFPS01207-E message.	—
1614	The name of a HiRDB file specified in the <code>pdloginit</code> command is invalid.	Specify the system log file name using the absolute path name, and then re-execute the <code>pdloginit</code> command.	—
1615	The applicable file group is in the overwriting permitted status for online reorganization.	Re-evaluate the specified file group name. If the specified file group name is correct and the <code>pdlogls</code> command indicated this file group is in the overwriting denied status for online reorganization, the previously executed <code>pdlogchg</code> command may have caused an error that prevented updating of the memory status. In this case, close the applicable file group using the <code>pdlogcls</code> command, and then open the group using the <code>pdlogopen</code> command (the mismatch between the files and memory is resolved).	—
1660	The directory that is the output target of the unload log file for the automatic log unloading facility cannot be used.	Check that the directory that was specified as the output target of the unload log file for the automatic log unloading facility exists. Also, check that there is a write privilege for the target output directory.	—
1664	The command cannot be executed on a log application site.	The <code>aa...aa</code> command can be executed only on a transaction execution site. Check the site that corresponds to command execution.	—
1670	None of the unload log file creation directories can be used.	Take action by referring to the reason code of the KFPS01152-W message.	—

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Reason code	Explanation	Operator's action	HiRDB Administrator's action
1676 1677	Automatic log unloading facility cannot be used.	<p>If HiRDB was started normally: Check if the following operands were specified in the server definition of the applicable server when HiRDB was started:</p> <ul style="list-style-type: none"> <li>• pd_log_auto_unload_path</li> <li>• pd_log_unload_check=Y</li> </ul> <p>If HiRDB was shut down by planned termination or was restarted: Check if the automatic log unloading facility was used successfully during the previous operation of HiRDB. Also check if the following operand was specified in the server definition of the applicable server when HiRDB was started:</p> <ul style="list-style-type: none"> <li>• pd_log_unload_check=Y</li> </ul>	—
1678	Automatic log unloading facility is already running.	Use the pdlogatul command to check if the automatic log unloading facility is running.	—
1679	Automatic log unloading facility has already stopped.	Use the pdlogatul command to check if the automatic log unloading facility has stopped.	—
1680	<p>During monitoring for automatic log unloading stop, the automatic log unloading facility stopped for one of the following reasons:</p> <ul style="list-style-type: none"> <li>• None of the unload log file creation directories can be used.</li> <li>• Unload log file name is not unique.</li> <li>• Resource shortage occurred.</li> </ul>	Determine why the automatic log unloading facility stopped based on other output messages, take appropriate action, and then restart the automatic log unloading facility (by executing the pdlogatul -b command). Then, re-execute the pdlogatul -t -w command.	—



Reason code	Explanation	Operator's action	HiRDB Administrator's action
1681	Because a timeout occurred during monitoring for automatic log unloading stop, monitoring was halted and the automatic log unloading facility was stopped.	Check if an I/O delay has occurred on the disk where the unload log creation directory is located. Then, restart the automatic log unloading facility (by executing the <code>pdlogatul -b</code> command) and re-execute the <code>pdlogatul -t -w</code> command.	—

—: Not applicable

**KFPS01281-E E**

Invalid command format.

Command format is invalid.

S: Cancels command execution.

O: Check the command format and re-execute the command.

**KFPS01282-E E**

*bb...bb* specified with *aa* option not found.

*bb...bb* specified in option *aa* was not found.

*aa*: Option code:

-g: Option for specifying a file group name

*bb...bb*: File group name

S: Cancels command execution.

O: Specify the correct option argument and re-execute the command.

**KFPS01283-W E**

Minor error occurred during *aa...aa* command execution. reason code=*bbbb-cc*

A minor error occurred while executing command *aa...aa*.

Command processing terminated normally, but the minor error indicated by the reason code occurred during execution.

*aa...aa*: Name of the command resulting in the minor error

*bbbb*: Reason code

*cc*: HiRDB internal code

## 2. Messages

S: Resumes processing.

O: Take action appropriate to the reason code, as listed below, and re-execute the command, if necessary.

Action

Take action appropriate to the reason code, as listed below:

Reason code	Explanation	Operator's action
1102	Some of the files to be opened could not be opened (in this case, the opening of successfully opened files is valid).	If necessary, take action according to the KFPS01240-E message output to the log file.
1103	All files to be opened are already open.	If necessary, use the <code>pdlogls</code> command (specify the <code>-e</code> option) to check the status of the files comprising the file group, specify the correct file group name, A system or B system, and then reenter the command.
1104	All files to be closed are already closed.	

### **KFPS01284-I E**

Usage: `pdlogsync -d sys [-s servername] [-w [-t wait time]]`

The `pdlogsync` command contains an input format error (HiRDB/Single Server).

S: Terminates processing.

O: Enter the correct command.

### **KFPS01284-I E**

Usage: `pdlogsync -d sys -s servername [-w [-t wait time]]`

The `pdlogsync` command contains an input format error (HiRDB/Parallel Server).

S: Terminates processing.

O: Enter the correct command.

### **KFPS01285-E E**

Command unable to be executed due to swap processing.

Command cannot be executed because the system log file is being processed.

S: Cancels command processing.

O: Re-execute the command after swap processing is completed.

### **KFPS01286-E E**

Unable to perform swapping because no standby log file group is available.

Files cannot be swapped because there is no standby log file group.

S: Cancels the swap command.

O: Place a file group on unloaded status with the `pdlogunld` or `pdlogchg` command in order to provide a standby log file group. Or, place a reserve log file on online status with the `pdlogopen` command in order to provide a standby log file group. Then, re-execute the command, if necessary.

**KFPS01290-I E**

Usage: `pdlogswap -d sys [-s server_name] [-w [-t wait_time]]`

Displays the format of the `pdlogswap` command for a HiRDB/Single Server. This message is displayed when the specified command format is invalid.

S: Resumes processing.

**KFPS01290-I E**

Usage: `pdlogswap -d sys -s server_name [-w [-t wait_time]]`

Displays the format of the `pdlogswap` command for a HiRDB/Parallel Server. This message is displayed when the specified command format is invalid.

S: Resumes processing.

**KFPS01291-I E**

Usage: `pdlogls -d sys|spd [-s server_name] [-g file_group_name] [-e] [-l]`

Displays the format of the `pdlogls` command for a HiRDB/Single Server. This message is displayed when the specified command format is invalid.

**KFPS01291-I E**

Usage: `pdlogls {-d sys -s server_name [-u unit_id] [-g file_group_name] [-e] | -d spd -s server_name [-g file_group_name] [-e] [-l]}`

Displays the format of the `pdlogls` command for a HiRDB/Parallel Server. This message is displayed when the specified command format is invalid.

**KFPS01292-I E**

Usage: `pdloginit {-d sys [-s server_name] -f file_name -n record_count [-l record_size] | -d spd [-s server_name] -f file_name -n record_count}`

Displays the format of the `pdloginit` command for a HiRDB/Single Server. This message is displayed when the specified command format is invalid.

**KFPS01292-I E**

Usage: `pdloginit {-d sys -s server_name [-u unit_id] -f file_name -n record_count [-l record_size] | -d spd -s server_name [-u unit_id] -f file_name -n record_count} [-D]`

Displays the format of the `pdloginit` command for a HiRDB/Parallel Server. This message is displayed when the specified command format is invalid.

**KFPS01293-I E**

Usage: pdlogrm -d sys|spd [-s server\_name] -f file\_name [-u]

Displays the format of the pdlogrm command for a HiRDB/Single Server. This message is displayed when the specified command format is invalid.

**KFPS01293-I E**

Usage: pdlogrm -d sys|spd -s server\_name [-X unit\_id] -f file\_name [-u] [-D]

Displays the format of the pdlogrm command for a HiRDB/Parallel Server. This message is displayed when the specified command format is invalid.

**KFPS01294-I E**

Usage: pdlogopen -d sys|spd [-s server\_name] -g file\_group\_name [-a] [-b]

Displays the format of the pdlogopen command for a HiRDB/Single Server. This message is displayed when the specified command format is invalid.

**KFPS01294-I E**

Usage: pdlogopen -d sys|spd -s server\_name -g file\_group\_name [-a] [-b]

Displays the format of the pdlogopen command for a HiRDB/Parallel Server. This message is displayed when the specified command format is invalid.

**KFPS01295-I E**

Usage: pdlogcls -d sys|spd [-s server\_name] -g file\_group\_name [-a] [-b]

Displays the format of the pdlogcls command for a HiRDB/Single Server. This message is displayed when the specified command format is invalid.

**KFPS01295-I E**

Usage: pdlogcls -d sys|spd -s server\_name -g file\_group\_name [-a] [-b]

Displays the format of the pdlogcls command for a HiRDB/Parallel Server. This message is displayed when the specified command format is invalid.

**KFPS01296-I E**

Usage: pdlogunld -d sys [-s server\_name] -g file\_group\_name [-o output\_file\_name] [-n] [-f] [-k file\_kind] [-i init\_size [,expand\_size]]

Displays the format of the pdlogunld command for a HiRDB/Single Server. This message is displayed when the specified command format is invalid.

**KFPS01296-I E**

Usage: pdlogunld -d sys -s server\_name [-u unit\_id] -g file\_group\_name [-o output\_file\_name] [-n] [-f] [-k file\_kind] [-i init\_size [,expand\_size]]

Displays the format of the `pdlogunld` command for a HiRDB/Parallel Server. This message is displayed when the specified command format is invalid.

**KFPS01297-I E**

Usage: `pdlogchg{-d sys [-s server_name] -g file_group_name [-R|-G] | -z log_point_information [-x host_name]}`

Displays the format of the `pdlogchg` command for a HiRDB/Single Server. This message is displayed when the specified command format is invalid.

**KFPS01297-I E**

Usage: `pdlogchg {-d sys -s server_name [-u unit_id] -g file_group_name [-R|-G] | -z log_point_information [-x host_name]}`

Displays the format of the `pdlogchg` command for a HiRDB/Parallel Server. This message is displayed when the specified command format is invalid.

**KFPS01299-I E**

Usage: `pdlogatul -d sys [-s server_name] [-b| -t| -i]`

Displays the format of the `pdlogatul` command in a HiRDB/Single Server. This message is output when the command is entered incorrectly.

S: Continues processing.

**KFPS01299-I E**

Usage: `pdlogatul -d sys -s server_name [-b| -t| -i]`

Displays the format of the `pdlogatul` command in a HiRDB/Parallel Server. This message is output when the command is entered incorrectly.

S: Continues processing.

**KFPS01300-E E+L**

*aa...aa* error occurred, file=*bb...bb*

An I/O error occurred in an unload log file created in a HiRDB file system area.

*aa...aa*: Error detail:

Close: File close error

Open: File open error

Read: File loading error

Write: File write error

*bb...bb*: Name of the unload log file in which the error occurred

If the path name of the unload log file exceeds 150 characters, the last 150 characters of the unload log file path name are output.

S: Continues processing.

O: Take action appropriate to the message that is output after this message. Eliminate the cause of the error, and then re-execute the command.

**KFPS01301-E E+L**

System call error, func=*aa...aa*, errno=*bb...bb*

A system call error occurred in an unload log file created in a HiRDB file system area.

*aa...aa*: Name of the system call in which the error occurred

*bb...bb*: errno of the system call in which the error occurred

S: Terminates processing.

O: Check the error number (errno: external integer variable indicating error status) and refer to *errno.h* or to the applicable OS manual to correct the error. Then, re-execute the *pdlogunld* command.

**KFPS01302-E E+L**

File I/O error occurred, reason=*aa...aa*, func=*bb...bb*, errno=*cc...cc*, (*dd...dd*)

An error occurred during an I/O operation for an unload log file created in a HiRDB file system area.

*aa...aa*: Error cause:

File-format:

Specified file format does not match the actual file format.

File-lock:

Specified file is read/write-disabled because it has been locked by another utility.

Invalid-device:

The entry type of the specified file is invalid. Entry types that can be identified by the system consist of a single alphabetic character enclosed in parentheses. In UNIX, this alphabetic character is the same as the entry for the mode output using the OS *ls -l* command.

Invalid-environment:

Because the setting obtained by the *uname* system call is invalid, a streaming tape device cannot be used (check that the OS has been installed correctly or that the OS version is compatible with the HiRDB and related products).

Invalid-parameter:

Combination of specified parameters is invalid.

Invalid-path:

Path name of the unload log file is invalid.

Invalid-permission:

Permission for the specified file is invalid.

No-file:

File that is to be opened for loading does not exist, or file that was being written was erased.

No-space:

There is not enough space in the file to be written (check the file size or if the maximum number of size increases has been reached).

Unmatch-entry:

For a file with a header, the entry in the header does not match the specification in the control information file (the mismatching entry name is displayed in parentheses).

*bb...bb*: Name of the system function in which the error occurred

If the error occurred in a HiRDB file system area, the function name of the HiRDB file system area is displayed. Otherwise, \*\*\* is displayed.

*cc...cc*: Error number returned by the system function (errno)

If the error occurred in a HiRDB file system area, the error code of the HiRDB file system area is displayed. For details on the error codes, see *5.1 Error codes returned from HiRDB file system access requests*.

In all other cases, 0 is output.

*dd...dd*: Name of the source file and row number in which the error was detected

S: Terminates processing.

O: After determining the error cause and error number and correcting the error, re-execute the `pdlogunld` command.

**KFPS01303-E E+L**

HiRDB file *aa...aa* error, `errno=bb...bb`, HiRDB file name=*cc...cc*

An error occurred during access to an unload log file created in a HiRDB file system area.

*aa...aa*: Error detail:

close: File close error

create: File creation error

expand: File expansion error

## 2. Messages

`fstat`: File information acquisition error

`open`: File open error

`read`: File read error

`write`: File write error

`bb...bb`: Error code

For details on the error codes, see *5.1 Error codes returned from HiRDB file system access requests*.

`cc...cc`: Name of the unload log file in which the error occurred

If the path name of the unload log file exceeds 150 characters, the last 150 characters of the unload log file path name are output.

S: Terminates processing.

O: Refer to the error code to eliminate the cause of the error, then re-execute the command.

### **KFPS01362-I L**

Log block reading started, type=`aaa(bb...bb)`, read start point=`cc...cc`, `dd...dd`, `ee...ee`, `ff...ff`, `gg...gg`

Reading of the system log has started.

`aaa`: File type

`sys`: System log file

`bb...bb`: HiRDB server name

`cc...cc`: File group name of the system log file at read startup

`dd...dd`: Run ID of the system log at read startup

`ee...ee`: User run ID of the system log at read startup

`ff...ff`: Generation number of the system log at read startup

`gg...gg`: Block number of the system log at read startup

S: Continues processing.

### **KFPS01363-I L**

Log block reading completed, type=`aaa(bb...bb)`, read end point=`cc...cc`, `dd...dd`, `ee...ee`, `ff...ff`, `gg...gg`

Reading of the system log has finished.

`aaa`: File type

`sys`: System log file



*bb...bb*: HiRDB server name  
*cc...cc*: File group name of the system log file at read completion  
*dd...dd*: Run ID of the system log at read completion  
*ee...ee*: User run ID of the system log at read completion  
*ff...ff*: Generation number of the system log at read completion  
*gg...gg*: Block number of the system log at read completion

Note: If no log blocks are input, **\*\*\*\*\*** is displayed for *cc...cc*, *dd...dd*, *ee...ee*, *ff...ff*, and *gg...gg*.

S: Continues processing.

**KFPS01380-I E**

Usage: pdlogucat [-k std|csv] unload\_log\_file\_name

The usage of the pdlogucat command is displayed. This is output if there is an error in the command format.

S: Terminates processing.

**KFPS01800-I L**

Now starting HiRDB unit *aaa*

Indicated HiRDB unit is being started.

*aaaa*: Unit identifier

S: Resumes HiRDB system startup processing.

**KFPS01801-E E+L**

Unable to start HiRDB unit due to improper operational environment. reason code=*aa....aa*

A HiRDB unit cannot be started, because its operating environment has not been set up.

*aa....aa*: Cause of the startup error

S: Cancels HiRDB startup processing.

Action

Take the following actions, and then start HiRDB. Contact a customer engineer if a reason code other than the following is output:

Reason code	Cause	Action
ENV_PDDIR	The environment variable PDDIR is not set, or the directory it resides in cannot be referred to.	Set environment variable PDDIR.

## 2. Messages

Reason code	Cause	Action
MEMORY	There is a process private memory or shared memory shortage.	See the descriptions for SHM_EINVAL, SHM_ENOMEM, or SHM_ENOSPC.
PAUSE	An error occurred such that HiRDB processing could not continue, and the process service was suspended.	Refer to the message output immediately before this message to the command input window and the event log (in UNIX, syslogfile).
PROGRAM	There are no prerequisite programs.	Install the prerequisite programs.
RPL_FILE	There is no data linkage file for HiRDB Datareplicator, the user does not have access privileges, or the content is invalid.	<p>See the KFPS01889-E message output immediately before this message to recover from the error in the data linkage file for HiRDB Datareplicator.</p> <p>Representative error factors and actions:</p> <ul style="list-style-type: none"> <li> <p><i>function-value</i> = SYSTEM CALL(stat) ERROR, error = 2</p> <p>There is no data linkage file. If the disk mounting of the data linkage file is undone, remount the file and restart HiRDB Datareplicator and HiRDB. If there is no data linkage file, synchronize to the target database, re-create the data linkage file, and then restart HiRDB Datareplicator and HiRDB.</p> </li> <li> <p><i>function-value</i> = SYSTEM CALL(open) ERROR, error = 13</p> <p>The user does not have access privileges to the data linkage file. Check your access privileges to the data linkage file. If you do not have access privileges, establish access privileges, and then restart HiRDB Datareplicator and HiRDB.</p> </li> <li> <p><i>function-value</i> = FILE ERROR</p> <p>The data linkage file is invalid. Synchronize to the target database, re-create the data linkage file, and then re-execute HiRDB Datareplicator and HiRDB.</p> </li> </ul>

Reason code	Cause	Action
RPL_INSTALL	<p>Possible causes:</p> <ul style="list-style-type: none"> <li>• An error such as a failure on the HiRDB Datareplicator installation disk prevents access to the HiRDB Datareplicator installation directory.</li> <li>• The HiRDB addressing mode and the HiRDB Datareplicator addressing mode do not match.</li> <li>• HiRDB Datareplicator is not installed.</li> </ul>	<p>Check the following items and take appropriate action:</p> <ul style="list-style-type: none"> <li>• Check if an error such as a failure on the HiRDB Datareplicator installation disk on a server machine with the unit that output this message prevents access to the HiRDB Datareplicator installation directory. If an error is found, eliminate the cause, and then re-execute.</li> <li>• Check if the addressing mode of the unit that output this message and the address mode of HiRDB Datareplicator match. If they do not match, replace HiRDB Datareplicator with a HiRDB Datareplicator that has the same address mode as the HiRDB addressing mode.</li> <li>• Check if HiRDB Datareplicator is installed on the server machine containing the unit that output this message. If HiRDB Datareplicator is not installed, install it, and then re-execute.</li> </ul>
RPL_STOP	HiRDB Datareplicator suspended data linkage to HiRDB.	Find the cause of data linkage being stopped and eliminate the problem. Then, start HiRDB Datareplicator. For details about how to locate the cause, see the <i>HiRDB Datareplicator Version 8 Description, User's Guide and Operator's Guide</i> .
SETUP	In UNIX, the system is not set up. In Windows, the HiRDB service has stopped.	In UNIX, use the <code>pdsetup</code> command to set up HiRDB. In Windows, the HiRDB service might not be started. Start the service, then restart HiRDB.
SHM_EINTR	A signal was received during the shared memory securing process.	Check the cause of the signal, take appropriate action, and then restart HiRDB.
SHM_EINVAL	<p>UNIX version The shared memory size exceeded the system limit.</p> <p>Windows version The size of the installation drive is insufficient, so work files for shared memory could not be allocated.</p>	<p>UNIX version Increase the maximum segment size in system shared memory, and then re-create the kernel.</p> <p>Windows version On the HiRDB installation drive, allocate sufficient free space for the shared memory.</p>
SHM_EMFILE	The number of open files exceeded the number of file tables the system can open.	Decrease the number of open files or increase the number of file tables the system can open and re-create the kernel.

## 2. Messages

Reason code	Cause	Action
SHM_ENOMEM	<p>UNIX version Memory equal to the shared memory size was not found in the system.</p> <p>Windows version Consider the following causes:</p> <ul style="list-style-type: none"> <li>• There is insufficient memory in the system to equal the size of the shared memory.</li> <li>• If a paging file was allocated at the location where the shared memory was allocated, the HiRDB service was not started.</li> </ul>	<p>UNIX version Increase system memory.</p> <p>Windows version A KFPO00107-E or KFPO00113-E message was output before this message was output. Refer to the explanation given in the KFPO00107-E or KFPO00113-E message and take appropriate action.</p>
SHM_ENOSPC	<p>UNIX version The number of shared memory identifiers exceeds the maximum defined in the system.</p> <p>Windows version The installation drive does not contain a disk area to allocate only the shared memory.</p>	<p>UNIX version Decrease the number of shared memory buffers or increase the maximum number of shared memory identifiers and re-create the kernel.</p> <p>Windows version A KFPO00107-E or KFPO00113-E message was output before this message was output. Refer to the explanation given in the KFPO00107-E or KFPO00113-E message and take appropriate action.</p>

Reason code	Cause	Action
SHM_EOVER	<p>The shared memory size exceeded 2 gigabytes.</p> <p>Detail code:</p> <ul style="list-style-type: none"> <li>• lck: Lock server</li> <li>• trn: Transaction control</li> <li>• jnl: Log server</li> <li>• controlNo display: Unit controller</li> </ul>	<p>32 bit mode</p> <p>See the section on formulas for calculating shared memory used by unit controllers in the manual <i>HiRDB Version 8 Installation and Design Guide</i>, and change the definition values to make the size of the shared memory for all unit controllers less than 2 GB.</p> <ul style="list-style-type: none"> <li>• lck</li> </ul> <p>Reduce the value of the pd_max_access_tables, pd_max_users, pd_max_bes_process, pd_max_dic_process, pd_lck_hash_entry, pd_lck_pool_size, pd_fes_lck_pool_size, or pd_max_open_holdable_cursors operand.</p> <ul style="list-style-type: none"> <li>• trn</li> </ul> <p>Decrease the value of the pd_max_users, pd_max_bes_process, or pd_max_dic_process operand or decrease the number of front-end servers and back-end servers.</p> <ul style="list-style-type: none"> <li>• jnl</li> </ul> <p>Decrease the value of the pd_log_rec_leng, pd_log_max_data_size, pd_log_write_buff_count, pd_stj_buff_size, pd_max_users, pd_max_reflect_process_count, pdlogadfg -d sys, pdlogadfg -d spd, or pdlogadpf -d spd operand or decrease the number of servers in the unit with the error.</p> <p>64 bit mode</p> <p>See the section on formulas for calculating shared memory used by unit controllers in the manual <i>HiRDB Version 8 Installation and Design Guide</i>, and change the definition values to make the size of the shared memory for each server less than 2 GB. For HiRDB/Parallel Server, calculate using 1 as the value for <i>number-of-servers-in-unit+D</i> and <i>number-of-FES-in-unit</i>.</p>
SHM_CALC ***	<p>An internal conflict occurred during calculation of the shared memory size. *** indicates the HiRDB internal information.</p>	<p>Save the files under %PDDIR%\spool, save the event log (in UNIX, syslogfile), and contact a customer engineer.</p>

## 2. Messages

Reason code	Cause	Action
VERSION	The operating system version does not match.	Replace the current version of the operating system with the correct version.
AHA_INSTALL	HiRDB Advanced High Availability is not set up.	HiRDB Advanced High Availability is necessary when using the standby less system switchover facility. Either introduce HiRDB Advanced High Availability or delete the <code>pd_ha_agent</code> operand.
AHA_VR	The system definition specifies that the standby-less system switchover (effects distributed) facility be used, but the version of the HiRDB Advanced High Availability that is set up in the server machine that allocated the unit that output the message is invalid.	Take one of the following actions: <ul style="list-style-type: none"> <li>• See the KFPS05620-I message, and check the version of the HiRDB Advanced High Availability that has been set up. If the version is incorrect, set up the correct version of HiRDB Advanced High Availability and re-execute.</li> <li>• Reconsider the use of the standby-less system switchover (effects distributed) facility.</li> </ul>
NONALTSVUNIT	Can only be executed by an alternate BES unit.	Execute using an alternate BES unit.
NRF_INSTALL	A recovery-unnecessary front-end server is set (there is a front-end server with the <code>-k stls</code> option specified in the <code>pdstart</code> operand), but HiRDB Non Recover FES is not specified on the server machine with the unit that output the message.	To set a recovery-unnecessary front-end server, HiRDB Non Recover FES is required. Introduce HiRDB Non Recover FES, or remove the <code>pdstart</code> operand with the <code>-k stls</code> option.
DRL_INSTALL	In the system definition <code>pd_rise_pairvolume_combination</code> operand, <code>syssync</code> is specified, but HiRDB Disaster Recovery Light Edition is not set up in the server of the unit that output the message.	Take one of the following actions: <ul style="list-style-type: none"> <li>• Determine whether HiRDB Disaster Recovery Light Edition is installed, and if it is not installed, install it.</li> <li>• Determine whether HiRDB Disaster Recovery Light Edition is set up in the HiRDB working directory, and if it is not set up, execute the <code>pdopsetup</code> command to set it up.</li> <li>• Reconsider whether Real Time SAN Replication with the log-only synchronous method is to be used. If Real Time SAN Replication with the log-only synchronous method is not to be used, specify other than <code>syssync</code> in the system definition <code>pd_rise_pairvolume_combination</code> operand.</li> </ul>

*Note*

If the reason code is `RPL_STOP` or `RPL_FILE`, the KFPS04624-I message showing the server name is output before this message (KFPS01801-E) for each server in which the error occurred.

**KFPS01802-E E**

Unable to start HiRDB unit because another HiRDB with the same ID operating

Specified HiRDB unit cannot be started, because a HiRDB with the same HiRDB identifier is running.

S: Cancels HiRDB startup processing.

P: Restart after the current HiRDB has terminated. Or, change the HiRDB identifier and restart.

**KFPS01803-I L**

HiRDB unit *aaaa* start mode determined. start mode: *bb...bb*

The unit startup mode was selected.

*aaaa*: Unit identifier

*bb...bb*: Startup mode:

R: Restart

R (P) : Restart after planned termination

S: Normal startup

S: Resumes processing.

**KFPS01812-E E+L**

Error occurred while starting server *aa...aa*. reason code=*bb...bb*

An error occurred while starting server *aa...aa*.

*aa...aa*: Name of the server resulting in the error

*bb...bb*: Cause of the error

COMMUNICATION: Process-to-process communication error occurred.

CONFIGURATION: Error occurred during definition analysis.

EXIST: Server with the same name or service group name is already running.

FORK FAILED: Server startup failed.

LOCK: Lock processing failed.

MAX PROCESSES: Number of processes exceeded the specified maximum.

MEMORY: Memory shortage occurred.

## 2. Messages

NO RPC ENVIRONMENT: RPC environment has not been started.  
NO SCHEDULER: Scheduler is engaged in termination processing or is inactive.  
NO SERVER: Server terminated (normally or abnormally).  
NO SERVICE PRODUCER: Process service function has not been started.  
PRC ERROR: Process service function resulted in an error.  
SCD NOT UP: Scheduler service function has not been started.  
SERVER DOWN: Server terminated abnormally.  
SHARED MEMORY: Shared memory could not be secured.  
STOPPING NOW: Server is now terminating.  
VERSION INVALID: Version is invalid.

**S:** Continues HiRDB processing. However, terminates HiRDB processing in cases such as HiRDB startup where the HiRDB process can no longer run.

### Action

Eliminate the cause of the error and restart the server.

CONFIGURATION: Check the definition.

COMMUNICATION: Check the cause of the network error.

FORK FAILED: Check the memory size and the number of processes.

MAX PROCESSES: Check the maximum number of server processes defined in the system common definition.

MEMORY: In UNIX, check the real memory size or the swap area size. In Windows, check the Windows real memory size or the virtual memory size.

NO RPC ENVIRONMENT: Check if `pd_rpc_open()` has been issued.

NO SERVER: If the server terminated abnormally, check the cause.

PRC ERROR: Take the same action as for COMMUNICATION or VERSION INVALID.

SERVER DOWN: Check the cause of abnormal termination of the server.

SHARED MEMORY: Check the messages output to the event log (in UNIX, syslogfile) before or after this error occurred, and take appropriate action. If this problem recurs, contact a customer engineer.

VERSION INVALID: Check the versions of the library and daemon.

### **KFPS01813-I L**

Server *aa....aa* started[ on unit *bbb*]



Server *aa...aa* has been placed in online mode by unit *bbbb*. This is output on unit *bbbb* when the server is activated by the unit that is applying the standby-less system switchover (effects distributed) facility.

*aa...aa*: Name of the server whose startup has been completed

*bbbb*: Unit identifier of the server activation target unit

S: Resumes HiRDB processing.

**KFPS01814-I L**

HiRDB unit *aaaa* previous operation not terminate normally;  
perform normal start

Attempt was made to start HiRDB normally, but HiRDB had not terminated normally at the previous session.

*aaaa*: Unit identifier

S: Starts HiRDB forcibly.

**KFPS01815-E E+L**

Error occurred in OS while executing *aa...aa*. function  
value=*bb...bb*, errno=*cc...cc*

An error occurred in a system function in the operating system.

*aa...aa*: Name of the system call or subroutine resulting in abnormal termination

*bb...bb*: Return value of the system call or subroutine resulting in abnormal termination

*cc...cc*: Value of errno set during abnormal termination

S: Cancels processing.

Action

Check the value of errno and refer to `errno.h` or to the applicable OS manual to eliminate the cause of the error. For representative errors, see *4.3 System call return codes*.

**KFPS01818-E E**

Stops activating server *aa...aa* because the server not in halt state

Server startup was cancelled, because an active server was specified.

*aa...aa*: Name of active server

S: Cancels server startup processing.

O: Check the name of the server to be started.

**KFPS01819-I L**

Server *aa...aa*. failed information. process ID=*bb...bb*,  
C-PID=*cc...cc* (*dd...dd*), TIME=*effgg*, PROGRAM=*hh...hh*

This message provides additional information concerning termination of a server process. This message is not displayed if the server is not connected to a client or if this is an internal server used by HiRDB.

*aa...aa*: Name of the terminated server

*bb...bb*: Process ID at the terminated server

*cc...cc*: Process ID at the client (UAP or utility) connected to the server (this information is applicable only to a server process connected to a client). For a server process not connected to a client, 0 is displayed.

*dd...dd*: IP address of the client (UAP or utility) that was connected (this information is applicable only to a server process connected to a client). For a server process not connected to a client, 0 . 0 . 0 . 0 is displayed.

*effgg*: Time (hour, minute, second) the service request was accepted; for a server process that was not connected to a client, 999999 is displayed.

*hh...hh*: UAP identification information (this is the UAP name specified in PDCLTAPNAME in the client environment definition. If PDCLTAPNAME is not set, Unknown is displayed. For a utility, the name of the utility command is displayed. If the UAP was running on a utility server process or the UAP identification information cannot be obtained due to an error, this information may be left blank)

S: Cancels server startup processing.

O: Check the name of the server to be started.

Action

Use this message to investigate the cause of the error indicated by the error message output before this message.

**KFPS01820-E E+L**

Server *aa...aa* failed. process ID=*bb...bb*, service group name=*cc...cc*,  
run mode=*dd...dd*, critical state=*e*, critical mask=*ff...ff*, end  
state=*gg...gg*, server type=*hhh*

Server *aa...aa* was terminated.

The following states are detected

Value of gg....gg	Explanation
007F 0009	A request to forcibly terminate the server process was received. If the <code>pdcancel</code> command was executed, this message was output. Based on the messages that were output before or after this message, investigate the reason that the process received a forcible termination request (including executing the <code>pdcancel</code> command) and take any appropriate action. However, if during execution of a UAP or utility related processes or the units on which the related processes exist abnormally terminate, no other messages except this message are output.
0003 0083	A request to forcibly terminate the server process was received. Investigate the reason the process received a forcible termination request from the status of the executed transaction and the messages output before and after this message. Then, take appropriate action.
0006 0086 0100 0800	Abnormal termination was due to an abnormality detected during processing. Investigate the cause of the abnormal termination from the messages output before and after this message, and take appropriate action.
8000	Due to a memory shortage, process activation failed or the process terminated abnormally. Take one of the following actions: <ul style="list-style-type: none"> <li>• Reduce the number of other processes running on the same server machine.</li> <li>• Increase the swap area.</li> <li>• Increase the real memory.</li> <li>• For Windows, revise the value specified for the desktop heap. For details on specification values for the desktop heap, see the <i>HiRDB Version 8 Installation and Design Guide</i>.</li> </ul>
c000	A <code>connect</code> system call was issued; however, a connection was not established because the destination system was down or there was a network failure.
c100	The second and subsequent SQL response transmissions could not be sent because either the destination system was down or there was a network failure.
c200	During a transaction in which control was held by the HiRDB client, a timeout was detected by the HiRDB client environment definition <code>PDSWAITTIME</code> .
c300	An error occurred at the remote system during communication processing; the remote communication socket was closed.
c400	If the client had control and no transaction was being processed, a timeout was detected by the client environment definition <code>PDSWATCHTIME</code> . Or, a timeout was detected in the <code>pd_watch_pc_client_time</code> set in the HiRDB system while connecting a Windows version of the HiRDB client.
c500	Acquisition of special file (FIFO) failed during server startup.
c600	The number of transactions that can be processed concurrently by HiRDB exceeds the maximum. Because many rollbacks may have occurred, wait for the rollbacks to be completed and then re-execute the UAP.
c700	Abnormal termination of the client that requested the SQL statement was detected during execution of the SQL statement by the HiRDB server.

## 2. Messages

Value of gg...gg	Explanation
c800	SQL request transmission failed due to a network failure between the server and the system manager.
c900	The second and subsequent SQL request receptions could not be received because a network failure occurred between the source and the system manager.
d000	Because the parent process was forcibly terminated during processing of a transaction, the child process was forcibly terminated.
d100	Server processing was cancelled because UAP processing did not terminate with the monitoring time set in the <code>PDSWAITTIME</code> or <code>PDSWATCHTIME</code> client environment definition. Or, related server processing was cancelled because the <code>pdcancel</code> command was executed.
d200	The number of transactions that can be processed concurrently by a UAP under the OLTP environment exceeded the maximum. Because many rollbacks may have occurred, wait for the rollbacks to be completed and then re-execute the UAP.
d300	An error was detected, but the HiRDB server process was terminated without outputting troubleshooting information because the specification of the <code>pd_dump_suppress_watch_time</code> operand was in effect.
d500	An error occurred during transaction completion processing.
000f ff00	The HiRDB server process was forcibly terminated using the <code>pdkill</code> command (in UNIX, the OS <code>kill</code> command).
008b	An operating system stack overflow may have occurred during HiRDB operation. The following lists the causes and actions for a stack overflow: <b>Cause 1</b> Consider the following causes: <ul style="list-style-type: none"> <li>• A user-defined routine that issues many calls or repeats them infinitely was executed</li> <li>• A column defined using a nesting of user-defined data types or many inheritances was specified in an SQL statement</li> <li>• There are too many nesting levels of <code>IF</code> or <code>WHILE</code> statements or scalar functions</li> </ul> <b>Action for cause 1</b> <ul style="list-style-type: none"> <li>• Consider the above SQL causes and take action if possible.</li> <li>• Consider the value of the <code>maxsiz</code> kernel parameter, and increase the stack size.</li> </ul> <b>Cause 2</b> Stack extension failed due to an operating system memory shortage. <b>Action for cause 2</b> Terminate unneeded programs, and increase the free memory area.

*aa....aa*: Name of the terminated server

*bb....bb*: Process ID of the terminated server

*cc....cc*: Service group name of the terminated server

However, for some server processes, there is no service group name. In that case,

spaces are displayed.

*dd...dd*: Server's run mode in effect immediately before termination:

PDESV: HiRDB server

PDESYS: Under HiRDB processing

*e*:

N: Not on critical status

Y: On critical status

As HiRDB shares information among multiple processes, it references and updates the management table in the shared memory. If a process updating the shared memory terminates abnormally, the table information will lose integrity, and subsequent processing by other processes cannot be performed. For this reason, forcible termination in this type of processing space (referred to as the *critical space*) should be restricted as much as possible. If a failure occurs because abnormal termination in this space could not be suppressed, terminate HiRDB, and the integrity of the table information will recover when it is restarted.

*ff...ff*: Critical information

*gg...gg*: Process termination status returned with `wait(2)`

*hhh*: Server type (\*\* is displayed for any server other than a HiRDB server)

S: Terminates processing at the server resulting in the error and restarts the server, if necessary.

#### Action

*gg...gg* is c800:

Use the `pdls` command to determine if the status information of the unit of the relevant server became `STOP(A)`. If the status information became `STOP(A)`, a network failure may have occurred between the unit and the system manager. Stop the unit with the `pdstop -z` command, determine the cause of the network failure, and take appropriate action. Then, restart the unit.

*gg...gg* is c900:

Check whether a KFPS01820-E message was displayed where *gg...gg* is "c800" in the transmission source. If one was displayed, investigate the reason for the transmission source stopping, and take action.

Other than the above:

Refer to the message that was output before this message or to the troubleshooting information (dump, trace, etc.) to check the cause of the

server termination, and take appropriate action. Then, restart the server, if necessary. Troubleshooting information is not output if *gg...gg* is *c000*, *c100*, *c200*, *c300*, *c400*, *c500*, *c600*, *c700*, *c800*, *c900*, *d000*, *d100*, *d200*, *d300*, or *d500*.

**KFPS01821-E E+L**

Unable to continue HiRDB unit processing because serious error occurred; stops HiRDB unit *aaaa*

HiRDB is being terminated because an error occurred and HiRDB processing cannot be resumed.

*aaaa*: Unit identifier

S: Upon termination of HiRDB, restarts HiRDB if possible.

O: Eliminate the cause of the error on the basis of the message that was output before this message. Restart HiRDB, if necessary.

**KFPS01823-E E+L**

System version invalid; stops unit startup

Because the system version is invalid, the unit is being terminated.

S: Cancels unit startup processing.

Action

Check the versions of library and server and restart.

**KFPS01824-E E+L**

HiRDB ID invalid; stops unit startup

An invalid HiRDB identifier was specified in the definition or no HiRDB identifier was specified.

S: Cancels unit restart processing.

O: Specify the correct HiRDB identifier and restart HiRDB.

**KFPS01826-I L**

HiRDB dir = *aa...aa*HiRDB vrs = *bb...bb*unit run ID = *cc...cc*HiRDB ID = *ddd*unit ID = *eeee*

Displays the environment in which the unit is being started normally. In the case of a unit restart, the previous environment is displayed.

*aa...aa*: HiRDB directory name

*bb...bb*: HiRDB version

- If HiRDB is in the 64-bit mode, (64) is displayed after the version number.
- When using a POSIX library version, (POSIX) is displayed after the version number.

Example: HiRDB version 07-00, POSIX library version, and 64-bit mode  
HiRDB:

```
'07-00(64)(POSIX)'
```

*cc...cc*: Unit run ID (if the `pdstart -r` command was used, 00...00 is displayed)

*dddd*: HiRDB identifier

*eee*: Unit identifier

S: Resumes processing.

O: Check the execution environment.

**KFPS01827-E E**

Unit ID invalid; stops unit startup

An invalid unit identifier was specified in the definition, or no unit identifier was specified.

S: Cancels unit startup processing.

O: Specify the correct unit identifier in the unit control information definition and restart HiRDB.

**KFPS01828-E E**

System definition parameter *aa...aa* missing; stops unit startup

An operand required in the HiRDB system definition is missing.

*aa...aa*: Name of the operand required in the HiRDB system definition

S: Terminates abnormally.

Action

Add the required operand and restart HiRDB.

**KFPS01829-E E**

*aa...aa* invalid; stops unit startup

*aa...aa* for unit restart processing does not match the information used during normal startup.

*aa...aa*:

HiRDB dir:

HiRDB directory

HiRDB ID:

HiRDB identifier

Master file name:

First HiRDB file name in the master directory RDAREA

System Version:

System version

Unit ID:

Unit identifier

Server Number:

Number of servers

Utility exec mode:

Utility execution mode

S: Terminates abnormally.

Action

Revise the items indicated as the cause in *aa....aa*, and restart HiRDB.

System Version:

HiRDB version

HiRDB ID:

The *pd\_system\_id* operand of the system common definition

HiRDB dir:

The *-d* option of the *pdunit* operand of the system common definition

Unit ID:

The *pd\_unit\_id* operand of the unit control information definition

Master file name:

The *pd\_master\_file\_name* operand of the system common definition

Server Number:

Number of *pdstart* operands specified in the system common definition or  
*pd\_mlg\_msg\_log\_unit* operands in the system common definition

Utility exec mode:

The *pd\_utl\_exec\_mode* operand of the system common definition

**KFPS01830-I L**

Server *aa....aa* recovery process start

Recovery processing has started during a HiRDB server restart.



*aa....aa*: Server name  
 S: Resumes processing.

**KFPS01831-I L**

Server *aa....aa* recovery process end  
 Recovery processing during a HiRDB server restart has been completed.  
*aa....aa*: Server name  
 S: Resumes processing.

**KFPS01832-I E+L**

Data replication restart. unit ID = *aa....aa*, reason code = *bb....bb*  
 HiRDB Datareplicator linkage has been restarted.

*aa....aa*: Unit identifier

*bb....bb*: Reason for restarting HiRDB Datareplicator linkage:

FORCE:

HiRDB Datareplicator linkage was established in the previous session, but  
 HiRDB was started by the `pdstart -i` command.

STATUS:

Initialization or error occurred in the file for data linkage by HiRDB  
 Datareplicator or in a HiRDB system status file.

S: Terminates HiRDB Datareplicator linkage and then restarts it.

Action

If necessary, initialize the file for data linkage by HiRDB Datareplicator and  
 re-create the target database.

**KFPS01833-E E+L**

Cancels processing because the same command running

Another process is running the same command. This message might be output if the  
 same command is executed immediately after this command terminates abnormally.

Also, if the standby-less system switchover (effects distributed) facility is being used  
 and the `pdstbegin` operand is specified, this message might be output when the unit  
 or server is started.

S: Terminates processing.

O: Revise the options specified in the command, and re-execute the command.

Action: After the command process terminates, re-execute the command. If the  
 command terminates abnormally, wait a brief period before re-executing the  
 command.

If this message was output when a unit or server using the standby-less system switchover (effects distributed) facility was started, use the `pdls -d stj` command to determine whether statistical information was output. If statistical information was not output, use the `pdstbegin` command to output statistical information.

**KFPS01833-I E+L**

Unable to continue data replication. unit ID=*aaaa*, reason code=*bb...bb*

The system was unable to continue HiRDB Datareplicator linkage.

*aa...aa*: Unit identifier

*bb...bb*: Reason for discontinuing HiRDB Datareplicator linkage:

DEFINITION:

HiRDB Datareplicator linkage was established in the previous session, but `N` was specified in the `pd_rpl_init_start` operand of the system common definition.

RPL\_FILE:

An error occurred in the file for data linkage by HiRDB Datareplicator.

RPL\_STATUS:

The file for data linkage by HiRDB Datareplicator was initialized.

S: Terminates data linkage and resumes HiRDB startup processing.

Action

To re-execute HiRDB Datareplicator linkage, eliminate the cause of the error, synchronize the target HiRDB, then execute the `pd_rpl_start` command to restart HiRDB Datareplicator linkage.

If HiRDB is to be terminated but HiRDB Datareplicator linkage is to be always established, specify `Y` in the `pd_rpl_init_start` operand in the system common definition.

If the reason code is `RPL_STATUS` or `RPL_FILE`, the KFPS04624-I message showing the server name is output before this message (KFPS01833-I) for each server in which the error occurred.

**KFPS01834-E E+L**

Error occurred in status file while data, duplication unit ID=*aaaa* reason code=*bb...bb*

Error was detected in the status file while using the HiRDB Datareplicator linkage facility.

*aaaa*: Unit identifier

*bb...bb*: Reason code:

COMMUNICATION: Process-to-process communication error occurred

SERVER NOT UP: Status service was not active

I/O ERROR: I/O error occurred

OTHER: Other error occurred

S: Terminates HiRDB.

Action

Eliminate the cause of the error on the basis of the message that was output before this message.

**KFPS01835-E E+L**

Error found in system configuration for fall-back operation.  
reason code=*aa....aa*

The system definition regarding reduced activation operation contains an error.

*aa....aa*: Reason code

UNIT ID ERROR *unit-identifier*:

The unit identifier coded in the `pd_start_skip_unit` operand is not found in the system configuration.

DUPLICATE UNITID:

The same unit identifier cannot be specified multiple times in the `pd_start_skip_unit` operand.

MGR UNIT NOT SKIPPED:

A unit in which the System Manager is located cannot be specified in the `pd_start_skip_unit` operand.

DIC UNIT NOT SKIPPED:

A unit in which the Dictionary Server is located cannot be specified in the `pd_start_skip_unit` operand.

NECESSARY ONE FES FOR FALL-BACK:

Reduced activation operation requires one or more active front-end servers.

NECESSARY ONE BES FOR FALL-BACK:

Reduced activation operation requires one or more active back-end servers.

S: Terminates processing.

Action

Check the specification of the `pd_start_level` and `pd_start_skip_unit` operands and restart HiRDB.

**KFPS01836-W E+L**

Fall-back operation ignored, because of restarting with "pdstart aa"

When operating HiRDB with reduced activation, the *aa* option cannot be specified with the `pdstart` command. Specification of the reduced activation mode is ignored.

*aa*: `pdstart` command option

For details about `pdstart` command options, see the manual *HiRDB Version 8 Command Reference*.

S: Resumes processing.

Action

To perform reduced activation:

Execute the `pdstart` command without specifying the *aa* option.

To activate while specifying the *aa* option:

If a unit cannot be started, place it in startable status.

**KFPS01837-I E+L**

Unit startup skipping for fall-back operation. unit ID=*aa....aa*

The HiRDB system is started on a reduced activation basis by skipping the HiRDB unit indicated by the unit identifier.

*aa....aa*: Unit identifier

S: Resumes processing.

**KFPS01838-W E+L**

Fall-back operation ignored, because no startup skip HiRDB unit

This system configuration does not contain any units that can be skipped; the reduced activation operation mode is ignored.

S: Resumes processing.

Action

Change the `pd_start_level` operand in the system common definition to 0 (do not apply the reduced activation mode). To start the HiRDB on a reduced activation basis, change to a reduced-startup-capable system configuration by assigning front-end and back-end servers to multiple units.

**KFPS01840-I L**

Now terminating HiRDB unit *aaaa*

HiRDB is being terminated.

*aaaa*: Unit identifier

S: Resumes HiRDB processing.

**KFPS01841-I S**

HiRDB unit *aaaa* terminated, mode=*bb...bb*

HiRDB unit *aaaa* terminated. The termination mode is *bb...bb*.

*aaaa*: Unit identifier

*bb...bb*: Termination mode:

FORCE: Forced termination

NORMAL: Normal termination

PLAN: Planned termination

S: Resumes HiRDB processing.

**KFPS01842-I L**

Now terminating server *aa....aa*

Server is being terminated.

*aa....aa*: Name of the server being terminated

S: Resumes HiRDB processing.

**KFPS01843-I S**

Server *aa....aa* terminated

Server has been terminated.

*aa....aa*: Name of the terminated server

S: Resumes HiRDB processing.

**KFPS01844-E E+L**

Error occurred while terminating server *aa....aa*. reason code=*bb...bb*

An error occurred during server termination processing. Either the server could not be terminated, or the server abnormally terminated during termination processing.

*aa....aa*: Name of the server resulting in the error

*bb...bb*: Cause of the error:

ABNORMAL:

pdstop command was used to terminate HiRDB, but a server had not terminated normally.

ABORT:

Server terminated abnormally (pdstop).

ABORTING:

Server abnormal termination processing (pdstop -s) is underway.

COMMUNICATION:

Process-to-process communication error occurred.

CRITICAL:

Forced termination has been placed on hold due to critical status.

EXIT:

System is inactive (there is no server), or termination processing is underway.

MEMORY:

Memory shortage occurred.

PROTOCOL:

pd\_rpc\_mainloop cannot be issued.

STARTING: Server is starting.

S: Resumes HiRDB processing.

O: Check whether there are servers that are not terminated. If there are servers that are not terminated, eliminate the cause of the error and terminate the servers again. Note that only forced termination (pdstop -s -f or pdstop -f) may be accepted, depending on the previous termination status.

**KFPS01845-E E+L**

Commands unable to enter because HiRDB inactive

Commands cannot be entered because HiRDB is inactive.

S: Terminates the entered command.

**KFPS01846-E E+L**

Unable to terminate the unit normally; some servers forced to terminate

The system cannot be terminated normally, because a server was terminated forcibly.

S: Terminates the command.

O: Restart the server indicated as ABNORMAL in the KFPS01844-E message and terminate it normally. Or, terminate the system forcibly.

**KFPS01847-E E+L**

Unable to terminate the unit; some servers being started or terminated

The system cannot be terminated, because a server is engaged in startup or termination processing.

S: Terminates the command.

O: Wait until the server startup or termination processing has been completed. Or, enter the `pdstop -f` command.

**KFPS01849-W S+L**

Now waiting for termination of server *aa....aa*

The system is waiting for termination of a server.

*aa....aa*: Name of the server for which the system is waiting for termination

S: Places system termination on hold until the displayed server has terminated.

O: Terminate the displayed server.

**KFPS01850-I S**

HiRDB system terminated. mode=*aa....aa*

The HiRDB system terminated. The termination mode is *aa....aa*.

*aa....aa*: Termination mode:

NORMAL: Normal termination

PLAN: Planned termination

FORCE: Forced termination

S: Resumes processing.

**KFPS01851-E E+L**

Server *aa....aa* initialization error occurred; return code=*bb....bb*

A server initialization error occurred.

*aa....aa*: Server name in the HiRDB/Single Server or HiRDB/Parallel Server (front-end server)

*bb....bb*: Error code

S: In the case of a HiRDB/Single Server, terminates abnormally; in the case of the front-end server, sets the status displayed by the `pdls` command to `SUSPEND`.

Action

For a HiRDB/Single Server, re-execute the `pdstart` command; for a HiRDB/Parallel Server, execute the `pdstart -a` command.

**KFPS01852-W E+L**

Server *aa....aa* failed. process ID=*bb...bb*, service group name=*cc....cc*, run mode=*dd....dd*, critical state=*e*, critical mask=*ff...ff*, end state=*gg....gg*, server type=*hhh*

Server *aa....aa* stopped for one of the following reasons:

- Client allocation was accompanied by a forcible termination request, causing the HiRDB server executing the transaction to terminate. (This applies to UAPs that use DBPARTNER or DABroker to access HiRDB and UAPs that use ODBC to access HiRDB. This also includes cases where the applicable UAP is stopped by pressing `Ctrl+C` on the keyboard.)
- A UAP failed, causing the HiRDB server process executing the transaction to terminate. (If the XA interface is being used, this message is not changed.)
- The `pdcancel` command was executed, causing the HiRDB server process executing the transaction to terminate (including utility server processes).
- When control is on the HiRDB client side, a client environment definition `PDSWAITTIME` timeout was detected during a transaction, causing the HiRDB server process to terminate.
- When control is on the HiRDB client side, a client environment definition `PDSWATCHTIME` timeout was detected not during a transaction, or when connected to a Windows version HiRDB the system definition `pd_watch_pc_client_time` operand timeout was detected, causing the HiRDB server process to terminate.
- The `pdfgt` command was executed, forcibly terminating the transaction and causing the HiRDB server process to terminate.
- The facility for monitoring the free area for the system log file was used to specify `safe` in the system definition `pd_log_remain_space_check` operand, and the log size exceeded the threshold value, causing the HiRDB server process to terminate.
- When a HiRDB server process failed due to error, the HiRDB server process terminated to perform transaction and utility recovery. (This message is not changed for the process that failed due to error.)
- For HiRDB/Parallel Server, when a unit was forcibly terminated, a unit shut down, or a system switchover occurred, the HiRDB server process terminated so another unit could perform transaction and utility recovery.

*aa....aa*: Terminated server name

*bb...bb*: Terminated server ID

*cc....cc*: Service group name of terminated server



However, for some server processes, there is no service group name. In that case, spaces are displayed.

*dd...dd*: Server mode immediately before termination

PDBSV: HiRDB server

PDBSYS: HiRDB processing

*e*:

N: Not in critical status

Y: In critical status

*ff...ff*: Critical information

*gg...gg*: Process termination status returned by `wait(2)` (for a HiRDB command, `****` is displayed)

*hhh*: Server type (if other than a HiRDB server, `***` is displayed)

S: Reactivates the user server process as necessary. Does not terminate HiRDB (for HiRDB/Parallel Server, the unit) at this time.

O: If `put` is specified in the `pd_cancel_dump` operand, the error information is output. If the error information is not required, delete it.

#### **KFPS01853-W E**

Hostname = *aa...aa*, unable to execute *cc...cc* command, unit state not *bb...bb*

The system was unable to execute the entered command because the unit was not on status *bb...bb* at host *aa...aa*.

*aa...aa*: Name of the host where the system was unable to execute the command

*bb...bb*: Status in which command can be entered:

OFFLINE: Offline status

ONLINE: Online status

*cc...cc*: Name of the entered command

S: Terminates the command.

O: Reenter the command after the system or unit status is displayed. The `pdstart` command cannot be executed while the unit is active (or engaged in startup processing); the `pdstop` command cannot be executed while the unit is inactive (or engaged in termination processing). Check that the unit is inactive or active, as applicable, before entering the command.

#### **KFPS01854-E E+L**

Unable to start standby,online unit notup.

The running system unit did not start when the rapid system switchover facility was used to start the standby system.

S: Terminates HiRDB processing.

Action

Check if the running system unit started normally. When the running system unit starts normally, `ACTIVE` is displayed in `STATUS` of the `pdls` command execution results or the `KFPS05210-I` or `KFPS05110-I` message is output.

When using Hitachi HA Toolkit Extension, check if service processing for Hitachi HA Toolkit Extension started. If the running system unit started without service processing starting, both systems were started as standby systems. For details on how to start service processes, see the manual *Hitachi HA Toolkit*.

**KFPS01855-E E+L**

Unable to stop alternate server or original server *aa....aa*

The standby less system switchover facility cannot independently terminate alternate BES and normal BES.

*aa....aa*: Name of alternate BES or normal BES

S: Terminates processing.

Action

To stop alternate BES or normal BES, terminate the alternate BES unit or the normal BES unit.

**KFPS01856-E E+L**

Unable to stop server *aa....aa* by force ,server not *bb....bb*

Because server *aa....aa* is not *bb....bb*, it cannot be forcibly terminated.

*aa....aa*: Server name

*bb....bb*: Error cause

IN HAGROUP: Target standby-less system switchover (effects distributed) facility

ONLINE: Online

S: Terminates processing.

Action

Based on the cause of the error, take appropriate action.

- Error cause is IN HAGROUP

Servers for which the standby-less system switchover (effects distributed) facility does not apply cannot be forcibly terminated. Revise the command option specification. To stop the server, execute a normal termination

(`pdstop -s command`).

- Error cause is ONLINE

The server may already be stopped. Execute the `pdls` command to check the running status of the server.

**KFPS01860-E E**

Command format *aa...aa* invalid

Indicated command is invalid.

*aa...aa*: Format of the command:

`pdstop [-f]`: System termination command

`pdstop [-f] -s server_name`: Server termination command

`pdstart`: System startup command

`pdstart -s server_name`: Server startup command

S: Terminates the command.

O: Reenter the command.

**KFPS01861-E E**

Error occurred during command execution. reason code=*aa...aa*

A command error occurred.

*aa...aa*: Nature of the command error:

COMMUNICATION:

Process-to-process communication error occurred.

DEFINE FILE:

Definition file error occurred.

INITIALIZING:

Command cannot be accepted because startup processing requested by `pdstart` is underway (reenter the command after HiRDB startup is completed).

MEMORY:

Memory shortage occurred.

PARAM:

Argument is invalid.

RPL STATUS:

HiRDB Datareplicator linkage startup or termination processing failed.

SERVER NAME LEN:

Length of the server name is invalid.

SHARED MEMORY:

Shared memory access failed.

STATUS:

Server addition or deletion failed.

TIMEOUT:

System initialization processing did not terminate within the specified time, or an invalid system definition was detected at the system server.

UTILITY:

The command cannot be received because the utility is running. Wait for the utility to terminate, and then re-execute the command.

S: Terminates the command.

O: Eliminate the cause of the error and reenter the command.

`pdstop -s` command:

Check for any server that has not terminated. Only the `pdstop -s -f` or `pdstop -f` command may be accepted, depending on the previous termination status.

SHARED MEMORY:

This message may be output when an operation command is entered while the system startup process is running. If necessary, re-execute the command.

TIMEOUT:

Perform the following procedure:

1. If HiRDB start processing continues, ignore this message except for the unit(s) displayed in the additional information of this message when 1 is specified to the `pd_start_level` operand in the system definition.
2. Execute the `pdstop -f` command if the `pdstart` command did not terminate after this message is output.
3. If an error message or a warning message is output to the event log (in UNIX, `syslogfile`) of the unit where the system manager resides before or after this message was output, follow the actions given in that message.

4. If an error message or a warning message is output to the event log (in UNIX, syslogfile) of the unit indicated in the additional information of this message before or after this message was output, follow the actions given in that message.
5. Increase the value specified in the `pd_start_time_out` operand.
6. Re-execute the `pdstart` command.
7. If the `pdstart` command outputs this message again after performing step 6, repeat steps 1 through 6.

RPL STATUS

Take action on the basis of the message that was output immediately before.

**KFPS01862-E E+L**

Enter server name

Asks that a server name be entered.

S: Terminates the command.

O: Reenter the command with a server name entered as the command argument.

**KFPS01863-E E**

Hostname=*aa...aa*, unable to execute *cc...cc* command, unit state not *bb...bb*

Because the unit status at host *aa...aa* is not *bb...bb*, the command cannot be executed.

*aa...aa*: Name of the host at which the command could not be executed

*bb...bb*: Status in which the command can be executed:

OFFLINE: Offline

ONLINE: Online

*cc...cc*: Name of the entered command

S: Terminates the command.

O: Reenter the command after the system or unit status is displayed. The `pdstart` command cannot be executed while the unit is active (or engaged in startup processing); the `pdstop` command cannot be executed while the unit is inactive (or engaged in termination processing). Check that the unit is inactive or active, as applicable, before entering the command.

**KFPS01864-E E+L**

Timeout occurred during execution of command *aa...aa*

A command resulted in a timeout.

*aa...aa*: Command name:

`pdstop`: Termination command

S: Terminates the command.

Action

Determine the cause of the abnormal termination, and then restart HiRDB. In UNIX, if a dump was output to the core file, save the dump.

**KFPS01865-E L**

Server failed: cancels execution of *aa...aa* command

Server terminated abnormally, so command processing is being cancelled.

*aa...aa*: Name of the entered command

`pdstop`: System termination command

S: Terminates the command.

Action

Determine the cause of the abnormal termination, and then restart HiRDB. In UNIX, if a dump was output to the core file, save the dump.

**KFPS01866-E E+L**

Server *aa...aa* specified twice

The same name was specified more than once in a list of input commands.

*aa...aa*: Duplicated server name

S: Terminates the command.

O: Delete the duplicated name from the list of input commands and reenter the commands.

**KFPS01867-E E**

Unable to continue processing because shared memory unused

Because shared memory cannot be used, processing cannot continue.

S: Terminates the command.

O: Check whether or not the system is active and reenter the command.

**KFPS01868-E E+L**

Server name *aa...aa* invalid

Invalid server name was found.

*aa...aa*: Invalid server name

S: Terminates the command.

O: Correct the command argument and reenter the command.

**KFPS01869-E E**

Unable to accept the command because the unit failed or not installed

Because the system has not been installed or the system is inactive, the command cannot be accepted.

S: Terminates the command.

O: Check whether or not the system is active and reenter the command.

**KFPS01870-E E+L**

Unable to analyze the definition file due to insufficient memory

A memory shortage occurred in a process during definition file analysis processing.

S: Cancels definition file analysis processing.

Action

Reduce either the number of processes or the amounts of memory available to other processes and restart HiRDB.

**KFPS01871-E E+L**

Communication error occurred. server name=*aa....aa*, return code=*bb....bb*

A communication error occurred.

*aa....aa*: Name of the server resulting in the error

*bb....bb*: Return value set when error control return occurred

S: Cancels the corresponding server processing.

O: Eliminate the cause of the error on the basis of the message output before this message, then restart HiRDB, if necessary.

**KFPS01872-I L**

HiRDB is placed in the standby state

HiRDB has been placed in standby status.

S: Resumes processing.

**KFPS01873-E L**

HA monitor has been stopped

The HA monitor or the Hitachi HA Toolkit Extension is currently stopping.

S: Terminates abnormally.

O: Start the HA monitor or the Hitachi HA Toolkit Extension, and then restart HiRDB.

**KFPS01874-E L**

Cannot connect to HA monitor. reason=*aa....aa*

Connection cannot be established with the HA monitor or the Hitachi HA Toolkit Extension.

*aa...aa*: Reason that a connection could not be established with the HA monitor or the Hitachi HA Toolkit Extension

HA NOEXIST: The HA monitor or the Hitachi HA Toolkit Extension was not found or is inactive.

PDDIR LEN: The length of the character string set in the PDDIR environment variable exceeded the maximum.

DUPLICATE: An attempt was made to start another server with the same name.

S: Terminates abnormally.

O: Restart HiRDB after correcting the error.

**KFPS01875-E L**

System error detected during communication with HA monitor.  
error code=*aaaa*, detail code=*bbbb*

System error was detected during the HA monitor or Hitachi HA Toolkit Extension communication processing.

*aaaa*: Return code for the HA monitor or Hitachi HA Toolkit Extension

*bbbb*: Detail return code from the HA monitor or Hitachi HA Toolkit Extension

S: For units for which the standby-less system switchover facility is applicable, stops the server. Abnormally terminates any others.

Action

See the HA monitor or Hitachi HA Toolkit Extension message that was output before or after this message, and take appropriate action as indicated in the message. If no the HA monitor or Hitachi HA Toolkit Extension message was output, contact a customer engineer.

**KFPS01877-I L**

HiRDB stop request issued from HA monitor; stops HiRDB.  
reason=*aa...aa*

HiRDB will be terminated because a HiRDB termination request was issued from the HA monitor or the Hitachi HA Toolkit Extension.

*aa...aa*: HiRDB's internal termination cause code (maintenance information)

S: Terminates abnormally.

O: See the HA monitor or Hitachi HA Toolkit Extension message.



**KFPS01878-I L**

HiRDB restart request issued from HA monitor; stops HiRDB temporarily. reason=*aa....aa*

HiRDB will be terminated temporarily because a HiRDB restart request was issued from the HA monitor or the Hitachi HA Toolkit Extension. If the HA monitor is being used, the running system unit was activated before the unit terminated.

*aa....aa*: HiRDB's internal termination cause code (maintenance information)

S: Takes one of the following actions, depending on the startup method used after termination:

Automatic startup: Terminates HiRDB, then starts it automatically.

Manual startup: Terminates HiRDB.

O: If manual startup is used after termination, enter the `pdstart` command to restart HiRDB.

If the HA monitor is being used, when the running system unit is started, it is possible that a `KFPS01878-I` or `KFPS00715-E` message will be output and the start will fail. If the running system unit cannot be started, use the following procedure to start it:

1. Determine whether the unit is stopped using the HA monitor's `monshow` command. (When the `monshow` command is executed, stopped systems are not displayed. If the status of a unit is displayed, this indicates that the unit is not stopped.)
2. Use the `pdrpause` command to re-activate the HiRDB process service.
3. Use the `pdstart` command to start the running system unit.

**KFPS01879-I L**

HiRDB standby state released, status=*aa*

Standby status of HiRDB was released.

*aa*: HiRDB status code (maintenance information)

S: Continues processing.

**KFPS01880-W E**

Statistics already output stopped

The output of statistics information is already stopped.

S: Ignores the command that was entered.

O: Check whether statistics information is being output. Re-execute the `pdstend` command as necessary. To determine whether statistics information is being output, execute the `pdls -d` command.

When adding or changing specifications for the statistics information to be output to the statistics log file, use either the `pdstbegin` or `pdstend` command to specify the contents of the statistics information to be added or changed, and then execute the command.

**KFPS01881-I E+S**

```
Usage: pdstbegin{ [-k statistics_type [,statistics_type]....]
[-m time_interval] [-x host_name [,host_name]....] [-a| -s
server_name[,server_name]....] }
```

Displays the format of `pdstbegin` and `pdstend` commands.

**KFPS01882-E E**

Command argument invalid

A command argument is invalid. Or, an unnecessary argument was specified in the command.

S: Cancels command processing.

O: Correct the command argument and reenter the command.

**KFPS01883-E E**

Cancels processing because the same command running

This message is output in the following two cases:

1. The same command process is already running. This message might be output if a command is re-entered immediately after the command terminates abnormally.
2. This message might be output when a unit or server is started when both of the following conditions are satisfied:
  - The standby-less system switchover (effects distributed) facility is used
  - The `pdstbegin` operand is specified

S: If 1, terminates the command processing.

If 2, continues the command processing.

O: If 1, wait for the executing command process to terminate, and then re-enter the command. If the command terminates abnormally, re-enter the command after a while.

If 2, use the `pdls -d stj` command to determine whether output of the current statistical information has started. If output of statistical information has not started, execute the `pdstbegin` command to start the output of statistical information.

**KFPS01884-E E**

Statistics already output

Statistical information has already been output to the statistics log file.

S: Ignores the entered command.

O: To determine whether statistics information is being output, execute the `pdls -d stj` command. When adding or changing specifications for the statistics information to be output to the statistics log file, use either the `pdstbegin` or `pdstend` command to specify the contents of the statistics information to be added or changed, and then execute the command.

**KFPS01885-E E**

Cancels the comand because shared memory for statistics in server *aa....aa* unable to be allocated

Allocation of shared memory needed to obtain statistical information for server *aa....aa* failed, so the command's processing is being cancelled.

*aa....aa*: Name of the server for which allocation of shared memory was attempted

S: Cancels command processing.

O: Reenter the `pdstart` command without creating a statistics log file for the corresponding server.

**KFPS01886-W R+S**

Cancels system active statistics log output. reason code=*aa....aa*

System activity statistical information cannot be output to the log.

*aa....aa*: Reason code:

MAX PROCESSES:

The number of server processes that can be activated at the same time in HiRDB exceeded the maximum.

S: Resumes processing.

This statistical information will be output the next time system activity statistical information is output. This error does not affect HiRDB's current online activity.

Action

If MAX PROCESSES is displayed in the reason code, the specified maximum number of concurrently activated server processes (the `pd_max_server_process` operand) may be too small. Re-evaluate the specified value of the `pd_max_server_process` operand, and then set the correct value.

**KFPS01888-W E+L**

Too small *aa....aa*. `pd_max_users` assumed. server=*bb...bb*

Value specified in `pd_max_bes_process` or `pd_max_dic_process` was less than the value of `pd_max_users` in the system common definition. The system assumes the value of `pd_max_users`.

*aa...aa*: Name of the definition for which the value of `pd_max_users` was assumed:

`pd_max_bes_process`:

Maximum number of processes that can be started at the back-end server

`pd_max_dic_process`:

Maximum number of processes that can be started at the dictionary server

*bb...bb*: Server name

S: Resumes processing.

Action

Check the value specified for the corresponding `pd_max_bes_process` or `pd_max_dic_process`.

**KFPS01889-E E+L**

Error occurred in HiRDB Datareplicator while executing *aa...aa*.  
server ID=*bb...bb*, function value=*cc...cc*, errno=*dddd*

Error occurred in HiRDB Datareplicator linkage.

*aa...aa*: Name of abnormally terminated subroutine

*bb...bb*: Server name

*cc...cc*: Reason code set by the abnormally terminated subroutine:

INTERNAL ERROR:

Error occurred during internal processing.

SEQUENCE ERROR:

Error was detected in the function issuance order.

PARAMETER ERROR:

Argument was invalid.

FILE ERROR: *HiRDB-Datareplicator-directory-name*:

File for data linkage was invalid (up to 64 characters of the directory name are displayed).

SYSTEM CALL (*system-call-name*) ERROR:

System call error occurred.

FILE LOCK ERROR

A reference privilege or update privilege could not be acquired for the data linkage file.

*dddd*: errno value specified by the abnormally terminated subroutine

S: Suspends HiRDB Datareplicator linkage if HiRDB is starting. Continues HiRDB Datareplicator linkage if the `pdls -d rpl` command is running or if HiRDB is operating.

#### Action

If the reason code is `FILE ERROR` or `SYSTEM CALL ERROR`, check the Datareplicator execution environment of HiRDB and HiRDB Datareplicator. If the `pdls -d rpl` command was executed during system switchover of the unit, this message may be output. Re-execute the command after the system switchover is complete.

Also, if this message is output while HiRDB is running, refer to the event log (in UNIX, `syslogfile`) or execute the `pdls -d rpl` command to check the data linkage status. If the `KFPS05141-I` message is not output, data linkage was not interrupted, so you do not need to recover data linkage. If any other reason code is displayed, contact a customer engineer.

#### **KFPS01890-I L+S**

Statistics: ID=*aa....aa*, number of events=*bb...bb*, average=*cc....cc*, max=*dd....dd*, min=*ee....ee*

Displays statistical information about an event.

*aa....aa*: Event ID

*bb...bb*: Number of times this event occurred

*cc....cc*: Average value of the event

*dd....dd*: Maximum value of the event

*ee....ee*: Minimum value of the event

S: Terminates the command.

#### **KFPS01891-E E+L**

Invalid value for variable *aa....aa* in definition file.

An operand specification value in the HiRDB system definition contains an error.

*aa....aa*: Name of the HiRDB system definition operand

S: Terminates the HiRDB startup processing.

#### Action

Review the value specified in the *aa....aa* operand and start HiRDB.

#### **KFPS01892-E E**

*aa....aa* invalid; stops unit startup. server ID=*bb...bb*, old value=*cc....cc*, new value=*dd....dd*

The unit cannot be restarted because a specification value in operand *aa....aa* was changed.

The value of operand *aa....aa* cannot be changed after abnormal termination or forced termination.

*aa....aa*: Name of the HiRDB system definition operand

*bb....bb*: Server name (if *aa....aa* is a system common definition operand or a unit control information definition operand, **\*\*\*\*\*** is displayed)

*cc....cc*: Old value of operand *aa....aa*

*dd....dd*: New value of operand *aa....aa*

S: Terminates startup processing for the unit.

**Action**

Take a corrective actions according to the information displayed in *aa....aa*:

Displayed as *pd\_max\_users*:

Reset the value of the *pd\_max\_users* operand to the previous value (the value of *cc....cc*) and restart the unit.

Displayed as *pd\_max\_bes\_process* or *pd\_max\_users*:

Take action according to the following table:

Condition		Action
<i>pd_max_bes_process</i> operand omitted		Reset the value of the <i>pd_max_users</i> operand to the previous value (the value of <i>cc....cc</i> ) and restart the unit.
<i>pd_max_bes_process</i> operand specified	$cc....cc > pd\_max\_users$	Reset the value of the <i>pd_bes_process</i> operand to the previous value (the value of <i>cc....cc</i> ) and restart the unit.
	$cc....cc \leq pd\_max\_users$	Reset the values of the <i>pd_max_users</i> and <i>pd_max_bes_process</i> operands to the previous value (the value of <i>cc....cc</i> ) and restart the unit.

*Note*

When changing the value of the *pd\_max\_bes\_process* operand, determine which server definition is to be changed on the basis of the server name indicated in *bb....bb*.

Displayed as *pd\_max\_dic\_process* or *pd\_max\_users*

Take action according to the following table:

Condition		Action
pd_max_dic_process operand omitted		Reset the value of the pd_max_users operand to the previous value (the value of <i>cc....cc</i> ) and restart the unit.
pd_max_dic_process operand specified	<i>cc....cc</i> > pd_max_users	Reset the value of the pd_max_dic_process operand to the previous value (the value of <i>cc....cc</i> ) and restart the unit.
	<i>cc....cc</i> ≤ pd_max_users	Reset the values of the pd_max_users and pd_max_dic_process operands to the previous value (the value of <i>cc....cc</i> ) and restart the unit.

When pd\_max\_list\_users is displayed:

Return the value of the pd\_max\_list\_users operand to what it was before the change (value *cc....cc*). Then, restart the unit.

When pd\_max\_list\_count is displayed:

Return the value of the pd\_max\_list\_count operand to what it was before the change (value *cc....cc*). Then, restart the unit.

When pd\_max\_reflect\_process\_count is displayed:

Return the value of the pd\_max\_reflect\_process\_count operand to what it was before the change (value *cc....cc*). Then, restart the unit.

When pd\_ha\_max\_act\_guest\_servers is displayed:

Return the value of the pd\_ha\_max\_act\_guest\_servers operand to the value before the change (value of *cc....cc*). Then, restart the unit.

#### **KFPS01893-E E**

Error occurred during pd\_ha\_restart\_failure command execution

The command specified in the pd\_ha\_restart\_failure operand of the unit control information definition cannot be started or it terminated abnormally.

S: Terminates unit startup processing

Action

Check the command and the definition.

Either enter the pdstart command and restart the unit or switchover systems.

#### **KFPS01894-I L**

Master\_file\_name = *aa....aa*

Displays the environment of a normally started unit (for a restarted unit, displays its previous environment).

*aa....aa*: First HiRDB file name in the master directory RDAREA

## 2. Messages

S: Resumes processing.

O: Check the execution environment.

### **KFPS01895-E E**

Error found in system definition, file=*aa...aa*, line=*bb...bb*, option=*c*

An error was found in the indicated definition.

*aa...aa*: Definition file name

*bb...bb*: Line number

*c*: Option name

S: Terminates abnormally.

O: Contact the HiRDB system administrator.

Action

Correct the error in the definition file and re-execute HiRDB.

### **KFPS01896-E E+L**

Error found in system configuration. reason code=*aa...aa*

An error was found in the specification of an operand related to system configuration specified in the HiRDB system definition.

*aa...aa*: Reason code

S: Terminates abnormally.

Action

Take action according to the reason code, and then start HiRDB.

Reason code	Action
CURRENT PDDIR ERR <i>directory-name</i>	The HiRDB directory name specified in the environment variable PDDIR and the HiRDB directory specified in the -d option of the pdunit operand do not match. Make the HiRDB directory names match. Note that the displayed directory name is the HiRDB directory name specified in the -d option, and that a maximum of only 63 characters are displayed.
CURRENT PORT NUMBER ERR <i>unit-identifier</i>	The port number specified in the -p option of the pdunit operand and the port number specified in the pd_name_port operand do not match. Make the port numbers match.
CURRENT UNIT ID ERR <i>unit-identifier</i>	<ul style="list-style-type: none"><li>The unit identifier specified in the -u option of the pdstart operand and the unit identifier specified in the -u option of the pdunit operand do not match. Make the unit identifiers match.</li><li>The unit identifiers specified in the -u option of the pdstart operand were duplicated. Take action to resolve the unit identifier duplication in the system.</li></ul>



Reason code	Action
DUPLICATE DIC	Multiple DICs are specified in the <code>-t</code> option of the <code>pdstart</code> operand. Specify only one DIC in the system.
DUPLICATE HOSTNAME <i>host-name</i>	The host names specified in the <code>-x</code> option of the <code>pdunit</code> operand were duplicated. Take action to resolve the host name duplication in the system.
DUPLICATE HOSTNAME <i>unit-identifier</i>	The host names specified in the <code>-x</code> option and <code>-c</code> option of the <code>pdunit</code> operand were duplicated. Specify the host name of the primary system in the <code>-x</code> option and specify the host name of the secondary system in the <code>-c</code> option. Specify different host names for the primary system and secondary system. When not using the system switchover facility, do not specify the <code>-c</code> option.
DUPLICATE MGR	Multiple MGRs are specified in the <code>-t</code> option of the <code>pdstart</code> operand. Specify only one MGR in the system.
DUPLICATE PDDIR <i>directory-unit-identifier</i>	HiRDB directories specified in the <code>-d</code> option of the <code>pdunit</code> operand were the same. For mutual system switchover configurations, specify a different HiRDB directory for each unit. Windows does not distinguish between upper case and lower case letters, so errors occur when HiRDB directory names differ only in the case of the letters in the name.
DUPLICATE PORT NUMBER <i>unit-identifier</i>	The port numbers specified in the <code>-p</code> option of the <code>pdunit</code> operand were the same. For mutual system switchover configurations, specify a different port number for each unit.
DUPLICATE SERVER ID <i>server-name</i>	The server names specified in the <code>-s</code> option of the <code>pdstart</code> operand were the same. Take action to resolve the server name duplications in the system. Windows does not distinguish between upper case and lower case letters, so errors occur when HiRDB directory names differ only in the case of the letters in the name.
DUPLICATE UNIT ID <i>unit-identifier</i>	The unit identifiers specified in the <code>-u</code> option of the <code>pdunit</code> operand were the same. Take action to resolve the unit identifier duplications in the system.
FES SAME UNIT	Multiple front-end servers were defined in the same unit. Only one front-end server can be defined in a unit.
INVALID Datareplicator environment	The execution environment of HiRDB Datareplicator is invalid. Check the execution environment of HiRDB Datareplicator.
MISSING <code>pdunit</code> <i>host-name</i>	The host name specified in the <code>-x</code> option of the <code>pdstart</code> operand and the host name specified in the <code>-x</code> option of the <code>pdunit</code> operand do not match. Make the host names match.
NEED TO SPECIFY <code>pd_rpl_hdepath</code>	The <code>pd_rpl_hdepath</code> operand is not specified. When using HiRDB Datareplicator, specify the extracted HiRDB Datareplicator directory in the <code>pd_rpl_hdepath</code> operand.
NEED TO SPECIFY <code>pdunit</code> <code>-c</code> <i>host-name</i>	The <code>-c</code> option of the <code>pdunit</code> operand was not specified. Specify this option for system switchovers that do not inherit IP addresses.

## 2. Messages

Reason code	Action
NEED TO SPECIFY <code>pdunit</code> <code>-p port-number</code>	The <code>-p</code> option of the <code>pdunit</code> operand was not specified. Specify this option if you are using a utility special unit. Specify this option if you are using HiRDB/Parallel Server in a mutual system switchover configuration.
NO BES	There is no back-end server specification. The system requires at least one back-end server. Re-evaluate specification of the <code>-t</code> option in the <code>pdstart</code> operand.
NO DIC	There is no directory server specification. The system requires at least one directory server. Re-evaluate specification of the <code>-t</code> option in the <code>pdstart</code> operand.
NO FES	There is no front-end server specification. The system requires at least one front-end server. Re-evaluate specification of the <code>-t</code> option in the <code>pdstart</code> operand.
NO MGR	There is no system manager specification. The system requires one system manager. Re-evaluate specification of the <code>-t</code> option in the <code>pdstart</code> operand.
OUT OF SYSTEM	The host name of the host that executes HiRDB was not specified in the <code>-x</code> option of the <code>pdunit</code> operand. Re-evaluate the specification of the <code>-x</code> option in the <code>pdunit</code> operand.
SDS SAME UNIT	Multiple single servers were defined in the same unit. Re-evaluate the specification of the <code>pdstart</code> operand.
UNABLE TO SPECIFY <code>pdunit -c unit-identifier</code>	The <code>-c</code> option of the <code>pdunit</code> operand can be specified only when using a system switchover facility that does not inherit IP addresses. Delete the <code>-c</code> option when it does not apply.
In UNIX: UNKNOWN HOSTNAME <code>host-name (/etc/hosts)</code> <code>unit-identifier</code>	The host name specified in the <code>pdunit</code> operand is not registered in the <code>hosts</code> file. Either change the host name specified in the <code>pdunit</code> operand or add the host name specified in the <code>pdunit</code> operand to the <code>hosts</code> file. If DNS is used, this reason code message is output even if DNS is set correctly. In this case, ignore this message.
In Windows: UNKNOWN HOSTNAME <code>host-name</code> <code>(%windir%\system32\drivers\etc\hosts)</code> <code>unit-identifier</code>	
INVALID <code>pdcltgrp</code> <code>client-group-name</code>	The group name specified in the <code>-g</code> option of the <code>pdcltgrp</code> operand is invalid. Re-evaluate the specification of the <code>-g</code> option. For details about client groups, see the <i>HiRDB Version 8 System Operation Guide</i> .
NUMBER OF <code>pdcltgrp</code> EXCEEDS THE LIMIT	The number of user-specified <code>pdcltgrp</code> operand specifications exceeded 10. Reduce the number of specifications to 10 groups or less.

Reason code	Action
EXCEEDED pd_max_users	The total number of minimal-guarantee connections for each client group specified by the pdcltgrp operand exceeded the value of the pd_max_users operand. Either decrease the total number of minimal-guarantee connections or increase the value of the pd_max_users operand.
DUPLICATE pdcltgrp client-group-name	The client group name specified by the pdcltgrp operand was duplicated. Take action to resolve the client group name duplication.
NUMBER OF SERVER EXCEEDS THE LIMIT	The number of servers exceeded the limit of servers in a unit (34). Re-evaluate the specification of the pdunit operand and reduce the number of servers defined in a unit.
UNABLE TO SPECIFY pd_ha_agent	<p>An error was found in the preconditions for using the rapid system switchover facility. Specify the following operands to use the rapid system switchover facility:</p> <ul style="list-style-type: none"> <li>• pd_ha = use</li> <li>• Do not specify pd_ha_unit</li> <li>• pd_ha_ipaddr_inherit = N</li> <li>• pd_ha_acttype = server</li> </ul> <p>If the standby-less system switchover or standby-less system switchover (effects distributed) is used, the following operands must be specified. Check the contents specified for each operand.</p> <ul style="list-style-type: none"> <li>• pd_ha = use</li> <li>• pd_ha_unit is not specified.</li> <li>• pd_ha_acttype = server</li> </ul>
INVALID pd_max_users_wrn_pnt operand	An error was found in the specification of the pd_max_users_wrn_pnt operand. Specify a value in the specifiable range.
INVALID pd_aud_file_wrn_pnt operand	An error was found in the specification of the pd_aud_file_wrn_pnt operand. Specify a value in the specifiable range.
NUMBER OF CONNECT USERS EXCEEDS THE LIMIT	The sum of the values specified in the pc_max_users operand and the pd_max_reflect_process_count operand (considered to be 0 if no value is specified) exceeds the maximum that can be specified in the pd_max_users operand. Take corrective action so that this sum is equal to or less than the maximum that can be specified in the pd_max_users operand.

2. Messages

Reason code	Action
NUMBER OF PROCESSES EXCEEDS THE LIMIT, <i>server = server-name</i>	<ul style="list-style-type: none"> <li>The applicable server is a back-end server: The sum of the values specified in the <code>pd_max_bes_process</code> operand and the <code>pd_max_reflect_process_count</code> operand (considered to be 0 if no value is specified) exceeds the maximum that can be specified in the <code>pd_max_bes_process</code> operand. Take corrective action so that this sum is equal to or less than the maximum that can be specified in the <code>pd_max_bes_process</code> operand.</li> <li>The applicable server is a dictionary server: The sum of the values specified in the <code>pd_max_dic_process</code> operand and the <code>pd_max_reflect_process_count</code> operand (considered to be 0 if no value is specified) exceeds the maximum that can be specified in the <code>pd_max_dic_process</code> operand. Take corrective action so that this sum is equal to or less than the maximum that can be specified in the <code>pd_max_dic_process</code> operand.</li> </ul>
NEED TO SPECIFY <code>pd_rise_pairvolume_combination</code>	There is no specification of the <code>pd_rise_pairvolume_combination</code> operand. If <code>Y</code> is specified in the <code>pd_rise_use</code> operand, specify the <code>pd_rise_pairvolume_combination</code> operand.
NEED TO SPECIFY <code>pd_hostname</code>	There is no <code>pd_hostname</code> operand specification. If <code>Y</code> is specified in the <code>pd_rise_use</code> operand, specify the <code>pd_hostname</code> operand.
INVALID <code>pd_mode_conf</code>	The specification of the <code>pd_mode_conf</code> operand is invalid. If <code>Y</code> is specified in the <code>pd_rise_use</code> operand, specify <code>MANUAL1</code> or <code>MANUAL2</code> in the <code>pd_mode_conf</code> operand.
INVALID <code>pd_dbsync_point</code>	The specification of the <code>pd_dbsync_point</code> operand is invalid. If <code>hybrid</code> or <code>sysync</code> is specified in the <code>pd_rise_pairvolume_combination</code> operand, <code>commit</code> cannot be specified in the <code>pd_dbsync_point</code> operand.
NEED TO SPECIFY <code>pd_rise_fence_level</code>	There is no specification of the <code>pd_rise_fence_level</code> operand. If <code>Y</code> is specified in the <code>pd_rise_use</code> operand and <code>sync</code> , <code>hybrid</code> , or <code>sysync</code> is specified in the <code>pd_rise_pairvolume_combination</code> operand, the <code>pd_rise_fence_level</code> operand must be specified.
INVALID KIND	Specification of the <code>pdstart</code> operand with the <code>-k</code> option is invalid. Or, multiple function names are specified in the <code>-k</code> option. Revise the <code>-k</code> option.
INVALID <code>pdstart -k stls</code>	Specification of the <code>pdstart</code> operand with the <code>-k</code> option is invalid. Consider the following causes: <ul style="list-style-type: none"> <li><code>-k stls</code> is specified on a server other than a front-end server. The <code>-k stls</code> option can only be specified on a front-end server.</li> <li><code>-k stls</code> is specified on a server of a unit that holds a server other than a front-end server. The <code>-k stls</code> option cannot be specified on the server of a unit that holds a server other than a front-end server.</li> </ul>

Reason code	Action
INVALID <code>pdstart -c</code>	The alternate BES name specified in the system common definition <code>pdstart -c</code> operand is invalid. Revise the alternate BES name specified in the system common definition <code>pdstart -c</code> operand. This reason code may be accompanied by maintenance information.
INVALID <code>pdstart -t</code>	A server other than a back-end server was defined on the unit specified in the system common definition <code>pdstart -c</code> operand. A server other than a back-end server cannot be defined on a unit specified in the <code>pdstart -c</code> operand. Revise the <code>pdstart -c</code> operand specification and the server type on the alternate BES unit. This reason code may be accompanied by maintenance information.
INVALID <code>pdunit -d:</code> error about <i>host-name:host-name</i>	The HiRDB directories for the normal BES unit and the alternate BES unit where the standby-less system switchover (1:1) facility is applied are different. Make the HiRDB directory for the normal BES unit and the alternate BES unit where the standby-less system switchover (1:1) facility is applied the same.
INVALID <code>pdunit -p:</code> error about <i>host-name:host-name</i>	The port numbers for the normal BES unit and the alternate BES unit where the standby-less system switchover (1:1) facility is applied are different. Make the port number for the normal BES unit and the alternate BES unit where the standby-less system switchover (1:1) facility is applied the same.
NUMBER OF <i>pdhagroup</i> EXCEEDS THE LIMIT	Two or more HA groups are defined. Define only one HA group.
NO SERVER IN HAGROUP UNIT <i>unit-identifier</i>	There is no primary system server among the units in the HA group. Define primary system server.
INVALID SERVER IN UNIT <i>unit-identifier</i>	There is a server other than a back-end server defined among the units of an HA group or in normal BES units for which <code>server</code> was specified in the <code>pd_ha_agent</code> operand. Define only back-end servers among the units of an HA group or in normal BES units for which <code>server</code> was specified in the <code>pd_ha_agent</code> operand.
INVALID <code>pd_ha_agent</code> <i>unit-identifier</i>	For the units in an HA group, <code>activeunits</code> was not specified in the <code>pd_ha_agent</code> operand. Specify <code>activeunits</code> in the unit control information definition <code>pd_ha_agent</code> operand of the unit specified in the <code>pdhagroup -u</code> operand.
NEED TO SPECIFY <code>pdstart -g: server-name</code>	There is no HA group specification among the servers of the units in an HA group. Specify the HA group identifier that the unit belongs to in the <code>pdstart -g</code> operand for the servers in the units specified in the <code>pdhagroup -u</code> operand.
INVALID <code>pdstart -g: server-name</code>	The servers of the units in the HA group are not included in the same HA group as the unit. Specify the HA group identifier that the unit belongs to in the <code>pdstart -g</code> operand for the servers in the units specified in the <code>pdhagroup -u</code> operand.
INVALID <code>pdhagroup -u</code> <i>unit-identifier</i>	The unit specified in the <code>pdhagroup -u</code> operand was not defined in the <code>pdunit -u</code> operand. Revise the specification of the <code>pdhagroup -u</code> operand and the <code>pdunit -u</code> operand.

## 2. Messages

Reason code	Action
INVALID pdunit -p: error about HA <i>group-identifier</i>	The port numbers of the units in the HA group are different. Specify the same port number in the pdunit -p operand for all units in the HA group.
INVALID pdunit -d: error about HA <i>group-identifier</i>	The HiRDB directories of the units in the HA group are different. Specify the same HiRDB directory in the pdunit -d operand for all units in the HA group.
UNABLE TO SPECIFY pdstart -g <i>server-name</i>	The pdstart -g operand was specified for servers in units not included in the HA group. The pdstart -g operand can only be specified for servers in units specified in the pdhagroup -u operand. Revise the pdhagroup -u operand and the pdstart operand.
NEED TO ADD <i>unit-identifier</i> TO pdhagroup -u	Units for which activeunits was specified in the pd_ha_agent operand were not specified in the pdhagroup -u operand, and activeunits is specified in the unit control information definition pd_ha_agent operand of units not included in the HA group. Revise the pdhagroup -u operand and the pd_ha_agent operand.
UNABLE TO SPECIFY pd_ha_max_act_guest_ser vers	The pd_ha_max_act_guest_servers operand was specified for units not included in the HA group. The pd_ha_max_act_guest_servers operand can be specified only for units specified in the pdhagroup -u operand. Revise the pdhagroup -u operand and the pd_ha_max_act_guest_servers operand.
UNABLE TO SPECIFY SAME SYSTEM pdstart -c, pdstart -g	A server with the pdstart -c operand specified and a server with the pdstart -g operand specified are mixed within the same system. The standby-less system switchover (1:1) cannot be mixed in the same system with the standby-less system switchover (effects distributed). Revise the pdstart operand.
INVALID pd_rpl_reflect_mode operand	The specification of the pd_rpl_reflect_mode operand is invalid. With HiRDB/Single Server, uap cannot be specified in the pd_rpl_reflect_mode operand. Refer to the manual <i>HiRDB Datareplicator Version 8</i> , revise the transaction reflection formula, and revise the system common definition pd_rpl_reflect_mode operand.
INVALID pd_hostname	The host name specified in the pd_hostname operand cannot be converted to an IP address. Check the following items, and correct any error: <ul style="list-style-type: none"> <li>• Error in the hosts file setting</li> <li>• Invalid privilege to the hosts file</li> <li>• Setting error in the file that contains the DNS or NIS settings (nsswitch.conf, resolv.conf, etc.)</li> <li>• Invalid privilege to the file that contains the DNS or NIS settings (nsswitch.conf, resolv.conf, etc.)</li> </ul> Also, if DNS or NIS is being used, a communication error might occur with the DNS server or NIS server.

### KFPS01897-E E

Error found in system definition. file=*aa...aa*, line=*bb...bb*

An error was found in the indicated definition.

*aa....aa*: Definition file name

*bb....bb*: Line number

S: Terminates abnormally.

Action

Correct the definition file and re-execute HiRDB.

**KFPS01898-E E+L**

Error occurred while starting server, server ID=*aa....aa*, server type=*bbb*, reason code=*cc....cc*

An error occurred while starting a HiRDB server.

*aa....aa*: Server name

*bbb*: Type of server

*cc....cc*: Cause:

CONFIGURATION:

Error occurred during definition analysis.

SERVER INIT ERROR:

Error occurred during initialization of the HiRDB server.

SERVER START ERROR:

Error occurred during activation of a HiRDB server process.

S: CONFIGURATION displayed as the cause:

Resumes processing.

SERVER INIT ERROR or SERVER START ERROR displayed as the cause:

Terminates the unit abnormally.

Action

For errors that occurred during definition analysis, correct the content of the definition file and use the server start command to start the server on which the error occurred. If the error occurs when initializing the HiRDB server or activating a process, take action according to the message output before or after this message.

**KFPS01899-E E**

Error occurred while initializing server, server ID=*aa....aa*, server type=*bbb*, reason code=*cc....cc*

An error occurred while initializing a HiRDB server.

## 2. Messages

*aa...aa*: Server name

*bbb*: Type of server

*cc...cc*: Cause:

CONFIGURATION: Error occurred during definition analysis.

S: Terminates abnormally.

Action

Correct the error in the definition file and re-execute HiRDB.

### **KFPS01902-E E**

Unable to start message log service due to insufficient memory  
The message log service function cannot be started due to insufficient process private area.

S: Cancels processing.

Action

Terminate any unneeded processes and restart HiRDB.

### **KFPS01903-E E**

Unable to start message log service due to communication failure  
The message log service function cannot be started due to a communication error.

S: Cancels processing.

Action

If an error is found in the access privileges or settings defined in the `hosts` file, correct the `hosts` file. Check for the cause of the communication error, eliminate the cause, and then restart HiRDB.

### **KFPS01910-I E+L**

Message log file changed over from *aa...aa* to *bb...bb*

The message log obtained after this message will be output to the indicated message log file.

*aa...aa*: Name of the current message log file \*

*bb...bb*: Name of the new message log file \*

*Note*

To retain multiple generations of the message log file, save the current message log file immediately after output of this message.

\* The message log file name is displayed by the absolute path. If the path exceeds 89



characters, only the last 89 characters are displayed.

S: Resumes processing.

**KFPS01911-E E+L**

Error occurred while preprocessing message log file *aa....aa*

An error occurred in the message log file due to the cause indicated in the KFPO00107-E message (reporting a start or open system call error) that was output before this message.

*aa....aa*: Name of the message log file resulting in the error

The message log file name is displayed by the absolute path. If the path exceeds 165 characters, only the last 165 characters are displayed.

S: Cancels processing.

Action

Eliminate the cause of the message log file error and restart HiRDB.

**KFPS01912-E E+L**

Error occurred while opening message log file *aa....aa*

A message log file open error occurred due to the cause indicated in the KFPO00107-E message (reporting an open system call error) that was output before this message.

*aa....aa*: Name of the message log file resulting in the error

The message log file name is displayed by the absolute path. If the path exceeds 171 characters, only the last 171 characters are displayed.

S: Cancels processing.

Action

Eliminate the cause of the message log file error and restart HiRDB.

**KFPS01913-E E**

Error occurred during message log file changeover; message log output destination changed to standard error output

An error occurred during message log file swapping. The output destination of the message log is being changed to the standard error.

S: Changes the output destination of the message log to standard error, and then continues processing.

Action

Check the KFPS01912-E message output before this message for the cause of the error and correct the error so that the message log file can be opened.

**KFPS01914-E E**

I/O error occurred in message log file *aa....aa*; message log output destination changed to standard error output

Because an I/O error occurred in log file *aa....aa*, the message log output destination was changed to the standard error.

*aa....aa*: Name of the message log file resulting in the error

S: Changes the output destination of the message log to standard error, and then continues processing.

Action

Check the cause of the I/O error (such as a full disk) and correct the error.

**KFPS01915-I E+L**

Message log output destination changed from standard error output to message log file *aa....aa*

A message log file was opened successfully (by retry), and the message log output destination was changed from the standard error to the message log file.

*aa....aa*: Name of the message log file after change

The message log file name is displayed by the absolute path. If the path exceeds 131 characters, only the last 131 characters are displayed.

S: Changes the message log output destination to the message log file and resumes processing.

**KFPS01920-E E**

Unable to handle program version *aa....aa* that requested message log output in this system. request source process ID=*bb....bb*

A message log output request cannot be accepted, because the version of the message log service function that is being used by the program that issued the request does not match the version of the log server.

*aa....aa*: Version of the message log service function that is being used by the program that issued the message log output request

*bb....bb*: Process ID of the source requesting output of message log

S: Resumes processing.

Action

If the program requesting output of message log is a system program, contact a customer engineer.

**KFPS01933-E E**

Unable to output message *aa....aa* due to invalid parameter

Message log cannot be output, because a parameter is invalid for the message log

service function.

*aa....aa*: Serial number assigned to the message ID of the message log that cannot be output

S: Resumes processing.

Action

Record this message log and the message ID of the message log that could not be output, and contact a customer engineer.

**KFPS01943-E E**

Unable to output message *aa....aa* due to invalid parameter

Message log cannot be output, because a parameter is invalid for the message log service function.

*aa....aa*: Message ID of the message log that cannot be output

S: Resumes processing.

Action

Record this message log and the message ID of the message log that could not be output, and contact a customer engineer.

**KFPS01944-E E**

Unable to output message *aa....aa*; invalid parameter for message log service

Message log *aa....aa* cannot be output, because a parameter is invalid for the message log service function.

*aa....aa*: Message ID of the message log that cannot be output

S: Resumes processing.

Action

Record this message log and the message ID of the message log that could not be output, and contact a customer engineer.

**KFPS01945-E E+L**

failed in output of log message to JP1; output to JP1 is restrained. maintenance info: *aa....aa*

Output to the Job Management Partner 1 event server was suppressed because log message output to the Job Management Partner 1 event server failed.

*aa....aa*: Maintenance information

S: Suppresses output to the Job Management Partner 1 event server.

P: Contact the HiRDB administrator.

## 2. Messages

### Action

If messages must be output to the Job Management Partner 1 (Job Management Partner/Base or Job Management Partner/System Event Service) event server, investigate the cause of the failed connection and eliminate it.

#### **KFPS01946-I S+L**

Restarts log message output to JP1.

Output of log messages to the Job Management Partner 1 event server was restarted because log message output to the Job Management Partner 1 event server succeeded.

S: Resumes processing.

#### **KFPS01947-E E+L**

I/O error occurred during output of log message to JP1.  
maintenance info: *aa....aa*

An I/O error occurred when a log message was being output to the Job Management Partner 1 event server.

*aa....aa*: Maintenance information

S: Resumes processing.

P: Contact the HiRDB administrator.

### Action

If messages must be output to the Job Management Partner 1 (Job Management Partner/Base or Job Management Partner/System Event Service) event server, investigate the cause of the failed connection and eliminate it.

#### **KFPS01948-E E+L**

Unable to connect to event server of JP1

A connection to the Job Management Partner 1 event server cannot be established.

There is a specification to notify Job Management Partner 1 of HiRDB events (Y is specified in the `pd_jp1_use` operand), but a connection could not be established with the Job Management Partner 1 event server.

S: Resumes processing.

### Action

If message output to the Job Management Partner 1 (Job Management Partner/Base or Job Management Partner/System Event Service) event server is necessary, investigate the cause of the failed connection and eliminate it. If this is not necessary, specify not to notify Job Management Partner 1 of HiRDB events (specify N in the `pd_jp1_use` operand), and restart HiRDB.

**KFPS01950-I E+S**

Usage: pdcats [-ab] [-c E |W |I |Q] [-x host name] [-d start date]  
 [-t start time] [-T stop time] [-n record number] [message log  
 file name]

Displays the format of the pdcats command. This message is output when a specified command option or argument is invalid.

O: If a command option or argument is invalid, reenter the command specified correctly.

**KFPS01951-E E**

Insufficient memory

A shortage occurred in the process private area while executing a message log service function command.

S: Cancels processing.

Action

Terminate any unneeded process.

**KFPS01952-E E**

Error occurred during message log service. maintenance  
 information= aa....aa

The message log service function resulted in an error.

aa....aa: Maintenance information

S: Cancels processing.

Action

Record this message and contact a customer engineer.

**KFPS01953-E E**

Failed in obtaining message log file storage directory

The system failed to obtain the message log file storage directory.

S: Cancels processing.

O: Set the PDDIR environment variable and re-execute.

**KFPS01954-E E**

Unable to open message log file aa....aa

The indicated message log file cannot be opened, because it was not found or the read privilege has not been defined for the message log file.

aa....aa: Name of message log file

S: Cancels open processing for the corresponding message log file.

## 2. Messages

O: Take appropriate action and re-execute.

Action

If the read privilege has not been defined for the corresponding message log file, define the privilege.

### **KFPS01955-E E**

I/O error occurred in message log file *aa...aa*

An error occurred in the message log file due to the cause indicated by the KFPO00107-E message that was output before this message.

*aa...aa*: Message log file name

S: Cancels processing.

Action

Eliminate the cause of the message log file error and re-execute.

### **KFPS01956-E E**

I/O error occurred in message log file *aa...aa*

Processing of the indicated file was cancelled due to a disk I/O error.

*aa...aa*: Name of message log file

S: Cancels all types of processing involving the corresponding file.

### **KFPS01957-E E**

File *aa...aa* is not a message log file

File *aa...aa* is not a message log file.

*aa...aa*: Name of the file that was to be processed

S: Aborts processing involving the applicable file.

### **KFPS01958-E E**

Unable to handle the version (*aa...aa*) of the message log file (*bb...bb*) in this command

The system failed to obtain the last update time because the applicable message log file was not found, or for some similar reason.

*aa...aa*: Name of message log file

*bb...bb*: Version number of the message log file

S: Cancels all types of processing involving the corresponding file.

Action

Contact a customer engineer.

**KFPS01959-E E**

No message log to output  
There is no message log to be output.

**KFPS01968-E E**

Unable to find message log file (*aa....aa*)  
Specified file was not found.  
*aa....aa*: Name of specified file  
S: Ignores the specified file and resumes processing.  
Action  
Record this message and contact a customer engineer.

**KFPS01971-E E**

Communication failure occurred  
Command cannot be executed due to a communication error.  
S: Cancels processing.  
Action  
Refer to the message that was output immediately before this message to check the cause of the communication error, and correct the error.

**KFPS01972-E E**

Message log server inactive or terminated  
Because the message log server is not active or is engaged in termination processing, an entered command cannot be executed.  
S: Cancels processing.  
Action

Start HiRDB with the `pdstart` command.

**KFPS01973-E E**

Versions of message log server and command are different  
A command cannot be executed, because its version does not match the version of the message log server.  
S: Cancels processing.  
Action

Check the HiRDB installation method for an error.

**KFPS01974-E E**

Real-time output function active

## 2. Messages

The realtime output function is active.

### **KFPS01975-E E**

Real-time output function inactive

The realtime output function is not active.

### **KFPS01976-E E**

Unable to set environmental variable *aa....aa*

Environment variable *aa....aa* has not been set.

*aa....aa*: Name of the environment variable that has not been set

S: Cancels processing.

O: Set the environment variable and re-execute.

### **KFPS01977-E E**

Name server inactive; unable to execute command

A command cannot be executed, because the name server is not active.

Action

Start HiRDB with the `pdstart` command.

### **KFPS01978-E E**

Invalid command argument

A command argument is missing, or too many command arguments were specified.

S: Cancels command processing.

O: Reenter the command according to the command usage displayed immediately after this message log.

### **KFPS01979-E E**

Mandatory option flag not specified or option flags specified in incorrect combination

A required option flag is missing, or the combination of option flags is invalid.

S: Cancels command processing.

O: Reenter the command according to the command usage displayed immediately after this message log.

### **KFPS01980-E E+S**

\*\*\* Unable to output message (*aa....aa*) due to memory shortage;  
component (*bbb*) \*\*\*\*

Message log cannot be output due to a memory shortage.

*aa....aa*: Message ID of the message log that cannot be output

*bbb*: Name of the component that issued the message log output request



S: Resumes processing.

Action

Terminate any unneeded processes. Check the appropriate message according to the message ID cross-reference table and the message ID:

Component name	First 4 digits of message ID
bac, cpy, jar, rec	KFPR
bpp, cit, cpp	KFPZ
dbh	KFPH
dfc	KFPB
dic	KFPD
dsa, sta	KFPK
exp, int, mod	KFPX
goi, ric	KFPN
ios	KFPI
osl	KFPO
lod, rld	KFPL
sqa	KFPA
utl	KFPU
Other	KFPS

**KFPS01981-E E+S**

\*\*\* Unable to output message (*aa....aa*) due to memory shortage;  
component (*bbb*) \*\*\*\*

Message log cannot be output due to a memory shortage.

*aa....aa*: Serial number assigned to the message ID of the message log that cannot be output

*bbb*: Name of the component that issued the message log output request

S: Resumes processing.

Action

Terminate any unneeded processes. Check the appropriate message according to the message ID cross-reference table and the message ID:

## 2. Messages

Component name	First 4 digits of message ID
bac, cpy, jar, rec	KFPR
bpp, cit, cpp	KFPZ
dbh	KFPH
dfc	KFPB
dic	KFPD
dsa, sta	KFPK
exp, int, mod	KFPX
goi, ric	KFPN
ios	KFPI
osl	KFPO
lod, rld	KFPL
sqa	KFPA
utl	KFPU
Other	KFPS

### KFPS01983-E E+S

\*\*\* Unable to output message (*aa...aa*) due to message log file version different; component (*bbb*) \*\*\*\*

Message log cannot be output, because the version of the message log file does not match the version of the program that issued the request.

*aa...aa*: Serial number assigned to the message ID of the message log that cannot be output

*bbb*: Name of the component that issued the message log output request

S: Resumes processing.

#### Action

Relink the executed program. Check the appropriate message according to the message ID cross-reference table and the message ID:

Component name	First 4 digits of message ID
bac, cpy, jar, rec	KFPR

Component name	First 4 digits of message ID
bpp, cit, cpp	KFPZ
dbh	KFPH
dfc	KFPB
dic	KFPD
dsa, sta	KFPK
exp, int, mod	KFPX
goi, ric	KFPN
ios	KFPI
osl	KFPO
lod, rld	KFPL
sqa	KFPA
utl	KFPU
Other	KFPS

**KFPS01984-E E+S**

\*\*\* Unable to output message (*aa....aa*) due to message log file not found; component (*bbb*) \*\*\*\*

Message log cannot be output, because the message log file was not found.

*aa....aa*: Serial number assigned to the message ID of the message log that cannot be output

*bbb*: Name of the component that issued the message log output request

S: Resumes processing.

**Action**

Ensure that the PDDIR environment variable has been specified correctly. Check the appropriate message according to the message ID cross-reference table and the message ID:

Component name	First 4 digits of message ID
bac, cpy, jar, rec	KFPR
bpp, cit, cpp	KFPZ
dbh	KFPH

## 2. Messages

Component name	First 4 digits of message ID
dfc	KFPB
dic	KFPD
dsa, sta	KFPK
exp, int, mod	KFPX
goi, ric	KFPN
ios	KFPI
osl	KFPO
lod, rld	KFPL
sqa	KFPA
utl	KFPU
Other	KFPS

### KFPS01985-E E+S

\*\*\* Unable to output message (*aa...aa*) due to message log file I/O error; component (*bbb*) \*\*\*\*

Message log cannot be output, because an I/O error occurred in the message log file.

*aa...aa*: Serial number assigned to the message ID of the message log that cannot be output

*bbb*: Name of the component that issued the message log output request

S: Resumes processing.

#### Action

Check the appropriate message according to the message ID cross-reference table and the message ID:

Component name	First 4 digits of message ID
bac, cpy, jar, rec	KFPR
bpp, cit, cpp	KFPZ
dbh	KFPH
dfc	KFPB
dic	KFPD

Component name	First 4 digits of message ID
dsa, sta	KFPK
exp, int, mod	KFPX
goi, ric	KFPN
ios	KFPI
osl	KFPO
lod, rld	KFPL
sga	KFPA
utl	KFPU
Other	KFPS

If the error cannot be corrected by the user, record this message and the ID serial number of the message that could not be output and contact a customer engineer.

#### **KFPS01986-E E+S**

\*\*\* Unable to output message (*aa...aa*) due to message log file access denied; component (*bbb*) \*\*\*

Message log cannot be output, because no access privilege has been defined for the message log file.

*aa...aa*: Serial number assigned to the message ID of the message log that cannot be output

*bbb*: Name of the component that issued the message log output request

S: Resumes processing.

#### Action

If there is no read permission for the message log file, provide read permission. If there is no retrieval permission for the directories on the message log file path, provide retrieval permission. Check the appropriate message according to the message ID cross-reference table and the message ID:

Component name	First 4 digits of message ID
bac, cpy, jar, rec	KFPR
bpp, cit, cpp	KFPZ
dbh	KFPH
dfc	KFPB

## 2. Messages

Component name	First 4 digits of message ID
dic	KFPD
dsa, sta	KFPK
exp, int, mod	KFPX
goi, ric	KFPN
ios	KFPI
osl	KFPO
lod, rld	KFPL
sqa	KFPA
utl	KFPU
Other	KFPS

### **KFPS01989-E E**

Unable to make message log file: file (*aa...aa*) version error.  
file=*bb...bb*, command=*cc...cc*

Message log file cannot be created, because the entered command cannot process this version of the message log file (which is later than the command's version).

*aa...aa*: Name of the file resulting in the error

*bb...bb*: File version

*cc...cc*: Command version

S: Cancels command execution.

Action

Record this message and contact a customer engineer.

### **KFPS01990-E E+S**

\*\*\* Unable to output message (*aa...aa*) due to parameter too many;  
component (*bbb*) \*\*\*\*

Message log cannot be output due to an invalid parameter.

*aa...aa*: Serial number assigned to the message ID of the message log that cannot be output

*bbb*: Name of the component that issued the message log output request

S: Resumes processing.

Action

Check the appropriate message according to the message ID cross-reference table and the message ID:

Component name	First 4 digits of message ID
bac, cpy, jar, rec	KFPR
bpp, cit, cpp	KFPZ
dbh	KFPH
dfc	KFPB
dic	KFPD
dsa, sta	KFPK
exp, int, mod	KFPX
goi, ric	KFPN
ios	KFPI
osl	KFPO
lod, rld	KFPL
sqa	KFPA
utl	KFPU
Other	KFPS

If the error cannot be corrected by the user, record this message and the ID serial number of the message that could not be output and contact a customer engineer.

**KFPS01991-E E+S**

\*\*\* Unable to output message (*aa...aa*) due to parameter not enough; component (*bbb*) \*\*\*

Message log cannot be output due to an invalid parameter.

*aa...aa*: Serial number assigned to the message ID of the message log that cannot be output

*bbb*: Name of the component that issued the message log output request

S: Resumes processing.

Action

Check the appropriate message according to the message ID cross-reference table and the message ID:

## 2. Messages

Component name	First 4 digits of message ID
bac, cpy, jar, rec	KFPR
bpp, cit, cpp	KFPZ
dbh	KFPH
dfc	KFPB
dic	KFPD
dsa, sta	KFPK
exp, int, mod	KFPX
goi, ric	KFPN
ios	KFPI
osl	KFPO
lod, rld	KFPL
sqa	KFPA
utl	KFPU
Other	KFPS

If the error cannot be corrected by the user, record this message and the ID serial number of the message that could not be output and contact a customer engineer.

### **KFPS01992-I E+S**

\*\*\* Unable to output message (*aa....aa*) due to message too long;  
component (*bbb*) \*\*\*

A message was truncated, because the edited message length exceeded the maximum length.

*aa....aa*: Serial number assigned to the message ID of the message log that cannot be output

*bbb*: Name of the component that issued the message log output request

S: Resumes processing.

#### Action

Record this message and the ID serial number of the message that could not be output and contact a customer engineer.



**KFPS01993-E E+S**

\*\*\* Unable to output message (*aa....aa*) due to invalid argument;  
component (*bbb*) \*\*\*

Message log cannot be output due to an invalid parameter.

*aa....aa*: Serial number assigned to the message ID of the message log that cannot be output

*bbb*: Name of the component that issued the message log output request

S: Resumes processing.

**Action**

Check the appropriate message according to the message ID cross-reference table and the message ID:

Component name	First 4 digits of message ID
bac, cpy, jar, rec	KFPR
bpp, cit, cpp	KFPZ
dbh	KFPH
dfc	KFPB
dic	KFPD
dsa, sta	KFPK
exp, int, mod	KFPX
goi, ric	KFPN
ios	KFPI
osl	KFPO
lod, rld	KFPL
sqa	KFPA
utl	KFPU
Other	KFPS

This message may be output with a KFPA message ID if an attempt was made to re-execute the `FETCH` statement after an error occurred when the `FETCH` statement was executed during UAP processing. In such a case, correct the UAP.

If the error cannot be corrected by the user, record this message and the ID serial number of the message that could not be output and contact a customer engineer.

## 2. Messages

### KFPS01996-E E+S

\*\*\* Unable to output message (*aa...aa*) due to message not found;  
component (*bbb*) \*\*\*

Message log cannot be output, because the message log file does not contain a message log.

*aa...aa*: Serial number assigned to the message ID of the message log that cannot be output

*bbb*: Name of the component that issued the message log output request

S: Resumes processing.

Action

Check the appropriate message according to the message ID cross-reference table and the message ID:

Component name	First 4 digits of message ID
bac, cpy, jar, rec	KFPR
bpp, cit, cpp	KFPZ
dbh	KFPH
dfc	FKPB
dic	KFPD
dsa, sta	KFPK
exp, int, mod	KFPX
goi, ric	KFPN
ios	KFPI
osl	KFPO
lod, rld	KFPL
sqa	KFPA
utl	KFPU
Other	KFPS

If the error cannot be corrected by the user, record this message and the ID serial number of the message that could not be output and contact a customer engineer.

**KFPS02101-I L**

pd\_spd\_syncpoint\_skip\_limit is too small, assumed limit  
2, server=aa....aa

Either 1 was specified in the pd\_spd\_syncpoint\_skip\_limit operand of the aa....aa server or the result of the autocalculation was less than 2. 2 is assumed in the pd\_spd\_syncpoint\_skip\_limit operand, and processing resumes.

aa....aa: Server name

S: Continues processing.

**Action**

When 1 is specified in the pd\_spd\_syncpoint\_skip\_limit operand, correct the specified value. If this message was output by autocalculation, see the description of the skipped effective synchronization point dump monitoring facility in the *HiRDB Version 8 System Operation Guide* to determine whether or not to stop using autocalculation.

**KFPS02102-E E+L**

Unable to start syncpoint dump service aa....aa. reason code=bb....bb

The synchronization point dump service cannot be started on the aa....aa server.

aa....aa: Server name

bb....bb: Reason code

The table below lists the reason codes and the actions to be taken.

S: Terminates HiRDB.

**Action**

Take action appropriate to the reason code, as listed below, and restart HiRDB:

Reason code	Explanation	Action	Remarks
6	Shared memory pool too small to process the request	Contact a customer engineer.	—
8 77 88	Memory shortage	Check the utilization status of the process private area and shared memory.	
9	Analysis information file open error	Check the synchronization point dump file-related definitions.	
10 105	Unresumable error during analysis processing		

## 2. Messages

Reason code	Explanation	Action	Remarks
15 36	Network error	Check the cause of the error, take appropriate action, then restart the system.	
24	Definition read failure	Take action appropriate to the message that was output before.	
28	Memory shortage	Check the utilization status of the process private area and shared memory.	
33 34	Internal conflict in name service function	Contact a customer engineer.	
35	Timeout	Check the cause of the error, take appropriate action, then restart the system.	
37	Unable to use the name service function	Check the server execution status with a HiRDB command.	
38 50 79	Process-to-process communication error	Check the cause of the error, take appropriate action, then restart the system.	
41	Status file I/O error		
43	Unable to allocate work area	Check the utilization status of the process private area and shared memory.	
44	Insufficient buffer sectors	Check the server definition.	
45	Unable to allocate the requested size of records (insufficient status file capacity)		
47	Inactive status server	Check the execution status of the status server with a HiRDB command.	
52	Swapping error	Check the cause of the error, take appropriate action, then restart the system.	
72	Status write error		
73	Status read error		
74	Definition analysis error	Refer to the KFPU message output immediately before, and take the appropriate action. If no message was output, contact a customer engineer.	

Reason code	Explanation	Action	Remarks
76	Internal file write error	Check the cause of the error, take appropriate action, then restart the system.	
89	Duplicated definition file name	Check the server definition, correct the error, then restart the system.	
92	File open error	Check the cause of the error, take appropriate action, then restart the system.	Details of the error are displayed in the KFPS-02122-W message.
94	Analysis error	Check the definition file, correct the error, then restart the system.	—
104	In UNIX: Insufficient message queue In Windows: The size of the installation drive is insufficient.	In UNIX: Reconfigure the kernel (change the value of the msgmni message-related parameter). In Windows: On the HiRDB installation drive, allocate sufficient free space for the shared memory.	
119	The specification values of the normal synchronization point dump file in the system definition for a transaction execution site and a log application site do not match.	Revise the specification values of the normal synchronization point dump file in the system definition for the transaction execution site and the log application site.	
120	The synchronization point dump file in use does not exist.	Take the action indicated in the KFPS02181-E message.	

—: Not applicable

#### KFPS02104-W L

Unable to recover the previous syncpoint dump service status from status file; continues recovery processing without status file, reason code=*aa....aa*

The previous synchronization point dump could not be restored from the status file. Recovery will be resumed without a status file.

*aa....aa*: Reason code

The table below lists the reason codes and the actions to be taken.

S: Starts the server normally, but does not collect a synchronization point dump because restart from the system log is not possible.

## Action

Take action appropriate to the reason code, as listed below:

Reason code	Explanation	Action
46	Status record required for recovery does not exist.	Check the server definition.
90	Invalid status file contents	
93	Invalid resource run ID	Check the definition as to whether it is the same as the one used during previous HiRDB session.

**KFPS02105-W L**

Error occurred while terminating syncpoint dump service; continues processing.reason code=*aa....aa*

An error occurred while terminating the synchronization point dump service, but processing is continuing.

*aa....aa*: Reason code

S: Resumes processing.

## Action

Take action appropriate to the reason code, as listed below:

Reason code	Explanation	Action
28	Process private area cannot be allocated. Shared memory is insufficient.	Check the utilization status of the process. private area and shared memory.
35	Timeout occurred.	Check the cause of the error, take appropriate action, then restart the system.
36	Network error occurred.	
37	Name service function cannot be used.	Check the server execution status with a HiRDB command.
38	Process-to-process communication error occurred.	Check the cause of the error before the next startup, take appropriate action, then restart the system.

**KFPS02110-E L**

Process-specific area found insufficient while performing syncpoint dump service for *aa....aa* service.

A process private area shortage occurred during execution of synchronization point dump service on the *aa....aa* server.

*aa....aa*: Server name

S: Terminates HiRDB.

Action

Check the utilization status of the process private area and restart HiRDB.

**KFPS02111-E L**

Error occurred while performing syncpoint dump service for *aa....aa* service.reason code=*bb....bb* function: *cc....cc*

An error occurred during synchronization point dump acquisition on the *aa....aa* server.

*aa....aa*: Server name

*bb....bb*: Reason code

*cc....cc*: Name of the function resulting in the error

S: Terminates abnormally.

Action

Take a corrective action by referring to the list of reason codes and restart HiRDB. If necessary, collect error information and contact a customer engineer.

Reason code	Explanation	Action
4	Shared memory cannot be accessed.	Contact a customer engineer.
11	Argument is invalid.	
12	Function issuance sequence error occurred.	
13	Fatal or unexpected error occurred.	See -303 in 4.1 Detail codes for RPC-related errors.
14	Memory shortage occurred.	Check the memory usage.

2. Messages

Reason code	Explanation	Action
15	Network error occurred.	Check the cause of the error with the procedure listed below and take appropriate action: 1. Check the server machine connection status with an OS command. 2. Check the execution status of each server with a HiRDB command.
16	Transfer timeout occurred.	
17	Input parameter length exceeded the maximum.	
18	Returned response is too long to fit in the area at the calling source.	
19	Specified service function has not been registered.	
20	Server is being terminated.	
21	Process that provides the specified service function was not found.	
22 25	Unexpected error occurred.	
23	RPC environment is not active.	
26	Name information retrieval error occurred.	
27	Specified argument is invalid.	
28	Process private area cannot be allocated. Shortage occurred in the shared memory.	Check the utilization status of the process private area and shared memory.
29	Versions do not match between function and shared memory or between function and server.	Check the cause of the error with the following procedure, and take appropriate action: 1. Check the server machine connection status with an OS command. 2. Check the execution status of each server with a HiRDB command.
30 33 34	Internal conflict was detected in the name service function.	Contact a customer engineer.
31	Function parameter error occurred.	Check the cause of the error with the following procedure, and take appropriate action: 1. Check the server machine connection status with an OS command. 2. Check the execution status of each server with a HiRDB command.
32	Function issuance sequence error occurred.	



Reason code	Explanation	Action
35	Timeout occurred.	Check the cause of the error, take appropriate action, then restart the system.
36	Network error occurred.	
37	Name service function cannot be used.	Check the server execution status with a HiRDB command.
38 79	Process-to-process communication error occurred.	Check the cause of the error before the next startup, take appropriate action, then restart the system.
39	Status is invalid (the server is inactive, engaged in abnormal termination, or engaged in forced termination).	
80 84 86 87	Specified array size exceeds the defined maximum size.	Contact a customer engineer.
81 82	Area cannot be allocated.	Check the memory usage.
83	Error occurred during data conversion.	Contact a customer engineer.
85	Text received from function is too short to set in arguments.	
109 110	A timeout was detected during database buffer sweep-out processing.	Save the maintenance data under %PDDIR%\spool and contact a customer engineer, then restart the system.
111 112	A timeout occurred during database buffer synchronization processing.	

**KFPS02112-W L**

Minor error occurred while analyzing definitions for syncpoint dump service. file being analyzed:*aa....aa*, record number=*bb....bb*, reason code=*cc....cc*

A minor error occurred while analyzing definitions for the synchronization point dump service.

*aa....aa*: Name of the definition file being analyzed

*bb....bb*: Number of the record that had the error

*cc....cc*: Reason code that shows the contents of the error

S: Ignores the `pdlogadfg` or `pdlogadpf` operand definition statement that was in error, and starts the synchronization point dump service or continues restart processing

(operates as though there were no definition statement).

#### Action

Refer to the following reason code list, and revise the definition related to the synchronization point dump service.

Reason code	Explanation	Action
411	<p>There is an error in the -a option specification of the <code>pdlogadpf</code> operand.</p> <ul style="list-style-type: none"> <li>The length of the path specified in the -a option exceeds the maximum number of characters.</li> <li>The length of the HiRDB file name specified in the -a option exceeds the maximum (30 characters).</li> </ul>	As necessary, stop the system, revise the definition, and restart.
412	<p>There is an error in the -b option specification of the <code>pdlogadpf</code> operand (when duplexed synchronization point dump is used).</p> <ul style="list-style-type: none"> <li>The length of the path specified in the -b option exceeds the maximum number of characters.</li> <li>The length of the HiRDB file name specified in the -b option exceeds the maximum (30 characters).</li> </ul>	

#### KFPS02113-E L

Error occurred while analyzing definitions for syncpoint dump service. `server=aa....aa`, reason code=`bb....bb`, `cc....cc`

An error occurred during analysis of the system definition related to a synchronization point dump file.

`aa....aa`: Server name

`bb....bb`: Reason code

`cc....cc`: The following value is displayed, on the basis of the reason code:

- If the reason code is `UNMATCH_DEFINITION`  
`definition=dd....dd`  
`dd....dd`: Name of the operand with an unmatched definition
- If the reason code is `UNMATCH_FILEGROUP`  
`filegroup=ee....ee`  
`ee....ee`: Unmatched logical file name

- If the reason code is UNDEFINE\_FILEPATH

filegroup=*ff...ff*

*ff...ff*: Logical file name for which no physical file name is defined

S: Continues processing.

Action: Take action on the basis of the reason code.

Reason code	Explanation	Action
UNMATCH_DEFINITION	The value specified in the <i>dd...dd</i> operand differs between the transaction execution site and the log application site.	Set the value specified in the <i>dd...dd</i> operand for the log application site to match the value of the <i>dd...dd</i> operand for the transaction execution site.
UNMATCH_FILEGROUP	A secondary synchronization point dump file group that matches the primary synchronization point dump file group is not defined for the log application site, or a secondary synchronization point dump file group that corresponds to a primary synchronization point dump file group that is not defined for the transaction execution site is defined for the log application site.	Make all of the log application site secondary synchronization point dump file group names match the transaction execution site primary synchronization point dump file groups.
UNDEFINE_FILEPATH	A secondary synchronization point dump file that corresponds to a primary synchronization point dump file group is not defined for the log application site.	Define all secondary synchronization point dump files required to start the log application site.

#### KFPS02114-E L

File error occurred while getting information while getting information necessary for *aa....aa* service recovery.

A file error occurred while collecting the information required for recovery of server *aa....aa*.

*aa....aa*: Name of the server resulting in the error

S: Terminates HiRDB.

Action

Check both the error messages that were output before this message and the file status, then restart HiRDB.

## 2. Messages

### **KFPS02115-E L**

File error occurred while getting syncpoint dump for *aa...aa* service

A file error occurred while collecting a synchronization point dump for server *aa...aa*.  
*aa...aa*: Name of the server resulting in the error

S: Terminates HiRDB.

Action

Check both the error messages that were output before this message and the file status, then restart HiRDB.

### **KFPS02118-I L**

Syncpoint dump file group *aa...aa* for *bb...bb* service has been opened

A synchronization point dump file for the *bb...bb* server was opened.

*aa...aa*: File group name of the synchronization point dump file

*bb...bb*: Server name

S: Resumes processing.

### **KFPS02119-I L**

Syncpoint dump file group *aa...aa* for *bb...bb* service has been closed

A synchronization point dump file for the *bb...bb* server was closed.

*aa...aa*: File group name of the synchronization point dump file

*bb...bb*: Server name

S: Resumes processing.

### **KFPS02122-W L**

Error occurred while opening syncpoint dump file group for *aa...aa* service. file group name: *bb...bb*, reason code=*cccc*

An error occurred while opening a synchronization point dump file group for server *aa...aa*.

*aa...aa*: Name of the server resulting in the error

*bb...bb*: Name of the file group resulting in the error

*cccc*: Reason code (the table below lists the reason codes and the actions to be taken)

S: Resumes processing.

Action

Take action appropriate to the reason code, as listed below:

Reason code	Explanation	Action
59	File status flag is invalid.	Contact a customer engineer.
61	The file name is invalid.	Re-evaluate the server definition of the server on which the error occurred.
62	A synchronization point dump file was not created in the HiRDB file system area for system files.	Create a synchronization point dump file in the HiRDB file system area for system files. If Real Time SAN Replication is used, make the path to reference the synchronization point dump file on the remote site the same as on the main site. For a log application site, confirm that the path specified in the <code>pdlogadpf -d ssp</code> operand matches the path of the secondary synchronization point dump file created in the preparation for log application.
63	A synchronization point dump file could not be found.	
64	File system versions do not match.	Check the HiRDB execution environment.
65	File system lock error occurred.	
66	Shortage occurred in file system lock segments.	Check the memory usage.
67 107	Number of file systems opened exceeded the maximum.	Either close unneeded files or check the maximum number of files that can be opened and re-create the kernel, if necessary.
68	There is no access privilege for the corresponding special file.	Check the HiRDB execution environment.
69	There is no access privilege for the corresponding file.	
70	File system I/O error occurred.	Check the cause of the I/O error and take appropriate action.
71	Memory shortage occurred in the file system.	Check the memory usage.
88	Memory shortage	Check the usage of the process private area.
92	File test error occurred (synchronization point dump file has not been initialized or is being used by another server or HiRDB).	Check the cause of the error with the following procedure, and take appropriate action: <ol style="list-style-type: none"> <li>1. Re-evaluate the <code>pdlogadpf</code> operand of the synchronization point dump file or the system common definition.</li> <li>2. Initialize the HiRDB file system area for the synchronization point dump file, and then re-execute.</li> </ol>

## 2. Messages

Reason code	Explanation	Action
97	Invalid size	Check the size of the synchronization point dump file.
98	I/O error	Check the cause of the I/O error and take appropriate action.
106	Invalid file name	Consider the following causes: <ul style="list-style-type: none"> <li>An invalid character is specified in the file name.</li> <li>The length of the HiRDB file name exceeds the maximum (30 characters).</li> </ul> Check the file name specified in the server definition or the command operand.
108	Unregistered file name maximum	Use the <code>pdlogadpf</code> command to register the file name corresponding to the target file group.

### KFPS02123-W L

Error occurred while closing syncpoint dump file group for *aa....aa* service.file group name: *bb....bb*, reason code=*cccc*

An error occurred while a synchronization point dump file on the *aa....aa* server was being closed.

*aa....aa*: Name of the server on which the error occurred

*bb....bb*: File group name of the synchronization point dump file in which the error occurred

*cccc*: Reason code

S: Continues processing.

Action

Take appropriate action according to the reason code.

Reason code	Explanation	Action
66	Insufficient file system lock segments	Check the memory usage.
70	File system I/O error	Check the cause of the I/O error and take appropriate action.
71	File system memory shortage	Check the memory usage.
91	Error occurred in both the A system and B system.	See the KFPS4321-W message just output and take appropriate action.

Reason code	Explanation	Action
205	Internal conflict in program	Contact a customer engineer.

**KFPS02124-W L**

Error occurred while reading from syncpoint dump file for *aa....aa* service. file name: *bb....bb*, generation number=*cc....cc*, reason code=*dddd*

An error occurred while reading a synchronization point dump file for server *aa....aa*.

*aa....aa*: Name of the server resulting in the error

*bb....bb*: File group name of the synchronization point dump file in which the error occurred

*cc....cc*: Generation number resulting in the error

*dddd*: Reason code

S: Continues processing.

**Action**

If the KFPS04323-W message is output immediately before this message, take action according to the KFPS04323-W message. If the KFPS04323-W message is not output immediately before this message, take appropriate action according to the reason code.

Reason code	Explanation	Action
1	Record requested for input is outside the file area.	Contact a customer engineer.
70	I/O error occurred.	Check the cause of the error and take appropriate action.
201 203 206 208	Input error was detected in the synchronization point dump file.	Contact a customer engineer.

**KFPS02125-W L**

Error occurred while writing to syncpoint dump file for *aa....aa* service. file group name:*bb....bb*, generation number=*cc....cc*. reason code=*dddd*

An error occurred when a synchronization point dump file on the *aa....aa* server was being written to.

## 2. Messages

*aa....aa*: Name of the server resulting in the error

*bb....bb*: File group name of the synchronization point dump file in which the error occurred

*cc....cc*: Generation number resulting in the error

*dddd*: Reason code

S: Continues processing.

Action

If the KFPS04322-W message is output immediately before this message, take action according to the KFPS04322-W message. If the KFPS04322-W message is not output immediately before this message, take action appropriate to the reason code, as listed below:

Reason code	Explanation	Action
1	Record requested for input is outside the file area.	Contact a customer engineer.
70	I/O error occurred.	Check the cause of the error and take appropriate action.
95	The requested number of records cannot be written into the synchronization point dump file.	Contact a customer engineer.
202 204 207 209	Output error was detected in the synchronization point dump file.	

### KFPS02126-E L

Number of file groups is insufficient for *aa....aa* service.number of available file groups=*bb....bb*, number of guaranteed generations=*cc....cc*

There is a shortage of synchronization point dump files on the *aa....aa* server. The number of synchronization point dump files on the *aa....aa* server did not satisfy the condition *guaranteed-generation-count + 1*.

*aa....aa*: Server name

*bb....bb*: Number of available synchronization point dump file groups

*cc....cc*: Number of guaranteed generations

S: Cancels collection of synchronization point dump for server *aa....aa*.



**Action**

Refer to the following messages that were output before this message to check the cause of the error:

- KFPS02122-W
- KFPS02124-W
- KFPS202127-W

**KFPS02127-W L**

Unable to use syncpoint dump file for *aa...aa* service due to insufficient file capacity, file group name=*bb...bb*, system A/B=*c*, file capacity=*dd...dd*, size needed for syncpoint dump=*ee...ee*

A synchronization point dump file for server *aa...aa* cannot be used due to insufficient size.

*aa...aa*: Server name

*bb...bb*: File group name

*c*: System type (a: A system, b: B system)

*dd...dd*: Capacity of synchronization point dump files (record count)

*ee...ee*: Requested record count of synchronization point dump files

S: Continues processing.

**Action**

Change the synchronization point dump file capacity for the system displayed in *c*. See the requested record count indicated in *ee...ee*.

**KFPS02128-E E**

Server name *aa...aa* specified with this command is invalid.

An invalid server name (*aa...aa*) was specified in a command.

*aa...aa*: Server name

S: Cancels command execution.

O: Enter the correct server name and re-execute the command.

**KFPS02129-E E**

Syncpoint dump file group name *aa...aa* specified with this command is invalid.

The synchronization point dump file name specified by the command is invalid.

*aa...aa*: File group name

S: Cancels command execution.

## 2. Messages

O: Correctly enter the file group name of the synchronization point dump file, and then re-execute the command.

### **KFPS02131-E E**

-g option specified with this command is invalid.

The -g option is invalid in a command.

S: Cancels command execution.

O: Specify the -g option correctly and re-execute the command.

### **KFPS02132-E E**

Stops command processing due to error. reason code=*aa....aa*

Command processing was cancelled due to an error.

*aa....aa*: Reason code indicating the nature of the error

S: Cancels command execution.

#### Action

Check the error message in the message log file and take appropriate action.

Reason code	Explanation	Action
2	Parameter error occurred in a shared memory function.	Contact a customer engineer.
3	Request segment size is greater than the pool size for the entire shared memory.	
4	Attempt was made to share a segment allocated by another process, but the segment has not been allocated.	Check the execution status of the log/synchronization point dump service function with a HiRDB command and reenter the command in the online mode.
5	Function execution sequence error occurred.	
6	Size of shared memory pool is insufficient	Contact a customer engineer.
7	Shared memory pool lock processing failed.	
11	Argument is invalid.	
12	Function input sequence error occurred.	
13	Fatal or unexpected error occurred.	See -303 in 4.1 Detail codes for RPC-related errors.

Reason code	Explanation	Action
14	Memory shortage occurred.	Check the memory usage. Check the cause of the error using the following procedure and take appropriate action: 1. Check the server machine connection status with an OS command. 2. Check the execution status of each server with a HiRDB command.
15	Network error occurred.	
16	Transfer timeout occurred.	
18	Length of input parameter exceeds the maximum.	
18	Returned response is too long to fit in the area at the calling source.	
19	Specified service function has not been registered.	
20	Server is being terminated.	
21	Process that provides the specified service function was not found.	Check the cause of the error using the following procedure and take appropriate action: 1. Check the server machine connection status with an OS command. 2. Check the execution status of each server with a HiRDB command.
22 25	Unexpected error occurred.	
23	RPC environment is not active.	
26	Name information retrieval error occurred.	Contact a customer engineer.
27	Specified argument is invalid.	
28	Process private area cannot be allocated.	Check the memory usage.
29	Versions do not match between function and shared memory or between function and server.	Check the cause of the error using the following procedure and take appropriate action: 1. Check the node connection status with an OS command. 2. Check the execution status of each server with a HiRDB command.
31	Function parameter error occurred.	
32	Function input sequence error occurred.	
35	Timeout occurred.	
36	Network error occurred.	
37	Name service function cannot be used.	
40	Specified key value already exists.	Check the server definition or initialization.
41	I/O error occurred.	Check the cause of the I/O error and take appropriate action.
42	Offset + length is outside the allocated area.	Contact a customer engineer.
43	Work area cannot be allocated.	Check the memory usage.

## 2. Messages

Reason code	Explanation	Action
44	There are not enough buffer sectors.	Check the server definition.
45	Requested number of records cannot be allocated (insufficient status file size).	
46	No record has the corresponding key value.	Contact a customer engineer.
47	Server for executing the status service function is not active.	Check the server execution status with a HiRDB command.
48	Offset is outside the allocated area.	Contact a customer engineer.
49	Parameter format is invalid.	
50	Process-to-process communication error occurred.	Check the server execution status with a HiRDB command.
51	Requested size is invalid.	Contact a customer engineer.
52	Swapping error occurred.	See -1039 in 4.2 <i>Detail codes for system-related errors</i> , and take appropriate action. Then, start HiRDB.
53	Protocol version error occurred.	Contact a customer engineer.
54	Size is different from an existing key value.	
80 84 86 87	Specified array size exceeds the defined maximum size.	
81 82	Area cannot be allocated.	
83	Error occurred during data conversion.	Contact a customer engineer.
85	Text received from function is too short to set in arguments.	
96	Internal conflict was detected in program.	
97	Invalid file error occurred.	Check the size of the synchronization point dump file. Check the cause of the I/O error and take appropriate action.
98	I/O error occurred.	

### KFPS02135-E L

File group name *aa...aa* specified in definition file *bb...bb* is already defined in definition file *cc...cc*

File group name *bb....bb* specified in definition file *aa....aa* has already been defined in definition file *cc....cc*.

*aa....aa*: Name of the erroneous definition file

*bb....bb*: File group name

*cc....cc*: Name of the definition file containing the specified file group name

S: Resumes analysis processing and cancels unit startup processing upon termination of analysis processing.

Action

Correct the duplicated file group name.

**KFPS02137-E L**

Physical file name *aa....aa* specified in definition file *bb....bb* is already defined in definition file *cc....cc*.

File name *bb....bb* specified in definition file *aa....aa* has already been defined in definition file *cc....cc*.

*aa....aa*: Name of the erroneous definition file

*bb....bb*: Physical file name

*cc....cc*: Name of the definition file containing the specified file name

S: Resumes analysis processing and cancels unit startup processing upon termination of analysis processing.

Action

Correct the duplicated file name.

**KFPS02139-E L**

Definition file *aa....aa* contains commands with deleted file group name *bb....bb*

File group name *bb....bb* that was deleted from the definition during normal startup was found in definition file *aa....aa* at the time of synchronization point dump restart.

*aa....aa*: Name of the erroneous definition file

*bb....bb*: File group name

S: Resumes analysis processing and cancels unit startup processing upon termination of analysis processing.

Action

Restore the deleted definition generation so that the same information is used as when the system was started normally.

**KFPS02141-E L**

File group name *aa....aa* specified with `pdlogadfg` is already defined in definition file *bb....bb*. record number=*cc....cc*

File group name *bb....bb* specified in `pdlogadfg` in definition file *aa....aa* has already been specified in the same definition.

*aa....aa*: Name of the erroneous definition file

*bb....bb*: File group name

*cc....cc*: Record number in the erroneous definition file

S: Resumes analysis processing and cancels unit startup processing upon termination of analysis processing.

Action

Correct the duplicated file group name.

**KFPS02143-E L**

Physical file name *aa....aa* specified with `pdlogadpf` is already defined in definition file *bb....bb*. record number=*cc....cc*

The file name is specified in the `pdlogadpf` operand more than once.

*aa....aa*: File name that is specified more than once

*bb....bb*: File name of the server definition in which the error occurred

*cc....cc*: Record number in the definition file in which the error occurred

S: Terminates processing.

Action

Correct the file name that is specified more than once.

**KFPS02144-E L**

`pdlogadfg` does not specify file group name in definition file *aa....aa*. record number=*bb....bb*

A file group name is missing in `pdlogadfg` specified in definition file *aa....aa*.

*aa....aa*: Name of the erroneous definition file

*bb....bb*: Record number in the erroneous definition file

S: Resumes analysis processing and cancels unit startup processing upon termination of analysis processing.

Action

Check the information specified in the definition file and correct the error.

**KFPS02145-E L**

pdlogadpf does not specify file group name in definition file  
*aa....aa*.record number=*bb....bb*

A file group name is missing in pdlogadpf specified in definition file *aa....aa*.

*aa....aa*: Name of the erroneous definition file

*bb....bb*: Record number in the erroneous definition file

S: Resumes analysis processing and cancels unit startup processing upon termination of analysis processing.

Action

Check the information specified in the definition file and correct the error.

**KFPS02147-E L**

pdlogadpf does not specify physical file name in definition file  
*aa....aa*.record number=*bb....bb*

The pdlogadpf operand does not specify a synchronization point dump file name.

*aa....aa*: File name of the server definition where the error occurred

*bb....bb*: Record number in the definition file where the error occurred

S: Terminates processing.

Action

Take one of the following actions:

- If the synchronization point dump file is not duplicated, determine whether the -a option is specified in the pdlogadpf -d spd or pdlogadpf -d ssp operand.
- If the synchronization point dump file is duplicated, determine whether the -a and -b options are specified in the pdlogadpf -d spd or pdlogadpf -d ssp operand.

**KFPS02148-E L**

File group name specified with pdlogadpf not defined in  
 definition file *aa....aa*.record number=*bb....bb*

The file group name *bb....bb* was defined in the pdlogadfg operand but was not defined in the pdlogadpf operand.

*aa....aa*: Name of the erroneous definition file

*bb....bb*: Record number in the definition file where the error occurred

S: Resumes analysis processing and cancels unit startup processing upon termination of analysis processing.

Action

Check the following items in the `pdlogadfg` operand and the `pdlogadpf` operand for definition file `aa....aa`.

- Is file group name `bb....bb` correct?
- After file group name `bb....bb` was defined in the `pdlogadfg` operand, was it defined in the `pdlogadpf` operand?

**KFPS02149-E L**

Number of `pdlogadfg -d bbb` commands with ONL is insufficient in definition file `aa....aa`

When a synchronization point dump was started, the number of `pdlogadfg -d bbb` specifications with ONL specified in the system definition was insufficient. (*number-of-guaranteed-valid-generations+1*).

*aa....aa*: Name of the erroneous definition file

*bbb*: File type

*spd*: Synchronization point dump file

*ssp*: Secondary synchronization point dump file

S: Resumes analysis processing and cancels unit startup processing upon termination of analysis processing.

Action

Check the information specified in the definition file and correct the error.

**KFPS02153-E E+L**

Number of `pdlogadfg -d bbb` commands exceeds the limit in definition file `aa....aa`

The number of `pdlogadfg -d bbb` specifications exceeds the limit.

*aa....aa*: Name of the erroneous definition file

*bbb*: File type

*spd*: Synchronization point dump file

*ssp*: Secondary synchronization point dump file

S: Cancels unit startup processing.

Action

Revise the number of `pdlogadfg -d bbb` specifications to a maximum of 60.

**KFPS02154-E L**

More than one `pdlogadpf -d ccc` command is specified for `pdlogadfg -g bb....bb` in definition file `aa....aa`



More than one `pdlogadpf -d ccc` was specified for `pdlogadfg -g bb...bb`.

*aa...aa*: Name of the erroneous definition file

*bb...bb*: File group name for which `pdlogadpf` was specified more than once

*ccc*: File type

*spd*: Synchronization point dump file

*ssp*: Secondary synchronization point dump file

S: Cancels unit startup processing.

Action

Ensure that only one `pdlogadpf` is specified for each file group indicated in `pdlogadfg`.

**KFPS02155-E E+L**

Number of `pdlogadpf -d bbb` commands exceeds the limit in definition file *aa...aa*

The number of `pdlogadpf -d bbb` specifications exceeds the limit.

*aa...aa*: Name of the erroneous definition file

*bbb*: File type

*spd*: Synchronization point dump file

*ssp*: Secondary synchronization point dump file

S: Cancels unit startup processing.

Action

Check the information specified in the definition file and correct the error.

**KFPS02156-E L**

`pdlogadpf -d ccc` is not specified for `pdlogadfg -g bb...bb` in definition file *aa...aa*

The `pdlogadfg -g bb...bb` has no corresponding `pdlogadpf -d ccc`.

*aa...aa*: Name of the erroneous definition file

*bb...bb*: File group name specified with `pdlogadfg`

*ccc*: File type

*spd*: Synchronization point dump file

*ssp*: Secondary synchronization point dump file

S: Cancels unit startup processing.

Action

Check the information specified in the definition file and correct the error.

**KFPS02157-E L**

Shared memory error occurred while starting or terminating syncpoint dump service. reason code=*aa....aa*, function=*bb....bb*

A shared memory error occurred while starting or terminating the synchronization point dump service function.

*aa....aa*: Reason code

*bb....bb*: Name of the function resulting in the error

S: Cancels unit startup processing.

Action

Take action appropriate to the reason code, as listed below:

Reason code	Explanation	Action
4	Shared memory cannot be accessed.	Contact a customer engineer.
6	Size of shared memory pool is too small to process the request.	

**KFPS02158-E L**

Error occurred in status file while starting or terminating syncpoint dump service. reason code=*aa....aa*, function=*bb....bb*

A status file error occurred while starting or terminating the synchronization point dump service function.

*aa....aa*: Reason code

*bb....bb*: Name of the function resulting in the error

S: Cancels unit startup processing.

Action

Take action appropriate to the reason code, as listed below:

Reason code	Explanation	Action
41	I/O error occurred.	Check the cause of the I/O error and take appropriate action.
43	Work area cannot be allocated.	Check the memory usage.

Reason code	Explanation	Action
44	There are not enough buffer sectors.	Check the server definition.
45	Requested number of records cannot be allocated (insufficient status file).	
47	Status server is not active.	Check the server execution status with a HiRDB command.
50	Process-to-process communication error occurred.	Check the cause of the error, take appropriate action,
52	Swapping error occurred.	then restart the system.

**KFPS02159-E L**

Memory found insufficient while starting or terminating syncpoint dump service.

A memory shortage occurred while starting or terminating the synchronization point dump service function.

S: Cancels unit startup processing.

**Action**

Check the memory for any excess resources and release unneeded resources. Or, check the defined shared memory size, take appropriate action, then restart.

**KFPS02160-E L**

Error occurred in system service call while starting or terminating syncpoint dump service. reason code=*aa....aa*, function=*bb....bb*

An error occurred while starting or terminating the synchronization point dump service function.

*aa....aa*: Reason code

*bb....bb*: Name of the function resulting in the error

S: Cancels unit startup processing.

**Action**

Take action appropriate to the reason code, as listed below:

Reason code	Explanation	Action
72	Status file write error occurred.	Check the cause of the error and take appropriate action.
73	Status file read error occurred.	

## 2. Messages

Reason code	Explanation	Action
74	Server definition analysis error occurred.	Check the corresponding server definition, correct the error, then restart the system.
75	Server terminated abnormally during normal termination or planned shutdown. Or, server is engaged in abnormal termination processing.	Check the cause of the error and take appropriate action.
77	Memory shortage occurred.	Check the memory usage.
78	Attempt was made to terminate the server forcibly, but the server was on critical status.	Check the cause of the error and take appropriate action.
79	Process-to-process communication error occurred.	

### **KFPS02167-W E**

File group specified with the command is already open.

The file group specified in a command is already open.

S: Cancels command execution.

O: Enter the `pdlogls` command to check the file status.

### **KFPS02168-W E**

File group specified with the command is already closed.

The file group specified in a command is already closed.

S: Cancels command execution.

O: Enter the `pdlogls` command to check the file status.

### **KFPS02169-E E**

Failure to open syncpoint dump file.

The system failed to open a synchronization point dump file.

S: Cancels command execution.

O: Enter the `pdlogls` command to check the file status. Also, refer to the KFPS02122-W message that was output to the message log file to check the cause of the error.

### **KFPS02170-E E**

Failure to close syncpoint dump file. reason code=*aa...aa*

The system failed to close a synchronization point dump file.

*aa...aa*: Reason code

S: Cancels command execution.

O: Check the reason code and take appropriate action:

Reason code	Explanation	Action
91	Error occurred in the file system.	Refer to the KFPS02123-W message output to the log file to check the cause of the error and take appropriate action.
99	Close request was issued for a valid file.	Enter the <code>pdlogls</code> command to check the status of the corresponding file.
100	Close request was issued for a file being input or output.	Enter the <code>pdlogls</code> command to make sure that the most recent synchronization point dump file points to the current log, then re-execute the command.

**KFPS02171-E E**

Unable to perform command processing because there is not enough memory to allocate work area.

Command cannot be executed, because a work area cannot be allocated.

S: Cancels command execution.

Action

Check for excess memory resources and release any unneeded resource. Or, check the shared memory size specified in the definition, take appropriate action, then reenter the command.

**KFPS02172-I E**

There is no information to be displayed about syncpoint dump file.

There is no synchronization point dump file information to be displayed.

There is no synchronization point dump file information to be displayed by the `pdlogls` command.

S: Terminates command processing.

O: Check whether the system is in the online mode. Or, check the server execution status and reenter the command.

**KFPS02173-E L**

Status file error occurred during syncpoint dump processing.  
reason code=*aa....aa*

A status file error occurred during synchronization point dump processing.

*aa....aa*: Reason code

S: Cancels unit startup processing.

## Action

See the reason code list and take appropriate action. Then re-start HiRDB. If it is necessary to contact a customer engineer, obtain data on the error information and then contact a customer engineer.

Reason code	Explanation	Action
40	Specified key value already exists.	Check the server definition or initialization.
41	I/O error occurred.	Check the cause of the I/O error and take appropriate action.
42	Offset + length is outside the allocated area.	Contact a customer engineer.
43	Work area cannot be allocated.	Check the memory usage.
44	There are not enough buffer sectors.	Check the server definition.
45	Requested number of records cannot be allocated (insufficient status file size).	
46	No record has the corresponding key value.	Contact a customer engineer.
47	Status server is inactive.	Check the server execution status with a HiRDB command.
48	Offset is outside the allocated area.	Contact a customer engineer.
49	Parameter format is invalid.	
50	Process-to-process communication error occurred.	Check the server execution status with a HiRDB command.
51	Requested size is invalid.	Contact a customer engineer.
52	Swapping error occurred.	See -1039 in 4.2 <i>Detail codes for system-related errors</i> , and take appropriate action. Then, start HiRDB.
53	Protocol version error occurred.	Contact a customer engineer.
54	Size is different from an existing key value.	

**KFPS02174-E L**

Contents of syncpoint dump file for *aa....aa* service are invalid, file group name=*bb....bb*

The content of the synchronization point dump file is invalid.

*aa....aa*: Server name

*bb....bb*: File group name of the synchronization point dump file where the error

occurred

S: Continues processing.

Action

Re-create the synchronization point dump file of *bb...bb*.

**KFPS02176-I L**

No syncpoint dump file available for next acquisition.

No file is available for the next synchronization point dump.

Action

Open a reserve file to provide the file for the next synchronization point dump.

**KFPS02177-I L**

Number of syncpoint dump files is not enough for *aa....aa* service recovery; opens all files.

There are not enough synchronization point dump files to recover server *aa....aa*. The system opens all files.

*aa....aa*: Server name

**KFPS02178-E E+L**

Unable to acquire syncpoint dump for assuring syncpoint failure in remote site, server name=*aa....aa*, group=*bb...bb*, reason code=*cc....cc*

Because the sync point of an RDAREA on a remote site cannot be assured, a synchronization point dump cannot be acquired. Processing to acquire a synchronization point dump is suspended.

An inconsistency may have occurred in the data transmitted from server *aa....aa* that output this message to the remote site due to the Real Time SAN Replication not working correctly. If HiRDB is started on the remote site in this condition, HiRDB cannot start, the data lacks integrity, or the data is corrupt.

*aa....aa*: Name of the server for which a synchronization point dump could not be acquired

*bb...bb*: Name of the pair logical volume group that detected the error

*cc....cc*: Reason code

S: Continues processing.

Action

Refer to the list of reason codes, and take appropriate action. If HiRDB is running, remove the data inconsistency between the main site and the remote site by taking appropriate action, and then execute the `pdlogsync` command for server *aa....aa*

and acquire the synchronization point dump.

Reason code	Explanation	Action
115 116 117 118 119	During server <i>aa....aa</i> synchronization point dump acquisition processing, the system was waiting for group <i>bb....bb</i> update data copy processing, but the wait failed.	See the KFPS04680-E or KFPS01815-E message displayed immediately before, investigate the cause of the error, and take appropriate action.

**KFPS02179-I L**

Syncpoint dump acquisition opportunities for *aa....aa* service were skipped. number of skip=*bb....bb*, log generation number=*cc....cc* factor code=*ddd-ee*

The time to collect a synchronization point dump for server *aa....aa* was reached, but this synchronization point was skipped, because a synchronization point dump was being collected due to previous log file swapping.

*aa....aa*: Server name

*bb....bb*: Total number of synchronization point dump opportunities that were ignored

Even if synchronization point dumps have been collected, depending on the timing, synchronization point dump collection opportunities might be ignored. In such a case, 0 is displayed.

*cc....cc*: Log generation number whose synchronization point dump opportunity was ignored

*ddd*: Cause code indicating the reason for ignoring the synchronization point dump opportunity (this code indicates the HiRDB internal status; the user need not know the code)

*ee*: Detail code for the ignored synchronization point dump opportunity

S: Continues processing.

**Action**

This message is output in the following cases:

- The system log file swap interval is short
- The commit for a UAP transaction is slow
- Due to deferred write processing, synchronization point dump collection is slow

If this message is output repeatedly, take the following action on the basis of the factor code:

- factor code = A01-01



Take action as indicated in the section on the tuning of synchronization point dump processing when deferred write processing is applicable in the manual *HiRDB Version 8 System Operation Guide*.

- Factor code other than the above

Increase the value of the `pd_log_sdinterval` operand. Alternatively, take measures to increase the size of the system log file. If this message continues to be output repeatedly, revise the UAP.

Also, even if this message is output, if there is sufficient system log file space prepared for the swap target, this will not be a hindrance to continuing online or restarting. However, it may take time to restart HiRDB.

#### **KFPS02181-E L**

Unable to find syncpoint dump file for *aa....aa* service recovery.

There is no synchronization point dump file for recovering server *aa....aa*.

If Real Time SAN Replication with the log-only synchronous method is used and a log application site HiRDB outputs this message, this indicates that no secondary synchronization point dump files are required for preparation for log application of server *aa....aa*. Consider the following causes:

- There is an error in the path name or file name of the secondary synchronization point dump file specified in the `pdlogadpf -d ssp` operand.
- The secondary synchronization point dump file specified in the `pdlogadpf -d ssp` operand does not exist.
- The secondary synchronization point dump file specified in the `pdlogadpf -d ssp` operand cannot be accessed.
- Preparation for log application was not completed correctly, because there is no `pdlogadfg -d spd` operand that specifies the same file group name as the `pdlogadpf -d ssp` operand.

*aa....aa*: Server name

S: Outputs the KFPS02102-E message and terminates HiRDB.

#### Action

Check the error message output before this message, make sure that the same synchronization point dump file is used that was used during the previous online session, then restart HiRDB.

If Real Time SAN Replication with the log-only synchronous method is used and a log application site HiRDB outputs this message, take the following actions:

- Determine whether there is an error in the path name or file name of the secondary synchronization point dump file specified in the `pdlogadpf -d`

ssp operand, and correct the error.

- Investigate the reason that the secondary synchronization point dump file specified in the `pdlogadpf -d ssp` operand cannot be accessed, correct the error, perform preparation for log application, and restart HiRDB. For details about preparation for log application, see the manual *HiRDB Version 8 Disaster Recovery System Configuration and Operation Guide*.
- If there is no `pdlogadfg -d spd` operand that specifies the same file group name as the `pdlogadpf -d ssp` operand, verify that the file group name specified in the `pdlogadpf -d ssp` operand is correct.

**KFPS02182-E L**

Insufficient memory. size=*aa...aa*, area type:*bb...bb*

A memory shortage occurred.

*aa...aa*: Size of area that was to be allocated

*bb...bb*: Type of area resulting in the memory shortage

S: Terminates HiRDB.

Action

Check the system definition, take appropriate action, then restart HiRDB.

**KFPS02183-I S+L+R**

Syncpoint dump for *aa...aa* has been acquired to file group *bb...bb*.  
log file information:*cc...cc, dd...dd, ee...ee*. start time=*ff...ff*, end  
time=*gg...gg*

Synchronization point dump for server name *aa...aa* was collected in *bb...bb*.

*aa...aa*: Server name

*bb...bb*: File group of destination synchronization point dump file

*cc...cc*: Log file group name

*dd...dd*: Log file generation number

*ee...ee*: Log file block number

*ff...ff*: Synchronization point dump collection starting time (hh:mm:ss)

*gg...gg*: Synchronization point dump enabling completion time (hh:mm:ss)

S: Resumes processing.

**KFPS02184-E E**

Unable to close the file group because number of file groups is  
insufficient.

Specified file group cannot be closed, because there are not enough file groups.

If the specified file group is closed, the number of synchronization point dump file groups would be less than the number of guaranteed-valid generations + 1.

S: Cancels command execution.

O: Enter the `pdlogls` command to check the file status.

**KFPS02185-I L**

*aa....aa* service is recovered with syncpoint dump of file group *bb....bb*.

Server *aa....aa* was recovered from a synchronization point dump in file group *bb....bb*.

*aa....aa*: Server name

*bb....bb*: File group name

**KFPS02186-W L**

*aa....aa* service could not recovered with effective syncpoint dump.

Server *aa....aa* cannot be recovered from a valid synchronization point dump.

*aa....aa*: Server name

S: Attempts to recover the server from previous synchronization point dump generations that can be read.

Action

Check the guaranteed-valid generations to determine why they cannot be read and take appropriate action.

**KFPS02187-I L**

Number of syncpoint dump files is not enough for *aa....aa* service; continues syncpoint dump processing with file reduced mode

Operation has switched to the reduced mode, because there are not enough synchronization point dump files for server *aa....aa*.

*aa....aa*: Server name

Action

Refer to the message that was output before this message to check the cause.

**KFPS02188-I L**

Number of syncpoint dump files is enough for *aa....aa* service; continues syncpoint dump processing with normal mode

Operation has switched to the normal mode, because the specified number of synchronization point dump files were allocated for server *aa....aa*.

*aa....aa*: Server name

S: Resumes processing.

## 2. Messages

### **KFPS02189-W L**

Take measure; syncpoint dump service for *aa...aa* service is file reduced mode

The synchronization point dump service function for server *aa...aa* is in the reduced operation mode; appropriate action should be taken immediately.

*aa...aa*: Server name

S: Resumes processing.

Action

Refer to the message that was output before this message to check the cause.

### **KFPS02190-E L**

Number of `pdlogadfg -d bbb` commands with ONL exceeds the limit in definition file *aa...aa*

The number of `pdlogadfg -d bbb` specifications with ONL specified exceeds the limit.

*aa...aa*: File name of the server definition where the error occurred

*bbb*: File type

*spd*: Synchronization point dump file

*ssp*: Secondary synchronization point dump file

S: Terminates the HiRDB system.

Action

Limit the number of operands (`pdlogadfg -d spd` or `ssp`) with ONL specified in the server definition files to 30, and restart HiRDB.

### **KFPS02191-E E**

`-b` option specified with this command is invalid.

An error was found in the specification of the `-b` option (B system). The `-b` option was not specified, even though the synchronization point dump file was duplicated. Or, the `-b` option was specified, even though the synchronization point dump file was not duplicated.

S: Terminates processing.

Action

Check the specification (whether or not the synchronization point dump file is duplicated) of the `pd_spd_dual` operand, and then re-execute the command.

### **KFPS02192-W E**

File group specified with the command is already allocate

A file has already been allocated to the file group specified in a command.

S: Cancels command execution.

Action

Check the file group for which the physical file is to be allocated and re-execute the command.

**KFPS02193-E E**

Physical file name *aa....aa* specified with this command is invalid, system A/B=*b*

An error was found in the synchronization point dump file name specified by the command.

*aa....aa*: File name

If the file name exceeds 148 characters, the last 148 characters of the file name are output.

*b*: System type (a: A system, b: B system)

S: Terminates processing.

Action

Consider the following causes. Check the file name specified in the option, then re-execute the command.

- The file path name exceeds the maximum number of characters.
- The length of the HiRDB file name exceeds the maximum (30 characters).
- The specified file name is in use by the file group of another synchronization point dump file.

**KFPS02194-I L**

Syncpoint dump file group *cc....cc* for *aa....aa* service has been allocated physical file *bb....bb*

The synchronization point dump file was allocated to server *aa....aa*.

*aa....aa*: Server name

*bb....bb*: File group name

*cc....cc*: File name

If the file name exceeds 122 characters, the last 122 characters of the file name are output.

S: Terminates processing.

**KFPS02195-W E+L**

Minor error occurred while analyzing definitions for syncpoint dump service, file being analyzed: *aa....aa*, record number=*bb....bb*, reason code=*cc....cc*

An error occurred while analyzing the definition of synchronization point dump service function.

*aa....aa*: Name of definition file being analyzed

*bb....bb*: Erroneous record number

*cc....cc*: Reason code indicating the nature of the error:

408: The `pdlogadfg` operand is invalid (-d option may be missing)

409: The `pdlogadpf` operand is invalid (-d option may be missing)

S: Resumes processing.

Action

Correct the definition and restart HiRDB, if necessary.

**KFPS02196-W L**

Server name conflict with status-file. server=*aa....aa*

Although one of the following server name operations was performed with the `pdstart` operand of the system common definition, the server name conflicts with the status file because the status file was not initialized:

- Server name change
- Server name addition
- Server name deletion
- Server name specification sequence change

*aa....aa*: Server name

S: Allocates a new status file area and resumes processing. If sufficient space is not available for the status file, the unit terminates.

O: The next time the unit terminates normally, initialize the status file as described in the following table:

Change	Status file to be initialized
Change of <code>pdstart</code> server name	Initialize the status file of the corresponding server.
Addition, deletion, or server name specification sequence change in <code>pdstart</code>	Initialize all status files in the corresponding unit.

**KFPS02200-E E+L**

Unable to provide transaction log service for *aa....aa* service.  
reason code=*bbbb*

The transaction log service function cannot be provided to server *aa....aa*.

*aa....aa*: Server name

*bbbb*: Reason code

S: Terminates HiRDB abnormally.

Action

Take action appropriate to the reason code, as listed below, and restart HiRDB:

Reason code	Explanation	Action
0001	Process private area shortage	Reduce the number of processes and restart HiRDB. If the same error recurs, contact a customer engineer.
0100	Shared memory shortage	Contact a customer engineer.
1001	Status file write failure	If an error message has been issued before this message, take action appropriate to that message. Otherwise, contact a customer engineer.

**KFPS02210-E E+L**

Insufficient memory. size=*aaaaaaaa* bytes, area type=*bb....bb*

A memory shortage occurred.

*aaaaaaaa*: Size of area that was to be allocated

*bb....bb*: Type of area resulting in the memory shortage:

DYNAMIC\_SHMPOOL: Dynamic shared memory

PROCESS: Process private area

STATIC\_SHMPOOL: Static shared memory

S: Cancels processing.

Action

Memory shortage occurred in dynamic shared memory:

Check the values specified in the definition file, take appropriate action, then re-execute.

Memory shortage occurred in process private area:

Check the number of processes, take appropriate action, then re-execute.

Memory shortage occurred in static shared memory:

Re-execute later. If the same error recurs, contact a customer engineer.

**KFPS02220-E E+L**

Unable to recover transaction due to log error

A transaction could not be recovered because an invalid log was detected during HiRDB full recovery or log application processing.

Possible reasons are as follows:

- The system log file was damaged.
- An invalid system log file was used to execute full recovery of HiRDB.
- The `paircreate` or `pairresync` command was executed to perform formatting and copying of the pair volume that stores the system log files.

S: Terminates processing.

O: Take the following actions:

- Transaction execution site, or if Real Time SAN Replication with the log-only synchronous method is not used

Check the log file and eliminate the cause of the error. To recover the transaction, restart HiRDB.

- Log application site

Confirm that the status of the pair volume is `PAIR`, and then restart HiRDB. If HiRDB cannot be started, perform preparation for log application, and then restart HiRDB.

If a site takeover for disasters has occurred, see the manual *HiRDB Version 8 Disaster Recovery System Configuration and Operation Guide*.

**KFPS02240-W L**

*aa....aa* recovery to last commit point *bbb/cc/dd ee:ff:gg*,  
TRNGID=*hh...hh*, TRNBID=*ii...ii*, PROGRAM=*jj...jj*, INFO\_FILE=*kk...kk*

Server *aa....aa* recovered the database to the commit point at *bbb/cc/dd ee:ff:gg*.

*aa....aa*: Name of the server that performed the database recovery

*bbb*: Date of the most recent commit (year)

*cc*: Date of the most recent commit (month)

*dd*: Date of the most recent commit (day)

*ee*: Time of the most recent commit (hour)



*ff*: Time of the most recent commit (minute)

*gg*: Time of the most recent commit (second)

*hh...hh*: Global identifier of the transaction of the most recent commit

*ii...ii*: Branch identifier of the transaction of the most recent commit

*jj...jj*: Value of `PDCLTAPNAME` of the transaction of the most recent commit (for a utility, "\*\*\*\*" is displayed)

*kk...kk*: Path name of the recovered transaction information file (if the path name of the transaction information file is longer than 54 characters, only the last 54 characters are output)

S: Continues processing.

#### Action

Check the date and time of the commit and whether recovery could be made to the most recent database from the transaction information file. For details about how to check the transaction information file, see the manual *HiRDB Version 8 Disaster Recovery System Configuration and Operation Guide*. If recovery could not be made to the most recent database, re-execute the update of the non-recovered data.

#### **KFPS02254-E E+L**

Unable to start transaction log service. reason code=*aaaa*

The error indicated by the reason code occurred while starting the transaction log service function; this function cannot be started.

*aaaa*: Reason code

S: Terminates HiRDB abnormally.

#### Action

Take action appropriate to the reason code, as listed below, and restart HiRDB:

Reason code	Explanation	Action
0001	Process private area shortage	Reduce the number of processes and restart HiRDB. If the same error recurs, contact a customer engineer.
0100	Shared memory shortage	Contact a customer engineer.
0200	Error during definition analysis startup processing	If an error message has been issued before this message, take action appropriate to that message. Otherwise, contact a customer engineer.
0201	Analysis error in system common definition or unit control information definition	

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Reason code	Explanation	Action
0300	Communication error	See 4.1 Detail codes for RPC-related errors, and take appropriate action.
0301	Timeout	
0600	Server information failed to be registered in the name service function.	If an error message was output before this message, take the action indicated in the message. If no error message was output, contact a customer engineer.
1000	Status file read error	
1001	Status file write error	
1002	Status file allocation failure	

### KFPS02255-E E+L

Error occurred while terminating transaction log service; continues processing. reason code=*aaaa*

The error indicated by the reason code occurred while terminating the transaction log service function, but the system is resuming termination processing.

*aaaa*: Reason code

S: Terminates HiRDB abnormally.

Action

Take action appropriate to the reason code, as listed below, before the next HiRDB startup:

Reason code	Explanation	Action
0001	Process private area shortage	Reduce the number of processes and restart HiRDB. If the same error recurs, contact a customer engineer.
0100	Shared memory shortage	Contact a customer engineer.
0601	Service information failed to be deleted from the name service function	If an error message has been issued before this message, take action appropriate to that message. Otherwise, contact a customer engineer.
1001	Status file write error	
1003	Status file release error	

### KFPS02256-E E+L

Unable to continue transaction log service. reason code=*aaaa*

The system log I/O service for the transaction cannot be continued.

*aaaa*: Reason code:

2000: Synchronization point dump I/O service cannot be used.

2001: Start time for synchronization point dump I/O service is incorrect.

2003: I/O processing for synchronization point dump file is disabled.

S: Terminates HiRDB abnormally.

O: If the following message related to the synchronization point dump I/O service was output before or is output after this message, take action appropriate to that message, then re-execute the service:

- KFPS021xx-y (where xx is 00 to 99 and y is E, W, or I)

If there is no message related to the synchronization point dump I/O service, contact the HiRDB administrator.

Action

Refer to the message log and check whether an error message for an error other than one related to the synchronization point dump I/O service was output. After the cause of the error is identified, take appropriate action, then re-execute the service. If the above does not apply, contact a customer engineer.

**KFPS03302-E E+L**

Unable to start interval service. reason code=*aaaa*

The interval service function cannot be started.

*aaaa*: Reason code:

200: Communication error

300: Memory shortage

400: Shared memory shortage

500: System error

600: Status (file) error

700: adm error

S: Terminates processing.

O: Contact the system administrator, take action appropriate to the reason code, then restart the HiRDB system.

Action

Take action appropriate to the reason code.

2. Messages

**KFPS03700-E R**

Error occurred in XA interface, func=*aa...aa*, reason=*bb...bb*, code=*cc...cc*

An XA interface error occurred.

*aa...aa*: Name of the function resulting in the error

*bb...bb*: Character string indicating the type of error

Character string	Error type
SVR PROC	Error occurred at HiRDB server during transaction settlement processing.
SQL ERR	Error occurred during SQL processing.
CLT ENV	Error occurred while setting the environment to use the XA interface.
RPC INIT	Error occurred during initialization of communication environment.
RPC CALL	Error occurred during communication.
TRN OPEN	Error occurred while a communication path was being secured during transaction recovery processing.
TRN COMMIT	Error occurred at HiRDB server during transaction recovery processing (commit).
TRN ROLB	Error occurred at HiRDB server during transaction recovery processing (rollback).
TRN WAIT	Error occurred at HiRDB server while monitoring termination of transaction recovery processing.
TRN RCV	Error occurred at HiRDB server while collecting unsettled transaction information.
AX FUNC	Error occurred during transaction startup or restart processing.
AX TRID	Transaction ID was invalid during transaction startup or restart processing.
TXA OPEN	Error occurred during opening of the resource manager.
TXA STAT	An error occurred during transaction start/restart (while a multi-thread for support of the XA interface was being used).
TXA CLOS	Error occurred during closing of the resource manager.
TXA ENV	Error occurred during linkage with the transaction manager.

*cc...cc*: Code indicating the cause of the error

S: Resumes processing.

P or O: Take action appropriate to the code indicating the cause of the error:

Type of error	Code showing the cause of the error	Explanation	Action
SVR PROC	-902	Rollback occurred erroneously.	Contact a customer engineer.
SQL CODE	SQLCODE	See the explanation of the corresponding SQL code.	Check the corresponding SQL code and take appropriate action.
CLT ENV	-1	A value other than 0 or 1 is specified in the client environment definition PDXAMODE.	Specify 0 or 1 in the client environment definition PDXAMODE. For details on PDXAMODE, see the <i>HiRDB Version 8 UAP Development Guide</i> .
	-10	The value specified in the client environment definition is incorrect.	See the <i>HiRDB Version 8 UAP Development Guide</i> , and check whether the value specified for the client environment definition is correct.
TXA CLOS	-6	The transaction migration settings are different for the transaction manager and the HiRDB client.	Make the settings match for the transaction manager and the HiRDB client. Set the HiRDB client transaction migration in the client environment definition PDXAMODE. For details on transaction migration, see the <i>HiRDB Version 8 Installation and Design Guide</i> .
RPC INIT	-2403	Initialization failed.	The server may not be active. Check the server status.
	-2415	HiRDB server is inactive.	

2. Messages

Type of error	Code showing the cause of the error	Explanation	Action
RPC CALL	-2404	Memory shortage occurred.	A network error may have occurred; or, the server may not be active. Check the network status or server status.
	-2406 -2418	Network error occurred.	
	-2407	Transfer timeout occurred.	
	-2410 -2411 -2414 -2415	HiRDB server is inactive.	
	-2412 -2413 -2432	HiRDB server is engaged in termination processing.	
	-2416	System error occurred at HiRDB server.	
	-2417	Memory shortage occurred at HiRDB server.	
	-2420	HiRDB server is being started.	
	-2431	Number of connections to the HiRDB server exceeded the maximum number of concurrent connections.	

Type of error	Code showing the cause of the error	Explanation	Action
TRN OPEN	-99	HiRDB server is starting.	Possible causes are a network error or the HiRDB server not starting. Check the network status or HiRDB server status.
	100	Connection established to standby HiRDB system.	Check if a running system host name is specified in the client environment variable <code>HiRDB_PDHOST</code> for the OLTP product. If a running system host name is specified, check to be sure the version of HiRDB Client is not 06-02-/A or earlier. If HiRDB Client is version 06-02-/A or earlier, this error code is sometimes output when a unit is in the primary system and that system is a standby system. In this case, upgrade HiRDB Client to version 06-02-/B or later. If you cannot upgrade right away, switch the primary system unit from a standby system to a running system.
TRN COMMIT TRN ROLLBACK TRN WAIT TRN RECEIVE	-4	Error occurred during host-to-host communication.	The server may not be active. Check the server status.
	-6	Rollback occurred erroneously.	Contact a customer engineer.
	-7	Applicable transaction was not found in the HiRDB system.	The applicable transaction was independently determined by the HiRDB system. Check the status of the OLTP transaction.
	100	Connection established to a standby HiRDB system.	Check if a running system host name is specified in the client environment variable <code>HiRDB_PDHOST</code> for the OLTP product. If a running system host name is specified, check to be sure the version of HiRDB Client is not 06-02-/A or earlier. If HiRDB Client is version 06-02-/A or earlier, this error code is sometimes output when a unit is in the primary system and that system is a standby system. In this case, upgrade HiRDB Client to version 06-02-/B or later. If you cannot upgrade right away, switch the primary system unit from a standby system to a running system.

## 2. Messages

Type of error	Code showing the cause of the error	Explanation	Action
AX FUNC	-1	Error occurred in OLTP.	Check the status of OLTP.
	-3	Issuance sequence is invalid.	Application program may not be receiving the transaction service. Check the application program.
AX TRID	-1	Data is invalid in transaction ID.	Check the status of OLTP.
	-2	Transaction ID was not specified.	
TXA OPEN	-2	The number of concurrent connections per process has exceeded the maximum number of concurrent transactions.	Check the maximum number of concurrent transactions. Set the maximum number of concurrent transactions using the client environment definition <code>PDTXACANUM</code> .
	-3	Connection could not be established with the HiRDB server using a multi-threaded XA interface.	Upgrade the HiRDB version so that connection can be established with the HiRDB server using a multi-threaded XA interface.
TXA STAT	-2	The number of transactions that can be processed concurrently in a single process has exceeded the maximum.	Check the maximum number of transactions that can be processed concurrently, which is specified in the <code>PDTXACANUM</code> client environment definition.
	-3	Cannot connect to HiRDB server using a multi-thread that supports the XA interface.	Upgrade the HiRDB server version so that it can be connected using a multi-thread that supports the XA interface.
TXA ENV	-1	When connecting to HiRDB using a data source in standard advanced mode from Cosminexus, the settings are ignored because the XA Open String of the Cosminexus data source is undefined or the format is invalid. Also, the client environment definition <code>PDUSER</code> is not set.	Check the setting of the Cosminexus data source XA Open String and the client environment definition <code>PDUSER</code> .
	-2	When connecting to HiRDB from OpenTP1/Server Base Enterprise Option, the setting is ignored because the character string used by the <code>xa_open</code> function is not set or the format is invalid. Also, the client environment definition <code>PDUSER</code> is not set.	Check the setting of the OpenTP1/Server Base Enterprise Option <code>xa_open</code> function character string and the client environment definition <code>PDUSER</code> .



**KFPS04128-I E**

Usage: pdlogadpf -d spd [-s server\_name] -g file\_group\_name -a physical\_file\_name

Displays the format of the pdlogadpf command for a HiRDB/Single Server. This message is output when the specified command format is invalid.

**KFPS04128-I E**

Usage: pdlogadpf -d spd -s server\_name -g file\_group\_name -a physical\_file\_name

Displays the format of the pdlogadpf command for a HiRDB/Parallel Server. This message is output when the specified command format is invalid.

**KFPS04160-E E**

Specification of *aa* option required.

Required option is missing.

*aa*: Option name

S: Terminates processing.

Action

Specify the required option and re-execute.

**KFPS04161-E E**

Argument of *aa* option is invalid.

An option argument is missing or its specification is invalid.

*aa*: Option name

S: Terminates processing.

Action

Specify the correct option and re-execute.

**KFPS04162-W E**

Unable to specify *aa* option. ignored.

An invalid option was specified (the system ignored the option).

*aa*: Option name

S: Resumes processing.

Action

Delete the invalid option.

**KFPS04163-E E**

Specified hostname conflicts with the server name.

Specified host name is different from the host name for the specified HiRDB server.

S: Terminates processing.

Action

Either omit the host name or specify the correct host name for the HiRDB server.

**KFPS04164-E E**

Server name must be equal to SDS's name for single server.

For HiRDB/Single Servers, the server name must be the same as the single server's name.

S: Terminates processing.

Action

For HiRDB/Single Servers, either omit the server name or specify the correct HiRDB server name.

**KFPS04165-E E**

Hostname must be equal to SDS hostname for single server.

For HiRDB/Single Servers, the host name must be the same as the single server's host name.

S: Terminates processing.

Action

For HiRDB/Single Servers, either omit the host name or specify the correct host name.

**KFPS04170-E E**

Failed to open (unload) log file(*aa...aa*). reason code=*bbbbbb*.

A log file or unload log file failed to open.

*aa...aa*: File name

If the file name exceeds 163 characters, the last 163 characters of the file name are output.

*bbbbbb*: Return value of `pdi_ofl_open()` or `p_f_ios_open()`

S: Continues processing.

**KFPS04171-E E**

Unable to get server name because specification of 'pdstart' operand is invalid in system definition file.

The server name cannot be obtained, because the pdstart operand in the system common definition is invalid.

S: Terminates processing.

Action

Correct the `pdstart` operand specification and re-execute.

**KFPS04172-E E**

Unable to execute command due to failure of *aa...aa* system call(`command`), `code=bb...bb`

A command cannot be executed due to an error in system call (command) *aa...aa*.

This message is output when activation of an internal command called by the log command fails.

*aa...aa*: System call or command resulting in the error:

{ `exec` | `fork` | `rsh rcp`}

*bb...bb*: Internal code for the system call or the `rsh` return value

S: Terminates processing.

Action

Check the environment variables or HiRDB system definition and re-execute.

**KFPS04173-E E**

Specified hostname invalid in 'pdstart' operand

The host name specified in the `pdstart` operand of the system common definition is not valid.

S: Terminates processing.

O: Correct the system common definition and re-execute.

Action

Correct the host name specification in the `pdstart` operand of the system common definition.

**KFPS04178-E E**

Unable to specify *aa* option

The *aa* option cannot be specified.

*aa*: Option name

S: Terminates processing.

O: Re-execute the command without specifying the *aa* option.

**KFPS04179-E E**

Unit ID *aaaa* is invalid

The unit identifier specified in the command option is invalid.

*aaaa*: Unit identifier

S: Terminates processing.

O: Check whether unit *aaaa* belongs to the standby-less system switchover (effects distributed) HA group. If it does not belong to the HA group, specify the unit identifier of a unit that belongs to the HA group, then re-execute the command.

**KFPS04200-E E**

(Specification of *aa* option required.)

A required option is missing.

*aa*: Option name

S: Terminates processing.

Action

Add the required option and re-execute.

**KFPS04201-E E**

Argument of *aa* option is invalid.

An option argument is missing or invalid.

*aa*: Option name

S: Terminates processing.

Action

Specify the correct option and re-execute.

**KFPS04202-E E**

One of *aa...aa* options must be specified.

One of the listed options must be specified.

*aa...aa*: List of options (separated by the comma)

S: Terminates processing.

Action

Specify one of the options and re-execute.

**KFPS04203-E E**

Only of *aa...aa* options can specified.

Only one of the listed options can be specified.

This message is output when lock options are specified.

*aa...aa*: List of options (separated by the comma)

S: Terminates processing.

Action

Specify only one of the options and re-execute.

**KFPS04204-E E**

Specified hostname conflicts with the server name.

Specified host name does not match the host name for the specified HiRDB server.

S: Terminates processing.

Action

For a HiRDB server, either omit the host name or specify the correct host name for the HiRDB server.

**KFPS04205-E E**

Server name must be equal to SDS's name for single server.

For HiRDB/Single Servers, the server name must be the same as the single server's server name.

Because a HiRDB/Single Server consists of only one HiRDB server, specification of a server name can be omitted. This message is output when the specified server name is not the defined single server's server name.

S: Terminates processing.

Action

For HiRDB/Single Servers, either omit the server name or specify the correct HiRDB server name.

**KFPS04206-E E**

Hostname must be equal to SDS hostname for single server.

For HiRDB/Single Servers, the host name must be the single server host name.

Because a HiRDB/Single Server consists of only one host, specification of a host name can be omitted. This message is output when the specified host name is not the local host name.

S: Terminates processing.

Action

For HiRDB/Single Servers, either omit the host name or specify the correct host name.

**KFPS04207-E E**

Unable to get server name because specification of 'pdstart' operand is invalid in system definition file.

The server name cannot be obtained, because the pdstart operand in the system common definition is invalid.

S: Terminates processing.

Action

Correct the `pdstart` operand specification in the system common definition and re-execute.

**KFPS04208-E E**

Unable to execute command due to failure of *aa...aa* system call (command), code=*bb...bb*

A command cannot be executed due to an error in system call (command) *aa...aa*.

This message is output when activation of an internal command called by the status log command fails.

*aa...aa*: System call or command resulting in the error:

{ exec | fork | rsh }

*bb...bb*: Internal code for the system call or the `rsh` return value

S: Terminates processing.

Action

Check the environment variables or system definition file and re-execute.

**KFPS04209-E E**

Specified hostname invalid in 'pdstart' operand.

The host name specified in the `pdstart` operand of the system common definition is not valid.

S: Terminates processing.

O: Correct the system common definition and re-execute.

Action

Correct the host name specification in the `pdstart` operand of the system common definition.

**KFPS04210-E E**

Unit ID *aaaa* is invalid

The unit identifier specified in the command option is invalid.

*aaaa*: Unit identifier specified in the command option

S: Terminates processing.

O: Specify the unit identifier of the running system unit of the HiRDB server specified in the command option, and then re-execute the command.

**KFPS04211-E E**

Unable to specify *aa* option

The *aa* option cannot be specified.

*aa*: Name of the option that cannot be specified

S: Terminates processing.

O: Re-execute the command without specifying the *aa* option.

#### KFPS04320-W L

Failure to open syncpoint dump file for *aa...aa* service, file group name=*bb...bb*, system A/B=*c*, reason code=*dddd*

An attempt to open a synchronization point dump file failed. The file could not be opened.

*aa...aa*: Server name

*bb...bb*: File group name of the synchronization point dump file

*c*: System type (a: A system, b: B system)

*dddd*: Reason code

S: Continues processing.

Action

Take action according to the reason code.

Reason code	Description	Action
59	File status flag is invalid.	Contact a customer engineer.
61	File name is invalid.	Re-evaluate the server definition of the server where the error occurred.
62	No synchronization point dump file was created in the HiRDB file system area for system files.	Create a synchronization point dump file in the HiRDB file system area for system files. If Real Time SAN Replication is used, make the path to reference the synchronization point dump file on the remote site the same as on the main site. For a log application site, confirm that the path specified in the <code>pdlogadpf -d ssp</code> operand matches the path of the secondary synchronization point dump file created in the preparation for log application.
63	No synchronization point dump file was found.	
64	File system versions do not match.	Re-evaluate the HiRDB execution environment.
65	File system locking error occurred.	
66	Shortage of file system lock segments.	Re-evaluate the amount of memory used.
67 107	The maximum was exceeded when opening the file system.	Close unnecessary files or re-evaluate the open file limit. Re-create the kernel if necessary.

## 2. Messages

Reason code	Description	Action
68	No access privilege for the applicable special file.	Re-evaluate the HiRDB execution environment.
69	No access privilege for the applicable file.	
70	File system I/O error.	Check for the cause of the I/O error, and then take appropriate action.
71	There is a shortage of file system memory.	Re-evaluate the amount of memory used.
88	Memory shortage.	Re-evaluate the usage status of the process private area.
92	A file detection error occurred. (Either the file was not initialized as a synchronization point dump file or is a synchronization point dump file in use by another server or HiRDB system.)	To check for the error cause: <ol style="list-style-type: none"> <li>1. Re-evaluate the <code>pdlogadpf</code> operand of the synchronization point dump file or the system common definition.</li> <li>2. Initialize the HiRDB file system area for use by synchronization point dump files, and then re-execute.</li> </ol>
97	Invalid size.	Re-evaluate the size of the synchronization point dump file.
98	I/O error.	Check for the cause of the I/O error, and then take appropriate action.
106	Invalid file name.	Consider the following causes: <ul style="list-style-type: none"> <li>• An invalid character was used in the file name.</li> <li>• The HiRDB file name length exceeded the maximum (30 characters).</li> </ul> Re-evaluate the file name specified by the server definition or command operand.
108	File name is not registered.	Use the <code>pdlogadpf</code> command to register a file name corresponding to the applicable file group.

### KFPS04321-W L

Failure to close syncpoint dump file for *aa...aa* service, file group name=*bb...bb*, system A/B=*c*, reason code=*dddd*

An attempt to close a synchronization point dump file failed. The file could not be closed.

*aa...aa*: Server name

*bb...bb*: File group name of the synchronization point dump file

*c*: System type (a: A system, b: B system)



*dddd*: Reason code

S: Continues processing.

Action

Take action according to the reason code.

Reason code	Description	Action
66	Shortage of file system lock segments.	Re-evaluate the amount of memory used.
70	File system I/O error.	Check for the cause of the I/O error, and then take appropriate action.
71	There is a shortage of file system memory.	Re-evaluate the amount of memory used.
106	File system path error.	Consider the following causes: <ul style="list-style-type: none"> <li>• An invalid character was used in the path name.</li> <li>• The HiRDB file name length exceeded the maximum (30 characters).</li> </ul> Determine if the file name specification is valid.
205	A program internal conflict was detected.	Contact a customer engineer.

#### KFPS04322-W L

Failure to write to syncpoint dump file for *aa....aa* service, file group name=*bb....bb*, system A/B=*c*, reason code=*dddd*

An attempt to write a synchronization point dump file failed. The file could not be written.

*aa....aa*: Server name

*bb....bb*: File group name of the synchronization point dump file

*c*: System type (a: A system, b: B system)

*dddd*: Reason code

S: Continues processing.

Action

Take action according to the reason code.

Reason code	Description	Action
1	A record output request that exceeded the file area was issued.	Contact a customer engineer.

2. Messages

Reason code	Description	Action
70	File system I/O error.	Check for the cause of the I/O error, and then take appropriate action.
95	A synchronization point dump file for the requested number of records could not be written into a file.	Contact a customer engineer.
202 204 207 209	An error was detected while a synchronization point dump file was being output.	

**KFPS04323-W L**

Failure to read from syncpoint dump file for *aa...aa* service, file group name=*bb...bb*, system A/B=*c*, reason code=*dddd*

An attempt to read a synchronization point dump file failed. The file could not be read.

*aa...aa*: Server name

*bb...bb*: File group name of the synchronization point dump file

*c*: System type (a: A system, b: B system)

*dddd*: Reason code

S: Continues processing.

Action

Take action according to the reason code.

Reason code	Description	Action
1	A record input request that exceeded the file area was issued.	Contact a customer engineer.
70	An I/O error occurred.	Check for the cause of the error, and then take appropriate action.
201 203 206 208	An error was detected while a synchronization point dump file was being input.	Contact a customer engineer.

**KFPS04370-W L**

Syncpoint dump file is already closed, system A/B=*a*

The synchronization point dump file is already closed.

*a*: System type (a: A system, b: B system)

S: Terminates processing.

Action

Execute the `pdlogls -d spd -e` command and check the status of the synchronization point dump file.

**KFPS04371-W L**

Syncpoint dump file is already opened, system A/B=*a*

The synchronization point dump file is already open.

*a*: System type (a: A system, b: B system)

S: Terminates processing.

Action

Execute the `pdlogls -d spd -e` command and check the status of the synchronization point dump file.

**KFPS04372-I L**

Syncpoint dump file for *aa....aa* service has been opened, file group name=*bb....bb*, system A/B=*c*

A synchronization point dump file was opened for the *aa....aa* server.

*aa....aa*: Server name

*bb....bb*: File group name of the synchronization point dump file

*c*: System type (a: A system, b: B system)

S: Continues processing.

**KFPS04373-I L**

Syncpoint dump file for *aa....aa* service has been closed, file group name=*bb....bb*, system A/B=*c*

A synchronization point dump file was closed for the *aa....aa* server.

*aa....aa*: Server name

*bb....bb*: File group name of the synchronization point dump file

*c*: System type (a: A system, b: B system)

S: Continues processing.

**KFPS04605-W L**

Unable to specify *aa....aa* operand, ignored

A definition that cannot be specified for the platform was specified.

*aa....aa*: Ignored definition

S: Ignores the specified definition and continues processing

Action

Delete the corresponding definition from the definition file and start HiRDB.

**KFPS04606-W L**

Unable to connect to event server of JP1

The system common definition specifies linkage with Job Management Partner 1 (pd\_jp1\_use=Y or pd\_jp\_event\_level=2), but connection cannot be established with the Job Management Partner 1 event server.

S: Continues processing.

Action

If it is necessary that events be output to Job Management Partner/Integrated Manager, investigate the cause of the connection failure and eliminate it. Job Management Partner/Integrated Manager or Job Management Partner/Base may not be installed.

If it is not necessary that events be output to Job Management Partner/Integrated Manager, specify N in the pd\_jp1\_use operand and restart HiRDB.

**KFPS04607-I L**

Data replication restart, server ID=*aa....aa*, reason code=*bb....bb*

Linkage with the HiRDB Datareplicator was restarted.

*aa....aa*: Server name

*bb....bb*: Reason that linkage with the HiRDB Datareplicator was restarted

FORCE: During the previous session, linkage was established with the HiRDB Datareplicator, but HiRDB was started with the pdstart -i command

STATUS: One of the following reasons:

- An error occurred in the HiRDB Datareplicator data linkage file, or it was initialized.
- An error occurred in the status file used by the server, or it was initialized.

S: Stops and then restarts linkage with the HiRDB Datareplicator.

Action

If necessary, initialize the HiRDB Datareplicator data linkage file or re-create the target database.

**KFPS04608-W L**

Unable to continue data replication, server ID=*aa....aa*, reason code=*bb....bb*

Linkage with the HiRDB Datareplicator could not be maintained.

*aa....aa*: Server name

*bb....bb*: Reason that linkage with the HiRDB Datareplicator could not be maintained

DEFINITION: During the previous session, linkage was established with the HiRDB Datareplicator, but *N* was specified in the `pd_rpl_init_start` operand

RPL\_FILE: An error occurred in the HiRDB Datareplicator data linkage file

RPL\_STATUS: The HiRDB Datareplicator data linkage file was initialized

S: Stops the linkage with the HiRDB Datareplicator, and continues server activation processing.

Action

To re-execute linkage with the HiRDB Datareplicator, eliminate the cause of the error, synchronize with the target HiRDB, and use the `pdrplstart` command to restart linkage with the HiRDB Datareplicator. Also, if HiRDB is stopped and linkage with the HiRDB Datareplicator is already established, specify *Y* in the `pd_rpl_init_start` operand.

#### **KFPS04609-E L**

Error occurred in status file while data replication, server ID=*aa....aa*, reason code=*bb....bb*

An error was detected in the status file during linkage with the HiRDB Datareplicator.

*aa....aa*: Server name

*bb....bb*: Reason code

COMMUNICATION: Inter-process communication error

SERVER NOT UP: Status service not activated

I/O ERROR: I/O error

OTHER: Other error

S: Abnormally terminates.

Action

Eliminate the cause of the error on the basis of the message output before this message.

#### **KFPS04611-I E+S**

Usage: `pdmemsv [-d | -s]`

The specification format of the `pdmemsv` command option is invalid.

S: Terminates processing.

O: Reenter correctly the specified command.

**KFPS04612-E E**

Error occurred in execution, reason code=*aa....aa*

The `pdmemsv` command cannot be executed because of error code *aa....aa*.

*aa....aa*:

ALREADY:

The attempted operation has already been executed.

INSTALL\_DIR:

This command cannot be executed in the environment under the installation directory.

NO\_DIR:

A required directory cannot be found.

NO\_LIBS:

The environment has been damaged.

NOT\_SINGLE:

The server is not a HiRDB/Single Server.

NOT\_PARALLEL

The server is not a HiRDB/Parallel Server.

PDDIR:

The PDDIR environment variable cannot be found.

PERMISSION:

The person who executed the command is not a superuser.

SETUP:

HiRDB is running.

VERSION:

The installed HiRDB and the HiRDB in `$PDDIR` are different versions. Or, the necessary load module was deleted by the `pdloadsv` command.

S: Terminates processing.

O: Take action appropriate to the cause, as described below:

PDDIR:

Change the PDDIR environment variable setting to the HiRDB environment

to be operated with this command.

PERMISSION:

Execute the command as a superuser.

SETUP:

Keep the files needed for execution and execute `pdsetup -d`.

VERSION:

Check if the versions of the installed HiRDB and the HiRDB in `$PDDIR` are the same. When a load module required by the `pdlodsv` command was deleted, reinstall HiRDB with the same version as the HiRDB in the HiRDB directory.

Other:

Check whether the setting for the `PDDIR` environment variable is correct. If it is correct, contact the HiRDB administrator.

Action

Check whether the installed HiRDB and the HiRDB in `$PDDIR` have the same version. The HiRDB in `$PDDIR` requires system files; check that the necessary files have not been deleted during `pdsetup -d` execution.

**KFPS04614-I L+S**

Usage: *aa...aa*

The command option specification format is invalid.

*aa...aa*: Command in which option specification is invalid:

pdopsetup command:

`pdopsetup [-d] -k option HiRDB_home_directory`

pdadmvr command:

`pdadmvr [-s]`

pdlodsv command:

`pdlodsv [-r kind]`

S: Terminates processing.

Action

Re-execute the command according to the command usage method.

**KFPS04615-E E**

Specified HiRDB option already setup, option=*aaa*, version=*bb...bb*

Version *bb...bb* option program product was already embedded into the HiRDB directory specified by the `pdopsetup` command.

*aaa*: Option program product

`exd`: HiRDB External Data Access

`sti`: HiRDB Staticizer Option

`aha`: HiRDB Advanced High Availability

`ldp`: HiRDB LDAP Option

`apt`: HiRDB Advanced Partitioning Option

`nrf`: HiRDB Non Recover FES

`drl`: HiRDB Disaster Recovery Light Edition

*bb...bb*: Version of option program product

S: Terminates processing.

Action

Check the version of the option program product embedded in the specified HiRDB directory and the version of the installed option program product. To embed the version of the installed option program product, execute the `pdopsetup -d` command, and then execute the `pdopsetup` command.

**KFPS04616-E E**

Specified HiRDB option not setup, option=*aaa*

An attempt to delete failed because the option program product is not embedded in the HiRDB directory specified by the `pdopsetup -d` command.

*aaa*: Option program product

`exd`: HiRDB External Data Access

`sti`: HiRDB Staticizer Option

`aha`: HiRDB Advanced High Availability

`ldp`: HiRDB LDAP Option

`apt`: HiRDB Advanced Partitioning Option

`nrf`: HiRDB Non Recover FES

`drl`: HiRDB Disaster Recovery Light Edition

S: Terminates processing.

Action

Check if the HiRDB directory specified by the `pdopsetup` command is correct.



**KFPS04617-E E**

HiRDB option not installed, PP=*aa....aa*

A HiRDB option program product is not yet installed.

*aa....aa*: Name of option program product:

HiRDB External Data Access

HiRDB Staticizer Option

HiRDB Advanced High Availability

HiRDB LDAP Option

HiRDB Advanced Partitioning Option

HiRDB Non Recover FES

HiRDB Disaster Recovery Light Edition

S: Terminates processing.

Action

Install the HiRDB option program product and re-execute the command.

**KFPS04618-I S**

HiRDB option setup complete, func=*aa....aa*, option=*bbb*,  
version=*cc....cc*

A HiRDB option program product was either installed or removed.

*aa....aa*: Function type:

add: Install

delete: Remove

*bbb*: Option program product:

exd: HiRDB External Data Access

sti: HiRDB Staticizer Option

aha: HiRDB Advanced High Availability

ldp: HiRDB LDAP Option

apt: HiRDB Advanced Partitioning Option

nrf: HiRDB Non Recover FES

dr1: HiRDB Disaster Recovery Light Edition

*cc....cc*: Version of option program product

S: Terminates processing.

**KFPS04619-E S+R**

Unable to execute *aa....aa* command due to HiRDB unit not offline or not terminate normally

The HiRDB unit is not stopped; command *aa....aa* cannot be executed.

*aa....aa*: Name of the command

S: Terminates processing.

Action

It is possible that HiRDB was still running (including startup or termination processing) when the command was executed. The command cannot be executed under those conditions.

If HiRDB is running, use the `pdstop` command to stop HiRDB and then re-execute the command. Otherwise, activate HiRDB, use the `pdstop` command to stop HiRDB, and then re-execute the command.

- UNIX version only

Even if HiRDB is stopped, the `pdplgset`, `pdopsetup`, or `pddbset` commands cannot be entered if HiRDB terminated abnormally or was forcibly terminated using the `pdstop -f` command.

**KFPS04620-I L**

Server *aa....aa* information. Process ID=*bb....bb*. System event=*0xcccccc dddddd eeeeeee*. User event=*0xfffffff*. SYS\_CALL=*0xggggggg*.

This is server information.

*aa....aa*: Server name

*bb....bb*: Process ID

*ccccccc*: System event information 1 (internal code)

*ddddddd*: System event information 2 (internal code)

*eeeeeee*: System event information 3 (internal code)

*fffffff*: User event information (internal code)

*ggggggg*: System call code information (internal code)

S: Resumes processing.

Action

This information is in addition to a KFPS01820-E message that was output before this message. Take a corrective action based on the server name and the KFPS01820-E message that is associated with the process ID.

**KFPS04621-E L**

Caution: Server *aa....aa* (process ID=*bb....bb*) killed by user request

A HiRDB server process was stopped because of a user request issued from outside HiRDB. User requests issued from outside HiRDB include the following:

In UNIX:

- OS's `kill` command was executed. This message is applicable to `SIGTERM`, `SIGKILL`, `SIGQUIT`, and `SIGABRT` signals only.
- Java Virtual Machine sent a signal when a Java stored procedure or Java stored function was being used. This message is applicable to `SIGTERM`, `SIGKILL`, and `SIGABRT` signals only.
- The facility for parallel output of system logs was applied while the AIX 5L Asynchronous I/O Subsystem was not installed or was not enabled.

In Windows:

- The `pdkill` command was executed.

*aa....aa*: Server name of the stopped process

*bb....bb*: Process ID at the server

S: Continues processing.

O: If the core file was output with a UNIX version HiRDB, contact the HiRDB administrator.

Action

In UNIX:

Determine whether the OS's `kill` command was executed.

Or, check if the facility for parallel output of system logs was applied (`parallel` was specified in the `pd_log_dual_write_method` operand) while the AIX 5L Asynchronous I/O Subsystem was not installed or was not enabled. For details on the facility for parallel output of system logs, see the *HiRDB Version 8 Installation and Design Guide*.

In Windows:

Determine whether the `pdkill` command was executed.

**KFPS04622-E E+L**

Invalid user name, user=*aa....aa*; *bb....bb* processing

*aa....aa* is an invalid authorization identifier.

*aa....aa*: Authorization identifier

*bb....bb*: System action:

*stops*: Stops processing.

*continues*: Continues processing using the executing user's log-in account (during `pdinit` execution only).

**S**: Performs the *bb...bb* processing.

**O**: Re-execute the utility, as appropriate.

#### Action

If this message was output when `pdinit` was executing, revise the authorization identifier and then re-execute. The following names cannot be used for the authorization identifier:

- Name more than 8 bytes long
- Name that does not begin with a single-byte character (upper- or lower-case letter)
- Name containing a character string other than single-byte characters (upper- or lower-case letters) and single-byte numbers
- `HIRDB`, `MASTER`, `ALL`, and `PUBLIC` (reserved words that cannot be used as authorization identifiers)

#### **KFPS04623-E E+L**

Invalid password, `user=aa...aa; bb...bb` processing

The password for authorization identifier *aa...aa* is invalid.

*aa...aa*: Authorization identifier

*bb...bb*: System action:

*stops*: Stops processing.

**S**: Performs the *bb...bb* processing.

**O**: Re-execute the utility, as appropriate.

#### Action

If this message is output during `pdinit` execution, check and correct the password if necessary and re-execute. The following names cannot be used as passwords and must be changed:

- Name more than 30 bytes long
- Name that does not begin with a single-byte character (upper- or lower-case letter)
- Name containing a character string other than single-byte characters (upper- or lower-case letters) and single-byte numbers

**KFPS04624-I E+L**

Data replication already stopped, unit ID=*aaaa*, server ID=*bb...bb*

An error was detected in the data linkage file of the HiRDB Datareplicator or in the server in which a data linkage stoppage occurred. This message is displayed for each server in which an error occurred.

*aaaa*: Unit identifier

*bb...bb*: Server name

S: Stops data linkage and continues with HiRDB startup.

Action

Take the actions indicated by the KFPS01833-I and KFPS01801-E messages, which follow this message.

**KFPS04625-E L**

Error found in system configuration, reason code=*aa....aa*

An operand specified in the system common definition or unit control information definition is invalid.

*aa....aa*: Reason code:

SPECIFIED *pd\_spool\_cleanup\_level*:

An error was found in the specification of the *pd\_spool\_cleanup\_level* operand.

SPECIFIED *pd\_spool\_cleanup\_interval\_level*:

An error was found in the specification of the *pd\_spool\_cleanup\_interval\_level* operand.

S: Terminates processing.

Action

Correct the operand and restart HiRDB.

**KFPS04626-E S**

Unable to remove *aa....aa*, reason code=*bb...bb*

Load module *aa....aa* cannot be deleted.

*aa....aa*: Load type:

POSIX: POSIX library version of HiRDB

*bb...bb*: Reason code:

USING: This load module cannot be deleted because it is being used.

REMOVED: This load module has already been deleted.

RUNNING: pdsetup command is executing.

S: Terminates processing.

Action

If the reason code is RUNNING, wait for the pdsetup command to terminate and then re-execute.

**KFPS04627-E L**

HiRDB Datareplicator extraction process not in progress, because error occurred in HiRDB Datareplicator access communication file. unit ID=*aaaa*, server ID=*bb...bb*.

The HiRDB Datareplicator data linkage extraction process did not run because access to the data linkage file failed.

*aaaa*: Unit identifier

*bb...bb*: Server name

S: Continues processing.

Action

Check the reason why access to the data linkage file failed, and then take appropriate action. You can check the KFPS01889-E message output immediately before this message for the reason access failed.

When function value of the KFPS01889-E message is SYSTEM CALL (stat) ERROR and errno is 2:

The data linkage file could not be found. To re-create a data linkage file, you must use HiRDB Datareplicator to initialize the data linkage file.

To re-create a data linkage file:

1. Use the pdrplstop command to terminate data linkage processing.
2. For nontarget system logs, use HiRDB Dataextractor or HiRDB Datareplicator data linkage facility to restore consistency between data linkage extraction and target databases.
3. Execute the hdestart -i command that HiRDB Datareplicator provides, re-create the data linkage file, and then initialize.
4. Use the pdrplstart command to start the data linkage process.

When errno of the KFPS01889-E message is 13:

The user has no access privileges to the data linkage file. Request that the HiRDB administrator change access privileges so you can access the data linkage file.

When function value of the KFPS01889-E message is FILE LOCK ERROR:

HiRDB Datareplicator may have exclusive ownership of the data linkage file. Check the execution status of HiRDB Datareplicator.

**KFPS04628-W E+L**

Data replication stopped, please check.

Data linkage to HiRDB Datareplicator stopped. Check the reason why data linkage stopped.

S: Continues processing.

Action

Check the reason why data linkage to HiRDB Datareplicator stopped. If there is a problem, use the data linkage recovery facility of HiRDB Dataextractor or HiRDB Datareplicator to restore consistency between the data linkage extraction database and the target database.

**KFPS04629-I E+L**

Command failed on online unit, command=*aa...aa*, hostname=*bb...bb*;  
Retrying on standby unit

Because execution of command *aa...aa* on running system unit host *bb...bb* failed, the command was executed on a standby unit.

*aa...aa*: Command name

*bb...bb*: Host name

S: Continues processing.

Action

If the command that was re-executed by the standby system unit terminates normally, ignore the error issued by the running system unit. Note that the running system and standby system referred to here are statuses that are determined by the HiRDB system, and may differ from the actual systems. If an error occurs on both the running system and the standby system, check the actual system status, and then take action according to the error message output by the running system unit.

**KFPS04630-I L+S**

External Data Access Adapter setup start, func="*aa...aa*", External Data Access Adapter name=*bb...bb*

Setup processing for HiRDB External Data Access Adapter has started.

*aa...aa*: Processing content

setup: Setup of HiRDB External Data Access Adapter

delete: Deletion of the HiRDB External Data Access Adapter

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*bb...bb*: HiRDB External Data Access Adapter name

S: Continues processing.

### **KFPS04631-I L+S**

External Data Access Adapter setup ended, return code=*aa...aa*

Setup processing for HiRDB External Data Access Adapter has finished.

*aa...aa*: Termination code

0: Normal termination

8: Abnormal termination

S: Terminates processing.

Action

If the termination code is other than 0, check the KFPS046XX-E or operating system message, output before this message, and then take appropriate action.

### **KFPS04632-I S**

```
Usage: pddbaset      External_Data_Access_Adapter_name
installed_directory  pddbaset -d
External_Data_Access_Adapter_name
```

This message indicates the usage of the `pddbaset` command. It is output when the command format is incorrect. Re-evaluate the command format, and then re-execute the command.

S: Terminates processing.

### **KFPS04633-E E+L**

Invalid "PDDIR", path name="*aa...aa*"

The environment variable PDDIR is invalid.

*aa...aa*: Specified value of the environment variable PDDIR

If this message is not displayed, PDDIR was not specified.

S: Terminates processing.

Action

When "*aa...aa*" is displayed:

- Check if the correct HiRDB directory name is specified in PDDIR. If an incorrect pathname is specified, specify the correct pathname and re-execute the command.
- Check if the HiRDB directory name is specified in PDDIR as an absolute path. If specified as a relative path, change the specification to an absolute path. Then re-execute the command.



When "*aa....aa*" is not displayed:

Specify the HiRDB directory name in `PDDIR` as an absolute path, and then re-execute the command.

**KFPS04634-E E+L**

External Data Access Adapter *aa....aa* already setup

The specified HiRDB External Data Access Adapter is already set up.

*aa....aa*: Name of HiRDB External Data Access Adapter

S: Terminates processing.

Action

If the `pddbaset` command to *aa....aa* terminates normally, re-execution is not necessary. If this command does not terminate normally, execute the `pddbaset -d` command, and then re-execute the `pddbaset` command.

**KFPS04635-E E+L**

Permission error occurred, path name=*aa....aa*

The user does not have access privileges for *aa....aa*.

*aa....aa*: File or directory name that could not be read or written

S: Terminates processing

Action

Take one of the following actions:

- If an error is found in a command argument, correctly specify the command argument, and then re-execute.
- If the user does not have access privileges to the installation directory, delete the installation directory, and then reinstall it. Or, request that the HiRDB administrator grant you access privileges so that you can access the installation directory.
- If an error occurred during an operating system command for internal processing, check for the cause of the error according to the error message for the operating system command, and then take appropriate action.
- Otherwise, save the files under the `%PDDIR%\adapter` path or the files under the installation directory specified in the argument, and then contact a customer engineer.

**KFPS04636-E E+L**

File or directory not exists, path name=*aa....aa*

The file or directory *aa....aa* was not found.

*aa....aa*: File name or directory name the command argument attempted to reference

S: Terminates processing.

Action

Take one of the following actions:

- If an error is found in a command argument, correctly specify the command argument, and then re-execute.
- If the installation directory is damaged, reinstall HiRDB External Data Access Adapter.
- If an error occurred during execution of an operating system command for internal processing, check for the cause of the error according to the error message for the operating system command, and then take appropriate action.
- Otherwise, save the files under the %PDDIR%\adapter path or the files under the installation directory specified in the argument, and then contact a customer engineer.

**KFPS04637-E E+L**

Not a directory, path name=*aa....aa*

*aa....aa* is not a directory.

*aa....aa*: Name of the file the command argument attempted to reference

S: Terminates processing.

Action

Check if the pathname specified for the argument is correct. If the path name is incorrect, specify the correct installation directory name, and then re-execute the command. If a file called `adapter` is created in the HiRDB directory, change the file name.

**KFPS04638-E E+L**

External Data Access Adapter *aa....aa* not setup

HiRDB External Data Access Adapter was not set up.

*aa....aa*: Name of HiRDB External Data Access Adapter

S: Terminates processing.

Action

Take one of the following actions:

- If an error was found in the HiRDB External Data Access Adapter name specified in an argument, specify the correct HiRDB External Data Access Adapter name, and then re-execute the command.

- If an error was found in the pathname specified in the environment variable PDDIR, specify the correct pathname then re-execute the command.
- Because the HiRDB External Data Access Adapter specified in the argument was not set up, executing the command is not necessary.

**KFPS04639-E E+L**

`Pddbaset` already used by another user

The `pddbaset` command is already running.

S: Terminates processing.

Action

After the currently running `pddbaset` command terminates, re-execute the `pddbaset` command.

**KFPS04640-E E+L**

`Pddbaset settype` is not support

The HiRDB External Data Access Adapter type specified in the command argument is not supported.

S: Terminates processing.

Action

Correctly specify the HiRDB External Data Access Adapter type in the command argument. The following provides the currently supported HiRDB External Data Access Adapters and the corresponding command arguments:

- Foreign server is HiRDB or XDM/RD E2: `hiv6`
- Foreign server is ORACLE: `orav8`
- Foreign server is DB2: `db2udbv6`

**KFPS04641-E E+L**

External Data Access required

HiRDB External Data Access is required to execute this command.

S: Terminates processing.

Action

Install HiRDB External Data Access, set the environment variables, and then re-execute this command.

**KFPS04643-I L**

Assumed `aa....aa` default value=`bb....bb` on unit `cccc`

Assumed default value `bb....bb` of definition operand `aa....aa` in unit `cccc`.

`aa....aa`: Definition operand name

`pd_max_server_process` (maximum number of concurrently active server processes)

*bb...bb*: Default value of the definition operand

*cccc*: Unit identifier

S: Continues processing.

Action

When an insufficient maximum number of concurrently active server processes is detected during operation, re-estimate the specified operand value, specify a value greater than the default value, and then restart HiRDB.

**KFPS04644-I L**

Assumed *aa...aa* default value=*bb...bb* on server *cc...cc*

The default value *bb...bb* is assumed for operand *aa...aa* on server *cc...cc*.

*aa...aa*: Operand name

`pd_bes_shmpool_size` (shared memory size for back-end server)

`pd_dic_shmpool_size` (shared memory size for dictionary server)

`pd_sds_shmpool_size` (shared memory size for a single server)

*bb...bb*: Default value of the operand (bytes)

*cc...cc*: Server name

S: Continues processing.

Action

If a shared memory shortage was detected during operation, re-estimate the value of the specification. Specify a value larger than the default (value of *bb...bb*) and restart HiRDB.

**KFPS04645-I L+S**

`pdprgcopy` ended, return code=*aa*

The `pdprgcopy` command terminated.

*aa*: Return code

0: The `pdprgcopy` command terminated normally.

8: The `pdprgcopy` command terminated with an error.

S: Terminates processing.

Action

If the return code is 8, refer to the error message that is output to standard error or

to the event log (in UNIX, syslogfile), and eliminate the cause of the error. Then, re-execute the command.

**KFPS04646-I L+S**

pdprgnew ended, return code=*aa*

The pdprgnew command terminated.

*aa*: Return code

0: The pdprgnew command terminated normally.

8: The pdprgnew command terminated with an error. HiRDB is returned to its pre-update version.

12: The pdprgnew command terminated with an error. An error occurred during processing to return HiRDB to its pre-update version. HiRDB stopped.

S: Terminates processing.

**Action**

Based on the return code, take the following action:

If the return code is 8:

Refer to the error message that is output to standard error or to the event log (in UNIX, syslogfile), and eliminate the cause of the error. Then, re-execute the command.

HiRDB operates even after the command termination if HiRDB was running when the command was executed. If HiRDB was inactive when the command was executed, HiRDB remains inactive even after command termination.

If the return code is 12:

See the KFPS04647-I message output immediately before this message, check which processing the error occurred, take appropriate action, and then re-execute the pdprgnew command. Take one of the following actions:

- If `SYS_SUSPEND` or `SYS_RESUME` is displayed in the KFPS04647-I message:

If there is a HiRDB process, use the `pdstop -f` command to forcibly terminate HiRDB, and then execute the `pdprgnew -b` command. If there is no HiRDB process, execute the `pdprgnew -b` command.

- If `RECOVER_REPLACE`, `RECOVER_BACKUP`, or `RECOVER_SYS_SUSPEND` is displayed in the KFPS04647-I message:

Refer to the error message that is output to standard error or to the event log (in UNIX, syslogfile), eliminate the cause of the error, and then

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execute the `pdprgrefresh -b` command.

**KFPS04647-I L+S**

`pdprgrefresh aa...aa` started

The `pdprgrefresh` command started `aa...aa` processing.

`aa...aa`: Processing contents

Processing contents (aa...aa)	Explanation
SYS_SUSPEND	HiRDB processing is suspended internally.
BACKUP	A backup of the active HiRDB is being acquired.
REPLACE	HiRDB is being replaced with an updated version.
SYS_RESUME	HiRDB has been restarted with an updated version.
RECOVER_REPLACE	This recovery process is performed when an error occurs. The updated version of HiRDB is returned to the update directory.
RECOVER_BACKUP	This recovery process is performed when an error occurs. HiRDB is returned to its pre-update version.
RECOVER_SYS_SUSPEND	This recovery process is performed when an error occurs. The pre-update version of HiRDB is restarted.

S: Continues processing.

**KFPS04648-E E+L**

Error occurred in `pdprgrefresh` command, unit ID=`aaaa`, reason code=`bb...bb`

An error occurred during execution of the `pdprgrefresh` command.

`aaaa`: Unit identifier

If an error occurred before the unit identifier was obtained, `****` is displayed.

`bb...bb`: Reason code

Reason code (bb...bb)	Explanation
permission error	The user executing the command is not a HiRDB administrator.
renew directory not exist	The <code>renew</code> directory was not found in the HiRDB directory.
renew_bak directory exist	The <code>renew_bak</code> directory was found in the HiRDB directory.
rename error	An error occurred in the program update process <code>rename()</code> system call.

Reason code (bb....bb)	Explanation
transactions exist	The pdprg Renew command waited for transactions to terminate, but execution of the command was suspended because some transactions were still active even 15 minutes later.
offline units exist	Some inactive units remain in the system.
offline servers exist	Some inactive servers remain.
utility be executing	A HiRDB utility is currently running. The pdprg Renew command cannot be executed while a utility is running.
replication mode unmatch	When using the HiRDB Datareplicator linkage facility, the specification of the pd_rpl_init_start operand and the run status do not match.
pdprg Renew -b be unnecessary	The pdprg Renew -b command was executed, but no operation was performed because executing the pdprg Renew -b command is not necessary.
sys_info error	An error occurred during system information (registry, setup information) operations.
service start error	An error occurred during HiRDB service start processing.
service stop error	An error occurred during HiRDB service stop processing.
MSCS-info error	An error occurred during MSCS (Microsoft Cluster Server) information collection.
MSCS online error	An error occurred while an MSCS resource was online.
MSCS offline error	An error occurred while an MSCS resource was offline.

S: Continues processing.

#### Action

Take action according to the reason code.

permission error:

Request that the HiRDB administrator execute the pdprg Renew command.

renew directory not exist:

Execute the pdprg Copy command, and then re-execute the pdprg Renew command.

renew\_bak directory exist:

Either delete the renew\_bak directory in the HiRDB directory or change the name of the directory, and then re-execute the pdprg Renew command.

rename error:

This error occurs if the `renew` directory under the HiRDB directory containing the updated HiRDB that was copied with the `pdprgcopy` command is not in the same file system as the HiRDB directory (`bin`, `lib`, etc.) that is currently running under the HiRDB directory. Update so that the required directories exist in the same file system, and then re-execute the `pdprgrenew` command.

If the directory is on the same file system, the OS's `rename()` system call failed. OS messages might be output to the event log (in UNIX, `syslogfile`). Eliminate the cause of the error, use the `pdprgrenew -b` command to return HiRDB to its previous state before being updated, and then re-execute the `pdprgrenew` command.

transactions exist:

Check that there are no long-term transactions running, wait for the currently running transactions to terminate, and then re-execute the `pdprgrenew` command.

offline units exist or offline servers exist:

Activate all HiRDB units and servers, and then re-execute the `pdprgrenew` command.

utility be executing:

After the HiRDB utility terminates, re-execute the `pdprgrenew` command.

replicator mode unmatched:

Reconcile the specification of the `pd_rpl_init_start` operand with that of the operating status, then re-execute the `pdprgrenew` command.

`pdprgrenew -b` be unnecessary:

Execute the `pdprgrenew -b` command only after the KFPS04646-I message outputs a return code of 12 and the `pdprgrenew` command has terminated.

`sys_info` error:

Determine whether `regedit.exe` or another program is accessing the registry, or whether the HiRDB installation environment file (`Setup.ini`) is open, and take the action indicated under failure operations (update to HiRDB update version) in the manual *HiRDB Version 8 Installation and Design Guide*.

service start error:

Check the event log (in UNIX, `syslogfile`) to determine the reason that the service did not start, and eliminate the cause of the error. If the service is in start processing, wait for the service to start or stop, and then take the action



indicated under failure operations (update to HiRDB update version) in the manual *HiRDB Version 8 Installation and Design Guide*.

service stop error:

Check the event log (in UNIX, syslogfile) to determine the reason that the service did not stop, and eliminate the cause of the error. If the service is in stop processing, wait for the service to start or stop, and then take the action indicated under failure operations (update to HiRDB update version) in the manual *HiRDB Version 8 Installation and Design Guide*.

MSCS-info error:

Check the event log (in UNIX, syslogfile), eliminate the cause of the error, and then take the action indicated under failure operations (update to HiRDB update version) in the manual *HiRDB Version 8 Installation and Design Guide*.

MSCS online error:

Check the event log (in UNIX, syslogfile) to determine the reason that the MSCS resource did not go online, eliminate the cause of the error, and then take the action indicated under failure operations (update to HiRDB update version) in the manual *HiRDB Version 8 Installation and Design Guide*.

MSCS offline error:

Check the event log (in UNIX, syslogfile) to determine the reason that the MSCS resource did not go offline, eliminate the cause of the error, and then take the action indicated under failure operations (update to HiRDB update version) in the manual *HiRDB Version 8 Installation and Design Guide*.

**KFPS04649-E E+L**

Error occurred in pdprgcopy command, unit ID=*aaaa*, reason code=*bb...bb*

An error occurred during execution of the pdprgcopy command.

*aaaa*: Unit identifier

If an error occurred before the unit identifier was obtained, *\*\*\*\** is displayed.

*bb...bb*: Reason code

permission error:

The user executing the command is not the HiRDB administrator.

invalid version:

HiRDB could not be updated because the version number and the revision number do not match.

invalid addressing mode:

The addressing modes between the running HiRDB and the update replacement version HiRDB do not match.

invalid version different between units:

The HiRDB version differs between units.

no space disk:

The required disk space is not available.

renew directory exist:

The renew directory already exists under the HiRDB directory.

invalid HiRDB server type:

The HiRDB server type (HiRDB/Single Server or HiRDB/Parallel Server) of the HiRDB currently running and the update replacement version HiRDB do not match.

install directory:

- For UNIX, the directory specified as the argument of the `pdprgcopy` command is the HiRDB installation directory.
- For Windows, the directory specified as an argument of the `pdprgcopy` command is the directory installed by Program Maintenance Setup.

copy error:

An error occurred while copying a file.

delete error:

An attempt to delete the `renew` directory under the HiRDB directory failed because an error occurred during execution of the `pdprgcopy` command.

sys\_info error:

An error occurred during system information (registry, setup information) operations.

**S:** Terminates processing.

**Action**

Take action according to the reason code.

permission error:

Request that the HiRDB administrator execute the `pdprgcopy` command.

invalid version:

The HiRDB system currently running cannot be replaced by the replacement update version HiRDB if the version numbers and revision numbers do not match. Install an update version HiRDB with the same version number and revision number, and then re-execute the `pdprgcopy` command.

invalid addressing mode:

The HiRDB system currently running can only be replaced by the replacement update version if both are in the same addressing mode. Install the update version HiRDB in the same addressing mode as the HiRDB system currently running, and then re-execute the `pdprgcopy` command.

invalid version different between units:

Install the same version of the replacement update HiRDB system for all units.

no space disk:

In the HiRDB directory, secure the free disk space that is required for the update version HiRDB, and then re-execute the `pdprgcopy` command.

install directory:

- For UNIX, if the HiRDB directory and the installation directory are the same directory, the current version of the HiRDB system cannot be replaced by the update version. If the HiRDB directory and the installation directory are different directories, specify the HiRDB directory in an argument of the `pdprgcopy` command, and then re-execute.
- For Windows, specify the installation directory of the update version HiRDB, then re-execute the command.

renew directory exist:

Either change the name of the `renew` directory under the HiRDB directory or delete the `renew` directory, and then re-execute the `pdprgcopy` command.

invalid HiRDB server type:

The HiRDB system currently running can only be replaced by the replacement update version if both have the same HiRDB server type (HiRDB/Single Server or HiRDB/Parallel Server). Install the update version HiRDB system with the same server type as the HiRDB system currently running, and then re-execute the `pdprgcopy` command.

communication error occurred:

Check for the cause of the communication error, take appropriate action, and then re-execute the command.

## 2. Messages

copy error:

OS messages might be output to the event log (in UNIX, syslogfile). Check for the cause of the copy process failure, eliminate the cause, and then re-execute the `pdprgcopy` command.

delete error:

Refer to the error message output before this message, and eliminate the cause of the error. Then, delete the `renew` directory under the HiRDB directory and re-execute the `pdprgcopy` command.

sys\_info error:

Determine whether `regedit.exe` or another program is accessing the registry, or whether the HiRDB installation environment file (`Setup.ini`) is open, and take the action indicated under failure operations (update to HiRDB update version) in the manual *HiRDB Version 8 Installation and Design Guide*.

### **KFPS04650-I L**

Trouble shoot file and temporally file delete `aa....aa`. system ID=`bbbb`, unit ID=`cccc`

Deletion of the troubleshooting information file under `%PDDIR%\spool` and the temporary file under `%PDDIR%\tmp` has started or finished.

`aa....aa`: Processing content

started: Deletion processing has started

completed: Deletion processing has finished

`bbbb`: HiRDB identifier

`cccc`: Unit identifier

S: Continues processing.

### **KFPS04651-W E+L**

Message log server restarted

This message indicates that the message log server was restarted. From the time the message log server terminates abnormally to the time its restart is complete, HiRDB messages are not output to the message log file (`%PDDIR%\spool\pdlog1` or `pdlog2`). Messages are output to the event log (in UNIX, syslogfile) of the server unit that is the source of the messages. However, in some cases messages might not be output to the event log (in UNIX, syslogfile). For currently active UAPs, commands, and utilities, this does not present a problem.

S: Continues processing.

**KFPS04652-E E+L**

`Pdstop` command failed, reason=*aa....aa*

The `pdstop` command could not be executed because another operation command was currently running.

*aa....aa*: Reasons for the command not executing:

- RPL\_STARTING: Linkage with HiRDB Datareplicator is currently starting up.
- RPL\_STOPPING: Linkage with HiRDB Datareplicator is currently terminating.

S: Terminates processing.

Action

Wait for other operation commands to terminate, and then re-execute the `pdstop` command.

**KFPS04653-E L+S**

Unable to stop unit *aaaa* with alternate servers, reason=*bb....bb*

The alternate BES unit or an alternate facility could not be stopped because of the status of the alternate facility in the standby less system switchover facility.

*aaaa*: Unit identifier of the unit that could not be stopped.

If the `pdstop -z -c` command was executed, *\*\*\*\** might be displayed.

*bb....bb*: Reason code

S: Terminates processing.

Action

Take action according to the reason code listed in the following table.

Reason code	Description	Action
STARTING	An alternate facility is currently being prepared.	Re-execute the stop command.
SBY_STARTING	An alternate facility is currently being prepared as a standby server.	Re-execute the stop command after the KFPS01872-I message is output.
SBY_TERM	An alternate standby system is currently being stopped.	Re-execute the stop command.

2. Messages

Reason code	Description	Action
SBY_RELEASE	Execution of an alternate facility using system switchover is currently being prepared.	Re-execute the stop command after the KFPS05110-I message is output.
ACT_STARTING	An alternate facility is currently being prepared as a running server.	
STOPPING	An alternate facility is currently being stopped.	Re-execute the stop command after the KFPS01841-I message is output.
ONLINE	Alternate processing is currently in progress.	Operation cannot be stopped quickly when alternate processing is in progress. When executing the system reconfiguration command or replacing the current HiRDB with an update version, return the system to normal status, and then execute.
OFFLINE	Already corrected.	The alternate BES unit is already stopped.
NONALTSVUNIT	The unit is not an alternate BES unit.	Execute the command using the alternate BES unit.

**KFPS04654-W L**

Unable to continue alternate service for unit *aaaa* because of dying alternate server unit *bbbb*

The currently running alternate facility stopped because the alternate BES unit terminated.

*aaaa*: Unit identifier of a normal BES unit

*bbbb*: Unit identifier of an alternate BES unit

S: Terminates processing.

Action

When the alternate BES unit has taken over the server functioning of the normal BES unit, system switchover occurs once the normal BES unit completes standby. If system switchover does not occur, execute the `pdstart -q` command on the normal BES unit.

**KFPS04655-E L**

Unable to continue HiRDB server *aa....aa* processing because serious error occurred

Processing cannot continue in server *aa....aa* due to an error.

*aa....aa*: Server name

S: Terminates processing.

**Action**

Check the error message output before this message, and eliminate the cause of the error. If necessary, restart the server.

**KFPS04660-I L**

`pdchgconf` started

The system reconfiguration command (`pdchgconf`) has started.

S: Continues processing.

**KFPS04661-I L**

`pdchgconf` terminated. return code=*aa*

The system reconfiguration command (`pdchgconf`) has terminated.

*aa*: Return code

0: System reconfiguration processing terminated normally.

8: System reconfiguration processing terminated in an error.

S: Terminates processing.

**Action**

If the return code is 8, see the error message output to standard error or the message log to eliminate the cause of the error. Then, re-execute the command.

**KFPS04662-E L**

Unable to execute `pdchgconf`, because *aa....aa*

The system reconfiguration command (`pdchgconf`) could not be executed.

*aa....aa*: Reason code

S: Terminates processing.

**Action**

Take action according to the reason code listed in the following table.

<b>Reason code</b>	<b>Action</b>
<code>transactions exist</code>	A transaction or utility has been running for 15 minutes. Check if any transactions or utilities require long operation time, and then re-execute the command.
<code>offline units exist</code>	Some inactive units were found. Start all units, and then re-execute the command.
<code>offline servers exist</code>	Some inactive servers were found. Start all servers, and then re-execute the command.

## 2. Messages

Reason code	Action
change of configuration invalid (pd_system_id)	The <code>pd_system_id</code> operand could not be changed. Return the specified value of this operand to the original value, and then re-execute the command.
change of configuration invalid (pd_master_file_name)	The <code>pd_master_file_name</code> operand could not be changed. Return the specified value of this operand to the original value, and then re-execute the command.
communication error occurred	A communication error occurred. Check for the cause of the communication error, take appropriate action, and then re-execute the command.
pdrplstop executing	The <code>pdrplstop</code> command is currently running. After the <code>pdrplstop</code> command terminates, re-execute the command.
only for pdrstr and pdcopy mode	Use the <code>pdstart -r</code> command to start the HiRDB system. Re-execute the command after normal starting or resuming.
Online DB Reorganization executing	Updatable online reorganization is running. Terminate updatable online reorganization, and then re-execute the command.
replication mode unmatched	The operating status of linkage with HiRDB Datareplicator does not match the definition. Make the operating status linkage with HiRDB Datareplicator match the definition, and then re-execute the command.
change of configuration invalid (unit status file:bbb,cc....cc)	The definition of a status file for a unit that cannot be changed was changed. <i>bbb</i> is the unit identifier and <i>cc....cc</i> is the name of the status file where the error occurred. Return the specified value for this operand to its original value, and then re-execute the command.
change of configuration invalid (server status file:dd....dd,ee....ee)	The definition of a status file for a server that cannot be changed was changed. <i>dd....dd</i> is the server name and <i>ee....ee</i> is the name of the status file where the error occurred. Return the specified value for this operand to its original value, and then re-execute the command.
change of configuration invalid (log file:ff....ff,gg....gg)	The definition of a system log file that cannot be changed was changed. <i>ff....ff</i> is the server name and <i>gg....gg</i> is the file group name of the system log file where the error occurred. Return the specified value for this operand to its original value, and then re-execute the command.
change of configuration invalid (sync point dump file:hh....hh,ii....ii)	The definition of a synchronization point dump file that cannot be changed was changed. <i>hh....hh</i> is the server name and <i>ii....ii</i> is the file group name of the synchronization point dump file where the error occurred. Return the specified value for this operand to its original value, and then re-execute the command.



Reason code	Action
configuration change failed	<p>An attempt to change the HiRDB system definition failed.</p> <p>Action:</p> <ol style="list-style-type: none"> <li>1. Fix the cause of the error. If the disk space under the HiRDB directory is full, secure disk space. If you do not have write privileges to a system shared definition file, request that the HiRDB administrator grant write privilege to this file. If a communication error occurred, eliminate the cause.</li> <li>2. Check the status of the HiRDB system definition for all units. If the status is not the pre-modification status, recover the HiRDB system definition from %PDDIR%\conf\backconf.</li> <li>3. Because HiRDB is inactive, start HiRDB, and then re-execute the command.</li> </ol>
disk change failed	<p>The disk was disconnected or connection failed.</p> <p>Action:</p> <ol style="list-style-type: none"> <li>1. Disconnect the disk and check the content of the connection shell. If you do not have shell execution privileges, request execution privileges from the HiRDB administrator.</li> <li>2. Check the status of the HiRDB system definition for all units. If the status is not the pre-modification status, recover the HiRDB system definition from %PDDIR%\conf\backconf.</li> <li>3. Check the disk connection status.</li> <li>4. If the HiRDB system is inactive, start HiRDB, and then re-execute the command.</li> </ol>
change of configuration directory invalid	<p>The directory is invalid. Check the %PDDIR%\conf\chgconf directory for each unit of the HiRDB system, and then re-execute the command.</p>
change of configuration directory not exist	<p>The directory does not exist. Check the %PDDIR%\conf\chgconf directory for each unit of the HiRDB system, and then re-execute the command.</p>
HiRDB Advanced High Availability not setup	<p>HiRDB Advanced High Availability is not set up. When using the system reconfiguration command, set up HiRDB Advanced High Availability.</p>
unable to skip offline unit	<p>Because the value of the pd_mode_conf operand is AUTO, recovery-unnecessary FES units that have stopped are ignored, and the command cannot be executed. Start the stopped units, and re-execute the command.</p>
change of configuration invalid (pdstart -k stls)	<p>For recovery-unnecessary FES units that have stopped, specification of the pdstart operand with the -k stls option cannot be changed. Restart the stopped units, and re-execute the command.</p>

**KFPS04663-W L**

Now waiting for termination of transaction or utility

The system manager is currently awaiting termination of a transaction or utility.

S: Continues processing.

Action

When giving priority to execution of the `pdchgconf` command, check currently running transactions and utilities using the `pdls -d trn` or `pdls -d prc` command, and then cancel using the `pdcancel` command. When giving priority to executing transactions and utilities, no action is required.

**KFPS04664-I L**

Configuration change processing *aa...aa*. unit:*bbbb*

The system reconfiguration command (`pdchgconf`) was used to change the system definition.

*aa...aa*: Processing content

start: Changing of the system definition has started.

end: Changing of the system definition has finished.

recover: Undoing of the changes to the system definition has started.

*bbbb*: Unit identifier

S: Continues processing.

**KFPS04665-W E**

Changing definition file skipped in `pdchgconf`, unit ID=*aaaa*, reason code=*bb...bb*

The `pdchgconf` command did not update the system definition file on unit *aaaa*.

*aaaa*: Unit identifier of the unit for which the system definition file was not updated

*bb...bb*: Reason that the system definition file was not updated

communication error occurred: A communication error occurred. An error may have occurred in the network, each machine, unit, or server.

S: Continues processing.

Action

Before restarting unit *aaaa*, replace the system definition files under `%PDDIR%\conf` and `%PDCONFPATH%` with the system definition file after the update.

communication error occurred is displayed in *bb...bb*: This is the reason for the communication error from the system manager unit to unit *aaaa*. Check that there was no network failure and that the remote shell execution privilege has been granted, and take action appropriate to the cause of the error.

**KFPS04666-I J**

System configuration changed

The system definition may have been changed. This message is output when Job

Management Partner/Integrated Manager is notified of an event.

S: Continues processing.

**KFPS04670-E E+L**

Error occurred while releasing HiRDB standby state

An abnormality was detected during standby release processing; or HiRDB normal startup processing was executed on a HiRDB in standby status. In this case, the standby system HiRDB cannot start normally.

Consider the following causes:

User server hot standby is applied, and Hitachi HA Toolkit Extension is used:

- Before the Hitachi HA Toolkit Extension service process was activated (using the `hateserve` command), HiRDB was started using the `pdstart` command. If HiRDB is started before the Hitachi HA Toolkit Extension service process is activated, HiRDB will start in standby status, and activation of the Hitachi HA Toolkit Extension service process performs standby release processing.
- After starting the standby system HiRDB, start the running system HiRDB normally. At this time, startup of the running system HiRDB will fail, and a system switchover will occur.

An attempt was made to stop the running system HiRDB:

After a normal termination or a planned termination was confirmed, a system switchover occurred due to CPU error or service slowdown.

S: Outputs an abort code (`Psadhf0`), and terminates the process.

Action:

User server hot standby is applied, and Hitachi HA Toolkit Extension is used:

- If the `pdstart` command was executed before activation of the Hitachi HA Toolkit Extension service process, execute `pdstart` after the Hitachi HA Toolkit Extension service process has been activated; or specify the HiRDB activation command in the Hitachi HA Toolkit Extension server definition statement `actcommand` operand. If the `pdstart` command is executed from a shell, make sure that the shell operates in the same way after the Hitachi HA Toolkit Extension service process has activated.
- After taking measures to correct the failed startup of the running system HiRDB, restart the running system HiRDB.

An attempt was made to stop the running system HiRDB:

- In UNIX

Take measures to correct the failed termination of the running system HiRDB.

When HiRDB is restarted, startup processing might be interrupted in the following circumstance: If the HA monitor is being used as the cluster software, and the HA monitor single system is in shutdown status, the HA monitor might not be able to determine whether a system is the running system or the standby system. In that case, it is necessary to execute the following HA monitor commands to make the system the running system:

Use the `monshow` command to confirm that the server status is `*SBY*` (waiting for the running server to start up).

Use the `monact` command to notify the HA monitor that this is the running server.

- In Windows

Take measures to correct the cause of the failed termination of the running system HiRDB.

#### **KFPS04680-E E+L**

Error occurred in `Real_Time_SAN_Replication`, reason code=`aa....aa`, command=`bb....bb`, group=`cc....cc`

An error occurred in a RAID Manager command.

`aa....aa`: Code

`bb....bb`: Name of the RAID Manager command that caused the error

`cc....cc`: Name of the pair logical volume group

S: Continues processing.

Action

Take action based on the following codes:

Code (aa....aa)	Explanation	HiRDB administrator action
SYSTEMCALL	RAID Manager command <code>bb....bb</code> call failed.	See the table <i>SYSTEMCALL actions</i> below, and take the action appropriate to the values of <code>errno</code> and <code>value</code> indicated in the KFPS01815-E message output immediately before this message.

Code (aa....aa)	Explanation	HiRDB administrator action
ERRORRETURN [ <i>dd....dd</i> ]	RAID Manager command <i>bb....bb</i> caused an error. The error code of the RAID Manager command is <i>dd....dd</i> . The pair logical volume group that corresponds to execution of the command is <i>cc....cc</i> .	See the RAID Manager manual, and take the action appropriate to the error code. Use the code displayed in <i>dd....dd</i> , and see the table <i>ERRORRETURN actions</i> below for typical codes.
GETRESULTFAILED	Result acquisition of RAID Manager command <i>bb....bb</i> failed.	There may be a shortage of free disk space in the HiRDB directory, or a memory error. Consider the free disk area and free memory area, and increase the amount of free area.
TIMEOUT	Pair logical volume group update wait processing has exceeded the maximum wait time.	Check the RAID Manager and HORC running status, check the reason that the subvolume reflection of the pair logical volume group displayed in <i>cc....cc</i> was delayed, and take appropriate action. For details on investigating the cause and appropriate actions, see the RAID Manager and HORC manuals.
BROKEN	In pair logical volume group update wait processing, the pair in the volume group was broken.	Check the reason that the pair in the pair volume group was broken, and take appropriate action. For details on investigating the cause and appropriate actions, see the RAID Manager manual.
CHANGED	In pair logical volume group update wait processing, the synchronization status of the volume group was temporarily released and was then resynchronized.	Check the reason that the pair in the pair volume group was broken, and take appropriate action. For details on investigating the cause and appropriate actions, see the RAID Manager manual.

## SYSTEMCALL actions

errno	Value	Explanation	Action
Ignored	0	The process was cancelled during command execution.	Determine the reason for the cancellation (excluding intended cancellation), and take appropriate action.
	126	There is no command execution privilege.	Request that the HiRDB administrator grant the RAID Manager administrator privilege.
	127	The command was not installed in the default path.	If the RAID Manager is not installed, install it. Confirm that the RAID Manager commands are located under <code>/usr/bin</code> , and if not, reinstall the RAID Manager.
11	Any	The total number of processes being executed by a single user exceeds the maximum for the system.	<p><b>UNIX version:</b>            Increase the value of the following operating system parameters (kernel parameters):</p> <ul style="list-style-type: none"> <li>• HP-UX: <code>maxuprc</code> or <code>nproc</code></li> <li>• Solaris: <code>maxuprc</code> or <code>max_nprocs</code></li> <li>• AIX 5L: <code>maxuproc</code> or the number of fixed licenses</li> <li>• Linux: <code>MAX_TASKS_PER_USER</code> or <code>NR_TASKS</code></li> </ul> <p>If these measures do not correct the problem, contact a customer engineer.</p> <p><b>Windows version:</b>            Contact a customer engineer.</p>
12	Any	Consider the following causes: <ul style="list-style-type: none"> <li>• Due to a swap area shortage, new processes cannot be generated</li> <li>• There are too many processes, or some processes are consuming a large amount of memory</li> </ul>	If there is a swap area shortage, extend the area. If the area cannot be extended, stop unneeded processes. If some of the processes are consuming a large amount of memory, consider whether the processes can be stopped temporarily.
13	Any	There is an error in the command access privilege.	Check the command access privilege.

## ERRORRETURN actions

Value of dd....dd	Explanation	Action
EX_COMERR	Communication with RAID Manager failed.	Check that the RAID Manager instance is running and that the specification of the <code>HORCMINST</code> operand is correct.

Value of dd....dd	Explanation	Action
EX_ATHOR	Unable to connect to the RAID Manager instance.	Take the following actions: <ul style="list-style-type: none"> <li>• Check that the RAID Manager instance is running.</li> <li>• Check that the specification of the HORCMINST operand is correct.</li> <li>• Check that the pair volume configuration definition is correct.</li> </ul>
EX_ENOENTEX_ENOGRP	The group specified by cc....cc does not exist.	Take the following actions: <ul style="list-style-type: none"> <li>• Check that the specification of the HORCMINST operand is correct.</li> <li>• Check that the pair volume configuration definition is correct.</li> </ul>
EX_INVVOL	The status of the group specified by cc....cc is invalid.	Check the attributes and status of each pair volume included in cc....cc, and ensure that the attributes and status of all pair volumes match. Also ensure that the attributes and status of all pair volumes are correct.

**KFPS04681-E E**

*aa....aa* invalid; stops unit startup. server ID=*bb...bb*, old value=*ccccc*, new value=*dddddd*

The unit cannot be restarted because the value specified in *aa....aa* operand has been changed. The value of *aa....aa* operand cannot be changed after an abnormal termination, forced termination, or planned termination.

*aa....aa*: Operand that does not match the specified value

- `pd_rise_use`
- `pd_rise_pairvolume_combination`
- `pd_rpl_reflect_mode`

*bb...bb*: Server name

If *aa....aa* operand is the system common definition or the unit control information definition, "\*\*\*\*\*" is displayed.

*ccccc*: Value of *aa....aa* operand before the change

*dddddd*: Value of *aa....aa* operand after the change

S: Terminates processing.

**Action**

Return the value of *aa....aa* operand to its value before the change (*ccccc*), and restart the unit.

## 2. Messages

### **KFPS04682-E E+L**

Unable to specify Real\_Time\_SAN\_Replication, because of using *aa....aa*

Some facilities cannot be used when Real Time SAN Replication with the log-only synchronous method is used.

*aa....aa*: Facility name

Staticizer Option: Inner replica facility

S: Terminates processing.

Action: If Real Time SAN Replication with the log-only synchronous method is used, revise the system definition so as not to use the facility indicated in the message.

If the facility indicated in the message is to be used together with Real Time SAN Replication with the log-only synchronous method, set the `pd_rise_pairvolume_combination` operand to other than `sysync`. If the facility is to be used without Real Time SAN Replication, set the `pd_rise_use` operand to `N`.

After revising the system definition, restart HiRDB.

### **KFPS04683-I L**

HiRDB unit *aaaa* start on standby site

A log application site unit was started.

*aaaa*: Unit identifier

S: Continues processing.

### **KFPS04684-E E**

Unable to execute *aa....aa*, because *bb...bb*

Due to reason *bb...bb*, the *aa....aa* command could not be executed.

*aa....aa*: Command name (including options)

*bb...bb*: Reason code

S: Terminates processing.

Action: Refer to the reason code, and determine whether the executed command and its options are appropriate. Also, if necessary, take the following actions. Refer to the section on operations when an error has occurred in the manual *HiRDB Version 8 Disaster Recovery System Configuration and Operation Guide*.



Reason code ( <i>bb...bb</i> )	Explanation	HiRDB administrator action
HiRDB Disaster Recovery Light Edition not set up	HiRDB Disaster Recovery Light Edition is not set up.	If Real Time SAN Replication with the log-only synchronous method is used, also use HiRDB Disaster Recovery Light Edition.
Real_Time_SAN_Replication mode is not system_log synchronized	Some operands required for Real Time SAN Replication with the log-only synchronous method might not have been specified.	If Real Time SAN Replication with the log-only synchronous method is used, specify <i>y</i> in the system common definition <i>pd_rise_use</i> operand, and specify <i>syssync</i> in the <i>pd_rise_pairvolume_combination</i> operand.
necessary to execute <i>pdrireset</i>	The site was not set up using the <i>pdrireset</i> command.	Execute the <i>pdrireset</i> command, and set up the transaction execution site or the log application site.
this system is Real_Time_SAN_Replication primary site	The command cannot be executed on a transaction execution site.	If it is possible to switch to a log application site, execute the <i>pdrireset -S</i> command.
this system is Real_Time_SAN_Replication standby site	The command cannot be executed on a log application site.	Execute commands that can be executed on a log application site. To start HiRDB on a log application site, use the <i>pdstart -l</i> command. To stop HiRDB on a log application site, use the <i>pdstop -l</i> command or the <i>pdstop -f</i> command. If it is possible to switch to a transaction execution site, execute the <i>pdrireset -P</i> command.
this system is not Real_Time_SAN_Replication standby site	The command can only be executed on a log application site.	Ensure that the commands and options to be executed can be executed on a site other than a log application site.

## 2. Messages

Reason code ( <i>bb...bb</i> )	Explanation	HiRDB administrator action
unit being started	The command cannot be executed because a unit is in startup processing.	The unit that was the cause of the error and its status are displayed in a KFPS05223-I message. Use <code>pdls -d svr</code> to check the unit's status, and, if necessary, restart the stopped unit.
unit being terminated	The command cannot be executed because a unit is in shutdown processing.	
unit terminated abnormally	The command cannot be executed because a unit terminated abnormally or was terminated using the <code>pdstop -f</code> command.	
execution in process	The command cannot be executed because the <code>pdvisedbto</code> command is executing.	If multiple <code>pdvisedbto</code> commands were executed, wait for any executing <code>pdvisedbto</code> command to terminate. The site inheritance status can be checked using the <code>pdls -d ris</code> command.

### KFPS04685-E E

Status subfiles only initialized, *aa....aa*

All status subfiles are in initial status.

Consider the following causes:

(1) In the preparation for log application, the log application site's status subfiles were not created according to the correct procedure.

(2) The log application site's current status subfiles were deleted.

*aa....aa*:

`unit=bbbb`

Unit status file for unit *bbbb*

`unit=bbbb, server=cc....cc`

Server status file for server *cc....cc* on unit *bbbb*

*bbbb*: Unit identifier

*cc....cc*: Server name

S: Continues processing.

Action:

- (1) Ensure that there was no error in the procedure for preparation for log application, and then re-execute preparation for log application.
- (2) Execute preparation for log application in order to start the log application site HiRDB.

**KFPS04686-I L**

HiRDB unit *aaaa* database take over terminated

Unit *aaaa* was terminated, and database inheritance from the transaction execution site terminated.

*aaaa*: Unit identifier

S: Terminates processing.

**KFPS04687-I L+S**

Real\_Time\_SAN\_Replication information : status=*aa....aa*

The site status of Real Time SAN Replication with the log-only synchronous method is displayed.

*aa....aa*: Site status

primary: Execution

standby: Log application

ready: Ready

initial: Initial

If the site status cannot be determined, **\*\*\*\*** is displayed.

S: Continues processing.

Action:

- Site status other than **\*\*\*\***

There is no problem.

- Site status is **\*\*\*\***

Take one of the following actions:

- If using a system switchover configuration, check the system where the command was executed, and execute the `pdrireset` command from the primary system.
- If this message was output when the `pdrireset` command was executed on the primary system, review the value of the unit control information

definition `pd_hostname` operand.

- If the `pd_hostname` operand contains a specification other than the standard host name of the primary system, specify the standard host name of the primary system.
- If this message was output when using a configuration other than a system switchover configuration, contact a customer engineer.

**KFPS04688-I L+S**

Site status set to *aa...aa* from *bb...bb*

The site status was reset.

*aa...aa*: Site status that was reset

primary: Execution

standby: Log application

initial: Initial

*bb...bb*: Site status before resetting

ready: Ready

primary: Execution

standby: Log application

initial: Initial

S: Continues processing.

**KFPS04689-W E+L**

*aa...aa* ignored, reason=*bb...bb*

Due to reason code *bb...bb*, specification of the facility indicated by *aa...aa* was ignored.

*aa...aa*: Facility name

Non\_Recover\_FES: Recovery-unnecessary front-end server

System switchover facility: System switchover facility

Security Audit: Security audit facility

Statistical information: Statistical information

HiRDB Datareplicator: HiRDB Datareplicator linkage facility

*bb...bb*: Reason code

standby site: Operates as a log application site

S: Continues processing.

Action: If Real Time SAN Replication with the log-only synchronous method is being used on a log application site, the facility indicated in *aa....aa* becomes invalid. For details, see the manual *HiRDB Version 8 Disaster Recovery System Configuration and Operation Guide*.

**KFPS04690-Q S**

The state of site changed to *aa....aa*. (y/n)

This is a message inquiring whether to change the site status to *aa....aa*.

*aa....aa*:

primary: Execution

standby: Log application

initial: Initial

S: Continues processing.

Action: To change the site status, enter y or Y; to leave the site status unchanged, enter n or N. If any other letter is entered, or if only the return key is entered, n is assumed.

**KFPS04691-I L+S**

Pdrisedbto terminated, return code=*a*

Database inheritance terminated.

*a*: Return code

0: Terminated normally.

4: Database inheritance has terminated for some of the servers.

8: Terminated in an error.

S: Terminates processing.

Action: If the return code is 8, refer to the message output before this message, and take action.

If the return code is 4, take one of the following actions:

- To perform database inheritance for all servers

Refer to the message output before this message, eliminate the cause of the error from the server for which inheritance failed, use the `pdstart -l` command to start HiRDB, and then re-execute the `pdrisedbto` command.

- To invalidate database inheritance for some of the servers, and to perform site switchover

Refer to the section on site switchover in the manual *HiRDB Version 8 Disaster Recovery System Configuration and Operation Guide*, and continue with site switchover.

**KFPS04692-W S**

pdriasechk command executed with standby system

Because the pdriasechk command was executed on a standby system in a system switchover configuration, the site status could not be determined correctly.

S: Continues processing.

Action:

If this message was output when the pdriasechk command was executed on the primary system, revise the value specified for the unit control information definition pd\_hostname operand. If other than the standard host name of the primary system is specified in the pd\_hostname operand, specify the standard host name of the primary system.

If the pdriasechk command was executed on the standby system, there is no problem. Check the results of the pdriasechk command execution.

**KFPS05001-I E+L+S**

```
Usage: pdls [-d {prc [-a] [-c]|svr [-a [-b]]|scd|trn [-t TRNGID]
[-{a|c}]|lck [-a]|mem|sts [-s server_name] [-n
logical_file_name|-f physical_file_name|-a|-l|-p]|ha|act|rpl
[-j] [-u unit_id] [-s server_name]|rpc [-a]|stj|org [-s
server_name] [-a]|aud [-U user_id]|ust|ris [-s server_name]
[-a]}|-a [-b]]
```

The specification format of a pdls command option is invalid.

S: Terminates processing.

O: Reenter the specified command correctly for a HiRDB/Single Server.

**KFPS05001-I E+L+S**

```
Usage: pdls [-x host_name[,host_name]...|-u
unit_id[,unit_id]...] [-d {prc [-{a|s server_name}] [-c]|svr [-a
[-b]]|scd [-s server_name]|trn [-t TRNGID] [-{a|c}] [-s
server_name]|lck [-a] [-s server_name]|mem|sts [-s server_name]
[-n logical_file_name|-f physical_file_name|-a|-l|-p]|ha [-u
unit_id|-s server_name] [-a]|act [-s server_name]|rpl [-j] [-s
server_name]|rpc [-a]|stj [-s server_name]|org [-s server_name]
[-a]|aud [-U user_id]|ust|ris [-s server_name] [-a]}|-a [-b]]
```

The specification format of a pdls option is invalid.

S: Terminates processing.

O: Reenter the command specified correctly for a HiRDB/Parallel Server.

**KFPS05002-I S**

```
Usage: pdinit -d statement_control_file_name [-u
authorization_identifier [-p password]]
```

The specification format of a `pdinit` option is invalid.

S: Terminates processing.

Action

Reenter correctly the specified utility.

**KFPS05003-I S**

Usage: `pdmod -a statement_control_file_name`

The specification format of a `pdmod` option is invalid.

S: Terminates processing.

Action

Reenter correctly the specified utility.

**KFPS05005-I L+S**

Usage: `pdstart [{-i|-r|-l|dbdestroy}]`

The specification format of a `pdstart` command option is invalid.

S: Terminates processing.

Action

Reenter the specified command correctly for a HiRDB/Single Server.

**KFPS05005-I L+S**

Usage: `pdstart [{-i|-r|-l|dbdestroy}] | [-x host_name|-u unit_id] [-r|-l|dbdestroy] | [[-x host_name|-u unit_id] -s server_name] | [-a [-s FES_name]] | [-q [-r|-l]] | [-q -c]`

The specification format of a `pdstart` command option is invalid.

S: Terminates processing.

Action

Reenter the specified command correctly for a HiRDB/Parallel Server.

**KFPS05006-I S**

Usage: `pdstop [-P [-d] | -f [-d|-q] | [-d] | -l [-d]]`

The specification format of the `pdstop` command option is invalid.

S: Terminates processing.

Action

Reenter the specified command correctly for a HiRDB/Single Server.

**KFPS05006-I S**

Usage: pdstop [{ [-x host\_name|-u unit\_id] [-s server\_name] [-d] | -P [-d] | -f [-x host\_name|-u unit\_id] [-s server\_name] [-d] | -z [-d] | -q | -c | -s server\_name] | -l [-d] }

The specification format of a pdstop command option is invalid.

S: Terminates processing.

Action

Reenter the specified command correctly for a HiRDB/Parallel Server.

**KFPS05007-I S**

System definition check ended. return code = *a*

The pdaculck command terminated with return code *a*.

*a*: Return code:

0: Normal termination

8: Error termination (an argument was invalid or an error was output in the execution results of the pdconfchk command)

S: Terminates processing.

Action

If the return code is not 0, check the execution results of the pdconfchk command and correct the error.

**KFPS05008-I S**

Usage: pdcancel {-U | -u uap\_name [-i process\_id] | -i process\_id -d}

The specification format of a pdcancel command option is invalid.

S: Terminates processing.

Action

Reenter the specified command correctly for a HiRDB/Single Server.

**KFPS05008-I S**

Usage: pdcancel {-x host\_name| -X unit\_id} {-U| -u uap\_name [-i process\_id] | -i process\_id -d}

The specification format of a pdcancel command option is invalid.

S: Terminates processing.

Action

Reenter the specified command correctly for a HiRDB/Parallel Server.



**KFPS05009-I S**

```
Usage: pdcats { [-a | -b | -ab] [-c
importance_code[,importance_code]...] [-y yyyyymmdd] [-t
hhmmss] [-T hhmmss] [-n record_number] [file_name] | -d sts { [-x
host_name|-u unit_id] |-s server_name} -f full_path_name [-v]
[-e] }
```

The specification format of a `pdcats` command option is invalid.

S: Terminates processing.

O: Reenter the specified command correctly for a HiRDB/Single Server.

**KFPS05009-I S**

```
Usage: pdcats { [-x host_name|-u unit_id] [-a | -b | -ab ] [-c
importance_code[,importance_code]...] [-y yyyyymmdd] [-t
hhmmss] [-T hhmmss] [-n record_number] [file_name] | -d sts { -x
host_name|-u unit_id|-s server_name} -f full_path_name [-v] [-e]
}
```

The specification format of a `pdcats` command option is invalid.

S: Terminates processing.

O: Reenter the specified command correctly for a HiRDB/Parallel Server.

**KFPS05011-I S**

```
Usage: pddump [-f rpc_trace_file_name]
```

The specification format of a `pddump` command option is invalid.

S: Terminates processing.

O: Reenter the specified command correctly for a HiRDB/Single Server.

**KFPS05011-I S**

```
Usage: pddump { -x host_name | -u unit_id } [-f
rpc_trace_file_name]
```

The specification format of a `pddump` command option is invalid.

S: Terminates processing.

O: Reenter the specified command correctly for a HiRDB/Parallel Server.

**KFPS05012-I E+L+S**

```
Usage: pdconfchk [-d directory_name] [-n] [-l]
```

The specification format of a `pdconfchk` command option is invalid.

S: Terminates processing.

Action

Reenter the specified command correctly.

**KFPS05015-I E**

Usage: pdstjswap [-x host\_name| -u unit\_id]

The specification format of a pdstjswap command option is invalid.

S: Terminates processing.

P: Reenter the specified command correctly for a HiRDB/Single Server.

**KFPS05015-I E**

Usage: pdstjswap {-x host\_name| -u unit\_id}

The specification format of a pdstjswap command option is invalid.

S: Terminates processing.

P: Reenter the specified command correctly for a HiRDB/Parallel Server.

**KFPS05016-I S**

Usage: pdstbegin [-k statistics\_type [, statistics\_type]....]  
[-m time\_interval] [-a |-s server\_name [, server\_name]....]}

The specification format of a pdstbegin command option is invalid.

S: Terminates processing.

Action

Reenter the specified command correctly for a HiRDB/Single Server.

**KFPS05016-I S**

Usage: pdststart [-k statistics\_type [,statistics\_type]....]  
[-m time\_interval] [-x host\_name |-u unit\_id] [-a |-s  
server\_name [, server\_name]....]}

The specification format of a pdststart command option is invalid.

S: Terminates processing.

Action

Reenter the specified command correctly for a HiRDB/Parallel Server.

**KFPS05017-I S**

Usage: pdstend [-k statistics\_type[, statistics\_type]....] [-a|  
-s server\_name[, server\_name]....]

The specification format of the pdstend command option is invalid.

S: Terminates processing.

Action

Reenter the specified command correctly for a HiRDB/Single Server.

**KFPS05017-I S**

Usage: pdstend [-k statistics\_type[, statistics\_type]....] [-x host\_name|-u unit\_id] [-a|-s server\_name[, server\_name]....]

The specification format of the pdstend command option is invalid.

S: Terminates processing.

Action

Reenter the specified command correctly for a HiRDB/Parallel Server.

**KFPS05018-I S**

Usage: pdchgconf

The specification format of the pdchgconf command option is invalid.

S: Terminates processing.

Action

Re-execute according to the command usage.

**KFPS05019-I S**

Usage: pdopen {-r RDAREA[,RDAREA....]|-r ALL} [-q generation\_number]

The specification format of the pdopen command option is invalid.

S: Terminates processing.

Action

Reenter correctly the specified command.

**KFPS05020-I S**

Usage: pdclose {-r RDAREA[,RDAREA....]|-r ALL} [-q generation\_number]

The specification format of a pdclose command option is invalid.

S: Terminates processing.

Action

Reenter correctly the specified command.

**KFPS05021-I S**

Usage: pdhold {-r RDAREA[,RDAREA....]|-r ALL} [-q generation\_number] {[-c]|[-i]|[-b [-w] [-u] | [-s]]}

The specification format of a pdhold command option is invalid.

S: Terminates processing.

Action

Reenter correctly the specified command.

**KFPS05022-I S**

Usage: pdrcls {-r RDAREA[,RDAREA...]|-r ALL} [-q generation\_number] [-o]

The specification format of the pdrcls command option is invalid.

S: Terminates processing.

Action

Reenter correctly the specified command.

**KFPS05023-I S**

Usage: pddbcls { { { -r RDAREA[,RDAREA...]| -r ALL | -s server\_name[,server\_name...] } [ -{ l | a } ] [ -{ b | o } ] [ -m ] } | { { -q generation\_number | -C } [ - { l | a } ] [ -m ] } }

The specification format of a pddbcls command option is invalid.

S: Terminates processing.

Action

Reenter correctly the specified command.

**KFPS05024-I S+L**

Usage: pdrplstart

The specification format of the pdrplstart command is invalid.

S: Terminates processing.

Action

Reenter correctly the specified command.

**KFPS05025-I S+L**

Usage: pdrplstop

The specification format of the pdrplstop command is invalid.

S: Terminates processing.

Action

Reenter correctly the specified command.

**KFPS05026-I E**

Usage: pdndls [-w HiRDB\_ID] [-x host\_name]

The specification format of the pdndls command is invalid.

S: Terminates processing.

O: Reenter correctly the specified command.

**KFPS05028-I S**

Usage: pdchprc [-p resident\_process\_count [,max\_process\_count]]

The specification format of the pdchprc command is invalid.

S: Terminates processing.

P: Reenter the specified command correctly for a HiRDB/Single Server.

**KFPS05028-I S**

Usage: pdchprc {-a |-s server\_name} [-p resident\_process\_count [,max\_process\_count]]

The specification format of the pdchprc command is invalid.

S: Terminates processing.

P: Reenter the specified command correctly for a HiRDB/Parallel Server.

**KFPS05029-I S**

Usage: dcspool [-i] [-d day\_count] [-k { all|dump } ]

An option is specified in an invalid format in the pdspool command.

S: Terminates processing.

O: Re-execute the command according to the command usage method.

**KFPS05030-I S**

Remove following files

Deletes the following files.

S: Continues processing. Following this message, HiRDB outputs a list of path names of the files to be deleted, minus the path %PDIR%\spool.

**KFPS05031-E E**

An error occurred due to *aa....aa*

A command's internal function resulted in an error.

*aa....aa*: Cause of the error

S: Terminates processing.

Action

Contact a customer engineer.

**KFPS05032-E E**

RPC error, return code=*aa....aa*

An RPC communication error occurred.

*aa....aa*: RPC error code

S: Terminates processing.

Action

See *4.1 Detail codes for RPC-related errors* to eliminate the cause of the error, and re-execute the command. If the same error recurs, contact a customer engineer.

**KFPS05033-E E+L**

Internal function error, func=*aa...aa*, return code=*bb...bb*

Command's internal processing resulted in an error.

*aa...aa*: Name of the function resulting in the error

*bb...bb*: Detail code for the system-related error

S: Terminates processing.

Action

See *4.2 Detail codes for system-related errors* to eliminate the cause of the error. If the error cannot be corrected by the user, contact a customer engineer.

**KFPS05034-E E**

System call error, func=*aa...aa*, return code=*bb...bb*, errno=*cc...cc*

A system function error occurred. This message displays the function name resulting in the error, the function's return code, and errno.

*aa...aa*: Function name

*bb...bb*: Return code

*cc...cc*: errno value

S: Terminates processing.

O: Check the error indicator value, refer to `errno.h` and to the applicable OS manual to eliminate the cause of the error, then re-execute.

Action

Eliminate the cause of the error and execute the command.

**KFPS05035-E E**

Unable to start command; insufficient memory on PROCESS

A shortage occurred in the process private area.

S: Terminates processing.

Action

Check *System call* = `malloc` and *Mnemonic* = `ENOMEM` in *4.3 System call return codes* to investigate the cause of the error, and take appropriate action.

**KFPS05036-E E**

*aa....aa* receive data incorrect

RPC reception result is invalid for command *aa....aa*.

*aa....aa*: Command name

S: Terminates processing.

Action

There may be a communication error or a memory shortage. If an error message was output before this message, take action as indicated in that message. If this message is output again, even with these actions, contact a customer engineer.

**KFPS05037-E E**

Enter command in manager node

A command was entered to a host that is not the system manager.

S: Terminates processing.

O: Enter the command on the server machine where the system manager is located.

**KFPS05038-E E**

Remote procedure call error occurred

A communication error occurred.

S: Terminates processing.

Action

If an error message was output before this message, take action as indicated in that message. If no message was output, contact a customer engineer.

**KFPS05039-E E**

Unable to access shared memory

Shared memory cannot be accessed.

S: Terminates processing.

Action

HiRDB shared memory may have been deleted. If HiRDB shared memory was deleted, contact a customer engineer.

Otherwise, eliminate the cause of the error according to the detail message already output. If no detail message was output, contact a customer engineer.

If you are using the Windows version of HiRDB/Parallel Server, this message may be output immediately after a value is entered with the `pdstart` command. In this case, a system definition may be invalid, so re-evaluate the system definitions based on the messages output to the event log.

**KFPS05040-E E+L**

Unable to start command due to HiRDB status off line

A command was entered while HiRDB was inactive.

S: Terminates processing.

Action

Activate HiRDB before executing the command.

**KFPS05041-E E**

Incorrect server name specified

The server name specified in a command option is invalid. The name of a server that was not defined as a HiRDB server was specified, or the name of a server that was not the target of the command was specified.

S: Terminates processing.

Action

Check the server name, and re-execute the command.

**KFPS05042-E E**

Incorrect hostname or unit id specified

The host name specified in a command parameter has not been defined as a HiRDB host name.

S: Terminates processing.

Action

Specify a host name that has been defined as a HiRDB host name and execute the command.

**KFPS05043-E E**

Unable to execute *aa...aa* command from *bb...bb* to *cc...cc*

A command cannot be executed at a remote host.

*aa...aa*: Command name

*bb...bb*: Local host name

*cc...cc*: Remote host name

S: Terminates processing.

Action

Take the following action:

- Check if it is permitted to use the same user ID to log in from the local host to the remote host.



- If c-shell is used as the login shell, check PDDIR specified for \$HOME/.cshrc for an error (in UNIX).
- If this message is displayed when the pdconfchk command was executed, and if the host name of the reserve system is displayed in cc....cc in the message, the host name specified in the pd\_hostname operand or in the -x option of the pdstart operand may be incorrect. Check that the standard host name of the running system is specified in the pd\_hostname operand. Also, check that the correct host name is specified in the -x option of the pdstart operand.

**KFPS05044-E E**

Communication error occurred, function=aa....aa, errno=bb...bb

Communication error occurred while reporting abnormal termination of a utility.

aa....aa: Name of the function resulting in the error

bb...bb: errno

S: Terminates processing.

Action

Check the error indicator value, eliminate the cause of the error, then re-execute the utility, if necessary. If the same error message is reissued, contact a customer engineer.

**KFPS05045-E E**

No server in this unit

No server is defined for the unit from which the command was entered.

S: Terminates processing.

Action

If the command was entered from the wrong unit, execute the command on the correct unit. Otherwise, terminate the unit, add the server definition, then re-execute the command.

**KFPS05045-E E**

No dictionary server

No dictionary server is defined.

S: Terminates processing.

Action

Check the system common definition for the dictionary server definition.

Dictionary server defined:

Re-execute the processing. If the same message is reissued, contact a

customer engineer.

Dictionary server undefined:

Define the dictionary server.

**KFPS05046-E E**

Dictionary already initialized

A dictionary has already been initialized.

S: Terminates processing.

Action

To initialize a dictionary, either use the `pdfmkfs` command to re-create the HiRDB file area for the master directory RDAREA or enter the `pdstart -i` command after system startup.

**KFPS05047-E L**

Command *aa....aa* failed, process ID=*bb....bb*

An operation command or utility command process terminated abnormally.

*aa....aa*: Command name

*bb....bb*: Process ID

S: Resumes processing.

Action

Refer to the message troubleshooting information (dump, trace, etc.) that was output before this message and to the message for the corresponding server to check the cause of the abnormal termination, then take appropriate action. If the error cannot be corrected, contact a customer engineer.

**KFPS05048-Q E+L**

Fall-back operation will be started, do you really want to proceed? (y/n)

When the HiRDB system performs reduced activation by specifying the `pd_start_skip_unit` operand, the system waits for operator confirmation.

S: Resumes processing.

O: Preceding this message, the system displays a KFPS01837-I message indicating the unit identifier on which the reduced activation operation is to be skipped. Check the message and reply `y` to perform the reduced activation operation, and `n` to skip it. If `n` is indicated, the system cancels the HiRDB startup processing.

**KFPS05049-Q S**

DB recovery from backup required when restarting with "`pdstart -dbdestroy`", (n/3), do you really want to proceed ?(y/n)

When `pdstart dbdestroy` is used to restart HiRDB, database recovery with the database recovery utility becomes necessary, and the system asks whether forced startup should actually be executed. This message is output three times; if the `y` response is entered all three times, the system executes forced restart. If any other response is entered, the system cancels forced restart and terminates. `pdstart dbdestroy` should be entered only when HiRDB cannot be started with `pdstart`; `pdstart` should always be used first to restart HiRDB. If HiRDB cannot be restarted, take appropriate action, as described below:

1. Enter `pdstart -r` to restart HiRDB.
2. Recover the master directory RDAREA, make a backup, then terminate the HiRDB system.
3. Enter `pdstart dbdestroy` to start HiRDB forcibly.
4. Recover RDAREAs that were updated since the previous HiRDB startup or since the `pdclose` command was entered, make a backup, then release the shutdown status.

S: Waits for a response.

#### Action

To execute forced startup:

Enter `y` as the response to all messages that are output.

To cancel forced startup:

Enter any character other than `y` as the response.

#### **KFPS05050-Q S**

DB will be initialized when restarting with "`pdstart -i`", do you really want to proceed?(y/n)

When HiRDB is started with the `pdstart -i` command, all databases must be re-created; the system therefore asks whether HiRDB should actually be started in the initialization mode.

If `y` is entered as the response, the system resumes startup in the initialization mode; if any character other than `y` is entered as the response, the system cancels startup and terminates.

To start HiRDB without initializing the database, enter the `pdstart` command.

S: Waits for a response.

#### Action

To reinitialize the database, enter `y` as the response.

To cancel database reinitialization, enter any character other than `y` as the

response.

**KFPS05051-E E**

Unable to cancel process due to status critical

The process cannot be cancelled because the process status is critical.

S: Terminates the command.

O: Re-execute the command if necessary.

**KFPS05052-E E**

Unable to cancel process due to HiRDB status busy

Cancellation of the process failed because the HiRDB workload is high.

S: Terminates the command.

O: Re-execute the command, if necessary.

**KFPS05053-E S**

Unable to specify manager node

The system manager server machine (host) cannot be specified in a command parameter.

S: Terminates processing.

Action

Enter the command to the system manager server machine.

**KFPS05054-E E**

Same UAP name process exists, Specify server process id

There is more than one UAP process with the UAP name specified in the `pdcancel` command.

S: Terminates processing.

Action

Re-execute the command specifying the process ID.

**KFPS05055-E E**

No such process

One of the following occurred:

- The process specified in the `pdcancel` command was not found.
- The specified process terminated immediately before the `pdcancel` command was entered.
- An attempt was made to cancel a HiRDB system control process by entering the `pdcancel` command with the `-d` option specified. (in UNIX)

S: Terminates processing.

O:

- If the intended process is still active, re-execute the command with its process ID specified or the correct UAP name specified.
- To execute the `pdcancel` command with the `-d` option specified, specify the process ID at the front-end server, back-end server, dictionary server, single server, or utility process (in UNIX).

**KFPS05056-E E**

Unable to stop MGR unit with "-z" option

The `pdstop` command with the `-z` option specified cannot be executed at the system manager (MGR).

S: Terminates processing.

O: To terminate the system manager, specify the `pdstop` command without any option specified or with the `-f` option specified, and terminate the HiRDB system.

**KFPS05057-W E**

Unable to find server process

The HiRDB/Single Server process specified in the `pdcancel` command was not found.

S: Terminates processing.

Action

Check if the process specified in the option for cancellation exists, and re-execute the command specifying the correct option, if necessary.

**KFPS05057-W E**

Unable to find front end server process

The front-end server process for a HiRDB/Parallel Server whose cancellation was requested by the `pdcancel` command was not found.

S: Terminates processing.

Action

Check if the process specified in the option for cancellation exists, and re-execute the command specifying the correct option, if necessary.

**KPS05058-E S**

Dictionary being initialized

`pdinit` is already executing.

S: Terminates processing.

**KFPS05059-E S**

Usage: *aa....aa*

The command option specification format is invalid.

*aa....aa*: Command format

S: Terminates processing.

Action

Check the command usage in the manual *HiRDB Version 8 Command Reference*, and re-execute.

**KFPS05060-E S**

Unable to execute *aa....aa* because *bb....bb*

The *aa....aa* command cannot be executed.

*aa....aa*: Command name

*bb....bb*: Reason code

file not found: The setup file does not exist.

setup file is invalid: The setup file is invalid.

S: Terminates processing.

Action

- file not found

Check that the path name of the setup file specified in the *aa....aa* command is correct.

- setup file is invalid

There is an error in the contents of the setup file specified in the *aa....aa* command. Revise the contents of the setup file and re-execute the command.

**KFPS05061-E E**

Too long path name with *aa....aa* and *directory\_name*

The pathname of the HiRDB system definition file in the directory specified by the *-d* option of the *pdconfchk* command is too long.

*aa....aa*:

- PDDIR: Storage location of the unit control information definition file
- PDCONFPATH: Storage location of a HiRDB system definition files other than the unit control information definition file

S: Terminates processing.

Action

Take one of the following actions:

- If *aa....aa* is PDDIR:  
Re-evaluate the length of the path name of the %PDDIR%\conf\ subdirectory so that it is no more than 220 bytes.
- If *aa....aa* is PDCONFPATH (in UNIX):  
If the PDCONFPATH operand is specified in the unit control information definition, re-evaluate so that the total length of the shared directory and the subdirectory path name is no more than 220 bytes. If the PDCONFPATH operand is not specified in the unit control information definition, re-evaluate so that the length of the \$PDDIR/conf/ subdirectory is no more than 220 bytes.
- If *aa....aa* is PDCONFPATH (in Windows):  
Revise the path name of the %PDDIR%\conf\subdirectory to 220 bytes or less.

**KFPS05062-W E**

Unmatched PDCONFPATH between system definition file and environment variable

The value of the PDCONFPATH operand (%PDDIR%\conf is assumed if no value is specified) in the unit control information definition file and the value of the PDCONFPATH environment variable when executing pdconfchk do not match. The pdconfchk command uses the value of the PDCONFPATH operand in the unit control information definition file.

S: Continues processing.

Action

Re-evaluate the value of the PDCONFPATH environment variable.

**KFPS05063-E S**

Unable to stop normally because unit terminated abnormally

HiRDB cannot be terminated normally, because a unit was terminated abnormally or forcibly by the pdstop -f command.

S: Resumes processing.

Action

Use the pdls command to determine which unit terminated abnormally or was stopped by the pdstop -f command, start the unit, then terminate it normally with the pdstop command. Or, terminate the unit forcibly with the pdstop -f command.

If Real Time SAN Replication with the log-only synchronous method is used:

- Transaction execution site

Use the `pdls` command to determine which units terminated abnormally or were terminated using the `pdstop -f` command, restart the units, and then use the `pdstop` command to perform normal termination. Alternatively, use the `pdstop -f` command to terminate them forcibly.

- Log application site

Use the `pdls` command to determine which units terminated abnormally or were terminated using the `pdstop -f` command, start the units, and then use the `pdstop -l` command to perform normal termination. Alternatively, use the `pdstop -f` command to terminate them forcibly.

**KFPS05064-E S**

Unable to stop HiRDB normally because unit being started  
HiRDB cannot be terminated normally, because a unit is engaged in startup processing.  
S: Resumes processing.

Action

Re-execute the `pdstop` command after HiRDB system startup is completed. Or, terminate HiRDB forcibly with the `pdstop -f` command.

**KFPS05065-E S**

Unable to stop HiRDB normally because unit being terminated  
HiRDB cannot be terminated normally, because a unit is engaged in termination processing.

S: Resumes processing.

Action

Re-execute the `pdstop` command after unit termination is completed. Or, terminate HiRDB forcibly with the `pdstop -f` command.

**KFPS05066-E E**

Error found while analyzing system common definition file  
An error was detected while analyzing the operands in the system common definition.

S: Terminates processing.

Action

Correct the information specified in the system common definition and re-execute.



**KFPS05067-E E**

Unable to start server due to dictionary server is inactive

Front-end server or back-end server cannot be started because the dictionary server is inactive.

S: Terminates processing.

Action

If the dictionary server can be used, start the dictionary server and re-execute.

**KFPS05068-E S**

Unable to stop *aa....aa* normally due to existence of half status unit

*aa....aa* cannot be terminated normally, because a unit has been shut down.

*aa....aa*: Termination type:

HiRDB: System

unit: Unit

server: Server

S: Resumes processing.

Action

To terminate, enter the `pdstop -f` command.

**KFPS05069-W S**

Unable to stop unit due to error occurred while terminating

A unit cannot be terminated because an error occurred during termination processing.

Or, the unit has already terminated.

S: Resumes processing.

Action

If a KFPS05222-E message was output immediately before, take action as indicated in that message. If the `pdstop -f` command was used, the unit may already be stopped, so check the message that was output immediately before.

If other than the above, check the unit that cannot be terminated from the message immediately before, and stop the unit using the `pdstop -f` or `pdstop -z` command.

If it cannot be terminated forcibly, contact a customer engineer.

**KFPS05070-E S**

Unable to stop unit normally due to error occurred while terminating

A unit cannot be terminated normally, because an error occurred during termination processing.

S: Resumes processing.

Action

Terminate the unit forcibly with the `pdstop -f` command. If it cannot be terminated forcibly, contact a customer engineer.

**KFPS05071-E S**

Unable to stop server due to error occurred while terminating

A server cannot be terminated normally, because an error occurred during termination processing. Or, the server is already stopped.

S: Resumes processing.

Action

Terminate the server forcibly with the `pdstop -f` command. If it cannot be terminated forcibly, contact a customer engineer.

If a stop command is issued for a server that has already stopped, this message may be output. In this case, ignore this message.

If a message indicating the reason that the server to be stopped could not be stopped was output to the event log (in UNIX, syslogfile) of the unit on which the server is running, refer to that message.

**KFPS05072-W E+L**

HiRDB system termination process (mode=*aa....aa*) execution exceeds *bb* minutes

The shutdown processing of HiRDB has not terminated after *bb* minutes.

*aa....aa*: Termination mode

"PLAN": Planned termination

"NORMAL": Log application site termination

*bb*: Elapsed time (in minutes)

S: Terminates the `pdstop` command, and continues termination processing.

Action

Take one of the following actions:

- Take no action if the planned shutdown process is to be held until the current utility or transaction terminates.
- Use the `pdcancel` command to cancel the current utility or transaction if the planned shutdown process is to proceed by cancelling the current utility or

transaction. When the utility or transaction is cancelled, HiRDB proceeds with the planned shutdown process.

- (In UNIX:) If the `pdcancel` command cannot cancel the transaction, remove the relevant process using the OS's `kill` command with the `-6` option specified, terminate the unit forcibly, save the data under `$PDDIR/spool`, and contact a customer engineer.
- (In Windows:) If the `pdcancel` command cannot cancel the transaction, remove the relevant process using the `pdkill` command, terminate the unit forcibly, save the data under `%PDDIR%\spool`, and contact a customer engineer.
- If this message was output during termination of a log application site, the termination processing probably caused the error. Use the `pdstop -f` command to terminate HiRDB forcibly, investigate the cause of the error by reviewing messages output before this message, and eliminate the cause of the error. For the primary causes of errors and recovery procedures, see the section on operations when an error occurs with the log-only synchronous method in the manual *HiRDB Version 8 Disaster Recovery System Configuration and Operation Guide*. After removing the cause of the error, perform preparation for log application, and restart the log application.

**KFPS05073-E E**

Environmental variable `aa....aa` nothing

Environment variable `aa....aa` has not been set up.

`aa....aa`: Environment variable

S: Continues or terminates processing, depending on how the HiRDB environment variables have been set up.

Action

Check whether or not all environment variables required by HiRDB have been set up. Set up any needed environment variables and re-execute the command.

**KFPS05074-E S**

Unable to stop normally, use `pdstop` command with `"-f"` option

The system cannot be terminated normally because an error occurred during termination processing.

S: Terminates processing.

O: If a process is engaged in UAP or utility execution, re-execute the `pdstop` command after the process terminates. In other cases, terminate the system forcibly with the `pdstop -f` command.

Action

If the system cannot be terminated, contact a customer engineer.

**KFPS05075-E E**

Unable to execute command, command=*aa...aa*, return code=*bb...bb*,  
errno=*cc...cc*

A shell command to be executed within a command failed.

*aa...aa*: Command to be executed

*bb...bb*: Command's return code

*cc...cc*: Error number

S: Terminates processing.

Action

Eliminate the cause of the command failure and re-execute the command, if necessary. If the same error message is reissued, contact a customer engineer.

**KFPS05076-E L**

Unable to start this unit with "-i" option

A utility special unit could not be started with the `pdstart -i` command.

For HiRDB/Parallel Servers, the `-i` option cannot be specified when starting at the unit level.

S: Terminates processing.

Action

Start HiRDB/Single Servers using the `pdstart` command. Alternatively, specify the `-r` or `dbdestroy` option with the `pdstart` command to activate HiRDB/Single Servers.

When reinitializing using a HiRDB/Parallel Server, stop the system, and then start the system using the `pdstart -i` command. To start a unit, either specify the `pdstart -x` option alone, specify it with the `-r` option (`pdstart -x -r`), or specify it with the `-dbdestroy` option (`pdstart -x -dbdestroy`).

**KFPS05077-E E**

Unable to execute remote shell command, hostname=*aa...aa*

The command cannot be executed for a remote host (in UNIX, remote shell).

*aa...aa*: Remote host name (in UNIX, host name)

S: Terminates processing.

Action

Take one of the following actions:

- UNIX version

Check if the remote shell execution privilege has been granted for the corresponding remote host and re-execute, if necessary.

- Windows version

Determine whether the same user ID has privilege to log on to the remote host from the local host, and, if necessary, re-execute. If using HiRDB/Parallel Server or if using HiRDB/Single Server with a system switchover facility, a connection with the remote shell is required. Check if the settings are still valid. For details, see the section on OS environment file settings in the *HiRDB Version 8 Installation and Design Guide*.

#### **KFPS05078-I L**

Unable to recognize HiRDB system initialization completion

The `pdstart` command could not confirm completion of system initialization processing.

S: Continues processing.

Action

Database Initialization Utility not running:

Check whether a KFPS05201-Q message has been output. If it has been output, the system is waiting for the input of the `pdinit` command, in which case the `pdinit` command should be executed. System initialization processing is resumed after the processing of the utility has terminated. After a while, enter the `pdls` command to check the system status. The `pdls` command can also be used to determine whether or not the system is waiting for the input of the `pdinit` command.

A HiRDB version upgrade command not running:

Check whether a KFPS05203-Q message has been output. If it has been output, the system is waiting for the input of the `pdvrup` command, in which case the `pdvrup` command should be executed. System initialization processing is resumed after the processing of the `pdvrup` command has terminated. After a while, enter the `pdls` command to check the system status.

When there is no request for the input of an HiRDB version upgrading command in the Database Initialization Utility:

Because the server startup is taking time, wait a while and enter the `pdls` command to check the system status.

If the system initialization processing has not terminated, check the message for other causes of the problem. If the cause of the problem cannot be determined, contact a customer engineer.

The `pdstart` command is failing to terminate normally:

Specify the `pdstart` command completion wait time in the `pd_system_complete_wait_time` operand. If the completion wait time is increased, the `pdstart` command terminates normally.

- When the system switchover facility is used and the standby system is activated:

The standby system unit may be waiting for the running unit to initialize because the running system unit has not yet initialized. Use the `pdls` command and the HA monitor or Hitachi HA Toolkit Extension commands to check the status of the running system unit. If the running system unit was not initialized, eliminate the cause of the initialization error and reinitialize the running system unit.

- When the system switchover facility is used and the running system is activated:

The system may be waiting for activation of the running system unit or it may be activated as the standby system unit. Check the system status using the `pdls` command and the HA monitor or the Hitachi HA Toolkit Extension commands. If it is not activated as the running system unit, activate it as the running system unit using the HA monitor (Hitachi HA Toolkit Extension) commands or cluster software.

#### **KFPS05079-E E**

Dictionary not initialized, unable to start server

A dictionary has not been initialized by the `pdinit` command, but an attempt was made to start the server with the `pdstart` command.

S: Terminates processing.

Action

Initialize the dictionary and re-execute, if necessary.

#### **KFPS05080-Q S**

Uap name=*aa...aa*, uap start time=*bb...bb*, server process  
id=*cc...cc*, cancel process? (y/n)

If a UAP name is specified in the `pdcancel` command and the command is executed, this message outputs the UAP name, the UAP start time, and the server process ID, and then awaits user response to determine whether to cancel the process.

If the `-d` option is specified in the `pdcancel` command and the command is executed, this message outputs the server process ID, and then awaits user response to determine whether to cancel the process.

*aa...aa*: UAP name (if the `pdcancel` command was executed with the `-d` option specified, `*****` is displayed)

*bb...bb*: UAP startup time (if the `pdcancel` command was executed with the `-d` option specified, 999999 is displayed)

*cc...cc*: ID of the process subject to cancellation processing

S: Resumes processing.

O: To continue cancellation processing, enter *y*; to cancel the processing, enter *n*.

**KFPS05081-Q S**

Cancel all server process? (y/n)

Asks the operator whether or not all UAP processes at a HiRDB/Single Server are to be cancelled.

S: Resumes processing.

Action

To continue cancellation processing, enter *y* (yes); to cancel the processing, enter *n* (no).

**KFPS05081-Q S**

Hostname=*aa...aa*, cancel all front end server processes? (y/n)

Asks the operator whether or not all UAP processes being executed at the specified host are to be cancelled.

*aa...aa*: Host name

S: Resumes processing.

Action

To continue cancellation processing, enter *y* (yes); to cancel the processing, enter *n* (no).

**KFPS05082-Q S**

Utility server name=*aa...aa*, process id=*bb...bb*, cancel process? (y/n)

When a utility is cancelled by the `pdcancel` command, the system displays the utility server name and process ID and asks the operator whether or not cancellation processing is to be continued.

*aa...aa*: Utility server name

*bb...bb*: Utility server process ID

S: Resumes processing.

Action

To continue cancellation processing, enter *y* (yes); to cancel the processing, enter *n* (no).

**KFPS05083-E E**

*aa....aa* terminated, due to server process abnormal end

A remote server process terminated abnormally during execution of a utility or operation command.

*aa....aa*: Command name

S: Terminates processing.

Action

If a server process was terminated by `pdstop` or `pdcancel`, contact a customer engineer.

**KFPS05084-E E**

Invalid option argument specified, option argument=*aa....aa*

An invalid option argument was specified in a command.

*aa....aa*: Option argument

S: Terminates processing.

Action

Correct the option argument and re-execute, if necessary.

**KFPS05085-W E**

Insufficient memory in message buffer pool, due to concurrent execution of *aa....aa* command

A temporary memory shortage occurred in the message storage buffer pool for the HiRDB server when the *aa....aa* command was executed concurrently. The KFPS00854-W message may be output when this error occurs; however, a server error has not occurred in this case.

*aa....aa*:

Name of operation command:

`pdsqls`: RDAREA status display

`pdclose`: RDAREA close

`pdhold`: RDAREA shutdown

`pdmod`: Database structure modification utility

`pdopen`: RDAREA open

`pdrels`: RDAREA shutdown release

S: Terminates processing.

O: Re-execute the command after execution of the current command is completed.



**KFPS05087-E E**

Unable to execute *aa....aa* command because *bb...bb*

The *aa....aa* command could not be executed because the system did not have a system switchover configuration.

*aa....aa*: Command name

- `pdls -d ha`
- `pdstop -f -q` (HiRDB/Single Server)
- `pdstop -z -q` (HiRDB/Parallel Server)

*bb...bb*: Reasons the command cannot be executed:

- `pd_ha` is not 'use': This system does not have a system switchover configuration.
- `pd_ha` is not 'use' or `pd_ha_unit` is 'nouse': This system or unit does not have a system switchover configuration.

S: Terminates processing.

Action

Check that `use` is specified in the `pd_ha` operand. Or, check that `nouse` is specified in the `pd_ha_unit` operand.

**KFPS05090-E L**

Unable to execute `pdndls` command

The `pdndls` command cannot be executed.

S: Terminates processing.

O: Re-execute the command after creating a multi-node-configuration definition file.

**KFPS05091-E L**

Incorrect HiRDB ID specified

Undefined HiRDB identifier was specified in a command parameter.

S: Terminates processing.

O: Check the multi-node-configuration definition file or option definitions for the correct HiRDB.

**KFPS05092-E E**

Error occurred

Error was detected during execution of `pdndls` command.

S: Resumes processing.

O: Check the detail information that is displayed after this message, then take

appropriate action.

**KFPS05093-E E**

Error found while analyzing pdmnd definition file

The pdndls command cannot be executed.

S: Terminates processing.

O: Check the contents of the multi-node-configuration definition file.

**KFPS05094-E E**

System error, func= *aa....aa*, code= *bb....bb*, detail=*cc....cc*, call  
func=*dd....dd*, line=*ee....ee*

An error was detected in the internal processing of a HiRDB-embedded support function.

*aa....aa*: Name of the function in which the error occurred

*bb....bb*: Error code

*cc....cc*: Error detail code

*dd....dd*: Call-originating file name (internal information)

*ee....ee*: Call-originating line number (internal information)

S: Terminates processing.

O: Take one of the following actions:

- When HiRDB-embedded support function is not used  
This command can be executed only when a HiRDB-embedded support function is used.
- When HiRDB-embedded support function is used  
Referencing the operation model setup file failed. Check the status of this file. Or, check that the PDEMBDIR environment variable has been set up correctly.

Action

See 4. *Error Detail Codes* and take appropriate action. If the cause is unknown, save the contents of this message, the files under %PDDIR%\spool, and a backup of the event log (in UNIX, syslogfile), and contact a customer engineer.

**KFPS05095-E E**

Unable to execute command, user=*aa....aa*

The command that user *aa....aa* entered could not be executed.

*aa....aa*: Log in user name of the user entering the command

S: Terminates processing.

O:

Re-evaluate the log in the user environment of the user who entered the command. For command details or the error cause, see the KFPS05043-E or KFPS05077-E message output immediately before this message.

**KFPS05096-I S**

Usage: `pdpfresh [-s server_name] [-{f | c} ]`

The option specification format of the `pdpfresh` command is invalid.

S: Terminates processing.

Action

Correct the option specification, and then re-execute.

**KFPS05097-E S**

Unable to stop normally during Online DB Reorganization

An attempt to terminate normally failed because updatable online reorganization is not complete.

S: Terminates processing.

Action

Correct the option specification, and then re-execute.

O:

Execute the `pdls -d org` command to check if discrepancies application processing of online reorganization is complete. If it is complete, re-execute the `pdstop` command to terminate normally. If the HiRDB system is terminated before discrepancies application processing of online reorganization is complete, execute either a planned stop (`pdstop -P`) or forced termination (`pdstop -f`).

**KFPS05098-I S**

Usage: `pdprgrefresh [-b] HiRDB_home_directory`

The specification format of the `pdprgrefresh` command option is invalid.

S: Terminates processing.

Action

Correct the option specification and re-execute.

**KFPS05099-I S**

Usage: `pdprgcopy HiRDB_home_directory`

The specification format of the `pdprgcopy` command option is invalid.

S: Terminates processing.

## Action

Correct the option specification and re-execute.

**KFPS05100-E L**

Error occurred in HiRDB unit starting process, reason code=*aa*

The unit cannot be started due to an error during unit startup processing.

*aa*: Reason code:

10: Definition analysis error

20: Communication error

30: Area shortage

40: Shared memory shortage

S: Terminates abnormally.

## Action

Take an appropriate action according to the reason code. If the error cannot be corrected, contact a customer engineer.

Reason code	Explanation	Action
10	Definition analysis error.	See the message output immediately before, check whether there is an error in the HiRDB system definition, and correct the error.
20	A communication error occurred.	See the message output immediately before, check the cause of the communication error, and eliminate it.
30	An area (memory) shortage occurred.	Execute the startup process after other processes have terminated, or revise the size of the swap area, then re-execute.
40	A common memory shortage occurred.	Consider whether the estimate of the common memory size is correct. If the estimate is correct, contact a customer engineer.

**KFPS05101-E L**

HiRDB unit definition parameter analysis error

An error occurred while analyzing the HiRDB unit definition parameters.

S: Terminates abnormally.

## Action

Contact a customer engineer.

**KFPS05102-E L**

Insufficient memory on STATIC\_SHMPOOL, size=*aa...aa*

A shared memory allocation error occurred.

*aa...aa*: Size (in bytes) of the area that was to be allocated

S: Terminates processing.

Action

Save the files under %PDDIR%\spool for this unit, save the event log (in UNIX, syslogfile), and contact a customer engineer.

**KFPS05110-I S+L**

HiRDB unit *aaaa* initialization process complete

Initialization of HiRDB unit *aaaa* has been completed.

*aaaa*: Unit identifier

S: Resumes processing.

**KFPS05111-E L**

Error occurred in HiRDB unit *aaaa* termination process.  
mode=*bb...bb*, reason code=*cc...cc*

Error occurred during termination processing at HiRDB unit *aaaa*.

If the termination mode is `PLAN`, or if Real Time SAN Replication is used for a log application site that is terminating with a termination mode of `NORMAL`, all units other than unit *aaaa* are terminated forcibly.

*aaaa*: Unit identifier

*bb...bb*: Termination mode:

`NORMAL`: Normal termination

`PLAN`: Planned termination

`FORCE`: Forced termination

*cc...cc*: Reason code:

`COMMUNICATION`: System manager communication error

`INTERNAL ERROR`: Internal processing error

S: Terminates abnormally.

Action

Check the messages that were output before this message, correct the error, then restart the system.

(Planned termination or normal termination of a log application site when Real Time SAN Replication is used)

Check that all units have terminated, then restart the system.

If there is an active unit, terminate it either by entering the `pdstop -f`

command from the system manager unit or by logging directly into the unit and entering the `pdstop -z` command, and then restart the system.

The method for determining termination status is to refer to each unit's event log (in UNIX, `syslogfile`); if any of the following messages is output, the unit is terminated:

- KFPS01821-E message
- System manager unit: KFPS01850-I message (`termination mode = FORCE`)
- For a unit that is not the system manager: KFPS01841-I message (`termination mode = FORCE`)

If the cause is unknown, save the files under `%PDDIR%\spool` for this unit, save the event log (in UNIX, `syslogfile`), and contact a customer engineer.

**KFPS05112-I L**

`Some servers did not startup, please check`

Some HiRDB servers may not be active (although they are on startup completed status as a HiRDB unit).

S: Resumes processing.

Action

Check the server status with the `pdls` command. If a server is on HELD status, the database must be recovered. If a server is on STOP status, eliminate the cause of the startup error and restart the server.

**KFPS05113-E L**

`Error occurred in HiRDB unit aaaa starting process, reason code=bb...bb`

An error occurred while starting Unit *aaaa*.

If the error code is 7, the unit cannot be restarted because planned termination processing is underway. The system forcibly terminates all units.

If the error code is 11, the unit cannot be restarted because there are units in termination processing on the log application site. All units are terminated forcibly.

If the error code is 12, the unit cannot be restarted because there are units performing database inheritance. All units are terminated forcibly.

*aaaa*: Unit identifier

*bb...bb*: Error code:

S: If the error code is 1-6, 8, 9, or 10, the unit is terminated abnormally.

If the error code is 7, 11, or 12, all units are terminated forcibly.

## Action

The following shows the error codes and their appropriate actions:

Error code	Error contents	Action
1	Internal processing error	Save the files under %PDDIR%\spool for this unit, save the event log (in UNIX, syslogfile), and contact a customer engineer.
2	Communication error	Check whether the system manager unit is stopped. If the system manager unit is stopped, check the cause of the system manager unit being stopped, and eliminate the error. Then, restart HiRDB. If the error occurred even when the system manager unit was active, there may be a network failure. See <i>4.1 Detail codes for RPC-related errors</i> to investigate the error. If the cause is unknown, save the files under %PDDIR%\spool on the system manager unit and the unit that output the abort code, save the event log (in UNIX, syslogfile), and contact a customer engineer.
3	Definition parameter error	A definition parameter specified for the unit may contradict the system manager unit definition or another unit definition. Check the server configuration and unit identifier for errors, correct any errors, then re-execute. For details, see the KFPS05215-W message.
4	Memory shortage	Execute after other processes terminate, or revise the size of the swap area, then re-execute.
5	Version mismatch	Save the files under %PDDIR%\spool for this unit, save the event log (in UNIX, syslogfile), and contact a customer engineer.
6	Internal processing error	
7	Status mismatch error with another unit	<p>A unit in planned termination was detected. Check that all units have terminated, then restart the system. If there is an active unit, terminate it either by entering the <code>pdstop -f</code> command from the system manager unit, or by logging directly onto the unit and entering the <code>pdstop -z</code> command, and then restart the system.</p> <p>The method for determining termination status is to refer to each unit's event log (in UNIX, syslogfile); if any of the following messages is output, the unit is terminated:</p> <ul style="list-style-type: none"> <li>• KFPS01821-E message</li> <li>• System manager unit: KFPS01850-I message (<i>termination-mode=FORCE</i>)</li> <li>• For a unit that is not the system manager: KFPS01841-I message (<i>termination-mode=FORCE</i>)</li> </ul>
8	An activation waiting timeout occurred on a server to be used with standby-less system switchover (effects distributed)	Check the activation status of the server indicated in the KFPS05251-W message that was output immediately before using the HA monitor or the Hitachi HA Toolkit Extension, and then re-activate the units that abnormally terminated.

## 2. Messages

Error code	Error contents	Action
9	The contents of the system definition do not match between units	Check the KFPS05247-E message that was output immediately before, make the value of the <code>pd_rpl_hdepath</code> operand the same for each unit, and restart the units that abnormally terminated.
10	The activation mode does not match between units	Refer to the KFPS05247-E message output immediately before this message, read each unit's activation options, and then re-activate the abnormally terminated units.
11	Status mismatch error with another unit (during log application site termination processing)	A unit on the log application site in termination processing was detected. Confirm that all units have terminated, and then restart HiRDB. If there are still units that have not terminated, execute the <code>pdstop -f</code> command from the system manager unit, wait until they have terminated, and then restart HiRDB. The method for determining running status is to check each unit's event log (in UNIX, syslogfile). If a KFPS01821-E message is output (for HiRDB/Parallel Server, system manager unit, a KFPS01850-I message ( <i>termination-mode=FORCE</i> ); for a unit other than the system manager unit, a KFPS01841-I message ( <i>termination-mode=FORCE</i> )), the unit is terminated.
12	Status mismatch error with another unit (during database inheritance)	A unit performing database inheritance was detected. Confirm that all units have terminated, and then restart HiRDB. If there are still units that have not terminated, execute the <code>pdstop -f</code> command from the system manager unit, wait until they have terminated, and then restart HiRDB. The method for determining running status is to check each unit's event log (in UNIX, syslogfile). If a KFPS01821-E message is output (for HiRDB/Parallel Server, system manager unit, a KFPS01850-I message ( <i>termination-mode=FORCE</i> ); for a unit other than the system manager unit, a KFPS01841-I message ( <i>termination-mode=FORCE</i> )), the unit is terminated.

### KFPS05114-E L

SDS server did not startup

The activation of the single server cannot be confirmed.

S: Terminates abnormally.

Action

Contact a customer engineer.

### KFPS05120-W L

Waiting for UAP and/or utility disconnect in HiRDB unit *aaaa*,  
current connect user count = *bbb*

The system is waiting for termination of a UAP or utility.

*aaaa*: Unit identifier of the unit waiting for termination

*bbb*: Number of connected users who are waiting for the termination of the UAP or utility



S:

Resumes processing while not allowing new users to connect to HiRDB. Holds the termination processing of HiRDB until the processing of the UAP or utility ends (15 minutes). Starts HiRDB termination processing upon termination of the UAP or utility.

Outputs detailed information about the users connected to HiRDB to a connection user information file (%PDDIR%\spool\cnctusrinf). In addition, outputs the execution results of the following commands to a connection user detail file (cnctusrdtl under %PDDIR%\spool):

- pdls -d act
- pdls -d prc
- pdls -d trn

For a HiRDB/Parallel Server, these files are output to the server machine in which the System Manager is located.

Alternatively, if a currently running UAP or utility stopped near the time this message is output, this information may not be included in the detail information for the servers connected to the HiRDB system.

O: Referring to the information output to the connection user information file (%PDDIR%\spool\cnctusrinf), determine which users are connected, and take corrective action. If you are still unsure which users are connected, refer to the connected user detail file (%PDDIR%\spool\cnctusrdtl) to determine this information, and take corrective action. For details on corrective actions, see the *HiRDB Version 8 System Operation Guide*.

Following is an example of output from the connection user information file:

Output example:

```
UNIT ID : M350(173420)
UID PID   GID SVID  TIME  PROGRAM
C-GRP C-PID  C-IP
334 22118 300 fes1 173330 uap00
WS   22205 172.17.32.37
```

Explanation:

UNIT ID:

Displays the unit identifier and the time of creation of the cnctusrinf file (*hhmmss*).

UID:

Displays the user IDs of the users who are connected to HiRDB.

## 2. Messages

### PID:

Displays the process IDs of the users who are connected to HiRDB.

### GID:

Displays the group IDs of the users who are connected to HiRDB.

### SVID:

Displays the server name of the server to which users are connected.

A space may be displayed after a HiRDB server process is started.

### TIME:

Displays the time (*hhmmss*) when HiRDB accepted a service request.

Displays the number 999999 for the server to which users are not connected.

### PROGRAM:

Displays the value specified in the PDCLTAPNAME operand of the client environment definition. The default for the PDCLTAPNAME operand is Unknown.

For details on the PDCLTAPNAME operand, see the *HiRDB Version 8 UAP Development Guide*.

- Displays \*\*\*\*\* for a utility.
- For a UAP that accesses HiRDB using the distributed database facility, displays RDAUSER - *authorization-identifier*.
- The symbol \*\*\*\*\* may be displayed after a HiRDB server process is started.

### C-GRP:

Displays the types (client group types) of users who are connected to HiRDB.

If a client group connection frame guarantee facility is used and a user-defined client group is defined, displays the name of the user-defined client group.

Displayed character string	User type
XA	Users who are connected to HiRDB using the X/Open XA interface
DF	Users who are connected to HiRDB from a distributed client
PC	Users who are connected to HiRDB from a PC client
WS	Users who are connected to HiRDB from a WS client

Displayed character string	User type
MF	Users who are connected to HiRDB from a mainframe-based client (including a VOS3 client)

C-PID:

Displays the process ID of the client.

C-IP:

Displays the IP address of the client.

*Note*

C-GRP, C-PID, or C-IP is not displayed in the following cases:

- The UAP or utility is not executed on the client side (the UAP or utility is executed on the HiRDB system).
- The version of the client that linked the UAP is earlier than HiRDB Version 4.0 04-00.

#### **KFPS05121-E L**

Unable to stop normally, UAP and/or utility remaining in HiRDB unit *aaaa*, current connect user count = *bbb*

The HiRDB system cannot be stopped because a UAP or utility is being executed.

*aaaa*: Unit identifier of unit executing the UAP or utility

*bbb*: Number of connected users who are executing the UAP or utility

S: Terminates termination processing.

O: Re-execute the `pdstop` command after UAP or utility processing ends. Use the `pdls -d trn` or `pdls -d prc` command to determine the users who are executing the UAP or utility.

#### **KFPS05123-W L**

Using resource for "*aa....aa*" operand reached *bb...bb%* [, *cc....cc*]

The resources for the system definition operand "*aa....aa*" have reached a warning value *bb....bb*.

*aa....aa*: Name of the system definition operand

*bb...bb*: Warning value (in percentage)

*cc....cc*: Additional information

S: Resumes processing.

Action

The additional information that is output and the corrective action to be taken vary with the name of the operand. Take action by referring to the following table. Some operand names do not output additional information.

System definition operand name aa....aa	Additional information cc....cc	Action
pd_max_users: Maximum number of concurrent connections	<i>dd....dd/ee....ee, server = ff....ff</i> <ul style="list-style-type: none"> <li>• <i>dd....dd</i>: Number of connected users</li> <li>• <i>ee....ee</i>: Defined value</li> <li>• <i>ff....ff</i>: Front-end server name or single server name. The symbol '<i>**....**</i>' is output if a warning value is reached during the execution of one of the following utilities: <ul style="list-style-type: none"> <li>• pdload</li> <li>• pdrorg</li> <li>• pddbst</li> <li>• pdgetcst</li> <li>• pdmod</li> </ul> </li> </ul>	Re-evaluate whether the value for pd_max_users is appropriate. If the value is not appropriate, change the value of the operand.
pd_max_access_tables: Number of base tables that can be accessed concurrently	<i>dd....dd/ee....ee, server=ff....ff</i> <ul style="list-style-type: none"> <li>• <i>dd....dd</i>: Usage count</li> <li>• <i>ee....ee</i>: Definition count</li> <li>• <i>ff....ff</i>: Server name</li> <li>• <i>ff....ff</i>: Server name</li> </ul>	Re-evaluate whether the value for pd_max_access_tables is appropriate. If the value is not appropriate, change the value of the operand.
pd_max_rdarea_no: Maximum number of RDAREAs pd_max_file_no: Maximum number of HiRDB files comprising an RDAREA	<i>dd....dd/ee....ee, server = ff....ff</i> <ul style="list-style-type: none"> <li>• <i>dd....dd</i>: Number of RDAREAs used</li> <li>• <i>ee....ee</i>: Number of definitions</li> <li>• <i>ff....ff</i>: Server name</li> </ul>	Re-evaluate whether the value for pd_max_rdarea_no or pd_max_file_no is appropriate. If the value is not appropriate, change the value of the operand.

System definition operand name aa....aa	Additional information cc....cc	Action
pdwork: Work table HiRDB file system area	<i>dd....dd=ee....ee / ff....ff</i> , file system = <i>gg....gg</i> ( <i>hh....hh</i> ) <ul style="list-style-type: none"> <li>• <i>dd....dd</i>: Detail category<sup>1</sup> capacity file count expand count</li> <li>• <i>ee....ee</i>: Size of area used</li> <li>• <i>ff....ff</i>: Assigned amount</li> <li>• <i>gg....gg</i>: HiRDB file system area name</li> <li>• <i>hh....hh</i>: Server name</li> </ul>	Re-evaluate whether the option specified by the <code>pdfmkfs</code> command is appropriate for the applicable work table HiRDB file system area. If the option is not appropriate, re-estimate the value of the operand, and then initialize the work table HiRDB file system area using the <code>pdfmkfs</code> command. Terminate the HiRDB system normally before executing the <code>pdfmkfs</code> command.
client-group connect users: Number of users in the free utilization frame at the time of client group specification	<i>dd....dd/ee....ee</i> , server = <i>ff....ff</i> <ul style="list-style-type: none"> <li>• <i>dd....dd</i>: Number of users connected within the free utilization frame</li> <li>• <i>ee....ee</i>: Number of definitions</li> <li>• <i>ff....ff</i>: Front-end server or back-end server. A symbol <code>**... **</code> is output if a warning value is reached during the execution of any of the following utilities: <ul style="list-style-type: none"> <li>• <code>pdload</code></li> <li>• <code>pdrogr</code></li> <li>• <code>pddbst</code></li> <li>• <code>pdgetcst</code></li> <li>• <code>pdmod</code></li> </ul> </li> </ul>	Check whether the value of the minimum connection guarantee number for each client group, specified in the <code>pdcltgrp</code> operand, is appropriate. <ul style="list-style-type: none"> <li>• When executing a large number of utilities or UAPs that do not belong to a client group, reduce the minimum connection guarantee number for each client group specified in the <code>pdcltgrp</code> operand, and increase the free utilization frame.</li> <li>• If the minimum connection guarantee number assigned to a client group is sufficient, reduce the minimum connection guarantee number for that client group specified in the <code>pdcltgrp</code> operand, and increase the free utilization frame.</li> </ul>
pd_max_list_users: Maximum number of users who can create lists	<i>dd....dd/ee....ee</i> , server = <i>ff....ff</i> <ul style="list-style-type: none"> <li>• <i>dd....dd</i>: Number used</li> <li>• <i>ee....ee</i>: Number defined</li> <li>• <i>ff....ff</i>: Server name</li> </ul>	Check if the value specified in <code>pd_max_list_users</code> is appropriate. If not, re-estimate the appropriate value and specify it.
pd_max_list_count: Maximum number of lists one user can create	<i>dd....dd/ee....ee</i> , server = <i>ff....ff</i> <ul style="list-style-type: none"> <li>• <i>dd....dd</i>: Number used</li> <li>• <i>ee....ee</i>: Number defined</li> <li>• <i>ff....ff</i>: Server name</li> </ul>	Check if the value specified in <code>pd_max_list_count</code> is appropriate. If not, re-estimate the appropriate value and specify it. Before modifying system definitions, terminate HiRDB normally.

System definition operand name aa....aa	Additional information cc....cc	Action
pd_aud_max_generation_num: Maximum number of audit trail tables	dd....dd/ee....ee/unit=ffff dd....dd: Number of audit trail tables that cannot become the swap destination ee....ee: Operand value ffff: Unit identifier	<ul style="list-style-type: none"> <li>Request that the auditor load the data in the audit trail files that are waiting for data loading.</li> <li>Re-evaluate whether the value of the pd_aud_max_generation_num operand is appropriate. If the value is not appropriate, change the value of the operand.</li> </ul>

<sup>1</sup> If the detail category is capacity, the size of an area used or allocated is indicated in megabytes.

**KFPS05124-E L**

Number of connect users exceeded max users, server=aa....aa

The number of connections to HiRDB exceeded the maximum number of concurrent connections (value of the pd\_max\_users operand).

aa....aa: Name of the server on which the number of concurrently connected users was detected

S: Resumes processing.

O: Re-execute the command after other users have terminated.

P: Re-execute the command after other users have terminated.

Action

Check whether the value specified in the pd\_max\_users operand is appropriate. If not, re-estimate the specification value and change the value.

**KFPS05130-E L**

Unable to execute command. except pdvrup

No commands can be executed while pdvrup is executing.

S: Terminates processing.

Action

Re-execute the command after system startup is completed.

**KFPS05131-E L**

Unable to execute aa....aa command. reason code=bbbb

Execution of command aa....aa failed.

aa....aa: Name of the command being executed

bbbb: Detail code (see 4.2 Detail codes for system-related errors)

S: Terminates processing.

O: Correct the cause of the error and re-execute the command as necessary. If this error message is output repeatedly, contact a customer engineer.

**KFPS05140-I E+L**

Data replication started. unit=*aaaa*

HiRDB Datareplicator linkage has started.

*aaaa*: Unit identifier

S: Resumes processing.

**KFPS05141-I E+L**

Data replication stopped. unit=*aaaa*

HiRDB Datareplicator has stopped.

*aaaa*: Unit identifier

S: Resumes processing.

**KFPS05142-W E+L**

Unable to stop data replication, server=*aa...aa*, reason=*bb...bb*

Data linkage with HiRDB Datareplicator could not be stopped.

*aa...aa*: Server name

*bb...bb*: Reason code

S: Continues processing.

Action

Take appropriate action according to the reason code.

Reason code	Cause	Action
FILE LOCK ERROR	A reference privilege or update privilege could not be acquired for a data linkage file used by HiRDB Datareplicator.	HiRDB Datareplicator has exclusive ownership of the data linkage file. Investigate the cause, and then take appropriate action.
FILE OPEN ERROR	A data linkage file used by HiRDB Datareplicator could not be opened.	Either the data linkage file has been deleted or it could not be opened due to a disk error. Synchronize to the target database, re-create the data linkage file, and then restart HiRDB Datareplicator and HiRDB.

**KFPS05160-I L+S**

HiRDB unit *aaaa* initialization process complete on standby site

Unit start processing on the log application site has finished.

*aaaa*: Unit identifier

S: Continues processing.

**KFPS05162-E L**

Error occurred in HiRDB unit *aaaa* database take over process, reason code=*bb...bb*

An error occurred during database inheritance. All units are terminated forcibly.

*aaaa*: Unit identifier

*bb...bb*: Error code

COMMUNICATION: Error in communication with another unit

INTERNAL ERROR: Internal processing error

S: Terminates abnormally.

Action: Check the messages output before this message, eliminate the error, and start the log application site HiRDB. Ensure that all units have terminated, and then restart HiRDB.

If there are still units that have not terminated, either execute the `pdstop -f` command from the system manager unit or execute the `pdstop -z` command from the units that have not terminated, wait until they have terminated, and then restart the log application site HiRDB.

The method for determining running status is to check each unit's event log (in UNIX, syslogfile). If any of the following messages is output, the unit is terminated:

- KFPS01821-E message
- System manager unit: KFPS01850-I (*termination-mode=FORCE*)
- Unit other than the system manager unit: KFPS01841-I (*termination-mode=FORCE*)

If the cause cannot be determined, collect the files under `$PDDIR/spool` for this unit, collect the event log (in UNIX, syslogfile), and contact a customer engineer.

**KFPS05170-E L**

Server *aa...aa* recovery failed, abnormally terminated unit=*bbbb*

Server recovery processing failed due to abnormal termination of the indicated unit.

*aa...aa*: Name of the server whose recovery failed

*bbbb*: Identifier of the unit that terminated abnormally

S: Resumes processing.

Action



Collect the files under `$PDDIR/spool` for this unit, collect the event log (in UNIX, `syslogfile`), and contact a customer engineer.

**KFPS05171-E L**

Process recovery failed, abnormally terminated process=*aa...aa*

Recovery processing failed due to abnormal termination of the indicated process.

*aa...aa*: ID of the process that terminated abnormally

S: Terminates abnormally.

**Action**

For the abnormally terminated process ID, 0 might be output.

If other than 0 is output, use the `pdls -d prc` command to determine whether the relevant process is still running. If it is not running, there is no problem. If it is running, collect the files under `$PDDIR/spool` for this unit, collect the event log (in UNIX, `syslogfile`), and contact a customer engineer.

**KFPS05172-E L**

Unable to inform unit *aaaa* that process is abnormal, abnormal process=*bb...bb*

Indicated process terminated abnormally, but the indicated unit cannot be recovered.

*aaaa*: Unit identifier of the unit for which recovery processing could not be executed

*bb...bb*: ID of the process that terminated abnormally

S: Resumes processing.

**Action**

For the abnormally terminated process ID, 0 might be output.

Check the unit status because no error has occurred if the unit output in the message has not been started.

If the unit has been started, contact a customer engineer.

**KFPS05173-E L**

Recovery failure because server *aa...aa* abnormally terminated, utility=*bb...bb cc...cc*

Unit recovery processing failed with abnormal termination of the server.

*aa...aa*: Name of the server that abnormally terminated (maximum 8 characters)

*bb...bb*: Process ID (maximum 10 characters) of the utility that failed in recovery that is related to the server that abnormally terminated

*cc...cc*: Internal service name used by HiRDB (maximum 16 characters)

S: Continues processing.

**Action**

Use the `pdls -d prc -a` command to check whether the process ID output by the message was retained. If it was not retained, there is no problem. If it was retained, use the `pdls -d trn -a` command to check the name of the executed utility, and check whether the execution time of the utility is long. For actions to take if the execution time is long, see the *HiRDB Version 8 System Operation Guide*.

**KFPS05180-E L**

System call/function error, call=*aa...aa*, code=*bbb*

A system call or function error occurred.

*aa...aa*: Name of the system call or function resulting in the error

*bbb*: Error code

S: If this message is output during system startup, when `pdstop -x` is executed, or when `pdstop -u` is executed, the command is terminated abnormally. If this message is issued as an extension of the `pdstop` command, the system terminates the command's processing.

**Action**

If the system call or function cannot be identified by the displayed error code, contact a customer engineer.

Name of system call or function resulting in the error	Error code	Cause	Action
System	-1	Total number of processes being executed exceeded the limit applicable to the system (in UNIX).	Increase the <code>nproc</code> parameter value of the OS.
		Maximum number of processes that can be used by a user was exceeded (in UNIX).	Increase the <code>maxuprc</code> parameter value of the OS.
		Physical memory shortage occurred.	Check that at least the necessary amount of memory has been allocated. If sufficient memory has been allocated, release unneeded resources.
Other	Other	—	Contact a customer engineer.

— : Not applicable

**KFPS05190-E L**

Communication error occurred, from host *aa...aa* to host *bb...bb*,  
processing code=*ccc*

An error occurred during communication from host *aa...aa* to host *bb...bb*.

*aa...aa*: Host name

*bb...bb*: Host name

*ccc*: Code being processed (HiRDB internal code)

S: Resumes processing or terminates abnormally, depending on the system status.

**Action**

1. If the host defined as the system manager (MGR) is not active, start it and then restart the HiRDB unit.
2. If a utility special unit is defined, the *bb...bb* host may not be active. If the host is not active, no error has occurred. Check whether the *bb...bb* host was active.
3. If this message is output in the following cases, confirm that the host indicated by *bb...bb* is operating.
  - A unit on which the standby-less system switchover (effects distributed) facility is being used terminates normally
  - A server on which the standby-less system switchover (effects distributed) facility is being used terminates normally
  - A unit on which the standby-less system switchover (effects distributed) facility is being used terminates forcibly

If the host indicated by *bb...bb* is not operating, this message can be ignored. If the host indicated by *bb...bb* is operating, check the server standby status of the unit indicated by *bb...bb*. If a running server that terminated under the above conditions is the unit indicated by *bb...bb* and is not in standby status, this message can be ignored. Otherwise, contact a customer engineer.

4. Otherwise, contact a customer engineer.

**KFPS05191-E L**

Communication error occurred, from host *aa...aa* to host *bb...bb*,  
processing code=*ccc*, reason code=*ddd*

An error occurred during communication from host *aa...aa* to host *bb...bb*.

*aa...aa*: Host name

*bb...bb*: Host name

*ccc*: Code being processed (HiRDB internal code)

*ddd*: Reason code (HiRDB internal code)

S: Resumes processing or terminates abnormally, depending on the system status.

Action

1. If the host defined as the system manager (MGR) is not active, start it and then restart the HiRDB unit.
2. If a network error has occurred, eliminate the cause of the error and restart the HiRDB unit.
3. Otherwise, contact a customer engineer.

**KFPS05192-E L**

Communication error occurred, from utility to MGR/SDS unit, processing code=*aaa*

An error occurred during communication from the unit that executed the utility to either the system manager (MGR) or the unit defined as the single server (SDS).

*aaa*: Code being processed (HiRDB internal code)

S: Resumes processing or terminates abnormally, depending on the system status.

Action

Save the files under %PDDIR%\spool on the system manager unit and the unit that executed the utility, save the event log (in UNIX, syslogfile), and contact a customer engineer.

**KFPS05193-E E+L**

Communication error occurred, to host *aa....aa*, processing code=*bbb*, reason code=*ccc*

An error occurred during communication to host *aa....aa*.

If the host name is **\*\*\*\*\***, the error occurred during communication to either the system manager or the host defined as the single server.

*aa....aa*: Host name

*bbb*: Code being processed (HiRDB internal code)

*cc*: Reason code (HiRDB internal code)

S: Resumes processing or terminates abnormally, depending on the system status.

Action

Take action appropriate to the displayed code being processed and reason code:

Reason code	Action
640	Consider that the unit of host <i>aa...aa</i> may be inactive. If so, start the corresponding unit. If the corresponding unit is not running in reduced mode, this message may be ignored. If this message is output even though the corresponding unit is running, a communication error has occurred. See <i>4.1 Detail codes for RPC-related errors</i> , and check that a communication error has not occurred.
740	
840	
1140	
1340	
1440	
1540	
1640	
1740	
1840	
2240	
2300	
2350	
2500	
2630	
2700	
2710	
2720	
2730	
2840	
Other	Contact a customer engineer.

**KFPS05194-E L**

Communication error occurred, to node MGR, processing code=*aaa*

Communication in a HiRDB unit failed (the displayed processing code is an HiRDB internal code).

*aaa*: Code being processed

S: Terminates abnormally.

## 2. Messages

### Action

Save the files under %PDDIR%\spool on the system manager unit and this unit, save the event log (in UNIX, syslogfile), and contact a customer engineer.

### **KFPS05195-E L**

Communication error occurred, to node MGR, processing code=*aaa*, reason code=*bbb*

An error occurred during communication to the server machine (MGR) at the HiRDB unit (the displayed reason code and processing code are HiRDB internal codes).

*aaa*: Code being processed

*bbb*: Reason code

S: Terminates abnormally.

### Action

Save the files under %PDDIR%\spool on the system manager unit and this unit, save the event log (in UNIX, syslogfile), and contact a customer engineer.

### **KFPS05200-E L**

Error occurred in HiRDB system starting process, reason code=*aa*  
HiRDB cannot be started due to an error during HiRDB startup processing.

*aa*: Reason code:

10: Definition analysis error

20: Communication error

30: Memory shortage

40: Shared memory shortage

S: Terminates abnormally.

### Action

Take action appropriate to the reason code. If the error cannot be resolved, save the files under %PDDIR%\spool on the system manager unit, save the event log (in UNIX, syslogfile), and contact a customer engineer.

Reason code	Explanation	Action
10	Definition analysis error.	See the message output immediately before, check whether there is an error in the HiRDB system definition, and correct the error.
20	A communication error occurred.	See the message output immediately before, check the cause of the communication error, and eliminate it.

Reason code	Explanation	Action
30	An area (memory) shortage occurred.	Execute the startup process after other processes have terminated, or revise the size of the swap area, then re-execute.
40	A common memory shortage occurred.	Consider whether the estimate of the common memory size is correct. If the estimate is correct, contact a customer engineer.

**KFPS05201-Q S+L**

Dictionary not initialized; enter `pdinit` command

A dictionary has not been initialized in the HiRDB system. Initialize the dictionary by entering the `pdinit` command.

S: Waits until initialization of the dictionary by the `pdinit -d` command is completed.

**Action**

Enter the `pdinit` command. When the Windows version is being used, execute the `pdinit` command with the Administrator privilege. In this case, `root` is the executor.

**KFPS05202-E L**

Insufficient memory on `STATIC_SHMPOOL`, `size=aa...aa`

A shared memory allocation error occurred.

`aa...aa`: Size (in bytes) of the area that was to be allocated

S: Terminates processing.

**Action**

Save the files under `%PDDIR%\spool` on the system manager unit, save the event log (in UNIX, `syslogfile`), and contact a customer engineer.

**KFPS05203-Q S+L**

HiRDB version upped: enter `pdvrup` command

The system is waiting for the `pdvrup` command to be entered. Enter the command.

S: Waits for the `pdvrup` command to be entered.

**Action**

Enter the `pdvrup` command.

**KFPS05205-E L**

Error occurred while starting HiRDB control process, reason `code=aa`

Because an error occurred while starting the HiRDB system control process, the

## 2. Messages

system cannot be started.

*aa*: Reason code:

10: Definition analysis error

20: Communication error

30: Memory shortage

40: Shared memory shortage

S: Terminates abnormally.

Action

Take action appropriate to the reason code. If the error cannot be resolved, save the files under %PDDIR%\spool on the system manager unit, save the event log (in UNIX, syslogfile), and contact a customer engineer.

Reason code	Explanation	Action
10	Definition analysis error.	See the message output immediately before, check whether there is an error in the HiRDB system definition, and correct the error.
20	A communication error occurred.	See the message output immediately before, check the cause of the communication error, and eliminate it.
30	An area (memory) shortage occurred.	Execute the startup process after other processes have terminated, or revise the size of the swap area, then re-execute.
40	A common memory shortage occurred.	Consider whether the estimate of the common memory size is correct. If the estimate is correct, contact a customer engineer.

### KFPS05206-E L

Incompatible character code set for HiRDB unit *aaaa*, character code set=*bb...bb*, MGR unit character code set=*cc...cc*

*bb...bb* character codes at unit *aaaa* are incompatible with *cc...cc* character codes at the MGR unit. Therefore, the HiRDB system cannot be activated.

*aaaa*: Unit identifier

*bb...bb*: Character codes used at unit *aaaa*:

CHINESE: EUC Chinese kanji codes

LANG-C: One-byte character codes

SJIS: Shift JIS codes

UJIS: EUC Japanese kanji codes

UTF-8: Unicode(UTF-8)



*cc....cc*: Character codes used at the MGR unit

S: Terminates abnormally.

Action

Take the following actions:

- In UNIX

To unify the character code classifications, execute the `pdsetup -d` command, respond `y` at the prompt, and then specify the correct character code classification again using the `pdsetup -c` command.

- In Windows

Unify the character code classifications. To unify the character code classifications, execute the `pdntenv -c` command.

#### **KFPS05207-E L**

Unable to start HiRDB system, some units exist whose version are not equal to that of MGR unit

The HiRDB system cannot be started because some units differ from the unit containing the system manager (MGR) in terms of one or more of the items listed below:

- Version
- Addressing mode (32-bit mode vs. 64-bit mode)
- Load type (whether or not POSIX library version is being used)

S: Abnormally terminates.

P:

Take the following actions:

- In UNIX

Based on the KFPS05209-I or KFPS05212-E message, set the same version, addressing mode, and load type for all units, and then restart HiRDB.

- In Windows

Refer to the KFPS05209-I or KFPS05212-E message, set the same version and addressing mode for all units, and then restart HiRDB.

#### **KFPS05208-E L**

Unable to start HiRDB system, abnormally terminated units exist

There is a unit that previously terminated abnormally, underwent a planned shutdown, or was terminated forcibly. Therefore, HiRDB cannot be started.

S: Abnormally terminates.

Action

Take the following actions:

- In UNIX

See the KFPS05209-I or KFPS05212-E message and return the version of all units, addressing mode, and the load type (whether or not a POSIX library is used) to an older version. After terminating normally in the previous version, upgrade HiRDB.

For details on how to return to the previous version and upgrade the version, see the *HiRDB Version 8 Installation and Design Guide*.

- In Windows

Refer to the KFPS05209-I or KFPS05212-E message, and return the version and addressing mode of all units to the previous version. After terminating normally in the previous version, upgrade HiRDB. For details about how to return values to the previous version and how to upgrade, see the manual *HiRDB Version 8 Installation and Design Guide*.

**KFPS05209-I L**

HiRDB version information, *unit\_id=aaaa, bb...bb, cc...cc*

Displays information for HiRDB unit *aaaa*.

*aaaa*: Unit identifier

*bb...bb*: HiRDB version information:

*version*: HiRDB version

*addressing mode*: HiRDB addressing mode:

32: 32-bit mode

64: 64-bit mode

*load*: Displays the HiRDB load type. This information is displayed when using the HP-UX version (32-bit mode), the Solaris version, or the AIX-5L version of HiRDB.

POSIX: POSIX library version

NO-POSIX: Non-POSIX library version

*cc...cc*: HiRDB version information at the previous termination:

*stop status*: Previous HiRDB termination mode:

A: Planned termination, forced termination, or unit abnormal termination

N: Normal termination

*previous operation stop version*: HiRDB version at the previous termination (if the status file is being initialized, \*\*\*\*\* is displayed)

*addressing mode*: HiRDB addressing mode at the previous termination:

32: 32-bit mode

64: 64-bit mode

*load*: Displays the load type from the previous time HiRDB terminated. This information is displayed when using the HP-UX version (32-bit mode), the Solaris version, or the AIX-5L version of HiRDB.

POSIX: POSIX library version

NO-POSIX: Non-POSIX library version

S: Terminates abnormally.

#### Action

Take corrective action by referring to message KFPS05207-E or KFPS05208-E that was output prior to this message.

In UNIX:

- If message KFPS05207-E is output:

Based on this message and the KFPS05212-E message, set the version, addressing mode, and load type for all units to be the same, and then start HiRDB.

- If message KFPS05208-E is output:

Based on this message and the KFPS05212-E message, restore the version, addressing mode, and load type for all units to the previous version. After terminating normally in the previous version, upgrade HiRDB.

For details on how to return the version to the previous version and upgrade the version, see the *HiRDB Version 8 Installation and Design Guide*.

In Windows:

- If message KFPS05207-E is output

Refer to that message and to the KFPS05212-E message, set the same version and addressing mode for all units, and then start HiRDB.

- If message KFPS05208-E is output

Refer to that message and to the KFPS05212-E message, and return the version and addressing mode of all units to the previous version. After terminating normally in the previous version, upgrade HiRDB. For details

about how to return values to the previous version and how to upgrade, see the manual *HiRDB Version 8 Installation and Design Guide*.

**KFPS05210-I S+L**

HiRDB system initialization process complete

Initialization of the HiRDB system has been completed.

S: Resumes processing.

**KFPS05211-I L**

Server *aa....aa* is ready to connect

The front-end server (FES) of a HiRDB/Parallel Server was terminated and then was started again. It is now ready to execute connect.

*aa....aa*: Server name

S: Resumes processing.

**KFPS05212-E L**

HiRDB *aa....aa* option information, unit\_id=*bbbb*, version=*cc....cc*, previous operation stop version=*dd....dd*

Displays the version information of option program product *aa....aa* for HiRDB unit *bbbb*.

*aa....aa*: Option program product

- Staticizer Option: HiRDB Staticizer Option
- External Data Access: HiRDB External Data Access
- Advanced High Availability: HiRDB Advanced High Availability
- Advanced Partitioning Option: HiRDB Advanced Partitioning Option
- Non Recover FES: HiRDB Non Recover FES
- Disaster Recovery Light Edition: HiRDB Disaster Recovery Light Edition

*bbbb*: Unit identifier

*cc....cc*: Additional program product version information:

The information is displayed in *vv-rr* format.

*vv*: Additional program product version

*rr*: Additional program product revision

If the version information displayed is 00-00, the additional program product is not included.

*dd....dd*: Additional program product version information from the previous time the unit terminated:

The information is displayed in *vv-rr* format.

*vv*: Additional program product version

*rr*: Additional program product revision

If the version is displayed as 00-00, it indicates that the option program product was not embedded.

S: Terminates abnormally.

#### Action

Take corrective action by referring to the message KFPS05207-E or KFPS05208-E that was output prior to this message.

In UNIX:

- If the KFPS05207-E message is output:

Based on this message and the KFPS05212-E message, set the version, addressing mode, and load type for all units to be the same, and then start HiRDB.

- If the KFPS05208-E message is output:

Based on this message and the KFPS05212-E message, restore the version, addressing mode, and load type for all units to the previous version. After terminating normally in the previous version, upgrade HiRDB.

For details on how to return the version to the previous version and upgrade the version, see the *HiRDB Version 8 Installation and Design Guide*.

In Windows:

- If message KFPS05207-E is output

Refer to that message and to the KFPS05209-I message, set the same version and addressing mode for all units, then start HiRDB.

- If message KFPS05208-E is output

Refer to that message and to the KFPS05209-I message, and return the version and addressing mode of all units to the previous version. After terminating normally in the previous version, upgrade HiRDB. For details about how to return values to the previous version and how to upgrade, see the manual *HiRDB Version 8 Installation and Design Guide*.

#### **KFPS05213-E E+L**

Unit *aa....aa* did not startup

## 2. Messages

Because a unit was not started, the startup of HiRDB was not complete.

*aa...aa*: Unit identifier

S: Terminates abnormally.

Action

Refer to the event log (in UNIX, syslogfile) of the relevant unit or to the message log file, determine the reason that the HiRDB unit was not started, and take action. After that, start either the HiRDB system or the unit.

### **KFPS05214-W E+L**

Fall-back operation ignored, because of *aa...aa*

The HiRDB system cannot perform reduced activation. Ignores the reduced activation mode.

*aa...aa*: Reason code

HiRDB version upped: HiRDB has been upgraded.

dictionary not initialized: The dictionary is not yet initialized.

S: Resumes processing.

Action

If there are no units that cannot be started, no processing is required.

When upgrading HiRDB or initializing the dictionary, start all the units that make up the system.

### **KFPS05215-W L**

HiRDB unit *aaaa* definition error, reason code=*b*

An error was detected in the unit definition.

*aaaa*: Unit identifier

*b*: Error code:

1: System ID is invalid.

2: Host name is invalid.

3: Unit identifier is invalid.

4: Required server is not defined.

5: Unnecessary server is defined.

9: Other error

S: Resumes processing.

Action

If the error code is 1 to 5, check the unit definition according to the displayed code and re-execute the unit. If the error code is 9, contact a customer engineer.

**KFPS05216-I E+L**

Valid option for HiRDB system fall-back operation

The option for the reduced activation of the HiRDB system is specified.

S: Resumes processing.

**KFPS05217-I E+L**

Unit *aa....aa* did not startup; switches to fall-back operation

Because a unit was not started during HiRDB system activation, HiRDB is in reduced-startup mode.

*aa....aa*: Unit identifier

S: Resumes processing.

Action

Check the reason that the HiRDB unit did not start. After taking corrective action, clear the reduced status by starting the HiRDB unit.

**KFPS05218-I E+L**

All unit initialization completed; switches to normal operation

All HiRDB units have been started. The reduced status is cleared and normal operation resumes.

S: Resumes processing.

**KFPS05219-I L**

HiRDB initialization process complete; only for pdrstr and pdcopy

HiRDB startup by pdstart -r has been completed. Only pdrstr can be executed in this mode.

S: Resumes processing.

**KFPS05220-I L**

HiRDB system termination process started. mode=*aa....aa*

HiRDB system termination processing has begun.

*aa....aa*: Termination mode:

FORCE: Forced termination

NORMAL: Normal termination

PLAN: Planned termination

S: Resumes processing.

**KFPS05221-E L**

Error occurred in HiRDB system termination process. mode=*aa...aa*

An error occurred during HiRDB system termination processing.

If the termination mode is `PLAN`, or if Real Time SAN Replication is used for a log application site that is terminating with a termination mode of `NORMAL`, all units other than the system manager are terminated forcibly.

*aa...aa*: Termination mode:

`NORMAL`: Normal termination

`PLAN`: Planned termination

`FORCE`: Forced termination

S: Terminates abnormally.

Action

A termination error or communication error may have occurred at a unit other than the system manager unit. Check the messages output before this message, correct the error, then restart the system.

(Planned termination or normal termination of a log application site when Real Time SAN Replication is used)

Check that all units have terminated, then restart the system.

If there is an active unit, terminate it either by entering the `pdstop -f` command from the system manager unit or by logging directly into the unit and entering the `pdstop -z` command, then restart the system.

The method for determining termination status is to refer to each unit's event log (in UNIX, `syslogfile`); if any of the following messages is output, the unit is terminated:

- KFPS01821-E message
- System manager unit: KFPS01850-I message  
(*termination-mode=FORCE*)
- For a unit that is not a system manager: KFPS01841-I message  
(*termination-mode=FORCE*)

If the cause is unknown, collect the files under `%PDDIR%\spool` on the system manager unit, collect the event log (in UNIX, `syslogfile`), and contact a customer engineer.

**KFPS05222-E L**

Unable to terminate HiRDB unit *aaaa* due to communication error

Unit *aaaa* cannot be terminated due to a communication error.



*aaaa*: Unit identifier

S: Resumes processing.

#### Action

Use one of the following methods to terminate the unit:

- From the unit containing the system manager, use the `pdstop -x` command to specify the appropriate host name
- From the unit containing the system manager, use the `pdstop -u` command to specify the appropriate unit identifier
- Log on directly to the appropriate unit and execute the `pdstop -z` command

If the HiRDB unit cannot be terminated by this command, contact a customer engineer.

#### **KFPS05223-I L**

HiRDB unit *aaaa* inactive, status=*bb*

The status of HiRDB unit *aaaa* is *bb*.

*aaaa*: Unit identifier

*bb*: Status code:

- 10: Being started
- 15: Being started
- 16: Ready for database to be initialized with `pdinit` command
- 20: Unit startup completed
- 21: Front-end server startup completed
- 25: Being terminated
- 30: Terminated normally
- 31: Terminated forcibly
- 32: Terminated abnormally
- 33: Planned termination
- 40: Database is being shut down

S: Resumes processing.

#### Action

If the HiRDB unit cannot be terminated normally by the `pdstop` command, the system displays the cause and the unit status. To terminate the HiRDB unit when it cannot be terminated normally, enter the `pdstop -f` command.

## 2. Messages

If the `pdrisedbto` command terminates with an error or a warning, the status of the unit that caused the error is displayed. If there is an error, and if the `pdrisedbto` command is to be re-executed, use `pdls -d svr` to check the status of the unit, and then restart the stopped unit.

### **KFPS05224-E L**

Error occurred while terminating MGR unit

An error occurred while terminating the unit where the system manager (MGR) is located.

S: Terminates abnormally.

Action

Collect the files under `%PDDIR%\spool` on the system manager unit, collect the event log (in UNIX, `syslogfile`), and contact a customer engineer.

### **KFPS05225-E L**

Error occurred while terminate HiRDB control process

An error occurred while terminating the HiRDB system control process.

S: Terminates abnormally.

Action

Collect the files under `%PDDIR%\spool` on the system manager unit, collect the event log (in UNIX, `syslogfile`), and contact a customer engineer.

### **KFPS05226-E L**

Unable to terminate HiRDB server *aa....aa*

Server with server name *aa....aa* cannot be terminated.

*aa....aa*: Server name

S: Terminates processing.

Action

See the KFPS05180-E message and take appropriate action.

### **KFPS05227-W L**

Now waiting for termination of HiRDB unit *aaaa*

The system is waiting for completion of termination processing at HiRDB unit *aaaa*.

*aaaa*: Unit identifier

S: Resumes processing.

Action

If the same message has been issued more than once with the same unit identifier, it may be taking a long time to terminate the unit for some reason or the unit may

have terminated abnormally. Check the messages output before this message to determine the status of the HiRDB system.

- Unit terminated abnormally:  
Enter the `pdstop -f` command to forcibly terminate the HiRDB system.
- Unit is taking a long time to terminate:  
The following are possible reasons:
  - Transaction recovery processing is under way.
  - Communication error occurred.

**KFPS05230-E S**

Unable to stop *aaaa* normally because *bbbb* being *cccc*

Normal, planned, or forced termination could not be executed for *aaaa* because *bbbb* is engaged in *cccc* processing.

*aaaa*: Type of entity

{ HiRDB|unit|server }

*bbbb*: Type of entity

{ HiRDB|unit|server }

*cccc*: Processing:

started: Startup

terminated: Termination

S: Resumes processing.

O: Re-execute the `pdstop` command after *bbbb* startup or termination processing is completed. Or, terminate *aaaa* forcibly with the `pdstop -f` command. For HiRDB/Parallel Servers, forced termination cannot be executed using the `pdstop -f -x host-name` command or the `pdstop -f -u unit-identifier` command.

**KFPS05231-E S**

Unable to stop server due to server is inactive

The server cannot be stopped because it is inactive.

S: Resumes processing.

**KFPS05232-E S**

Unable to stop unit due to unit is inactive

The unit cannot be stopped because it is inactive or is already stopped.

S: Resumes processing.

**KFPS05233-E S**

Unable to stop HiRDB system normally due to user identifier remained

The HiRDB system cannot be terminated normally because a UAP or utility is executing or a transaction has not terminated.

S: Terminates processing.

O: Re-execute the `pdstop` command after the UAP or utility has terminated or the transaction has terminated.

To check the user causing this error, display user information by entering the `pdls -d act` command. Next, identify the user or transaction causing the error by checking the information displayed by the `pdls -d prc` or `pdls -d trn` command on the basis of the displayed user identification sequence number and process ID. If there is no applicable user or transaction, wait a while, then re-execute the command.

**KFPS05234-E S**

Unable to stop unit due to user identifier remained

The HiRDB unit cannot be terminated normally because a UAP or utility is executing or a transaction has not terminated.

S: Terminates processing.

O: Re-execute the `pdstop` command after the UAP or utility has terminated or the transaction has terminated.

To check the user causing this error, display user information by entering the `pdls -d act` command. Next, identify the user or transaction causing the error by checking the information displayed by the `pdls -d prc` or `pdls -d trn` command on the basis of the displayed user identification sequence number and process ID. If there is no applicable user or transaction, wait a while, then re-execute the command.

**KFPS05235-E S**

Unable to stop server due to user identifier remained

The HiRDB server cannot be terminated normally because a UAP or utility is executing or a transaction has not terminated.

S: Terminates processing.

O: Re-execute the `pdstop` command after the UAP or utility has terminated or the transaction has terminated.

To check the user causing this error, display user information by entering the `pdls -d act` command. Next, identify the user or transaction causing the error by checking the information displayed by the `pdls -d prc` or `pdls -d trn` command on the basis of the displayed user identification sequence number and

process ID. If there is no applicable user or transaction, wait a while, then re-execute the command.

**KFPS05236-E L+S**

Unable to stop HiRDB system normally, because unit *aaaa* stop failed

The system was unable to perform a normal termination or a planned termination of HiRDB because termination processing of unit *aaaa* failed.

*aaaa*: Identifier of unit for which termination processing failed

S: Continues processing.

**Action**

Determine why termination processing of unit *aaaa* failed. Unit *aaaa* may be running. Execute the `ps` command to determine whether any HiRDB processes are executing, and if necessary use the `pdstop -z` command to forcibly terminate unit *aaaa*.

**KFPS05240-E E+L**

`Pdrplstart` command failed. reason=*aa...aa*

Error occurred while executing the `pdrplstart` command.

*aa...aa*: Character string indicating the type of error

SYSTEM INCOMPLETE:

System startup is not complete.

ANY UNIT INACTIVE:

The status of one or more units is inactive.

ANY BES INACTIVE:

The status of one or more back-end servers is inactive.

UTL UNIT: The system is unable to run on the UTL unit.

STARTED:

HiRDB Datareplicator linkage is already running.

PD\_RPL\_HDEPATH:

HiRDB Datareplicator linkage cannot run in the current environment.

TIMEOUT:

An execution time-out occurred.

STATUS WRITE ERROR:

Writing of the status file failed.

## 2. Messages

STOPPING NOW:

HiRDB Datareplicator linkage is being stopped.

EXTRACT STOPPED:

HiRDB Datareplicator extraction processing was interrupted.

S: Terminates processing.

Action

Take action appropriate to the type of error. If the displayed information is none of the character strings shown above, contact a customer engineer.

Error indicator character string	Explanation	Action
SYSTEM INCOMPLETE	System startup was not completed.	Re-execute the command after system startup has been completed.
ANY UNIT INACTIVE	Some units were not on ACTIVE status.	Restart all inactive units and re-execute the command.
ANY BES INACTIVE	Some back-end servers were not on ACTIVE status.	Restart all inactive back-end servers and re-execute the command.
UTL UNIT	Requested processing cannot be executed at the UTL unit.	—
STARTED	HiRDB Datareplicator linkage was already executing.	—
PD_RPL_HDEPATH	HiRDB Datareplicator linkage cannot be executed in this environment.	Specify the <code>pd_rpl_hdepath</code> operand in the unit control information definition, restart HiRDB, then re-execute the command.
TIMEOUT	Execution timeout occurred.	Re-execute the command.
STATUS WRITE ERROR	Write error occurred in the status file.	Check that the <code>pd_rpl_hdepath</code> operand is specified correctly in the system common definition. Or, check that there is a file for data linkage.
STOPPING NOW	HiRDB Datareplicator linkage was terminating.	Re-execute the command after HiRDB Datareplicator linkage has terminated at all units.
EXTRACT STOPPED	Data extraction processing by HiRDB Datareplicator was cancelled.	Initialize the file for data linkage and re-execute the command.

— : Not applicable

**KFPS05241-E E+L**

`pdrplstop` command failed, reason=*aa....aa*

An error occurred while the `pdrplstop` command was executing.

*aa....aa*: Error type

S: Terminates processing.

**Action**

Re-execute the `pdrplstop` command after taking one of the following actions.  
Contact a customer engineer if an error type not described in the manual is output.

<b>Error type</b>	<b>Error description</b>	<b>Action</b>
UTL UNIT	Cannot be executed by a utility special unit.	The <code>pdrplstop</code> command cannot be executed on a utility special unit.
STOPPED	Replication with HiRDB Datareplicator already stopped.	The <code>pdrplstop</code> command cannot be executed because replication with HiRDB Datareplicator already stopped.
PD_RPL_HDEPATH	The <code>pd_rpl_hdepath</code> operand was not specified.	Specify the <code>pd_rpl_hdepath</code> operand. After starting the HiRDB system, re-execute the <code>pdrplstop</code> command.
TIMEOUT	Execution time was exceeded.	Re-execute the <code>pdrplstop</code> command.
STATUS WRITE ERROR	An attempt to write the status file failed.	Check if the specification of the <code>pd_rpl_hdepath</code> operand is correct, and then re-execute the <code>pdrplstop</code> command. Alternatively, after checking that data linkage files exist, re-execute the <code>pdrplstop</code> command.
ANY UNIT INACTIVE	There are inactive units.	Start inactive units, and then re-execute the <code>pdrplstop</code> command.
ANY BES INACTIVE	There are inactive back-end servers.	Start inactive back-end servers, and then re-execute the <code>pdrplstop</code> command.

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Error type	Error description	Action
EXTRACTING STATUS	Extraction processing of HiRDB Datareplicator is not complete.	See the KFPS05243-W message output before this message, and then take appropriate action.
FILE LOCK ERROR	A reference privilege or update privilege could not be acquired for a data linkage file used by HiRDB Datareplicator.	
FILE OPEN ERROR	A data linkage file used by HiRDB Datareplicator could not be opened.	
COMMUNICATION	An inter-process communication error occurred.	Check for the cause of the network error on the unit where the communication error occurred.
BUSY	The command could not be executed because the service request destination server was processing.	See the KFPS05244-W message output immediately before this message, and then take appropriate action.

### **KFPS05242-I E+L**

Accepted data replication stop request

HiRDB Datareplicator linkage termination request has been accepted.

S: Resumes processing.

### **KFPS05243-W E+L**

Unable to stop data replication, server=*aa...aa*, reason=*bb...bb*

Data replication with HiRDB Datareplicator could not be stopped.

*aa...aa*: Server name

*bb...bb*: Reason code

S: Continues processing.

Action

Re-execute the `pdrplstop` command after taking the appropriate actions.



Reason code	Error description	Action
EXTRACTING STATUS	Extraction processing by HiRDB Datareplicator is not complete.	Check all of the following items, and then re-execute the <code>pdrplstop</code> command: <ol style="list-style-type: none"> <li>1. Check if the <code>hdestate</code> command of HiRDB Datareplicator started the extraction process. If the extraction process is not running, start the extraction process, and then check item 2.</li> <li>2. Check if extraction processing by HiRDB Datareplicator is complete. Extraction processing is complete if the following conditions are all met: <ul style="list-style-type: none"> <li>• No transactions are active Execute the <code>pdls -d trn</code> command to check for active transactions.</li> <li>• The system block number being extracted is the last block number of the current file Execute the <code>pdls -d rpl -j</code> command to check the system log block number being extracted. Also, execute the <code>pdlogls -d sys</code> command to check the last block number of the current file.</li> </ul> </li> </ol>
BES INACTIVE	Inactive back-end server(s) found.	Start the inactive back-end server(s), and then re-execute the <code>pdrplstop</code> command.
FILE LOCK ERROR	A reference privilege or update privilege could not be acquired for a data linkage file used by HiRDB Datareplicator.	HiRDB Datareplicator has exclusive ownership of the data linkage file. Investigate the cause, and then re-execute the <code>pdrplstop</code> command.
FILE OPEN ERROR	A data linkage file used by HiRDB Datareplicator.	Either the data linkage file has been deleted or it could not be opened due to a disk error. Synchronize to the target database, re-create the data linkage file, and then restart HiRDB Datareplicator and HiRDB.

**KFPS05244-W E+L**

Unable to stop data replication, `unit=aaaa`, `reason=bb...bb`

Data replication with HiRDB Datareplicator could not be stopped.

*aaaa*: Unit identifier

*bb...bb*: Reason code

S: Terminates processing.

Action

Take action according to the following table, and then re-execute the `pdrplstop` command.

## 2. Messages

Reason code	Error description	Action
UNIT_INACTIVE	There are inactive units.	Start inactive units, and then re-execute the <code>pd_rpl_stop</code> command.
COMMUNICATION	An inter-process communication error occurred.	Check for the cause of the network error on the unit where the communication error occurred.
PD_RPL_HDEPATH	The <code>pd_rpl_hdepath</code> operand was not specified.	Specify the <code>pd_rpl_hdepath</code> operand.
BUSY	The command could not be executed because the service request destination server is processing.	Re-execute the <code>pd_rpl_stop</code> command.

### **KFPS05245-W E+L**

Unit stopped for fall-back operation exists. Do not create target database from stopped unit, `unit=aaaa`

Some units were not started because of reduced activation. Do not re-create the target database based on the database of a unit that was not started because of reduced activation.

`aaaa`: Unit identifier

S: Continues processing.

### **KFPS05246-E L**

Unable to start HiRDB system, because `pd_rpl_hdepath` not matched between units

HiRDB cannot be started, because `aa...aa` does not match between units.

`aa...aa`: Information that does not match between units

`pd_rpl_hdepath`: HiRDB Datareplicator working directory

`start option`: HiRDB startup mode

S: Terminates abnormally.

Action

- `aa...aa` is `pd_rpl_hdepath`

Refer to the `KFPS05247-E` message, and match the value of the `pd_rpl_hdepath` operand of the unit using the standby-less system switchover (effects distributed) facility. Then, start HiRDB.

- *aa...aa* is start option

If Real Time SAN Replication with the log-only synchronous method is used, depending on the site status of each site, match either the `pdstart` command or the `pdstart -l` command.

**KFPS05247-E L**

HiRDB unit information, `unit_id = aaaa, bb...bb`

Information on unit *aaaa* is displayed.

*aaaa*: Unit identifier

*bb...bb*: Unit information

`pd_rpl_hdepath`:

Value of the `pd_rpl_hdepath` operand (name of the HiRDB Datareplicator directory where data is extracted)

If this operand is omitted, (null) is displayed.

start option:*dd...dd*

*dd...dd*: Unit start status

- "primary": Execution
- "standby": Log application

S: Abnormally terminates.

Action

"`pd_rpl_hdepath`" is displayed

Set the value of the `pd_rpl_hdepath` operand to the same value for the units using the standby-less system switchover (effects distributed) facility. Then, start HiRDB.

"start option" is displayed

Make sure that the startup mode is the same for all units where Real Time SAN Replication with the log-only synchronous method is used.

**KFPS05248-E L**

Unable to start unit *aaaa* due to `pd_ha_agent` operand invalid

HiRDB cannot be started because the `pd_ha_agent` operand of unit *aaaa* is invalid. The value of the `pd_ha_agent` operand of unit *aaaa* may have been changed from the standby-less system switchover (effects distributed) facility to another system switchover facility.

*aaaa*: Unit identifier

S: Terminates processing.

Action

Check the value of the `pd_ha_agent` operand of unit *aaaa*. If the unit is using the standby-less system switchover (effects distributed) facility and the server abnormally terminated, the value of the `pd_ha_agent` operand cannot be changed. Specify `activeunits` in the `pd_ha_agent` operand, and start HiRDB.

**KFPS05249-E L**

*aa....aa* invalid; stops unit startup, `unit_id = bbbb`

During restart processing of unit *bbbb*, the contents of *aa....aa* did not match that for normal startup.

*aa....aa*: Error cause

`pdhagroup`: `pdhagroup` operand

*bbbb*: Unit identifier

S: Abnormally terminates.

Action

Check the value of the `pdhagroup` operand. If the system manager unit did not terminate normally, the `pdhagroup` operand cannot be changed. Return it to normal startup status, and start HiRDB.

**KFPS05250-I L**

`Pdvrup` command will be executed automatically

The `pdvrup` command will be activated automatically.

S: Continues processing.

**KFPS05251-W L**

Waiting for server start, `server = aa....aa`

The system is waiting for the server to start.

*aa....aa*: Name of the server that is waiting to start

S: Continues processing.

Action

On the standby-less system switchover (effects distributed) target unit, use the cluster software commands<sup>1</sup> to check the status of the server indicated in the message.

If the server is not displayed for any unit:

Select the unit to start the running system server, and activate<sup>2</sup> the server as

the running system server.

If the server is waiting to be activated as the running server:

Activate<sup>2</sup> the server as the running system server.

If there is a unit activating the running system server:

The wait is released as the server is activated. Nothing in particular is required.

If none of this is applicable, contact a customer engineer.

<sup>1</sup> If the cluster software is HA monitor, enter the `monshow` command; if it is Hitachi HA Toolkit Extension, enter the `hateshow` command.

<sup>2</sup> If the cluster software is HA monitor, enter the `monact` command; if it is Hitachi HA Toolkit Extension, enter the command to activate the upper-level cluster software package (such as MC/ServiceGuard).

**KFPS05260-I L+S**

HiRDB system initialization process complete on standby site

Startup processing on the log application site HiRDB has finished.

S: Continues processing.

**KFPS05261-W L**

Database take over skipped, `unit_id=aaaa`, `server=bb...bb`

Database inheritance was skipped.

*aaaa*: Unit identifier

*bb...bb*: Server name

S: Continues processing.

Action:

If switchover to a transaction execution site occurs when database inheritance was skipped, the data cannot be guaranteed on the server that output the message.

Refer to the section on site switchover in the manual *HiRDB Version 8 Disaster Recovery System Configuration and Operation Guide*, and take the actions necessary to perform site switchover.

**KFPS05262-E L**

Error occurred in HiRDB unit *aaaa* database take over process, `reason code=bb...bb`

An error occurred during database inheritance. All units were terminated forcibly.

*aaaa*: Unit identifier

*bb...bb*: Error code

COMMUNICATION: Error in communication with another unit

STOP (A) : STOP (A) Notification

INTERNAL ERROR: Internal processing error

S: Terminates abnormally.

Action: Ensure that all units have terminated, and then check the message that was output before this message. Eliminate the cause of the error, and then start the log application site HiRDB.

If there are still units that have not terminated, either execute the `pdstop -f` command from the system manager unit or execute the `pdstop -z` command from the units that have not terminated. After all units have terminated, start the log application site HiRDB.

The method for determining running status is to check each unit's event log (in UNIX, `syslogfile`). If any of the following messages is output, the unit is terminated:

- KFPS01821-E message
- System manager unit: KFPS01850-I (*termination-mode*="FORCE") message
- Other than the system manager unit: KFPS01841-I (*termination-mode*="FORCE") message

If the cause cannot be determined, save the files under `$PDDIR/spool` for this unit, save the event log (in UNIX, `syslogfile`), and contact a customer engineer.

**KFPS05263-W L**

Necessary to prepare for applying system log, *reason=aa...aa*

On the transaction execution site, *aa...aa* was executed. When *aa...aa* is executed, the following results might occur on the log application site:

- The log application site fails to respond.
- The log application site units shut down.
- When a site switchover to the log application site is performed, data may be lost.

*aa...aa*: Operation performed on the transaction execution site

`pdinit`: Database initialization utility

`pdstart dbdestroy`: HiRDB forcible startup

`pdvrup`: HiRDB version upgrade

S: Continues processing.

Action: Refer to the manual *HiRDB Version 8 Disaster Recovery System Configuration and Operation Guide*, and perform preparation for log application.

**KFPS05288-I L**

HiRDB unit *aaaa* status change to ACTIVE

Because the running status of STOP (A) unit *aaaa* has been confirmed, the status of the unit is changed to ACTIVE.

*aaaa*: Unit name

S: Resumes processing.

**KFPS05289-E L**

HiRDB unit *aaaa* status change to STOP (A)

Communication with unit *aaaa* or data reception from unit *aaaa* failed. Or, a status in which the client cannot connect to unit *aaaa* was detected. The status of unit *aaaa* is changed to STOP (A) .

*aaaa*: Unit name

S: Resumes processing.

**Action**

Execute the `ps` command at unit *aaaa* to determine the status of the HiRDB process (whether or not it is active).

If the HiRDB process is active, a communication error or a service slowdown in unit *aaaa* may have occurred. Check the cause of the error based on the message output before this message, stop the unit by entering `pdstop -z`, then restart the unit.

While the HiRDB process is inactive, either a system switchover or abnormal termination could have occurred. If abnormal termination occurred, take action according to the message that was output. To restart the HiRDB process, execute either the `pdstart -x` or `pdstart -u` command.

**KFPS05290-E L**

Communication error occurred, from host *aa....aa* to host *bb....bb*, processing code=*ccc*

An error occurred during communication from host *aa....aa* to host *bb....bb*.

*aa....aa*: Host name

*bb....bb*: Host name

*ccc*: Code being processed (HiRDB internal code)

S: Resumes processing or terminates abnormally, depending on the status.

**Action**

## 2. Messages

1. If this message is issued during HiRDB startup, a HiRDB unit other than the system manager (MGR) may not be active. Start the applicable HiRDB unit.
2. Otherwise, contact a customer engineer.

### **KFPS05291-E L**

Communication error occurred, to host=*aa....aa* processing code=*bbb*  
reason code=*ccc*

An error occurred during communication to host *aa....aa*.

*aa....aa*: Host name

*bbb*: Code being processed (HiRDB internal code)

*ccc*: Reason code (HiRDB internal code)

S: Resumes processing or terminates abnormally, depending on the status.

#### Action

Take action appropriate to the code that is being processed and the reason code:

Reason code	Action
840	The unit of host <i>aa....aa</i> may be inactive. If so, start the unit. If the unit is not running in reduced mode, this message may be ignored. If this message is output even though the unit is running, a communication error has occurred. See <i>4.1 Detail codes for RPC-related errors</i> , and check whether a communication error has occurred.
940	
1040	
1140	
1440	
1640	
1840	
2140	
2240	
2340	
2440	
2450	
2500	
2840	
2940	
3040	



Reason code	Action
3200	
3740	
4140	
4240	
Other	Contact a customer engineer.

**KFPS05292-I L**

Unit *aaaa* inactive

Unit *aaaa* is not on normal active status.

*aaaa*: Unit identifier

S: Terminates processing.

Action

Take action appropriate to the unit status.

**KFPS05293-E L**

Unable to access shared memory

Shared memory cannot be accessed during execution of the `pdls` command.

S: Terminates processing.

Action

Start the corresponding host and enter the `pdls` command.

**KFPS05300-I E+L**

Now preparing for statistics log service. run ID=*aaaaaaaa*

Preparation is underway for the statistics log service function.

*aaaaaaaa*: Run ID

S: Resumes processing.

**KFPS05303-E E+L**

Unable to start statistics log service. reason code=*aaaa*

The statistics log service function cannot be started for the displayed reason (*aaaa*).

*aaaa*: Reason code:

101: Memory shortage

103: Communication error

## 2. Messages

401: Undefined error

405: Definition error

514: til start failure

S: Terminates processing.

O: Contact the HiRDB administrator, take action appropriate to the reason code, then restart the HiRDB system.

Action

Take action appropriate to the reason code.

### **KFPS05304-I L**

Specified `pd_stj_file_size` is too small; sets `pd_stj_file_size` at 1024 and continues processing

The value of the `pd_stj_file_size` operand was too small, so it was rounded up to 1024 KB and processing continues.

The value of the `pd_stj_file_size` operand must satisfy the following condition:

`pd_stj_file_size`  $\geq$  `pd_stj_buff_size`  $\times$  2

S: Continues processing.

Action

Once HiRDB has terminated, change the `pd_stj_file_size` operand value.

### **KFPS05308-W E+L**

Error occurred while terminating statistics log service; continues processing. reason code=*aaaa*

An error occurred while terminating the statistics log service function, but processing continues.

*aaaa*: Reason code:

103: Communication error

S: Resumes processing.

### **KFPS05321-E E+L**

Insufficient memory. required memory size=*aa...aa*, area type=*bb...bb*

A memory shortage occurred. The message displays the size and type of the memory that was to be allocated.

*aa...aa*: Size of memory that was to be allocated

*bb...bb*: Type of memory:

STATIC\_SHMPOOL: Static shared memory

S: Terminates processing.

O: Contact the HiRDB administrator, take appropriate action, then restart the HiRDB system.

Action

Increase the shared memory available to the system.

**KFPS05350-W E+L**

Failure to open statistics log file. file name=*aa....aa*, reason code=*bbbb-cc*

Statistics log file open processing failed.

*aa....aa*: Name of the statistics log file

*bbbb*: Reason code:

303: Open system call error

*cc*: HiRDB internal code

S: Terminates processing.

O: Contact the HiRDB administrator, eliminate the cause of the error, then re-execute.

Action

Determine the cause of the error from the preceding KFPO00107-E message and take appropriate action.

**KFPS05351-W E+L**

Failure to close statistics log file. file name=*aa....aa*, reason code=*bbbb-cc*

Statistics log file close processing failed.

*aa....aa*: Name of the statistics log file

*bbbb*: Reason code:

304: Close system call error

*cc*: HiRDB internal code

S: Resumes processing.

O: Contact the HiRDB administrator and eliminate the cause of the error.

Action

Eliminate the cause of the error indicated by the reason code.

**KFPS05352-W E+L**

Failure to write statistics log file. file name=*aa....aa*, reason code=*bbbb-cc*

## 2. Messages

Output to a statistics log file failed.

*aa....aa*: Name of the statistics log file

*bbbb*: Reason code:

305: Write system call error

*cc*: HiRDB internal code

S: Resumes processing.

O: Contact the HiRDB administrator and eliminate the cause of the error.

Action

Determine the cause of the error from the preceding KFPO00107-E message and take appropriate action.

### **KFPS05353-E E+L**

Error occurred while handling statistics log file. file name=*aa....aa*, reason code=*bbbb-cc*

An error occurred while handling a statistics log file.

*aa....aa*: Name of the statistics log file

*bbbb*: Reason code:

103: Communication error

*cc*: HiRDB internal code

S: Terminates processing.

Action

Eliminate the cause of the error indicated by the reason code.

### **KFPS05354-E E+L**

Error occurred while handling statistics log file. reason code=*aaaa-bb*

An error occurred while handling a statistics log file.

*aaaa*: Reason code:

101: Memory shortage

103: Communication error

105: Timeout (communication)

*bb*: HiRDB internal code

S: Terminates processing.

O: Contact the HiRDB administrator, have the cause of the error eliminated, and then

re-execute.

Action

Eliminate the cause of the error indicated by the reason code.

**KFPS05355-I E+L**

Statistics log file swapped. from=*aa....aa*, to=*bb...bb*, unit ID=*cccc*

Statistics log files were swapped.

*aa....aa*: Name of the old file (before swapping)

*bb...bb*: Name of the new file (after swapping)

*cccc*: Unit identifier

S: Resumes processing.

**KFPS05360-W L**

Cancels statistics output. unit ID=*aaaa*

Unit *aa....aa* has stopped collecting statistical information.

An error message concerning the statistics log file has been output immediately before this message; see that message for the cause of the error.

*aaaa*: Unit identifier

S: Terminates processing.

Statistical information that was in the buffer when this message was output and that was to be written into the statistics log file has been discarded.

Action

If the statistical information is not needed for the unit displayed in the message, operation can be continued. If the statistical information is needed, terminate the applicable unit, eliminate the immediate cause of the error indicated by the message output immediately before this message. Then, execute the `pdstjswap` command for the unit or restart the unit and resume collection of statistical information.

**KFPS05361-W L**

Already canceled statistics output. unit ID=*aaaa*

Output of statistical information for unit *aaaa* has already been terminated due to a previous error.

*aaaa*: Unit identifier

S: Resumes processing.

Statistical information that was in the buffer when this message was output and that was to be written into the statistics log file has been discarded.

Action

If the statistical information is not needed for the displayed unit, operation can be continued. If the statistical information is needed, terminate the corresponding unit, eliminate the cause of the error indicated by the message output immediately before this message, restart the unit, then restart collection of statistical information.

**KFPS05362-W L**

Unable to cancel statistics output. unit ID=*aaaa*

Statistical information collection cannot be stopped for unit *aaaa*.

An error message concerning the statistics log file has been output immediately before this message; see that message for the cause of the error.

*aaaa*: Unit identifier

S: Resumes processing.

Statistical information that was in the buffer when this message was output and that was to be written into the statistics log file has been discarded.

Action

Enter the `pdstend` command to terminate collection of statistical information. If the statistical information is not needed for the displayed unit, operation can be continued. If the statistical information is needed, terminate the corresponding unit, eliminate the cause of the error indicated by the message that was output immediately before this message, restart the unit, then restart collection of statistical information.

**KFPS05370-I E**

Usage: `pdstjswap [-x host_name| -u unit_id]`

Displays the format of the `pdstjswap` command.

S: Continues processing.

**KFPS05372-E E**

One of *aa...aa* option must be specified.

One of the indicated options must be specified.

*aa...aa*: Options

S: Terminates processing.

O: Specify an option and re-execute the command.

**KFPS05373-E E**

Unable to execute command due to failure of *aa...aa* system call (command), code= *bb...bb*

Command cannot be executed because of an error in system call (or command)  
*aa....aa*.

*aa....aa*: Name of the system call or command in which the error occurred:

{ `exec` | `fork` | `rsh` }

*bb....bb*: Internal code corresponding to the return value of the system call or `rsh`

S: Terminates processing.

Action

Determine cause of the error from the preceding KFPO00107-E message and take appropriate action.

**KFPS05374-E E**

Specified hostname invalid in "pdstart" operand

The host name specified in the `pdstart` operand in the system definition is invalid.

S: Terminates processing.

O: Correct the host name specified in the `pdstart` operand in the system definition.

**KFPS05375-E E**

Hostname must be equal to SDS hostname for single server.

For a HiRDB/Single Server, the host name that is specified must be the host name of the single server. Because there is only one single server host for a HiRDB/Single Server, the specification may be omitted. This message is output when a host name is specified but that name is invalid.

S: Terminates processing.

O: Omit the host name or specify the correct host name, and then re-execute the command.

**KFPS05381-E E**

Insufficient memory

A memory shortage occurred.

S: Terminates processing.

O: Re-examine the number of processes, take appropriate action, and re-execute.

**KFPS05393-E E**

Communication error occurred. info=*aa....aa*

A communication error occurred during command execution.

*aa....aa*: Maintenance information

S: Terminates processing.

## 2. Messages

O: Eliminate the cause of the communication error, then re-execute the command.

### Action

If a message that shows the cause of the communication error was output immediately before this message, take the action indicated in the message to eliminate the cause of the communication error. If no message that displays the cause of the communication error was output, save the maintenance information and contact a customer engineer.

#### **KFPS05394-E E**

Unit state not online. info=aa...aa

The unit is not online.

aa...aa: Maintenance information

S: Terminates processing.

O: If the unit is not running, start the unit and re-execute the command.

### Action

If this message is output, even though the unit is running, save the maintenance information and contact a customer engineer.

#### **KFPS05395-E E**

Statistics log service is inactive. info=aa...aa

The statistics log is not being acquired for this unit.

aa...aa: Maintenance information

S: Terminates processing.

O: Start acquisition of the statistics log and re-execute the command.

### Action

If this message is output, even though the statistics log is being acquired for this unit, save the maintenance information and contact a customer engineer.

#### **KFPS05396-W E**

Statistics log file not deleted.

Swap processing of the statistics log file has terminated, but the statistics log file could not be deleted. Consider the following causes:

- There was an attempt to delete the statistics log file that is currently being output
- The statistics log file to be deleted is being used by another program or command

S: Continues processing.

O:



If the statistics log file was deleted, subsequent swapping of the statistics log file may not perform normally. If statistical information is being acquired, stop the acquisition of statistical information before swapping the statistics log file. If statistical information is not to be acquired, suppress the acquisition of statistical information. To acquire statistical information, stop and then restart HiRDB.

If the statistics log file is in use by another program or command, inherited statistical information can be acquired. However, because the statistics log file to be deleted is not deleted, be careful when unloading or editing it.

#### Action

If the reason indicated in the message explanation is not appropriate, contact a customer engineer when this message is output.

#### **KFPS05397-E E**

Unexpected error occurred. info: (aa....aa:bbbb) cc....cc

An unexpected error occurred.

aa....aa: Maintenance information

bbbb: Maintenance information

cc....cc: Maintenance information

S: Abnormally terminates.

#### Action

Save the maintenance information and contact a customer engineer.

#### **KFPS05398-E E**

Statistics log file can not open

The statistics log file could not be opened during command execution. Consider the following causes:

- There is a shortage in the file system area.
- The swap target statistics log file cannot be overwritten (there is no write privilege for the statistics log file or the directory that stores the statistics log file).

S: Terminates processing.

O:

If this message is output, statistical information cannot be acquired. If statistical information is being acquired, immediately stop the acquisition of statistical information. If statistical information is not being acquired, suppress statistical information acquisition.

If the cause is a file system area shortage, delete any unnecessary files in the file system. If the swap target statistics log file cannot be overwritten, enable the

overwriting attribute of the statistics log file.

After taking appropriate measures, execute the `pdstjswap` command to restart acquisition of statistical information.

Action

If the reason indicated in the message explanation is not appropriate, contact a customer engineer when this message is output.

**KFPS05600-I L**

HiRDB unit *aaaa* prepare for starting. status=*bb...bb*

Preparations are underway to start unit *aaaa*.

*aaaa*: Unit identifier

*bb...bb*: Unit status:

ACCEPT pdstart

The `pdstart` command has been accepted.

FIX SHARED MEMORY

Fixing of shared memory page has started.

CREATE PIPE FILE

Creation of a pipe file has started.

S: Continues processing.

**KFPS05601-I L**

This program is HiRDB/Workgroup Server

This program is HiRDB/Workgroup Server.

S: Continues processing.

**KFPS05602-I L**

HiRDB Option = *aa...aa*, unit\_id = *bbbb*, version = *cc...cc*

Displays the embedded option program product names. This message is output during normal starting or restarting of a unit. During restart, this message shows the previous environment.

*aa...aa*: Option program product names

- Staticizer Option: HiRDB Staticizer Option
- External Data Access: HiRDB External Data Access
- Advanced High Availability: HiRDB Advanced High Availability
- Advanced Partitioning Option: HiRDB Advanced Partitioning Option

- Non Recover FES: HiRDB Non Recover FES
- Disaster Recovery Light Edition: HiRDB Disaster Recovery Light Edition

*bbbb*: Unit identifier

*cc....cc*: Option program product names (*vv-rr*)

Displays the version (*vv*) and revision (*rr*) of the option program product.

S: Continues processing.

Action: Check the execution environment.

**KFPS05603-I L**

Server *aa....aa* starting on unit *bbbb*

On unit *bbbb*, server *aa....aa* was started as the running system.

*aa....aa*: Name of the server started as the running system

*bbbb*: Identifier of the server start target unit

S: Continues processing.

**KFPS05605-W L**

No more guest servers activatable on unit *aaaa*, number of active guest servers reached `pd_ha_max_act_guest_servers`

Because there is no free guest area, unit *aaaa* cannot receive any more guest BES's.

*aaaa*: Identifier of the unit for which there is no free guest area

S: Continues processing.

**KFPS05606-W L**

Unable to activate server *aa....aa* on unit *bbbb*, number of act guest servers over `pd_ha_max_act_guest_servers`

Because there is no free guest area on unit *bbbb*, server *aa....aa* could not become the running system on unit *bbbb*.

*aa....aa*: Name of the server that cannot become the running system

*bbbb*: Identifier of the unit with no free guest area

S: Continues processing.

Action

Use one of the following methods to check whether the corresponding server is operating as the running system on another unit in the HA group:

- Check whether this message is followed by a KFPS01813-I message output to another unit in the HA group.

## 2. Messages

- Execute the `pdls -d ha` command.
- Execute the `pdls -d svr` command.

If the corresponding server is not operating as the running system, see the message output to the system manager unit or to each unit. Take the indicated action as necessary, and then start the server.

### **KFPS05607-I L**

```
HiRDB server aa....aa stop request issued from HA monitor;stops  
HiRDB server aa....aa, reason=bb....bb
```

Server *aa....aa* was stopped because a stop request was issued from the HA monitor or the Hitachi HA Toolkit Extension.

*aa....aa*: Name of the server to be stopped

*bb....bb*: HiRDB internal stop reason code

S: Abnormally terminates.

O: See the HA monitor or Hitachi HA Toolkit Extension message.

### **KFPS05608-I L**

```
HiRDB server aa....aa restart request issued from HA monitor;stop  
HiRDB server aa....aa temporarily, reason=bb....bb
```

Server *aa....aa* stopped because a restart request was issued from the HA monitor or Hitachi HA Toolkit Extension.

*aa....aa*: Name of the stopped server

*bb....bb*: HiRDB internal stop reason code

S: Stops and restarts the server.

O: After this message is output, check the server running status using the `pdls -d ha` (or `pdls -d ha -a`) command from the system manager unit. If the server has not restarted, depending on the error cause it may not be able to start. See any messages output after this message, and take any indicated action.

### **KFPS05609-I L**

```
HiRDB server aa....aa start mode determined, start mode:bb....bb
```

The server start mode has been determined.

*aa....aa*: Server name

*bb....bb*: Start mode

R: Restart

R(P): Restart after planned termination

S: Normal start

S: Continues processing.

**KFPS05610-I E+L**

Server *aa....aa* is placed in the starting wait state

Server *aa....aa* is in running system server starting wait state.

*aa....aa*: Server name

S: Continues processing.

O: The running system server is not activated. Either start the running system server, or use the HA monitor or Hitachi HA Toolkit Extension command to activate it as the running system server.

**KFPS05611-I E+L**

Server *aa....aa* is placed in the standby state

Server *aa....aa* is placed in standby state.

*aa....aa*: Server name

S: Continues processing.

**KFPS05612-I E+L**

Unable to recognize HiRDB server *aa....aa* initialization completion

Completion of server *aa....aa* initialization processing cannot be recognized using the `pdstart` command.

Or, for whatever reason, the server cannot be activated.

S: Continues processing.

O:

Server activation took too much time or failed. Enter the `pdls` command to check the server running state.

- If the server is activating

Wait a period of time, and then re-enter the `pdls` command to check the system status. If server initialization processing has not completed, check the messages to determine if there may be another cause.

- If the server is stopping

An error may occur during server activation, preventing the server from activating. Check the messages in the message log file and the event log (in UNIX, `syslogfile`), and investigate the cause of the server activation failure. If there are no messages, the reason that the server could not be activated may be that there are no unused guest areas in the unit. Use the `pdls -d ha` command to check the number of unused guest areas in the unit from the number of guest back-end servers running in the unit and the value of the

`pd_ha_max_act_guest_servers` operand. If the number of guest back-end servers running in the unit reaches the value of the `pd_ha_max_act_guest_servers` operand, start the back-end server on another unit.

If the reason cannot be determined, contact a customer engineer.

If server activation processing always takes a lot of time, specify the time required for system activation in the `pd_system_complete_wait_time` operand, and terminate it normally with the `pdstart` command.

**KFPS05613-W E+L**

Too big "pd\_ha\_max\_act\_guest\_servers". Max value assumed, reason code = *aa....aa*, unit = *bbbb*, original value = *cc....cc*, assumed value = *dd....dd*

A value greater than the maximum was specified in the `pd_ha_max_act_guest_servers` operand. The maximum value is assumed.

*aa....aa*: Reason code

SERVER LIMIT:

The total of the value specified in the unit control information definition `pd_ha_max_act_guest_servers` operand and the number of host BES's exceeds the maximum number of servers in a unit. Specify a value in the `pd_ha_max_act_guest_servers` operand that does not exceed the maximum number of servers in a unit.

GUEST BES COUNT:

The value set in the unit control information definition `pd_ha_max_act_guest_servers` operand exceeds the maximum number of guest BES's. Set the number of BES's in the `pd_ha_max_act_guest_servers` operand.

*bbbb*: Unit identifier

*cc....cc*: Value specified in the unit control information definition `pd_ha_max_act_guest_servers` operand

*dd....dd*: The value set in the `pd_ha_max_act_guest_servers` operand based on internal calculation

S: Continues processing.

Action

Consider the following explanations on the basis of the reason code, and consider whether the specification of the unit control information definition `pd_ha_max_act_guest_servers` operand is correct.

**SERVER LIMIT:** The total of the value specified in the `pd_ha_max_act_guest_servers` operand and the number of host BES's inside the unit exceeds the maximum. Specify a value in the `pd_ha_max_act_guest_servers` operand that does not exceed the maximum number of servers in the unit. The number of guest servers that can run concurrently becomes less than the value specified in the `pd_ha_max_act_guest_servers` operand.

**GUEST BES COUNT:** The `pd_ha_max_act_guest_servers` operand specifies a value greater than the number of guest BES's running in the unit. To allocate the appropriate resources, set the number of guest BES's running in the unit in the `pd_ha_max_act_guest_servers` operand.

**KFPS05614-W E+L**

Too small "pd\_ha\_max\_server\_process". Total of host BES "pd\_max\_bes\_process" assumed, unit = *aaaa*, original value = *bb...bb*, assumed value = *cc...cc*

The value specified in the unit control information definition `pd_ha_max_server_process` operand is less than the total of the `pd_max_bes_proces` operands for the host BES in the corresponding unit. Set the total of the `pd_max_bes_proces` operands for the host BES in the corresponding unit.

*aaaa*: Unit identifier

*bb...bb*: Value specified in the unit control information definition `pd_ha_max_server_process` operand

*cc...cc*: Value set in the `pd_ha_max_server_process` operand based on internal calculation

S: Continues processing.

Action

Reconsider the specification of the unit control information definition `pd_ha_max_server_process` operand.

**KFPS05615-W E+L**

Too small "pd\_ha\_process\_count". Total of host BES "pd\_process\_count" assumed, unit = *aaaa*, original value = *bb...bb*, assumed value = *cc...cc*

The value specified in the unit control information definition `pd_ha_process_count` operand is less than the total specified in the `pd_process_count` operands of the host BES in the corresponding unit. Set the total specified in the `pd_process_count` operands of the host BES in the corresponding unit.

*aaaa*: Unit identifier

## 2. Messages

*bb...bb*: Value specified in the unit control information definition  
*pd\_ha\_process\_count* operand

*cc...cc*: Value set in the *pd\_ha\_process\_count* operand based on internal calculation

S: Continues processing.

Action

Reconsider the specification of the unit control information definition  
*pd\_ha\_process\_count* operand.

### **KFPS05616-I L**

Guest servers became activatable on unit *aaaa*

Because there is a free guest area, unit *aaaa* can receive the guest BES.

*aaaa*: Unit identifier

S: Continues processing.

### **KFPS05617-I L**

Server *aa...aa* stop request accept from HA monitor; stops server  
reason=*bb...bb*

Because a server stop request was issued from the HA monitor or Hitachi HA Toolkit Extension, server *aa...aa* is stopped.

*aa...aa*: Server name

*bb...bb*: HiRDB internal stop reason code (maintenance information)

S: Terminates processing.

O: See the HA monitor message that was output immediately before.

### **KFPS05618-E E+L**

Unable to specify definition in HAgroun unit, unit ID=*aaaa*,  
definition file=*bb...bb*, record number=*cc...cc*

In the unit control information definition of units for which standby-less system switchover (effects distributed) is applied, an operand was specified that cannot be specified for units for which standby-less system switchover (effects distributed) is applied.

*aaaa*: Unit identifier

*bb...bb*: Name of the definition file being analyzed

*cc...cc*: Number of the record with the error

S: Abnormally terminates.

Action



Revise the unit control information definition. On units where the standby-less system switchover (effects distributed) facility is being used, the operands that can be specified in the unit control information definition are restricted. Remove the operands that cannot be specified in the unit control information definition. Because the operands that were specified in error can be specified in the system common definition, specify them there as necessary, and then restart HiRDB.

**KFPS05619-E E+L**

Unable to execute *aa....aa* command, server *bb...bb* state not *cc....cc*

The status of server *bb...bb* is not *cc....cc*. Therefore, the command cannot be executed.

*aa....aa*: Name of the command that was input {pdstart | pdstop}

*bb...bb*: Name of the server that could not execute the command

*cc....cc*: Status that can enter the command

OFFLINE: Offline

ONLINE: Online

S: Terminates processing.

**Action**

Wait for the status of server *bb...bb* to become *cc....cc*, then re-execute the command. However, the pdstart command cannot be executed in start status (including during start processing), and the pdstop command cannot be executed in stop status (including during stop processing). In this case, check that the system has stopped or started and then execute the command.

**KFPS05620-I L**

Invalid version of HiRDB option, option=*aaa*, invalid version=*bb...bb*, required version=*cc....cc*

The version of the additional PP *aaa* that has been set up is invalid. The version of the additional PP *aaa* that has been set up is *bb....bb*, and valid versions are *cc....cc* or later.

*aaa*: Additional PP

aha: Advanced High Availability

*bb...bb*: Version of the additional PP that has been set up

*cc....cc*: Correct version of additional PP

S: Interrupts HiRDB start processing.

O: This message provides additional information to the KFPS01801-E message that was output before this message. Check the additional PP name and the correct version of the additional PP, and follow the directions of the KFPS01801-E message.

2. Messages

**KFPS05621-I L+S**

Server *aa....aa* standby state released, status=*bb....bb*

The standby state of server *aa....aa* has been released.

*aa....aa*: Server name

*bb....bb*: Server status code (maintenance information)

S: Continues processing.

**KFPS05622-E E**

*pdtrnqing* command failed, reason=*aa....aa*, inf=*bb....bb*

An error occurred during execution of the *pdtrnqing* command.

*aa....aa*: Reason code

*bb....bb*: Internal code

S: Terminates processing.

Action: Take action on the basis of the reason code. If an error occurred during transaction queuing release, the transaction queuing status might remain unchanged. In that case, use the *pdtrnqing -f* command to release the transactions forcibly.

<i>aa....aa</i> (Reason code)	Action
SINGLE_SERVER	The command cannot be executed with a single server. Do not use this command in this environment.
NOT_AHA_SYSTEM	The standby-less system switchover (effects distributed) facility is not applicable to HiRDB. Do not use this command in this environment.
NOT_HAGROUP	A server that is specified is not a target of the standby-less system switchover (effects distributed) facility. In the <i>-s</i> option, specify a back-end server that is a target of the standby-less system switchover (effects distributed) facility.
NOT_ACTIVE	The server is not running on the command execution unit. Execute the command on the unit where the back-end server specified in the <i>-s</i> option is running. If performing a transaction queuing release specification, specify the <i>-f</i> option.
TIMEOUT_S	When transaction queuing started, the system waited for transactions running on the server to finish, but the transactions did not finish before the time specified in the system definition <i>pd_ha_trn_queuing_wait_time</i> operand. Either terminate the transactions running on the back-end server specified in the <i>-s</i> option, or use the <i>pdcancel</i> command to cancel them. Also, review the value of the system definition <i>pd_ha_trn_queuing_wait_time</i> operand.
TIMEOUT_E	During transaction queuing release, the system waited for server startup processing to finish, but the server startup processing did not finish before the time specified in the system definition <i>pd_ha_trn_queuing_wait_time</i> operand. Ensure that the server startup did not fail. If it failed, eliminate the cause of the error, and then start the server. Also, review the value of the system definition <i>pd_ha_trn_queuing_wait_time</i> operand.

<i>aa....aa</i> (Reason code)	Action
PROCESS_MEMORY	There is insufficient process native memory. Terminate unnecessary processes, reduce the memory in use in the server machine, and then re-execute the command.

**KFPS05623-I L**

Online server not exist, unit=*aa....aa*

There is no running system server in the unit. Unit start processing continued.

This message might be output when the standby-less system switchover (effects distributed) facility is used.

*aa....aa*: Unit name

S: Continues processing.

Action: Use the cluster software commands to check the status of the servers in unit *aa....aa*. If the cluster software is HA monitor, use the `monshow` command; if it is Hitachi HA Toolkit Extension, use the `hateshow` command. Based on the result, take one of the following actions:

- If all servers on the unit are started as standby systems  
No action is required.
- If a server is waiting to be activated as the running system server  
Activate the running system server from any unit in the HA group. If using HA monitor, use the `monact` command; if using Hitachi HA Toolkit Extension, execute the command to activate the package from the upper level cluster software.
- If a server is activated as the running system server  
The processing of commands specified in the `usrcommand` operand in the `sysdef` file of HA Monitor might take a long time. Consider increasing the value of the `pd_ha_resource_act_wait_time` operand.

**KFPS05700-I L**

HiRDB unit *aaaa* Security Audit *bb...bb*

Indicates the status of the security audit facility when HiRDB (or unit, for a HiRDB/Parallel Server) starts.

*aaaa*: Unit identifier

*bb...bb*: Status of the security audit facility

*inactive*: Does not start audit tracing from when the HiRDB system starts.

S: Continues processing.

**Action**

Because HiRDB was forcibly started, the security audit facility is stopped. To enable the security audit facility, execute the `pdaudbegin` command. If it is acceptable that it is stopped, no action is necessary.

**KFPS05701-E L**

Unable to start Security Audit, unit=*aaaa*, reason code=*bb...bb*

Audit tracing could not be started because an error occurred in unit *aaaa*.

*aaaa*: Unit identifier

*bb...bb*: Reason code

S: Abnormally terminates the HiRDB system.

**Action**

Take appropriate action according to the reason code, and then restart the HiRDB system.

<b>Reason code</b>	<b>Action</b>
PROCESS_MEMORY	There is a shortage of process private memory. Re-estimate the process private memory.
COMMUNICATION	A network error occurred. Recover from the network error.
CONFIGURATION	An error occurred during analysis processing in the HiRDB system definition. See the definition analysis error message output before or after this message and re-evaluate the operand in the system definition.
NO_FILE_NAME	The <code>pd_aud_file_name</code> operand is not specified. Specify the <code>pd_aud_file_name</code> operand.
FILE_ACCESS	An error occurred when accessing the audit trace file. See the KFPS05704-E message output before or after this message, and then take appropriate action.

**KFPS05702-I L+S**

*aa...aa* assigned as current audit trail generation file, unit=*bbbb*

Audit trail file *aa...aa* is assigned to unit *bbbb* as the current file.

*aa...aa*: Audit trail file name

*bbbb*: Unit identifier

S: Continues processing.

**KFPS05703-I L+S**

Audit trail generation file *aa...aa* released, unit=*bbbb*

Audit trail file *aa...aa* for unit *bbbb* is no longer the current file.

*aa....aa*: Audit trail file name

*bbbb*: Unit identifier

S: Continues processing.

**KFPS05704-E E+L**

*aa....aa* error occurred in audit trail generation file *bbbbbbbbbbbbbbbb*, unit=*cccc*, reason code=*dd...dd*

An error occurred when accessing audit trail file *bb....bb* for unit *cccc*.

*aa....aa*: Processing when an error occurs:

- Open: Open the file.
- Close: Close the file.
- Read: Read the file.
- Write: Write the file.
- Create: Create the file.
- Delete: Delete the file.

*bbbbbbbbbbbbbbbb*: Audit trail file name

Displays \*\*\*\*\* when an access error of the HiRDB file system area for audit trace files occurs.

*cccc*: Unit identifier

*dd....dd*: Reason code

S: Terminates processing.

**Action**

Take appropriate action according to the reason code, and then restart the HiRDB system.

Reason code	Action
PROCESS_MEMORY	There is a process private memory shortage. Re-estimate the process private memory.
OPEN_MAX	The number of files opened by an open process for audit trace files exceeded the maximum number of files that can be opened. Re-evaluate the maximum number of files that can be opened by a single process. If necessary, re-create the kernel.
FILE_PERMISSION	The user does not have access privileges for the HiRDB file system area for audit trace files. Check your access privileges using the operating system <code>ls</code> command or other command. If you do not have access privileges, ask the HiRDB administrator to grant you access privileges.

## 2. Messages

Reason code	Action
IO_ERROR	<p>An I/O error occurred.</p> <p>Action:</p> <ol style="list-style-type: none"> <li>1. Check for the cause of the I/O error, and then take appropriate action.</li> <li>2. Execute the <code>pdaudrm</code> command to delete the audit trace files that the I/O error generated. If some files cannot be deleted, continue working on the remaining files.</li> </ol> <p>If this procedure does not solve the problem, replace the disk and re-create the HiRDB file system area for audit trail files.</p>
VERSION	<p>The version of the HiRDB file system area for audit trail files does not match. To re-create the HiRDB file system area for audit trail files, execute the <code>pdfmkfs</code> command.</p> <p>To restore the previous version after upgrading HiRDB and restarting, return the HiRDB file system area for audit trail files to the previous version. To restore the pre-upgrade version, use the <code>pdfrstx</code> command on the HiRDB file system area for audit trail files that was backed up using the <code>pdfbkup</code> backup command before the upgrade.</p>
GEN_FILE_PERMISSION	<p>You do not have access privileges to the audit trail file. To check your access privileges to audit trail files, execute the <code>pdfls</code> command. If you do not have access privileges, request that the HiRDB administrator grants you access privileges.</p>
FILE_NOT_FOUND	<p>The audit trail file does not exist.</p> <p>When the error process is <code>Delete</code>:</p> <ul style="list-style-type: none"> <li>• Check if the HiRDB file system area for audit trail files was created. If the area was not created, execute the <code>pdfmkfs</code> command to create the HiRDB file system area for audit trail files.</li> <li>• Check if the created HiRDB file system area for audit trail files and the HiRDB file system area name specified in the <code>pd_aud_file_name</code> operand match.</li> <li>• Check if the audit trail file name specified in the control statement file when the <code>pload</code> command was executed is correct.</li> </ul> <p>When the error process is <code>Delete</code>:</p> <ul style="list-style-type: none"> <li>• Check if the HiRDB file system area for audit trail files was created.</li> <li>• Check if the created HiRDB file system area for audit trail files and the HiRDB file system area name specified in the <code>pd_aud_file_name</code> operand match.</li> </ul>
GEN_FILE_NOT_FOUND	<ul style="list-style-type: none"> <li>• The audit trail file does not exist. To check if the audit trail file exists, execute the <code>pdls -d aud</code> command.</li> <li>• To check if the audit trail file name specified in the control statement file during command execution is correct, execute the <code>pload</code> command.</li> </ul>
LOCKSEGMENT	<p>There is a lock segment shortage. Re-evaluate the number of record lock segments specified when performing a system build of the OS.</p>
NO_SPACE	<p>The free space required to create audit trail files could not be secured. Re-estimate the size of the HiRDB file system area for audit trail files.</p>

Reason code	Action
FILE_TYPE	The HiRDB file system area for audit trail files was not created in character special files. To create HiRDB file system areas in character special files, execute the <code>pdfmkfs</code> file.
FILE_OBJECT	The usage objective ( <code>-k</code> option of the <code>pdfmkfs</code> command) of the HiRDB file system area for audit trail files is not <code>SYS</code> or <code>SVR</code> . Specify <code>SYS</code> or <code>SVR</code> in the <code>-k</code> option of the <code>pdfmkfs</code> command, and then re-create the HiRDB file system area.
FILE_AREA	The area for audit trail files was not created as a HiRDB file system area. Create a HiRDB file system area for audit trail files by executing the <code>pdfmkfs</code> command.
LARGE_FILE	In UNIX: An attempt was made to create a HiRDB file system area for audit trail files as a large file (if the HiRDB server is a Windows version, an attempt was made to create a HiRDB file system area of 2048 megabytes or greater), even though <code>Y</code> is not specified in the <code>pd_large_file_use</code> operand. Either specify <code>Y</code> in the <code>pd_large_file_use</code> operand, or create a HiRDB file system area for audit trail files of less than 2 gigabytes. In Windows: The HiRDB file system area created for audit trail files exceeds 2048 MB, but <code>Y</code> was not specified in the <code>pd_large_file_use</code> operand. Either specify <code>Y</code> in the <code>pd_large_file_use</code> operand, or create a HiRDB file system area for audit trail files that does not exceed 2 GB.
FILE_NUM	The maximum number of audit trail files that can be created was exceeded. Action: <ul style="list-style-type: none"> <li>• Re-evaluate the value of the <code>pd_aud_max_generation_num</code> operand.</li> <li>• Re-create the HiRDB file system area for audit trail files by executing the <code>pdfmkfs</code> command. Re-estimate the maximum file count in the HiRDB file system and the area size. To change the maximum file count or the area size, re-evaluate the value of the <code>pd_aud_max_generation_num</code> and <code>pd_aud_max_generation_size</code> operands.</li> </ul>
INTERNAL_ERROR	An internal error occurred. Save all files under <code>C:\PDDIR\spool</code> , save the event log (in UNIX, <code>syslogfile</code> ), and contact a customer engineer.
INVALID_SYSTEM_ID	The HiRDB identifier of the audit trail file is invalid. Specify an audit trail file whose HiRDB identifier is valid.

**KFPS05705-E L**

Available audit trail generation file number=*a*. HiRDB unit *bbbb* force terminate

The number of audit trail files available for use as the swap destination is 0 or 1. unit *bbbb* was forcibly terminated because `down` is specified in the `pd_aud_no_standby_file_opr` operand.

*a*: Number of audit trail files that are available for use as the swap destination

*bbbb*: Unit identifier

S: Abnormally terminates HiRDB.

Action

For details about how to work with audit trail files, see the *HiRDB Version 8 System Operation Guide*.

**KFPS05706-W L**

No standby audit trail generation file available, unit=*aaaa*.  
Force overwrite audit trail generation file

There are no audit trail files in unit *aaaa* that are available for use as the swap destination. The data load standby file (excluding files in shutdown status) with the earliest update date/time is made available as the swap destination because *forcewrite* (default value) is specified in the *pd\_aud\_no\_standby\_file\_opr* operand.

*aaaa*: Unit identifier

S: Continues processing.

Action

Request that the auditor load the data of data load standby audit trail files. For details about how to work with audit trail files, see the *HiRDB Version 8 System Operation Guide*.

**KFPS05707-E L**

Error occurred in all audit trail generation files, unit=*aaaa*.  
Security Audit stopped

*forcewrite* (default value) is specified in the *pd\_aud\_no\_standby\_file\_opr* operand, but output of the audit trail was stopped because all audit trail files in the HiRDB file system area were shut down.

*aaaa*: Unit identifier

S: Continues processing.

Action

For details about how to handle errors that occur in audit trail files, see the *HiRDB Version 8 System Operation Guide*.

**KFPS05708-W E+L**

Unable to use Security Audit, unit=*aaaa*, reason code=*bb...bb*

The security audit facility could not be used because the system configuration does not meet the preconditions of the security audit facility.

- If there is a unit (including units with just a system manager) on the HiRDB/ Parallel Server with no server, the security audit facility cannot be used.
- Cannot use the security audit facility in the utility special unit.



*aaaa*: Unit identifier

*bb...bb*: Reason code

- `ONLY_SYSTEM_MANAGER`: Cannot use the security audit facility because only the system manager is defined in the unit.
- `NO_SERVER`: Cannot use the security audit facility because no server is defined in the unit.
- `UTILITY`: Cannot use the security audit facility because the current unit is not a utility special unit.

S: Continues processing.

Action

When using the security audit facility, change the system configuration.

**KFPS05709-E E+L**

Internal function error occurred, unit=*aaaa*, function=*bb...bb*, return code=*cc...cc*

An internal processing error occurred in unit *aaaa*.

*aaaa*: Unit identifier

*bb...bb*: Name of function where the error occurred

*cc...cc*: Detail code of a system-related error.

S: Terminates processing.

Action

Take action according to the detail code of an output system-related error. For detail codes of system-related errors, see *4.2 Detail codes for system-related errors*. Contact a customer engineer for errors that cannot be solved.

**KFPS05750-I S**

Security Audit *aaaaaaa*, unit=*bbbb*

Acquisition of audit trails of unit *bbbb* started or stopped.

*aaaaaaa*: Status of audit trails

- `started`: Acquisition of audit trails has started.
- `stopped`: Acquisition of audit trails has stopped.

*bbbb*: Unit identifier

S: Continues processing.

**KFPS05751-I E+S**

Usage: *aa...aa*

Indicates the usage of the *aa....aa* command at the HiRDB/Single Server. This message is output when an error is found in the command format.

*aa....aa*: Usage of the command

- pdaudbegin
- pdaudend
- pdaudrm -g audit\_generation\_file\_name [-f]
- pdaudswap [-U user\_id]

S: Terminates processing.

Action

Re-execute the command.

**KFPS05751-I E+L**

Usage: *aa....aa*

Indicates the usage of the *aa....aa* command at the HiRDB/Parallel Server. This message is output when an error is found in the command format.

*aa....aa*: Usage of the command

- pdaudbegin [-u unit\_id]
- pdaudend [-u unit\_id]
- pdaudrm -u unit\_id -g audit\_generation\_file\_name [-f]
- pdaudswap -u unit\_id [-U user\_id]

S: Terminates processing.

Action

Re-execute the command.

**KFPS05752-E E+L**

Error occurred during *aa....aa* command execution, unit=*bbbb*, reason code=*cc....cc*

An error occurred when executing the *aa....aa* command.

*aa....aa*: Command name

- pdaudbegin
- pdaudend
- pdaudrm
- pdaudswap
- pdls -d aud

*bbbb*: Unit identifier when an error occurred

*cc....cc*: Reason code

S: Terminates processing.

Action: Take action according to the reason code.

Reason code	Action
ALREADY_STARTED	Acquisition of audit trails has already started.
COMMUNICATION	A network error occurred. Recover from the network error.
CONFIGURATION	An error occurred during analysis processing in the HiRDB system definition. See the definition analysis error message output before or after this message and re-evaluate the operand in the system definition.
PROCESS_MEMORY	There is a process private memory shortage. Re-estimate the process private memory.
ALREADY_STOPPED	Already stopped acquiring audit trails.
DELETE_ERROR	The audit trail file could not be deleted because it is in one of the following statuses: <ul style="list-style-type: none"> <li>• It is not locked</li> <li>• It is waiting for data loading</li> <li>• It has not been generated yet</li> </ul> To check the status of the audit trail files, execute the <code>pdls -d aud</code> command. Files that are not locked or generated cannot be deleted. To delete files waiting for data loading, execute the <code>pdaudrm</code> command with the <code>-f</code> option specified.
NOT_AUDITOR	The command cannot be executed because you are not the auditor. Ensure that the correct authorization identifier and auditor password are specified in the <code>PDUSER</code> environment variable.
UNABLE_SWAP	One remaining file cannot be made the swap destination because <code>pd_aud_no_standby_file_opr=down</code> is specified. Action: <ul style="list-style-type: none"> <li>• Request that the auditor load data for the audit trail files that are waiting for data loading.</li> <li>• For details about how to handle errors that occur in audit trail files, see the <i>HiRDB Version 8 System Operation Guide</i>.</li> </ul>
NO_STANDBY_FILE	An attempt to swap failed because no files can be made into the swap destination. Action: <ul style="list-style-type: none"> <li>• Request that the auditor load data for the audit trail files that are waiting for data loading.</li> <li>• For details about how to handle errors that occur in audit trail files, see the <i>HiRDB Version 8 System Operation Guide</i>.</li> </ul>

## 2. Messages

Reason code	Action
NO_GEN_FILE	Swap processing could not be performed on the audit trail files because no audit trail files were created.
OTHER_COMMAND	The command could not be executed because another command (pdaudbegin, pdaudend, pdaudrm, pdaudswap) is executing. Re-execute the command after the other command terminates.
SECURITY_AUDIT_NOT_UP	An audit trail was not acquired. Execute the command when acquiring audit trails.
FILE_ACCESS	An error occurred when accessing an audit trail file. See the KFPS05704-E message output before or after this message, and then take appropriate action.
UNIT_NOT_ONLINE	The target unit for the command is inactive. Execute the command after starting the unit.
NO_FILE_NAME	The <code>pd_aud_file_name</code> operand is not specified. Specify the <code>pd_aud_file_name</code> operand.
UTILITY	The security audit facility could not be used because the unit is a utility special unit.
ONLY_SYSTEM_MANAGER	The security audit facility could not be used because only the system manager is defined in the unit. When using the security audit facility, change the system configuration.
NO_SERVER	The security audit facility could not be used because the server is not defined in the unit. When using the security audit function, change the system configuration.
LOCK	A lock error occurred when executing the command. Wait for a short time, and then re-execute the command.
NO_AVAILABLE_GEN_FILE	An audit trail file available for use as the swap destination could not be found. Take the following action to secure an audit trail file that can be available for use as the swap destination. Then, restart HiRDB. <ul style="list-style-type: none"> <li>Request that the auditor load the data for files waiting for data loading into the audit trail table.</li> <li>For details about how to handle errors that occur in audit trail files, see the <i>HiRDB Version 8 System Operation Guide</i>.</li> </ul>
RESTORE_MODE	Because HiRDB was started using the <code>pdstart -r</code> command, the <code>pdaudswap</code> command and the <code>pdls -d aud</code> command cannot be executed.

### KFPS05753-W L

Unable to read audit trail generation file=*aa....aa*, unit=*bbbb*

The version of the audit trail file does not match the version of HiRDB being used. Therefore, part or all of the information in the audit trail file is not reflected in the audit trail table.

*aa...aa*: Audit trail file name

*bbbb*: Unit identifier

S: Continues processing.

Action: If, after a HiRDB version upgrade, there is a return to the previous version, part or all of the information collected to the audit trail file after the upgrade is not reflected in the audit trail table. To make sure all of the information is reflected, contact a customer engineer.

**KFPS05801-I S**

Usage: `pdvrchk -x host_name -d directory_name`

The specification format of the `pdvrchk` command option is invalid.

S: Terminates processing.

Action

Correct the option specification, and then re-execute the command.

**KFPS05802-E S**

Error occurred in execute `pdvrchk` command, `reason_code = aa (bb...bb, cc...cc, dd...dd)`

An error occurred during execution of the `pdvrchk` command.

*aa*: Error code

*bb...bb*: Internal information of the HiRDB system

*cc...cc*: Internal information of the HiRDB system

*dd...dd*: Internal information of the HiRDB system

S: Terminates processing.

Action

Take action according to the error cause.

Error code	Error cause	Action
01	The environment variable <code>PDDIR</code> was not found.	Set environment variable <code>PDDIR</code> in the environment of the person executing this command, and then re-execute the command.

## 2. Messages

Error code	Error cause	Action
02	An error occurred in the remote shell regarding the host name specified in the <code>-x</code> option. Possible causes: <ul style="list-style-type: none"> <li>The HiRDB directory specified in the <code>-d</code> option was not found.</li> <li>The network of the host specified in the <code>-x</code> option was not found.</li> <li>The host name specified in the <code>-x</code> option is invalid.</li> </ul>	Use the execution results of <code>ping</code> or other similar utility to determine if the network for the specified host is active. Alternatively, check if the HiRDB directory specified in the <code>-d</code> option or the host name specified in the <code>-x</code> option is correct.
03	Internal processing error	Take action according to the message output before this message, and then re-execute the command.

### KFPS05803-I S

`pdvrchk` ended, return code = *aa....aa*

The `pdvrchk` command terminated with return code *aa....aa*.

*aa....aa*: Return code of the command

S: Terminates processing.

Action

Take appropriate action according to the return code.

Return code	Description	Action
0	Version information and additional options between the command execution source server machine and the target server machine match.	Not necessary.
8	Version information and additional options between the command execution source server machine and target server machine do not match.	Unify the versions of the HiRDB and installed option program product. <ul style="list-style-type: none"> <li>With HiRDB Advanced High Availability, some version information, additional option comparison source, and configurations of the target unit are displayed as a mismatch (comparing units of the system manager and units of the back-end server).</li> <li>HiRDB LDAP Option versions are not checked.</li> </ul>

Return code	Description	Action
12	An error occurred during execution of the command (including command argument errors).	Take action according to the KFPS05801-I, KFPS05802-E or other message output before this message.

**KFPS05809-I S**

Usage: `pdrireset [{-P|-S|-D} [-f]]`

The option specification format of the `pdrireset` command is invalid.

S: Terminates processing.

Action: Specify valid options, and then re-execute the command.

**KFPS05810-I E+L+S**

Usage: `pdriechk [-d {all|db|sys}] [{-u unit_id|-s server_name}] [-l [-n]] [-r]`

The specification format of the `pdriechk` command options is incorrect.

S: Terminates processing.

Action

Specify valid options and re-execute the command.

**KFPS05813-E E**

Unable to execute *aa...aa* command, reason *bb...bb*

Execution of *aa...aa* command failed.

*aa...aa*: Name of the command that could not be executed

*bb...bb*: Reason that it could not be executed

`pd_rise_use` is not 'Y': Y is not specified in the `pd_rise_use` operand.

NEED TO SPECIFY `pd_rise_pairvolume_combination`: The `pd_rise_pairvolume_combination` operand was not specified, or the specified value is invalid.

NEED TO SPECIFY `pd_rise_fence_level`: The `pd_rise_fence_level` operand was not specified, or the specified value is invalid.

UNABLE TO SPECIFY `pd_inner_replica_control`: The `pd_inner_replica_control` operand cannot be specified.

`secondary system`: Operands that cannot be specified for a secondary system were specified.

S: Terminates processing.

Action

If *bb....bb* is not a secondary system:

Check the system common definition, revise the system common definition, and then re-execute the command.

If *bb....bb* is a secondary system:

If a system switchover facility is being used, check the system where the command was executed, and execute the command on the primary system. If this message was output when the command was executed on the primary system, revise the specification of the `pd_hostname` operand. If the `pd_hostname` operand specifies other than the standard host name of the primary system, specify the standard host name of the primary system.

**KFPS05814-I S**

Usage: `pdrisedbto [-f]`

The option specification format of the `pdrisedbto` command is invalid.

S: Terminates processing.

Action: Specify valid options, and then re-execute the command.

**KFPS05815-I S**

"`pdrisechk`" ended, end code=*aa....aa*

The `pdrisechk` command terminated with termination code *aa....aa*.

*aa....aa*: Command termination code

S: Terminates processing.

O: Follow the action appropriate to the termination code.

Action

Follow the action appropriate to the termination code.

Command termination code	Explanation	Operator action	HiRDB administrator action
OK	The <code>pdrisechk</code> command terminated normally. The pair volume setting is invalid.	—	—
INVALID_PAIR_SETUP	The pair volume setting used by HiRDB is invalid.	Contact the HiRDB administrator.	See the KFPS05816-E message, and correct the invalid pair volume setting.



Command termination code	Explanation	Operator action	HiRDB administrator action
ERROR_SOME_UNIT	During execution of the <code>pdrisechk</code> command, an error occurred during a unit's configuration check.	See the message output before this message and take action, then re-execute the command. If necessary, contact the HiRDB administrator.	See the message output before this message and take action, then re-execute the command.

Legend:

—: Not applicable.

#### KFPS05816-E E

Invalid volume setup. *aa....aa*, file type=*bb...bb*, group=*cc....cc*, code=*dd....dd*

The pair setting of pair logical volume group *cc....cc* is invalid.

*aa....aa*: Depending on the HiRDB file type allocated to the pair logical volume group where there is a problem with the pair setting, the output is in the following format:

*bb....bb* is DB, LOG, SPD, or SSTS:

server=*ee....ee*

*ee....ee*: HiRDB server name

*bb....bb* is USTS:

unit=*fff*

*fff*: Unit identifier

*bb....bb* is ALL:

system=*gggg*

*gggg*: HiRDB identifier

*bb....bb*: File type created in pair logical volume group *cc....cc*

DB: Database file (file that comprises the RDAREA)

LOG: System log file

SPD: Synchronization point dump file

SSTS: User status file

USTS: Unit status file

ALL: Database file and system files

## 2. Messages

*cc....cc*: Name of the pair logical volume group

*dd....dd*: Reason code

S: Terminates processing.

O: Take action appropriate to the reason code.

Action

Take action appropriate to the reason code.

Reason code	Explanation	HiRDB administrator action
INVALID_VOLUME_ATTR IBUTE	The pair attribute of the corresponding pair logical volume group is invalid.	Confirm that the site where the command was executed is correct. Confirm that the pair attribute of the corresponding pair logical volume is valid. Also, if no pair logical volume group has been created, create a pair logical volume group.
INVALID_FENCE_LEVEL	The fence level setting of the corresponding pair logical volume group is invalid.	Take one of the following actions: <ul style="list-style-type: none"> <li>• If the value of the <code>pd_rise_pairvolume_combination</code> operand is <code>sync</code>, set the value of the pair volume group fence level to <code>data</code> or <code>never</code>, to match the value of the <code>pd_rise_fence_level</code> operand.</li> <li>• If the value of the <code>pd_rise_pairvolume_combination</code> operand is <code>hybrid</code> and <code>DB</code> is displayed in <i>bb...bb</i>, set the value of the pair volume group fence level to <code>async</code>. If other than <code>DB</code> is displayed in <i>bb...bb</i>, set the value of the pair volume group fence level to <code>data</code> or <code>never</code>, to match the value of the <code>pd_rise_fence_level</code> operand.</li> <li>• If the value of the <code>pd_rise_pairvolume_combination</code> operand is <code>async</code>, set the value of the pair volume group fence level to <code>async</code>.</li> <li>• If the value of the <code>pd_rise_pairvolume_combination</code> operand is <code>sysync</code>, set the fence level of the pair logical volume to <code>data</code> or <code>never</code> to match the specification of the <code>pd_rise_fence_level</code> operand.</li> </ul>

Reason code	Explanation	HiRDB administrator action
INVALID_STATUS	A pair with a pair status of other than PAIR or PFUL exists in the corresponding pair logical volume group.	Check the pair status of the corresponding pair logical volume group, check the reason that it became that pair status, and take appropriate action. For details on the how to check the reason and take action, see the RAID Manager documentation.

**KFPS05821-E E+L**

Unable to specify hostname or server name outside HAGROUP

The specified host name (unit identifier) or server name is not a host (unit) or server that is applicable to the standby-less system switchover (effects distributed) facility. The specified option cannot be specified for a unit or server that is not applicable to the standby-less system switchover (effects distributed) facility.

S: Terminates processing.

Action

Check that the specified host name (unit identifier) or server name is belongs to a HA group.

**KFPS05822-E E**

*aa....aa* invalid; stops server restart.server ID=*bb...bb*, old value=*cc....cc*, new value=*dd....dd*

Because the value specified for the *aa....aa* operand has changed, the server cannot be restarted. The value of the *aa....aa* operand cannot be changed after abnormal termination, forced termination, or planned termination.

*aa....aa*: Definition items that do not match

"pd\_utl\_exec\_mode": Utility execution mode

"pd\_max\_list\_users": Number of users that can own the list concurrently

"pd\_max\_list\_count": Number of lists created per user

"pd\_max\_reflect\_process\_count": Concurrently executable guaranteed process count for updatable online reorganization reflection processing

"pd\_max\_users": Concurrently executable user count (SDS, FES)

"pd\_max\_bes\_process" or "pd\_max\_users": Maximum activated process count (BES)

"pd\_max\_dic\_process" or "pd\_max\_users": Maximum activated process count (DS)

*bb...bb*: Server name (if the *aa....aa* operand is the system common definition or the unit control information definition, \*\*\*\*\* is displayed)

*cc...cc*: Value before the *aa...aa* operand was changed

*dd...dd*: Value after the *aa...aa* operand was changed

S: Terminates processing.

Action

Return the value of the *aa...aa* operand to the value before the change (*cc...cc*) and restart the server. However, if any of the following operands was output in the *aa...aa* operand, make it as follows:

- If "pd\_max\_bes\_process", "pd\_max\_dic\_process", or "pd\_max\_users" was output, and the pd\_max\_bes\_process or pd\_max\_dic\_process operand is not specified, change the value of pd\_max\_users.
- If "pd\_max\_bes\_process", "pd\_max\_dic\_process", or "pd\_max\_users" was output, and the pd\_max\_bes\_process or pd\_max\_dic\_process operand is specified, make it as follows:

*cc...cc* > value specified for pd\_max\_users:

Change the value of the pd\_max\_bes\_process or pd\_max\_dic\_process operand.

*cc...cc* ≤ value specified for pd\_max\_users:

- If *cc...cc* > value of pd\_max\_bes\_process or pd\_max\_dic\_process, change the value of pd\_max\_users.
- If *cc...cc* ≤ value of pd\_max\_bes\_process or pd\_max\_dic\_process, change the value of the pd\_max\_users, pd\_max\_bes\_process, or pd\_max\_dic\_process operand.

**KFPS05827-E E+L**

Unable to stop server outside HAGROUP with "*aa...aa*" option

The "*aa...aa*" option cannot be specified in the `pdstop -s server_name` command for servers that are not used with the standby-less system switchover (effects distributed) facility.

*aa...aa*: Specified option {-x host\_name | -u unit\_id} -z

S: Terminates processing.

Action

If the specified option is -x host\_name or -u unit\_id:

Reconsider the specification of the command options. If stopping a server that is not used with the standby-less system switchover (effects distributed) facility, execute the command without specifying the -x host\_name or -u

unit\_id option.

If the specified option is -z:

Reconsider the specification of the command options. Servers other than those that use the standby-less system switchover (effects distributed) facility cannot be forcibly terminated. To terminate them, use normal termination (execute the `pdstop -s server_name` command from the unit that contains the system manager).

**KFPS05828-E S**

Unable to stop normally because server terminated abnormally

HiRDB cannot be normally terminated because there are servers that were abnormally terminated or that were forcibly terminated with the `pdstop -f` or `pdstop -z` command.

S: Terminates processing.

Action

Use one of the following methods to terminate HiRDB:

- Use the `pdls` command to check servers that were abnormally terminated or that were forcibly terminated using the `pdstop -f` or `pdstop -z` command, start the servers, and then normally terminate them using the `pdstop` command.
- Use the `pdstop -f` command to forcibly terminate HiRDB.

**KFPS05837-I E**

Usage: `pdtrnqing [-d [-f]] -s server_name`

The method by which the `pdtrnqing` command was executed is displayed. This message is output in the following case:

- There is an error in the command options or in the method for using inheritance

S: Terminates the `pdtrnqing` command.

O: If there is an error in the usage of the command, re-enter the command correctly.

**KFPS05839-I E**

Usage: `pdstjsync`

The specification format of the `pdstjsync` command options is invalid.

S: Terminates processing.

O: Re-execute on the basis of the command usage method.

**KFPS05840-I S**

Statistics log written, from statistics log buffer to statistics log file

## 2. Messages

Information in the statistics log buffer was output to the log file.

S: Continues processing.

### **KFPS05841-E S**

`pdstjsync` command failed, `readson=a...a`

Information in the statistics log buffer could not be output to the log file.

*aa...aa*: Reason code that indicates the contents of the error

`ALREADY_STOPPED`: Statistical information is already stopped.

S: Terminates processing.

Action

`ALREADY_STOPPED`:

Execute this command during statistical information acquisition.

### **KFPS05842-I E**

Usage: `pdsvhostname -s server_name [-b]`

The specification format of the `pdsvhostname` command options is invalid.

S: Terminates the `pdsvhostname` command.

Action

If there is an error in the command usage method, re-execute using a correct usage method.

### **KFPS05843-E E**

Invalid environment variable *aa...aa*, reason code=*bb...bb*

The value of an environment variable is incorrect.

*aa...aa*: Environment variable name {`PDDIR`|`PDCONFPATH`}

*bb...bb*: Reason code

`NOTHING`: No environment variable is set.

`INVALID_LENGTH`: The value set for the environment variable exceeds the limit.

S: Terminates processing.

Action: Refer to the reason code, and confirm that the environment variable is set appropriately.

### **KFPS06001-E L**

Error occurred in system call *aa...aa*. `errno= bbb`

An error occurred in a system call issued during initialization at processing activation.

The `KFPS04621-E` message may be output following this message; however, it may

be ignored.

*aa....aa*: Name of the system call that was issued

*bbb*: System call return code (`errno`)

S: Terminates this processing by issuing abort code `Popt001`.

O: To determine the cause, refer to the OS documentation based on the system call name and return code.

#### Action

Determine the cause of the error from the system call name and the system call return code. If the error was caused by a memory shortage, increase the available memory by stopping unneeded processes or increasing the system swap area. If the error was not caused by a memory shortage, contact a customer engineer.

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## 2.15 KFPT messages

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**KFPT00001-E E+L**

*aa....aa*: system call error, func=*bb....bb*, errno=*cc....cc*

An error occurred in a system call (function).

*aa....aa*: Command name

pdorcheck: Application condition check for online reorganization

pdorcreate: Create a discrepancies application environment for online reorganization

pdrdrefls: Display information of related RDAREAs

pdorend: Discrepancies application for online reorganization

*bb....bb*: System call when the error occurred

*cc....cc*: Error number set in errno

S: Terminates processing.

O:

Based on the error number (errno: foreign variable indicating the error status), see `errno.h` and reference documentation on the applicable functions to eliminate the cause of the error, and then re-execute the command. For representative errno examples, see *4.3 System call return codes*.

**KFPT00002-E E+L**

*aa....aa*: insufficient memory, size=*bb....bb*

A memory shortage occurred.

*aa....aa*: Command name (see the command name in the embedded characters of KFPT00001-E)

*bb....bb*: Memory size to be secured (unit: bytes)

S: Terminates processing.

O:

Check if a process uses a lot of memory. If such a process is found, wait for the process to terminate, and then re-execute the command. If such a process is not found, contact the HiRDB administrator.

Action

Re-evaluate the size of the system's virtual memory. If there is a space shortage, add real memory. If real memory cannot be added, free up more virtual memory



by stopping other resident programs or processes, for example.

**KFPT00003-E E+L**

*aa....aa*: interface error, func=*bb....bb*, code=*cc....cc*

An interface error occurred between functions in the program.

*aa....aa*: Command name (see the command name in the embedded characters of KFPT00001-E)

*bb....bb*: Name of function causing the error

*cc....cc*: Detail code

S: Terminates processing.

O: Contact a customer engineer.

**KFPT00004-E E+L**

*aa....aa*: system management function error, func=*bb....bb*, code=*cc....cc*

A system-related error occurred.

*aa....aa*: Command name (see the command name in the embedded characters of KFPT00001-E)

*bb....bb*: Name of function causing the error

*cc....cc*: Error detail code

S: Terminates processing.

O:

See 4.2 *Detail codes for system-related errors* or 4.1 *Detail codes for RPC-related errors* to eliminate the cause of the error, and then re-execute the command. If the error is not resolved, contact a customer engineer.

**KFPT00005-E E+L**

*aa....aa*: SQL error occurred

An SQL error occurred.

*aa....aa*: Command name (see the command name in the embedded characters of KFPT00001-E)

S: Terminates processing.

O:

See the message related to the SQL statement issued immediately before this message to eliminate the cause of the error. If no message related to the SQL statement is output, contact a customer engineer.

**KFPT00006-E E+L**

*aa....aa*: *bb....bb* not setup

## 2. Messages

Cannot execute the command because *bb...bb* is not embedded.

*aa...aa*: Command name (see the command name in the embedded characters of KFPT00001-E)

*bb...bb*: Option name

Staticizer Option: HiRDB Staticizer Option

S: Terminates processing.

Action

Embed *bb...bb*, and then re-execute the command.

### **KFPT00007-E E+L**

*aa...aa*:unable to access to dictionary table,  
kind=*bb...bb*, table=*cc...cc*

An error occurred when accessing the dictionary table.

*aa...aa*: Command name (see the command name in the embedded characters of KFPT00001-E)

*bb...bb*: SQL type

OPEN: OPEN error

CLOSE: CLOSE error

SELECT: SELECT error

PREPARE: PREPARE error

FETCH: FETCH error

*cc...cc*: Name of the dictionary table

S: Terminates processing.

O:

See the KFPAxxxx message output immediately before this message to eliminate the cause of the error indicated by the message, and then re-execute the command. If no KFPAxxxx message is output, contact a customer engineer.

### **KFPT00008-E E+L**

*aa...aa*:unable to access to reflection management table

An error occurred when accessing the reflection management table.

*aa...aa*: Command name (see the command name in the embedded characters of KFPT00001-E)

S: Terminates processing.

O:

See the `KFPAxxxx` message output immediately before this message to eliminate the cause of the error the message indicates, and then re-execute the command. If no `KFPAxxxx` message is output, contact a customer engineer.

**KFPT00009-E E+L**

*aa....aa*: SQL error occurred during reflection execution,  
TBLID=*bb....bb*, kind=*cccc*, code=*dd....dd*

An SQL error occurred during discrepancies application processing of the table ID (*bb....bb*).

*aa....aa*: Command name (see the command name in the embedded characters of KFPT00001-E)

*bb....bb*: Table ID

*cccc*: SQL type

PREP: PREPARE error

EXEC: EXECUTE error

*dd....dd*: Internal code

S: Terminates processing.

O:

See the `KFPAxxxx` message output immediately before this message to eliminate the cause of the error the message indicates, and then re-execute the command. If no `KFPAxxxx` message is output, contact a customer engineer.

**KFPT00010-E L**

*aa....aa*: failed to load library, library name=*bb....bb*, reason=*cc....cc*

Failed to load the library.

*aa....aa*: Command name (see the command name in the embedded characters of KFPT00001-E)

*bb....bb*: Name of the library failing to load

*cc....cc*: Reason loading failed

S: Terminates processing.

O: Contact the HiRDB administrator.

Action

If the library name is `lib_phsgml_rpl`, `lib_phsgml_rpl64`, or `lib_phsgml_rpl_r`, check if the HiRDB Text Search Plug-in is set up correctly.

**KFPT00011-E L**

*aa...aa*: failed to get procedure address, procedure name=*bb...bb*, library name=*cc...cc*, reason=*dd...dd*

Acquisition of the function address failed.

*aa...aa*: Command name (see the command name in the embedded characters of KFPT00001-E)

*bb...bb*: Function name

*cc...cc*: Library name

*dd...dd*: Reason for failure

S: Terminates processing.

O: Contact the HiRDB administrator.

Action

If the function name is `get_sgml_indata_ex`, check if the HiRDB Text Search Plug-in is set up correctly.

**KFPT00012-E L**

*aa...aa*: file access error, func=*bb...bb*, file=*cc...cc*, errno=*dd...dd*

A file access error occurred.

*aa...aa*: Command name (see the command name in the embedded characters of KFPT00001-E)

*bb...bb*: Element (name of the system call causing the error)

*cc...cc*: File name

If the file name is more than 150 bytes long, 150 bytes is displayed from the end.

*dd...dd*: Error number set to `errno`

S: Terminates processing.

O: Contact the HiRDB administrator.

Action

Based on the error number (`errno`: foreign variable indicating the error status), see `errno.h` and reference documentation on the applicable functions to eliminate the cause of the error, and then re-execute the command. For representative `errno` examples, see *4.3 System call return codes*.

**KFPT00013-E L**

*aa...aa*: LOCK TABLE failed, table name=*bb...bb*, lock kind=*cc...cc*

Locking on table *bb...bb* failed.

*aa...aa*: Command name (see the command name in the embedded character in message KFPT00001-E).

*bb...bb*: "*authorization-identifier*" . "*table-identifier*"

*cc...cc*: Lock mode

EXCLUSIVE: Lock mode

S: Terminates processing.

O: See the KFPAxxxx message that was output before this message, resolve the error, and then re-execute the command.

**KFPT01000-E E+L**

*aa...aa*:insufficient memory in message buffer pool

A temporary memory shortage occurred in the message storage buffer pool. Sometimes the KFPS00854-W message is output when this error occurs, but this is not a server error.

*aa...aa*: Command name (see the command name in the embedded characters of KFPT00001-E)

S: Terminates processing.

O:

Execute the `pdls` command (`-d prc`) to check whether another utility is running. If another utility is running, wait for the utility to terminate, and then re-execute.

**KFPT01001-E E+L**

*aa...aa*:unable to send message from *bb...bb* to *cc...cc*

An attempt to transmit data from host *bb...bb* to host *cc...cc* failed because a transmission error occurred.

*aa...aa*: Command name (see the command name in the embedded characters of KFPT00001-E)

*bb...bb*: Transmission source host name

*cc...cc*: Transmission host name

S: Terminates processing.

O:

Take action according to the KFPT00004-E message output before this message. However, if a physical communication error did not occur, it is possible for a contradiction to result in the system definition between hosts. Re-evaluate the host-to-host definition that causes the error, and then re-execute.

## 2. Messages

### **KFPT01002-E E+L**

*aa...aa*:invalid log record format exists in system log file,  
server=*bb...bb*, file\_group=*cc...cc*, block\_number=0x*dd...dd*,  
record\_number=0x*ee...ee*

A system log record in an invalid format was detected.

*aa...aa*: Command name (see the command name in the embedded characters of KFPT00001-E)

*bb...bb*: Server name

*cc...cc*: File group name of the system log file

*dd...dd*: Block number (hexadecimal)

*ee...ee*: Record number (hexadecimal)

S: Abnormally terminates.

O: Contact a customer engineer.

### **KFPT01003-E E+L**

*aa...aa*:unable to reflect,because reflect management table  
initialized

Discrepancies application processing could not be re-executed because the reflection management table was initialized.

*aa...aa*: Command name (see the command name in the embedded characters of KFPT00001-E)

S: Abnormally terminates.

O: Recover the state immediately before starting discrepancies application processing for the target RDAREA from the stored backup data. Then, re-execute discrepancies application processing.

### **KFPT01004-I L**

Pdorend:interrupt request accepted

An interrupt request was accepted.

S: Continues processing.

### **KFPT01005-E L**

Pdorend:request for reflect service failed,  
request=*aa...aa*, code=*bb...bb*

Request for reflection service failed.

*aa...aa*: Request content (maintenance information)

CONNECT: Activation request

CNTLINE: Control information transmission request

TABLEFRST: Table definition information transmission start request  
 TABLENEXT: Table definition information transmission continue request  
 TABLELAST: Table definition information transmission terminate request  
 DEUPDINF: DB update request  
 COMMIT: COMMIT request  
 DISCONNECT: Stop request

*bb...bb*: Response code (maintenance information)

S: Terminates processing.

O: Take action according to the KFPTxxxxx-E message output immediately before this message.

**KFPT01006-E L**

*aa....aa*: procedure for obtain ADT input data returned error status, procedure name=*bb...bb*, information=*cc....cc*

An abstraction data type input data retrieval function returned error label status.

*aa....aa*: Command name (see the command name in the embedded characters of KFPT00001-E)

*bb...bb*: Name of function where the error occurred

*cc....cc*: Additional information

S: Terminates processing.

O: Contact a customer engineer.

**KFPT01007-E L**

*aa....aa*: server down detected

An abnormal server termination was detected, or processing could not be executed because a system switchover occurred.

*aa....aa*: Command name (see the command name in the embedded characters of KFPT00001-E)

S: Terminates processing.

P:

Based on error messages already output, eliminate the cause of the error resulting in abnormal server termination, and then re-execute the command. If a system switchover occurred during processing, make the files required for command processing available from the host executing the command for referencing or updating, and then re-execute.

**KFPT01008-E L**

`Pdorend:error occurred during reflection execution,  
server=aa....aa,pdorend command process id=bb...bb`

An error occurred during discrepancies application processing of server *aa....aa*.

*aa....aa*: Name of server where the discrepancies application processing error occurred

*bb...bb*: Process ID of the `pdorend` command executing the discrepancies application processing on server *aa....aa*

S: Terminates processing.

O:

Refer to the message log file and the event log (in UNIX, syslogfile). Take action based on the error message (error message for the same process as process ID *bb...bb*) output after this message.

**KFPT01009-I L**

`Pdorend:reflection execution finished, server=aa....aa,pdorend  
command process id=bb...bb, ins=cc....cc, upd=dd....dd, del=ee....ee, cmt=ff....ff`

The catch-up processing by server *aa....aa* terminated.

*aa....aa*: The name of the server subject to catch-up processing

*bb...bb*: Process ID for the updatable online reorganization database reflection command (`pdorend`) that executed the catch-up processing for server *aa....aa*.

*cc....cc*: INSERT number of rows \*

*dd....dd*: UPDATE number of rows \*

*ee....ee*: DELETE number of rows \*

*ff....ff*: target transaction commit count

\* If a rollback occurs on the subsystem RDAREA during an updatable online reorganization operation, this also includes the number of DB updates performed for the recovery of the transaction.

S: Continues processing.

**KFPT01010-W L**

`aa....aa:SQL error skip occurred during reflection execution,  
server=bb...bb, pid=cc....cc`

An SQL error occurred on the item to be skipped during reflection processing by server *bb...bb*.

*aa....aa*: Command name (see the command name in the embedded character in message KFPT00001-E)



*bb...bb*: Name of the server on which the reflection processing error occurred.

*cc...cc*: Process ID

S: Continues processing.

Action

See the contents of the skip information output file *\_bb...bb\_cc...cc* that was specified in the `skip_info` operand of the `report` statement of the reflection control file. Acquire the contents (key value) of the update information that was skipped. From the acquired key value, retrieve the original RDAREA and the replica RDAREA, and update the data in the original RDAREA with the contents of the replica RDAREA as necessary.

**KFPT01011-E E+L**

*aa...aa*: only one "*bb...bb*" can be specified in reflection control file

Only one "*bb...bb*" statement can be specified in the reflection control file.

*aa...aa*: Command name (see the command name in the embedded character in message KFPT00001-E).

*bb...bb*: Name of the statement

S: Terminates processing.

Action

Reduce the number of "*bb...bb*" statements specified in the reflection control file, and then re-execute the command.

**KFPT01012-E E+L**

*aa...aa*: invalid absolute pathname, operand="*bb...bb*", max length=*cc...cc*, line=*dd...dd*

The absolute path name of the "*bb...bb*" operand specified in the *dd...dd* th row of the reflection control file is greater than the maximum value *cc...cc* for absolute path names.

*aa...aa*: Command name (see the command name in the embedded character in message KFPT00001-E).

*bb...bb*: Operand name

`skip_info`: The `skip_info` operand of the `report` statement.

*cc...cc*: Maximum value for absolute path names

*dd...dd*: Row number

S: Terminates processing.

Action

Create a file with a name that is *\_server-name* (9 characters maximum) appended to *\_process-ID* (11 characters maximum) in the absolute path name specified in the *skip\_info* operand. Change the absolute path name to a length less than or equal to the length that is obtained by subtracting the maximum length (20 characters) of the *\_server-name\_process\_ID* from the maximum absolute path name that is indicated in the message, and then re-execute the command.

**KFPT01013-E E+L**

*aa....aa*:invalid format exists in reflection control file,  
line=*bb....bb*, info="*cc....cc*"

The "*cc....cc*" format specified in the *bb....bb* th row of the reflection file is in error.

*aa....aa*: Command name (see the command name in the embedded character in message KFPT00001-E).

*bb....bb*: Row number

*cc....cc*: Character string containing the error (if the character string is more than 30 characters in length, only the first 30 characters are output)

S: Terminates processing.

Action

Revise the contents of "*cc....cc*", and then re-execute the command.

**KFPT01014-E E+L**

*aa....aa*:invalid attribute exists in reflection control file,  
line=*bb....bb*, operand="*cc....cc*"

The value of the "*cc....cc*" operand specified in the *bb....bb* th row of the reflection file contains an error.

*aa....aa*: Command name (see the command name in the embedded character in message KFPT00001-E).

*bb....bb*: Row number

*cc....cc*: Operand name

S: Terminates processing.

Action

Revise the value of the "*cc....cc*" operand, and then re-execute the command.

**KFPT01015-E E+L**

*aa....aa*: "*bb....bb*" statement not specified in reflection control file

The "*bb....bb*" statement required in the reflection file is missing.

*aa....aa*: Command name (see the command name in the embedded character in message KFPT00001-E).

*bb...bb*: Name of the statement

S: Terminates processing.

Action

Specify the "*bb...bb*" statement in the reflection file, and then re-execute the command.

**KFPT01016-E L**

*aa...aa*: SQLWARN occurred. Unable to reflection execution, server=*bb...bb*, pid=*cc...cc*, SQLCODE=*dd...dd*, SQLWARN=*ee...ee*

In server *bb...bb*, an SQLWARN error that prematurely terminated reflection processing occurred.

*aa...aa*: Command name (see the command name in the embedded character in message KFPT00001-E).

*bb...bb*: Name of the server on which the reflection processing error occurred.

*cc...cc*: Process ID

*dd...dd*: SQLCODE

*ee...ee*: SQLWARN

The value of *n* for the SQLWARN*n* error that occurred is output. If multiple SQLWARN*n* errors occurred, they are output delimited with commas.

S: Terminates processing.

Action

Refer to the SQL statement message that is output immediately after this message, and resolve the cause of the error. If an SQL statement-related message is not output, notify the customer engineer.

**KFPT01017-E L**

*aa...aa*: invalid attribute exists in reflection control file, operand="*bb...bb*", value="*cc...cc*", reason=*dd...dd*

The value "*cc...cc*" specified in the "*bb...bb*" operand in the reflection file is in error.

*aa...aa*: Command name (see the command name in the embedded characters of message KFPT00001-E).

*bb...bb*: Operand name

*cc...cc*: Operand specification value \*

- For the `skip_info` operand:

Name of the directory part in the skip information output file name that was specified in the operand

\* If the value specified in the operand is more than 100 bytes, the first 100 bytes from the end of the operand are output.

*dd...dd*: Reason code

Invalid-device: Invalid file format

Invalid-permission: Invalid file permission

No-directory: A directory is missing

S: Terminates processing.

**KFPT01018-W L**

*aa...aa*:unable to *bb...bb*, table name=*cc...cc*

*bb...bb* processing cannot be performed on table *cc...cc*.

*aa...aa*: Command name (see the command name in the embedded characters of message KFPT00001-E)

*bb...bb*: Processing type

set check pending status: Set in check pending status

*cc...cc*: "*authorization-identifier*" . "*table-identifier* "

S: Continues processing.

Action:

If the processing type is `set check pending status`, use the following procedure:

1. Complete the reflection processing that was interrupted by the `pdorend` command request to perform updatable online reorganization, then refer to the error message output immediately before this message, and remove the cause of the error indicated in the message.
2. Identify tables set in check pending status.
  - (a) Table *cc...cc* is a referenced table  
Set all referencing tables that make table *cc...cc* a referenced table in check pending status.
  - (b) Table *cc...cc* is a referencing table and a check constraint table  
Set table *cc...cc* in check pending status.
  - (c) Table *cc...cc* is a referencing table and a referenced table, and table *cc...cc* is a check constraint table and a referenced table  
Set table *cc...cc* and all referencing tables that make table *cc...cc* a referenced table in check pending status.

3. Use an integrity check utility to forcibly set in check pending status the original generation of (-q 0 specified) tables identified in 2.
4. Use an integrity check utility to check the integrity of tables set in check pending status in 3.

For details about integrity check utilities, see the manual *HiRDB Version 8 Command Reference*. For the procedure for table integrity checking, see the manual *HiRDB Version 8 Installation and Design Guide*.

**KFPT02000-E E**

*aa....aa*:invalid option specified with this command, option=*bb*

An invalid option was specified.

*aa....aa*: Command name (see the command name in the embedded characters of KFPT00001-E)

*bb*: Invalid option

S: Terminates processing.

O: Correct the command line specification, and then re-execute.

**KFPT02001-E E**

*aa....aa*:invalid combination of option flags (*bb* and *cc*) exists in command line

An invalid combination of option flags was found in the command line.

*aa....aa*: Command name (see the command name in the embedded characters of KFPT00001-E)

*bb*: Invalid combination of option flags

*cc*: Invalid combination of option flags

S: Terminates processing.

O: Correct the command line specification, and then re-execute.

**KFPT02002-E E**

*aa....aa*:invalid *bb* option

An error was found in the specification of the *bb* option.

This message is output in one of the following cases:

- There is no specified value.
- The specified value exceeds the maximum value.
- The type of the specified value is invalid.

*aa....aa*: Command name (see the command name in the embedded characters of KFPT00001-E)

## 2. Messages

*bb*: Invalid option flag

S: Terminates processing.

O: Correct the option specification, and then re-execute.

### **KFPT02003-E E**

*aa....aa*: option flag *bb...bb* not specified in command line

No specification for a required option flag was found in the command line.

*aa....aa*: Command name (see the command name in the embedded characters of KFPT00001-E)

*bb....bb*: Required option flag

S: Terminates processing.

O: Correct the option specification, and then re-execute.

### **KFPT02004-W E**

*aa....aa*: no data, RDAREA="*bb...bb*", server=*cc....cc*

There is no table, index, or LOB data in the specified RDAREA.

*aa....aa*: Command name (see the command name in the embedded characters of KFPT00001-E)

*bb....bb*: RDAREA name

*cc....cc*: Server name

S: Continues processing.

O: Check the specified RDAREA name.

### **KFPT02005-E E+L**

*aa....aa*: not original RDAREA, RDAREA="*bb...bb*", server=*cc....cc*

The specified RDAREA is not the original RDAREA.

*aa....aa*: Command name (see the command name in the embedded characters of KFPT00001-E)

*bb....bb*: RDAREA name

*cc....cc*: Server name

S: Terminates processing. However, if this message is output by an application condition check (*pdorchek* command) for online reorganization, the system manager continues processing until checking of all RDAREAs specified in the option is finished.

O: Specify the original RDAREA, and then re-execute.

**KFPT02006-E E**

*aa....aa*: number of *bb....bb* exceeds *cc....cc*

The specified number of *bb....bb* exceeds maximum value *cc....cc*.

*aa....aa*: Command name (see the command name in the embedded characters of KFPT00001-E)

*bb....bb*: Type of specified value

server names: Server name

RDAREA names: RDAREA name

table names: Table name

*cc....cc*: Maximum specifiable value

S: Terminates processing.

O: Check the number of specified *bb....bb*, correct this number, and then re-execute the command.

**KFPT02007-E E**

*aa....aa*: error exists in command line

An invalid specification value with no option flag was found in the specified command line.

*aa....aa*: Command name (see the command name in the embedded characters of KFPT00001-E)

S: Terminates processing.

O: See the usage of the command output after this message, correct the error, and then re-execute the command.

**KFPT02008-E E+L**

*Pdrdrefls*: invalid AUTHID in PDUSER

The authorization identifier set in environment variable PDUSER is invalid.

This message is output in the following cases:

- The specified value exceeds the maximum length.
- The content of the specified value is invalid.
- The character code of the specified value is invalid.

S: Terminates processing.

O: Correct the environment variable PDUSER, and then re-execute the command. For details about PDUSER, see the *HiRDB Version 8 UAP Development Guide*.

**KFPT02009-I E**

Usage: pdrdrefls [-k dsp] -e org {-r RDAREA\_name[,RDAREA\_name, ...]|-t [auth\_id.]table\_name} [-s server\_name[,server\_name, ...]] [-l [-d separator]] [-a] [-c constraint\_type]

Indicates the specification format of the pdrdrefls command (-k dsp). This message is output when the specification format of the command is invalid.

S: Terminates processing.

O: Correct the specification format of the pdrdrefls command, and then re-execute.

**KFPT02010-I E**

Usage: pdrdrefls -k chk -e org -r RDAREA\_name[,RDAREA\_name, ...] [-s server\_name[,server\_name, ...]] [-c constraint\_type]

Indicates the specification format of the pdrdrefls command (-k chk). This message is output when the specification format of the command is invalid.

S: Terminates processing.

O: Correct the specification format of the pdrdrefls command, and then re-execute.

**KFPT02012-I E**

Usage: pdorcheck -r RDAREA\_name[,RDAREA\_name, ...]

Indicates the specification format of the pdorcheck command. This message is output when the specification format of the command is invalid.

S: Terminates processing.

O: Correct the specification format of the pdorcheck command, and then re-execute.

**KFPT02014-I E+L**

Pdorcreate terminated, return code=*a*

Creation of the discrepancies application environment for online reorganization terminated.

*a*: Return code

0: Normal termination

8: Abnormal termination

S: Terminates processing.

O: If the return code is 8, eliminate the cause of the error based on the E-level message output during processing, and then re-execute.

**KFPT02015-I E**

Usage: pdorcreate {[-r RDAREA\_name[,RDAREA\_name, ...]] -o RDAREA\_name | -d}

Indicates the specification format of the pdorcreate command. This message is



output when the specification format of the command is invalid.

S: Terminates processing.

O: Correct the specification format of the `pdorcreate` command, and then re-execute.

**KFPT02016-E E+L**

*aa....aa*:unable to execute Online DB Reorganization,  
reason=*bb....bb*, resource kind=*cc....cc*, name=*dd....dd*

Updatable online reorganization could not be executed.

*aa....aa*: Command name (see the command name in the embedded characters of KFPT00001-E)

*bb....bb*: Reason

"invalid datatype": A data type not subject to processing is defined.

"unique index": The UNIQUE specification index required to execute updatable online reorganization is not defined.

"invalid RECOVERY type": The update log acquisition mode of the RDAREA for storing LOB columns is defined by a mode other than the log acquisition mode (ALL).

*cc....cc*: Resource type

table: Table

*dd....dd*: Name of resource not meeting the application condition:

Resource type is table: "*authorization-identifier*" . "*table-identifier*"

S: Continues processing.

O: Contact the HiRDB administrator.

Action

Contact the HiRDB administrator.

If *bb....bb* is "invalid datatype":

Check the data type of the configuration column in the table output by the applicable resource name, and then take one of the following actions:

- Define the table output by the applicable resource name in another RDAREA not subject to updatable online reorganization.
- Change the table output by the applicable resource name to a data type that can perform updatable online reorganization. For details about the data types on which updatable online reorganization can be performed, see the description of the `pdorcheck` command in the manual *HiRDB Version 8*

*Command Reference.*

If *bb...bb* is "unique index":

Take one of the following actions on a table output by the applicable resource name:

Define one of the following indexes:

- A primary key index not including in the configuration columns VARCHAR or MVARCHAR with a definition length of 256 bytes or more, nor an NVARCHAR column with a definition length of 128 characters or more
- A cluster key index specifying PRIMARY not including in the configuration columns VARCHAR or MVARCHAR with a definition length of 256 bytes or more, nor an NVARCHAR column with a definition length of 128 characters or more
- A cluster key index specifying UNIQUE not including in the configuration columns VARCHAR or MVARCHAR with a definition length of 256 bytes or more, nor an NVARCHAR column with a definition length of 128 characters or more
- An index specifying UNIQUE not including in the configuration columns (all configuration columns having NOT NULL attributes) VARCHAR or MVARCHAR with a definition length of 256 bytes or more, nor an NVARCHAR column with a definition length of 128 characters or more.

Define the table output by the applicable resource name in another RDAREA not subject to updatable online reorganization.

If *bb...bb* is "invalid RECOVERY type":

Check the data type of the configuration columns for the table output by the applicable resource name, and then take one of the following actions:

- Define the table output by the applicable resource name in another RDAREA not subject to updatable online reorganization.
- Execute DROP TABLE on a table output by the applicable resource name, set the column recovery restriction for all columns defined in the user LOB RDAREA to ALL, and then redefine the table.

**KFPT02017-E E+L**

*aa...aa*:invalid execution node

Server machine attempting to execute command *aa...aa* is invalid.

*aa...aa*: Command name (see the command name in the embedded characters of KFPT00001-E)

S: Terminates processing.

O: For HiRDB/Single Servers, execute the command from a server machine with Single servers. For HiRDB/Parallel Servers, execute the command from a server machine with the system manager.

**KFPT02018-W E+L**

`pdorcreate:reflection management table already aaaaaaa`

- If *aaaaaaa* is created:  
The reflection management table was already created.
- If *aaaaaaa* is dropped:  
The reflection management table was already deleted or cannot be created.

*aaaaaaa*: Status type

created: Created

dropped: Deleted or was not created

S: Terminates processing.

**KFPT02019-E E+L**

*aa...aa*:specified value not found in system, *bb...bb=cc...cc*

The specified name *bb...bb* was not found in the HiRDB system. When *bb...bb* is table, *bb...bb* may be a table defined by an alias.

*aa...aa*: Command name (see the command name in the embedded characters of KFPT00001-E)

*bb...bb*: *cc...cc* type

server: Server

RDAREA: RDAREA

table: Table

*cc...cc*: Specified name (names other than the server name are enclosed in double quotation marks ("))

S: Terminates processing. If this message is output by an application condition check (`pdorcheck` command) for online reorganization, continues processing until checking of all RDAREAs specified in the option ends.

O: Check if the specified name is in the HiRDB system, specify the correct name, and then re-execute the command.

**KFPT02020-I E+L**

`pdorcreate:reflection management table aaaaaaa`

Creation process or deletion process of the reflection management table is complete.

*aaaaaaa*: Status type  
created: Created  
dropped: Dropped  
S: Continues processing.

**KFPT02021-E E+L**

*aa...aa*:invalid RDAREA type, name="*bb...bb*"

RDAREA "*bb...bb*" is not a user RDAREA or user LOB RDAREA.

*aa...aa*: Command name (see the command name in the embedded characters of KFPT00001-E)

*bb...bb*: RDAREA name

S: Terminates processing. If this message is output by an application condition check (*pdorcheck* command) for online reorganization, continues processing until checking of all RDAREAs specified in the option ends.

O: Check the specified RDAREA name, specify the correct name, and then re-execute the command.

**KFPT02022-I E+L**

*pdorcheck*:all resources conformed to Online DB Reorganization

All resources in the specified RDAREA are subject to updatable online reorganization.

S: Continues processing.

**KFPT02023-W E+L**

*pdorcreate*:unable to delete environment of Online DB Reorganization, reason=*aa...aa*, server=*bb...bb*

A discrepancies application environment for online reorganization could not be deleted.

*aa...aa*: Reason

EXECUTING ORG: No servers are executing updatable online reorganization

*bb...bb*: Server name

S: Continues processing.

O: Execute the *pdsqls* command, and then check the status of all RDAREAs defined at the server output by *bb...bb*. Reply as follows to the dialog message (KFPT02024-Q) prompt output immediately after this message:

- If there is an RDAREA in online reorganization hold status:  
Enter *n* at the dialog input prompt, wait for updatable online reorganization to terminate, and then re-execute the command.

- If there is no RDAREA in online reorganization hold status:

Enter *y* at the dialog input prompt, and then continue the deletion process.

**KFPT02024-Q E+L**

`Pdorcreate:command` will delete environment of Online DB Reorganization by force. If RDAREA in Online DB Reorganization hold status exists, delete operation may destroy DB. Do you really want to proceed? (y/n)

This is a prompt message asking whether or not to forcibly delete the execution environment for updatable online reorganization.

If there is an RDAREA that is in online reorganization hold status, be careful, because specifying *y* may damage the database.

S: Continues processing if the user entered *y*. Terminates processing if the user entered *n* or any other value beside *y* or *n*.

O:

Check if the status of all RDAREAs belonging to the server for the KFPT02023-W message output immediately before this message is in online reorganization hold status.

If no RDAREAs are in online reorganization hold status, enter *y*. If some RDAREAs are in online reorganization hold status, enter *n*.

The status of the RDAREA can be checked using the `pddb1s` command.

**KFPT02025-E E+L**

`Pdorcreate:plural` RDAREAs defined for same server specified, `server=aa....aa`, `RDAREA="bb....bb"` and `"cc....cc"`

Multiple RDAREAs on the same server were specified.

*aa....aa*: Server name

*bb....bb*: RDAREA name on server *aa....aa*

*cc....cc*: RDAREA name on server *aa....aa*

S: Terminates processing.

O: Remove specified RDAREA *aa....aa* or "*bb....bb*" from the specification in the `-r` option, and then re-execute the command.

**KFPT02026-I E+L**

`Pdorcreate:dropping` reflection management table canceled

Dropping of the reflection management table was cancelled.

S: Continues processing.

**KFPT02027-E E+L**

*aa....aa*: replicated RDAREA not defined, name="*bb....bb*"

No replica RDAREA is defined in RDAREA "*bb....bb*".

*aa....aa*: Command name (see the command name in the embedded characters of KFPT00001-E)

*bb....bb*: RDAREA name

S: Terminates processing. If this message is output by an application condition check (*pdorcheck* command) for online reorganization, continues processing until checking of all RDAREAs specified in the option ends.

O: Define a replica RDAREA in RDAREA "*bb....bb*", and then re-execute the command.

**KFPT02028-W E**

*Pdrdrefls*:insufficient specification of RDAREA about relation, relation kind=*aaa*, required RDAREA name="*bb....bb*"

Specification of RDAREA is insufficient for the relation indicated by *aaa*.

*aaa*: Relation type

*org*: Relation to updatable online reorganization

*bb....bb*: Specified RDAREA name

S: Terminates processing.

O: Add the RDAREA name output by this message, and then re-execute the command. Alternatively, execute the *pdrdrefls -k dsp* command to check the related resources.

**KFPT02029-W E**

*Pdrdrefls*:all specified RDAREAs unsatisfied condition of *aa* option

No specified RDAREAs meet the conditions for the *aa* option.

*aa*: Option name of condition

*-s*: Server name

S: Continues processing.

O: Check the *aa* option specification and the RDAREA specified by the option, correct the option, and then re-execute the command.

**KFPT02030-W E**

*Pdrdrefls*:all table RDAREAs of specified table unsatisfied condition of *aa* option

No RDAREAs for table storage in the specified table meet the conditions of the *aa*

option.

*aa*: Option name of condition

-s: Server name

S: Continues processing.

O: Check the specification content of the *aa* option and the content of the RDAREA storing the table specified by the option, correct the content, and then re-execute the command.

**KFPT02031-E E+L**

Pdrdrefls:RDAREA unsatisfied condition of option *aa* specified,  
RDAREA=*bb...bb*

The RDAREA specified by option *aa* does not meet the conditions.

*aa*: Option name of condition

-s: Server name

*bb...bb*: RDAREA name that does not meet the conditions

S: Checks if the command is executable by the *aa* option on all RDAREAs specified by the option, and then terminates processing.

O: Check the specification content of the *aa* option and the content of the RDAREA specified by the option, correct the content, and then re-execute the command.

**KFPT02032-E E**

*aa...aa*:not available without specification of *bb...bb* operand

Command *aa...aa* could not be executed because the *bb...bb* operand is not defined in the system definition.

*aa...aa*: Command name

pdorcreate: Creates the discrepancies application environment of online reorganization

pdorcheck: Application condition check of online reorganization

*bb...bb*: Operand of the system definition

pd\_inner\_replica\_control: Maximum number of inner replica groups

pd\_max\_reflect\_process\_count: Number of processes secured during discrepancies application processing

S: Terminates processing.

O: Terminate HiRDB, add the system definition operand, and then start HiRDB. Then, re-execute the command.

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## 2.16 KFPU messages

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### **KFPU00200-E E**

Invalid option is specified with this command

An invalid option was specified in the command. Or, an option argument was not specified.

S: Cancels command processing.

O: Specify the correct option or option argument, and then re-execute the command.

### **KFPU00201-E E**

Number of command arguments or options exceeds the limit

Reduce the number of options to no more than 32 or the number of command arguments to no more than 64.

S: Cancels command processing.

O: Reduce the number of command arguments or options to no more than the maximum number and re-execute.

### **KFPU00202-E E**

Length of command arguments or option arguments exceeds the limit

Reduce the total length of command arguments or option arguments to no more than 4,096 characters.

S: Cancels command processing.

O: Correct the length and re-execute.

### **KFPU00210-W E+L**

Argument *bb...bb* of *aa...aa* function incorrect

Argument *bb...bb* is invalid in function *aa...aa*.

*aa...aa*:

`pdi_omt_malloc`: Module trace buffer allocation request

`pdi_urt_open`: RPC trace buffer open request

`pdi_uat_malloc`: UAP trace buffer allocation request

*bb...bb*:

`trnum`: Maximum number of module or UAP trace information items that can be stored

`file`: RPC trace file name



size: RPC trace file switching size

flags: RPC trace file attribute in effect when the file is opened

S: Resumes processing without collecting trace information.

P: Check the HiRDB installation for an error.

**KFPU00211-W E+L**

Function *aa...aa* already issued

Function *aa...aa* has already been issued.

*aa...aa*:

pdi\_omt\_malloc: Module trace buffer allocation request

pdi\_urt\_open: RPC trace buffer open request

S: Resumes processing.

**KFPU00212-W E+L**

Unable to perform tracing due to buffer allocation for *aa...aa* failed. process ID=*bb*, buffer size=*cc...cc*

Trace information is not being collected, because a buffer for *aa...aa* could not be allocated in the process private area.

*aa...aa*: Type of processing:

MODULE TRACE: Module trace

UAP TRACE: UAP trace

*bb...bb*: Process ID for which buffer could not be allocated

*cc...cc*: Size of buffer that was to be allocated

S: Resumes processing without collecting trace information.

P: If trace collection is not necessary, resume processing. If trace collection is necessary, terminate the corresponding process and check the size of the trace buffer.

**KFPU00215-E E+L**

Unable to open analysis file. analysis file=*aa...aa*, errno=*bbb*

An analysis file required for definition information analysis cannot be opened.

*aa...aa*: Analysis file name

*bbb*: Error number (errno)

(if the error number is 0, the specified path name is invalid).

S: Cancels definition file analysis processing.

O: Contact the HiRDB administrator.

Action

Eliminate the cause of the error, and then restart HiRDB.

**KFPU00216-E E+L**

Incorrect variable. file=*aa...aa*, line=*bb...bb*, variable=*cc...cc*

A specified variable value in a definition file is invalid.

*aa...aa*: Definition file name

*bb...bb*: Erroneous line

*cc...cc*: Variable name

S: Cancels analysis of the definition information resulting in the error.

O: Contact the HiRDB administrator.

Action

Check the specification format of the corresponding variable and correct the error.

**KFPU00217-E E+L**

Command name invalid. file=*aa...aa*, line=*bb...bb*, command=*cc...cc*

A command specified in a definition file cannot be analyzed.

*aa...aa*: Definition file name

*bb...bb*: Erroneous line

*cc...cc*: Command name

S: Cancels analysis of the definition information resulting in the error.

O: Contact the HiRDB administrator.

Action

Check the specification format of the corresponding command and correct the error.

**KFPU00218-E E+L**

Option name in definition file invalid. file=*aa...aa*, line=*bb...bb*, option=*cc...cc*

A specified option name in a definition file is invalid.

*aa...aa*: Definition file name

*bb...bb*: Erroneous line

*cc...cc*: Option name

S: Cancels analysis of the definition information resulting in the error.

O: Contact the HiRDB administrator.

## Action

Check the specification format of the corresponding option and correct the error.

**KFPU00219-E E+L**

Command argument invalid. file=*aa...aa*, line=*bb...bb*, command=*cc...cc*

A command argument is invalid.

*aa...aa*: Definition file name

*bb...bb*: Erroneous line

*cc...cc*: Command name

S: Cancels analysis of the definition information resulting in the error.

O: Contact the HiRDB administrator.

## Action

Check the specification format of the corresponding command and correct the argument.

**KFPU00220-E E+L**

Option argument invalid. file=*aa...aa*, line=*bb...bb*, option=*cc...cc*

An option argument is invalid.

*aa...aa*: Definition file name

*bb...bb*: Erroneous line

*cc...cc*: Option name

S: Cancels analysis of the definition information resulting in the error.

O: Contact the HiRDB administrator.

## Action

Check the specification format of the corresponding option and correct the argument.

**KFPU00221-E E+L**

Unable to analyze definition file due to insufficient memory.  
memory requirement=*aa...aa*

A memory shortage occurred during definition file analysis processing.

*aa...aa*: Size of memory to be allocated when the error occurred

S: Cancels definition file analysis processing.

O: Contact the HiRDB administrator.

## Action

Change the process size so that the maximum process size allowed by the system is not exceeded, and then restart HiRDB.

**KFPU00222-E E+L**

Number of nests in definition file exceeds the limit.  
file=*aa...aa*, line=*bb...bb*

The maximum number of nesting levels in a definition file was exceeded.

*aa...aa*: Definition file name

*bb...bb*: Erroneous line

S: Cancels analysis of the definition information resulting in the error.

O: Contact the HiRDB administrator.

Action

Check the include command utilization status and correct the information in the definition file so that the number of nesting levels does not exceed 5.

**KFPU00223-E E+L**

Option *aa...aa* specified twice. file=*bb...bb*, line=*cc...cc*

An option is duplicated.

*aa...aa*: Definition file name

*bb...bb*: Erroneous line

*cc...cc*: Option name

S: Cancels analysis of the definition information resulting in the error.

O: Contact the HiRDB administrator.

Action

Check the option specifications. If the same option is specified more than once, delete one of them.

**KFPU00224-E E**

Error occurred in system call (function) *aa...aa*. errno=*bb...bb*,  
function (command) name=*cc...cc*

A system call issued from within the program or a HiRDB function resulted in an error.

*aa...aa*: Name of the issued system call or HiRDB function

*bb...bb*: Return code of the system call or function

*cc...cc*: Name of the HiRDB function or command resulting in the error

S: Cancels processing and returns control to the calling source.

O: Refer to the return code to check the cause of the error. Also, output the module

trace or core file.

Action

Refer to the return information to check the cause of the error, and correct the program; alternatively modify the system definition.

**KFPU00240-E E+L**

Unable to set environmental variable. file=*aa...aa*, line=*bb...bb*

A variable environment variable is invalid.

*aa...aa*: File name

*bb...bb*: Erroneous line

S: Cancels analysis of the definition information resulting in the error.

O: Contact the HiRDB administrator.

Action

Check the format of the `putenv` operand in the system common definition and correct the environment variable.

**KFPU00241-E E+L**

I/O error occurred. file=*aa...aa*

An error occurred while reading a definition file and analysis file in order to analyze the definition information.

*aa...aa*: File name

S: Cancels definition file analysis processing.

O: Contact the HiRDB administrator.

Action

Eliminate the cause of the error, and then restart HiRDB.

**KFPU00242-E E+L**

Unable to open definition file. definition file=*aa...aa*, `errno`=*bbb*

A definition file cannot be opened.

*aa...aa*: Name of definition information file

*bbb*: Error number (`errno`)

(if the error number is 0, the specified absolute pathname is invalid)

S: Cancels analysis of the definition file resulting in the error.

O: Contact the HiRDB administrator.

Action

Check the specification format of the corresponding file and correct the file name and absolute pathname.

**KFPU00243-E E+L**

Record length exceeds the limit. file=*aa...aa*, line=*bb...bb*

The length of a definition information record exceeds the maximum (80 bytes).

*aa...aa*: File name

*bb...bb*: Erroneous line

S: Cancels analysis of the definition information resulting in the error.

O: Contact the HiRDB administrator.

Action

Check the specification format of the corresponding definition information and correct its length to no more than 80 bytes. Or, use a continuation line to specify the information.

**KFPU00244-E E+L**

Variable name specified wrong. file=*aa...aa*, line=*bb...bb*

A variable cannot be analyzed due to one of the following errors:

- No variable name is specified.
- The specified variable name is invalid.

*aa...aa*: File name

*bb...bb*: Erroneous line

S: Cancels analysis of the definition information resulting in the error.

O: Contact the HiRDB administrator.

Action

Specify the correct variable name. Or, check the relationship between the definition file and the defined information for an error.

**KFPU00245-E E+L**

Unable to open definition file specified with include.  
file=*aa...aa*, line=*bb...bb*, definition file=*cc...cc*, errno=*ddd*

The definition file specified in include cannot be opened.

*aa...aa*: File name

*bb...bb*: Erroneous line

*cc...cc*: Definition file name

*ddd*: Error number (errno)

(if the error number is 0, the specified absolute pathname is invalid)

S: Cancels analysis of the definition information resulting in the error.

O: Contact the HiRDB administrator.

Action

Check the specification format of the corresponding file and correct the file name and absolute pathname.

**KFPU00246-E E+L**

Definition *aa....aa* described wrong. file=*bb...bb*, line=*cc....cc*

Specification format of *aa....aa* is invalid.

*aa....aa*: Name of the erroneous definition (*set*, *putenv*, etc.)

*bb...bb*: File name

*cc....cc*: Erroneous line

S: Cancels analysis of the definition information resulting in the error.

O: Contact the HiRDB administrator.

Action

Check the specification format of the corresponding definition and correct the error.

**KFPU00247-E E+L**

Command name *aa....aa* invalid

A command name is invalid.

*aa....aa*: Command name

S: Cancels processing of the erroneous command.

O: Check the corresponding command name, correct the error, and then re-execute.

**KFPU00248-E E+L**

Option name in *aa....aa* command invalid

An option name is invalid.

*aa....aa*: Command name

S: Cancels processing of the erroneous command.

O: Check the option name in the command resulting in the error, correct the option name, and then re-execute.

**KFPU00249-E E+L**

Command argument invalid. command=*aa....aa*

## 2. Messages

A command argument is invalid.

*aa....aa*: Command name

S: Cancels processing of the erroneous command.

O: Check the argument in the command resulting in the error, correct the argument, and then re-execute.

### **KFPU00250-E E+L**

Option argument invalid. *option=aa....aa*

An option argument is invalid.

*aa....aa*: Option name

S: Cancels processing of the erroneous command.

O: Check the option argument of the command resulting in the error, correct the argument, and then re-execute.

### **KFPU00251-E E+L**

Option specified twice. *command=aa....aa*

An option is duplicated.

*aa....aa*: Command name

S: Cancels the processing of erroneous command.

O: Check the option specifications.

If the same option is specified more than once, delete one of them and re-execute the command.

### **KFPU00252-E E**

Unable to analyze definition file due to PDDIR not specified,  
*user=aa....aa*

The definition file could not be analyzed because the environment variable PDDIR was not set.

*aa....aa*: Login user name executing the process

S: Terminates processing.

O: Re-evaluate if the environment variable PDDIR is set in the login shell environment of the user executing the process. If execution of the command fails, set the environment variable PDDIR, and then re-execute.



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## 2.17 KFPW messages

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**KFPW00001-W E+L**

Not found External Data Access Adapter

The HiRDB External Data Access facility could not be used because the HiRDB External Data Access Adapter was not set up.

S: Continues processing.

Action

To use the HiRDB External Data Access facility, set up the HiRDB External Data Access Adapter.

**KFPW00002-E**

External Data Access Adapter version invalid, External Data Access Adapter=*aa....aa* version=*bbb*

The HiRDB External Data Access Adapter version does not assume use of the HiRDB External Data Access facility.

*aa....aa*: HiRDB External Data Access Adapter name

*bbb*: Version of the HiRDB External Data Access Adapter

S: Terminates processing.

Action

Cancel the HiRDB External Data Access Adapter causing the error, and then set up a version of the HiRDB External Data Access Adapter that assumes use of the HiRDB External Data Access facility. For details about the version of the HiRDB External Data Access facility required, see the *HiRDB External Data Access Version 7* manual.

**KFPW00003-W L**

No user mapping is specified for *aa....aa* foreign server

A foreign server could not be accessed because user mapping was not defined.

*aa....aa*: Foreign server name

S: Continues processing.

Action

Define user mapping by executing `CREATE USER MAPPING`, and then restart HiRDB.

**KFPW00004-E L**

Specified foreign server conflicts with External Data Access Adapter, name=*aa....aa* type=*bb....bb* version=*cc....cc*

The HiRDB External Data Access Adapter corresponding to the specified foreign server could not be found.

*aa....aa*: Foreign server name

*bb....bb*: Foreign server type

*cc....cc*: Server version and revision of the foreign server

S: Abnormally terminates.

Action

Install and set up the HiRDB External Data Access Adapter corresponding to *bb....bb* and *cc....cc*, and then restart HiRDB.

**KFPW02501-E L**

System error, func="*aa....aa*" code=*bb....bb* information=(*cc....cc*, *dd....dd*)

An error occurred in a HiRDB function.

*aa....aa*: Function name

*bb....bb*: Error code

*cc....cc*: Maintenance information 1

*dd....dd*: Maintenance information 2

S: Abnormally terminates.

Action

See *4.2 Detail codes for system-related errors* to eliminate the cause of the error, and then re-execute. If you cannot determine the cause of the error, contact a customer engineer.

**KFPW02502-E L**

System call error occurred, func="*aa....aa*" errno=*bb....bb* information=(*cc....cc*, *dd....dd*)

An error occurred during a system call.

*aa....aa*: System call name

*bb....bb*: Error code (foreign integer variable expressing the error status)

*cc....cc*: Maintenance information 1

*dd....dd*: Maintenance information 2

S: Abnormally terminates.

**Action**

Take one of the following actions:

- If the system call name is `shl_load` and the error code is 2:

The `pd_foreign_server_libpath` operand may not be properly specified. Specify the pathname of the client library in the foreign server corresponding to the HiRDB External Data Access Adapter in the `pd_foreign_server_libpath` operand. Then, restart the HiRDB system.

- In all other cases:

For more information on error codes, see `errno.h` or documentation on the applicable functions to eliminate the cause of the error. Then, restart the HiRDB system.

**KFPW02503-I L**

*aa....aa*

Outputs error information issued by a system call.

If the system log facility in the operating system does not support Japanese character code, messages may not be properly output to the system log. In this case, see the HiRDB message log.

*aa....aa*: Error information

S: Continues processing.

**KFPW02504-E L**

System call error occurred, func = "*aa....aa*" information = (*bb....bb*, *cc....cc*)

An error occurred during the system call.

*aa....aa*: System call name

*bb....bb*: Maintenance information 1

*cc....cc*: Maintenance information 2

S: Continues processing.

**Action**

See the KFPW02503-I message output before this message to eliminate the cause of the error, and then restart the HiRDB system.

**KFPW05001-E L**

Incorrect definition variable, definition file=*aa....aa* definition variable=*bb....bb*

An error was found in the specified value of an operand in the foreign server

information definition.

*aa....aa*: Foreign server information definition file name (foreign server name)

*bb....bb*: Operand name with the error

S: Abnormally terminates.

Action

Correct the operand with the error, and then restart the HiRDB system.

**KFPW05002-E L**

The *aa....aa* definition variable must be specified, definition file=*bb....bb* type=*cc....cc*

A foreign server information definition has not been created.

*aa....aa*: Foreign server information definition name

*bb....bb*: Foreign server information definition file name (foreign server name)

*cc....cc*: Type of foreign server

S: Terminates processing.

Action

Create the foreign server information definition, and then restart the HiRDB system.

**KFPW05003-E L**

Insufficient shared memory for foreign server definition, file=*aa....aa*

There is insufficient area for storing the foreign server information definition in the `putenv` format.

*aa....aa*: Foreign server information definition file name (foreign server name)

S: Terminates abnormally.

Action

There is an operand in the `putenv` format in the foreign server information definition file not described in any manual. Delete the operand in the `putenv` format not described in any manual, and then restart the HiRDB system.

**KFPW05004-W L**

The specified environment variable is invalid, variable=*aa....aa* definition file=*bb....bb* type=*cc....cc*

The operand in the specified client environment definition is invalid, even if specified in a foreign server information definition file. The specified operand applies fixed values to the foreign server or specified values to the local HiRDB server.

*aa....aa*: Operand name of the client environment definition

*bb....bb*: Foreign server information definition file name (foreign server name)

*cc....cc*: Type of foreign server

S: Continues processing.

Action

Delete the *aa....aa* operand from the foreign server information definition.

**KFPW05010-E L**

Server *aa....aa* termination failed

An error occurred during the server's shutdown process.

*aa....aa*: Server name

S: Abnormally terminates.

Action

Eliminate the cause of the error based on the KFPW02501-E message output before this message, and then restart HiRDB.

**KFPW05030-E L**

Insufficient memory on PROCESS, size=*aa....aa*

A shortage of process private area memory occurred when HiRDB was starting.

*aa....aa*: Area size to be secured (unit: bytes)

S: Abnormally terminates.

Action

Re-evaluate the process count, etc., and then restart HiRDB, or increase the swap area.

**KFPW05031-E L**

HiRDB System "*aa....aa*" failed, return code=*bb....bb*

When the system manager facility "*aa....aa*" was executing, the HiRDB system terminated with return code *bb....bb*.

*aa....aa*: HiRDB facility

*bb....bb*: Return code

S: Abnormally terminates.

Action

See 4.2 *Detail codes for system-related errors* to eliminate the cause of the error, and then re-execute. If you cannot determine the cause of the error, contact a customer engineer.

**KFPW05032-E L**

Work file "*aa...aa*" failed, return code=*bb...bb* file=*cc...cc*  
"*aa...aa*" to work file *cc...cc* returned error code *bb...bb* and terminated.  
*aa...aa*: HiRDB file system facility

{open|close|lseek|read|write}

*bb...bb*: Return code

*cc...cc*: Work file name

S: Abnormally terminates.

Action

See *4.2 Detail codes for system-related errors* to eliminate the cause of the error, and then re-execute. If you cannot determine the cause of the error, contact a customer engineer.

**KFPW05033-E L**

System error, func "*aa...aa*", code=*bb...bb*

An error occurred in the HiRDB function.

*aa...aa*: HiRDB function name

*bb...bb*: Error code

S: Abnormally terminates.

Action

See *4.2 Detail codes for system-related errors* to eliminate the cause of the error, and then re-execute. If you cannot determine the cause of the error, contact a customer engineer.

**KFPW05034-E L**

Server *aa...aa* initialization failed, function=*bb...bb*, return code=*cc...cc*

While the server was starting, *bb...bb* caused an error with the return code *cc...cc*.

*aa...aa*: Server name

*bb...bb*: Function causing the error

*cc...cc*: Return code

S: Abnormally terminates.

Action

See the message output before this message to eliminate the cause of the error, and then restart the HiRDB system.

**KFPW05035-E L**

System call error occurred, func="*aa....aa*", errno=*bb...bb*

An error occurred during a system call.

*aa....aa*: System call name

When the system call cannot be determined, **\*\*\*\*** is output.

*bb...bb*: Error code (foreign integer variable indicating the error status)

S: Abnormally terminates.

Action

See `errno.h` or documentation on the operating system you are using to eliminate the cause of the error, and then re-execute.

**KFPW05036-E L**

System call error occurred, func="system", cmd="*aa....aa*",  
code=*bb...bb*, inf="*cc....cc*"

An error occurred during a command executed by the `System` function.

*aa....aa*: Command name

*bb...bb*: Termination code of shell

*cc....cc*: Error output information of the command

S: Abnormally terminates.

Action

Based on the error output information and termination code of the shell, refer to documentation for the operating system you are using. Eliminate the cause of the error, and then re-execute.

**KFPW05037-I L**

Information type=*aa....aa* detail="*bb...bb*"

Type *aa....aa*, detail "*bb...bb*" occurred.

*aa....aa*: Type of information

*bb...bb*: Internal information

S: Continues processing.

**KFPW05038-I L**

Server *aa....aa* waiting until dictionary server start

When starting a back-end server, the dictionary server must already be active. Therefore, wait for the dictionary server to start.

*aa....aa*: Server name

S: Continues processing.

If the dictionary server started, continues processing. If starting of the dictionary server is not detected within a specified time period, processing continues without checking for startup of the dictionary server.

Action

Start the dictionary server or the server machine containing the dictionary server. If a network error may have occurred, eliminate the cause of the error.

**KFPW05039-W L**

Reduced External Data Access due to DATADictionary search failed  
SQLCODE=aaaa

The HiRDB External Data Access facility could not be used because the dictionary table search failed.

aaaa: SQLCODE

S: Continues processing in a state in which the HiRDB External Data Access facility cannot be used.

Action

To use the HiRDB External Data Access facility, take action according to the message output immediately before this message, and then restart the HiRDB system.

**KFPW05040-E L**

Unmatched foreign server definition (standby=aa....aa,  
current=bb...bb)

Definition information (external server definition or user mapping definition) related to the foreign server in the standby system and the running system does not match. This message is output when all of the following conditions are met:

- The rapid system switchover facility is in use
- The running system stopped and restarted when the standby system was in wait status
- A system switchover occurred in a state in which the standby system stopped and did not restart

aa....aa: Maintenance information

bb...bb: Maintenance information

S: Abnormally terminates.

Action

Restart the HiRDB system.



**KFPW06000-W E**

Cannot connect to foreign server, back end server name=*aa....aa*  
foreign server name=*bb....bb* id=*cc....cc*

A connection to a foreign server could not be established during startup of back-end server processing.

*aa....aa*: Name of the back-end server

*bb....bb*: Foreign server name

*cc....cc*: Process ID

S: Continues processing.

Action

Eliminate the cause of the error.

**KFPW06001-E E**

Cannot connect to foreign server, back end server name=*aa....aa*  
foreign server name=*bb....bb* id=*cc....cc*

The system could not connect to a foreign server at process activation, because user mapping was not defined for PUBLIC on the foreign server.

*aa....aa*: Name of the back-end server

*bb....bb*: Foreign server name

*cc....cc*: Process ID

S: Continues processing.

Action

Use the CREATE USER MAPPING statement to define user mapping for PUBLIC, terminate HiRDB normally, and then perform normal startup. Alternatively, change the connection timing for accessing the foreign server (using the set format foreign server definition `pd_hb_db_con` operand), and then restart HiRDB. For details about the CREATE USER MAPPING statement, see the manual *HiRDB Version 8 SQL Reference*. For details about the set format foreign server definition `pd_hb_db_con` operand, see the manual *HiRDB Version 8 System Definition*.

**KFPW06011-W E**

Cannot disconnect to foreign server, back end server name=*aa....aa*  
foreign server name=*bb....bb* id=*cc....cc*

An attempt to disconnect from a foreign server failed during termination of the back-end server process.

*aa....aa*: Name of the back-end server

## 2. Messages

*bb...bb*: Foreign server name

*cc...cc*: Process ID

S: Continues processing.

Action

Eliminate the cause of the error.

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## 2.18 KFPX messages

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**KFPX14004-E L**

Line *aaaa:bb...bb* operand value *cc...cc* invalid

Operand *bb...bb* is invalid.

*aaaa*: Line number

*bb...bb*: Operand name

*cc...cc*: Invalid operand value

S: Terminates processing after analyzing all the specified control statements.

Action

Correct the operand in the control statement and re-execute.

**KFPX14017-E L**

No control statements

The specified control statements file contains no control statements.

S: Terminates processing.

Action

Specify control statements in the control statements file and re-execute.

**KFPX14018-E L**

Specified control statement incomplete

A semicolon (;) was specified before the end of a control statement.

S: Terminates processing after analyzing all the specified control statements.

Action

Correct the control statement and re-execute.

**KFPX14019-E L**

Unable to omit *aa...aa* RDAREA

An RDAREA required for the database initialization utility is missing.

*aa...aa*: Type of RDAREA:

datadictionary: Data dictionary RDAREA

datadictionary(LOB): Data dictionary LOB RDAREA

datadirectory: Data directory RDAREA

masterdirectory: Master directory RDAREA

S: Terminates processing after analyzing all the specified control statements.

Action

Specify the displayed RDAREA (*aa....aa*) with the `create rdarea` statement and re-execute. Specify two data dictionary LOB RDAREAs.

**KFPX14020-E L**

Line *aaaa:bb...bb* operand value *cc...cc* duplicate

Value *cc...cc* specified in operand *bb...bb* has already been specified.

*aaaa*: Line number

*bb...bb*: Operand keyword

*cc...cc*: Duplicated operand value

S: Terminates processing after analyzing all the specified control statements.

Action

Delete the unnecessary operand value (*cc...cc*) and re-execute.

**KFPX14023-E L**

Line *aaaa*: number of *bb...bb* rdarea exceeds *cccc*

The number of *bb...bb* RDAREAs exceeded the maximum of *cccc*.

*aaaa*: Line number

*bb...bb*: Type of RDAREA:

`datadictionary`: Data dictionary RDAREA

`datadictionary (LOB)`: Data dictionary LOB RDAREA

`datadictionary of routines`: Data dictionary RDAREA specifying routines

`datadirectory`: Data directory RDAREA

`masterdirectory`: Master directory RDAREA

*cccc*: Maximum number of RDAREAs

S: Terminates processing after analyzing all the specified control statements.

Action

Correct the number of RDAREAs so that the maximum is not exceeded and re-execute.

**KFPX14024-E L**

Line *aaaa*: required *bb...bb* operand not specified

Required operand *bb...bb* is missing.

*aaaa*: Line number

*bb...bb*: Required operand

S: Terminates processing after analyzing all the specified control statements.

Action

Specify the required operand and re-execute.

**KFPX14025-E L**

Line *aaaa*: number of parameters in *bb...bb* operand exceeds *cccc*

The number of parameters in operand *bb...bb* exceeds the maximum value *cccc*.

*aaaa*: Line number

*bb...bb*: Operand name

*cccc*: Maximum number of parameters

S: Terminates processing after analyzing all the specified control statements.

Action

Correct the number of parameters so that the maximum is not exceeded and re-execute.

**KFPX14026-E L**

Line *aaaa*: invalid string "*bb...bb*" in statement *cc...cc*

Invalid character string "*bb...bb*" was found in control statement *cc...cc*.

*aaaa*: Line number

*bb...bb*: Invalid character string

*cc...cc*: Name of the control statement containing the invalid character string

S: Terminates processing after analyzing all the specified control statements.

Action

Delete the invalid character string ("*bb...bb*") and re-execute.

**KFPX14027-E L**

Line *aaaa*: duplicate *bb...bb* operand

Operand *bb...bb* is duplicated.

*aaaa*: Line number

*bb...bb*: Operand name

S: Terminates processing after analyzing all the specified control statements.

Action

Delete the duplicated operand and re-execute.

**KFPX14029-E L**

Line *aaaa*: number of *bb...bb* operands exceeds *cccc*

The number of operands *bb...bb* exceeded the maximum of *cccc*.

*aaaa*: Line number

*bb...bb*: Operand name

*cccc*: Maximum number of operands

S: Terminates processing after analyzing all the specified control statements.

Action

Correct the number of operands so that the maximum is not exceeded and re-execute.

**KFPX14030-E L**

Line *aaaa*: invalid *bb...bb* statement

An invalid control statement was detected.

*aaaa*: Line number

*bb...bb*: Detected invalid control statement

S: Terminates processing after analyzing all the specified control statements.

Action

Correct the control statement and re-execute.

**KFPX14031-E E**

Line *aaaa*: control statements out of sequence

The input sequence of control statements is invalid.

*aaaa*: Line number

S: Terminates processing after analyzing all the specified control statements.

Action

Rearrange the control statements in the correct sequence and re-execute the statements.

RDAREAs must be specified in the following sequence:

1. Master directory
2. Data directory
3. Data dictionary
4. Data dictionary (LOB)

5. User
6. LOB
7. LIST

*Note*

Nos. 5, 6, and 7 may be specified in any order.

**KFPX14035-E L**

Line *aaaa*:mismatched double quotations in *bb...bb*

Quotation marks (") are not correctly paired for operand value *bb...bb* in a control statement.

*aaaa*: Line number

*bb...bb*: Specified operand value

S: Terminates processing after analyzing all the specified control statements.

## Action

Correct the quotation marks and re-execute.

**KFPX14045-W L**

Line *aaaa*:page size raised to *bb...bb*

A page length was rounded up to *bb...bb*, because it was not a multiple of 2048.

*aaaa*: Line number

*bb...bb*: Assumed value

S: Resumes processing, assuming the indicated page length.

## Action

Specify a multiple of 2048 as the page length in the page *bb...bb* characters operand of the `create rdarea` statement.

**KFPX14046-W L**

Line *aaaa*: *bb* pages assumed for segment size

The system constant 50 was assumed for the segment length of the master directory RDAREA or the data directory RDAREA. Or, the system constant 1 was assumed for the segment length of the LOB RDAREA.

*aaaa*: Line number

*bb*: Assumed value for segment length { 1|50 }

S:

Master directory RDAREA or data directory RDAREA:

Resumes processing with 50 as the segment length.

LOB RDAREA:

Resumes processing with 1 as the segment length.

Action

Correct to *bb* the segment length in the storage control segment operand of the `create rdarea` statement.

Master directory RDAREA or data directory RDAREA:

Set the segment length value to 50.

LOB RDAREA:

Set the segment length value to 1.

**KFPX14047-W L**

Line *aaaa*:missing semicolon assumed

A semicolon (;) was assumed, because it was missing at the end of a control statement.

*aaaa*: Line number

S: Resumes processing.

Action

Specify a semicolon (;).

**KFPX14051-E L**

Too small RDAREA size, RDAREA name *aa....aa*, size=*bbbb*

There are not enough units for the number of segments in RDAREA *aa....aa*.

*aa....aa*: RDAREA name

*bbbb*: Required number of segments

S: Terminates processing.

Action

Specify a value of at least *bbbb* in the `initial` operand of the control statement and re-execute.

**KFPX14078-W L**

Line *aaaa*: extension nouse assumed

The automatic extension facility can be specified only for the types of RDAREAs listed below. Because another type of RDAREA was specified, `nouse` was assumed for the `extension` operand specification value.

- Data dictionary RDAREA



- Data dictionary LOB RDAREA
- User RDAREA
- User LOB RDAREA
- Registry RDAREA
- Registry LOB RDAREA

*aaaa*: Line number

S: Continues processing.

Action

Correct to nouse the specification value of the extension operand in the create rdarea statement.

**KFPX14204-E L**

Line *aaaa:bb...bb* operand value *cc...cc* invalid

Specified operand *bb...bb* is invalid.

*aaaa*: Line number

*bb...bb*: Operand name

*cc...cc*: Invalid operand value

S: Terminates processing after analyzing all the specified control statements.

Action

Correct the operand value in the control statement and re-execute.

**KFPX14217-E L**

No control statements

Specified control statements file contains no control statements.

S: Terminates processing.

Action

Specify control statements in the control statements file and re-execute.

**KFPX14218-E L**

Specified control statement incomplete

A semicolon (;) was specified before the end of a control statement.

S: Terminates processing after analyzing all the specified control statements.

Action

Correct the control statement and re-execute.

**KFPX14220-E L**

Line *aaaa:bb...bb* operand value *cc...cc* duplicate

Value *cc...cc* specified in operand *bb...bb* has already been specified or already exists in the system.

*aaaa*: Line number

*bb...bb*: Operand keyword

*cc...cc*: Duplicate operand value

S: Terminates processing after analyzing all the specified control statements.

Action

Delete the unnecessary operand value (*cc...cc*) and re-execute.

**KFPX14223-E L**

Line *aaaa*:number of *bb...bb* rdarea exceeds *cccc*

The number of RDAREAs of type *bb...bb* exceeded the maximum value of *cccc*.

*aaaa*: Line number

*bb...bb*: Type of RDAREA:

*datadictionary (LOB)*: Data dictionary LOB RDAREAs

*datadictionary of routines*: Data dictionary RDAREAs specifying routines

*registry*: Registry RDAREA

*registry (LOB)*: Registry LOB RDAREA

*datadictionary of dbmanagement*: Data dictionary RDAREA with a dbmanagement specification

*cccc*: Maximum number of RDAREAs of the indicated type

S: Terminates processing.

Action

Correct the number of RDAREAs so that the maximum is not exceeded and re-execute.

**KFPX14224-E L**

Line *aaaa*:required *bb...bb* operand not specified

Required operand *bb...bb* is missing.

*aaaa*: Line number

*bb...bb*: Required operand

S: Terminates processing after analyzing all the specified control statements.

Action

Specify the required operand and re-execute.

**KFPX14225-E L**

Line *aaaa*:number of parameters in *bb...bb* operand exceeds *cccc*

The number of parameters in operand *bb...bb* exceeds the maximum of *cccc*.

*aaaa*: Line number

*bb...bb*: Operand name

*cccc*: Maximum number of parameters

S: Terminates processing after analyzing all the specified control statements.

Action

Correct the number of parameters so that the maximum is not exceeded and re-execute.

**KFPX14226-E L**

Line *aaaa*:invalid string "*bb...bb*" in statement *cc...cc*

Control statement *cc...cc* contains invalid character string "*bb...bb*".

*aaaa*: Line number

*bb...bb*: Invalid character string

*cc...cc*: Name of the control statement containing the invalid character string

S: Terminates processing after analyzing all the specified control statements.

Action

Delete the invalid character string ("*bb...bb*") and re-execute.

**KFPX14227-E L**

Line *aaaa*:duplicate *bb...bb* operand

Operand *bb...bb* is duplicated.

*aaaa*: Line number

*bb...bb*: Operand name

S: Terminates processing after analyzing all the specified control statements.

Action

Delete the duplicated operand and re-execute.

**KFPX14229-E L**

Line *aaaa*:number of *bb...bb* operands exceeds *cccc*

## 2. Messages

The number of operands *bb...bb* exceeded the maximum of *cccc*.

*aaaa*: Line number

*bb...bb*: Operand name

*cccc*: Maximum number of operands

S: Terminates processing after analyzing all the specified control statements.

Action

Correct the number of operands so that the maximum is not exceeded and re-execute.

### **KFPX14230-E L**

Line *aaaa*:invalid *bb...bb* statement

An invalid control statement was detected.

*aaaa*: Line number

*bb...bb*: Detected invalid control statement

S: Terminates processing after analyzing all the specified control statements.

Action

Correct the control statement and re-execute.

### **KFPX14235-E L**

Line *aaaa*:mismatched double quotations in *bb...bb*

Quotation marks (") are not correctly paired for operand value *bb...bb* in a control statement.

*aaaa*: Line number

*bb...bb*: Specified operand value

S: Terminates processing after analyzing all the specified control statements.

Action

Correct the quotation marks and re-execute.

### **KFPX14236-E L**

Unable to *aa...aa* rdarea due to invalid RDAREA status[, server name= *bb...bb*]

Structure modification processing *aa...aa* cannot be executed due to invalid RDAREA status.

*aa...aa*: Structure modification processing:

alter: Modification

expand: Expansion  
 initialize: Re-initialization  
 remove: Deletion  
 define copy: Copy configuration information  
 recast: Integrate

*bb...bb*: Server name (this is output only for a shared RDAREA)

S: Cancels structure modification processing for the corresponding RDAREA and processes the next control statement.

#### Action

Place the RDAREA on the following status and re-execute:

alter: Closed status or command shutdown status  
 expand: Open status or command shutdown status (non-shutdown or hold)  
 initialize: Closed and command shutdown status or error shutdown status  
 remove: Closed and command shutdown status or error shutdown status  
 define copy: Closed and command shutdown status  
 recast: Closed and command shutdown status

#### **KFPX14238-E L**

Unable to *aa....aa* "*bb...bb*" due to invalid RDAREA type

Because the RDAREA type is invalid for RDAREA "*bb...bb*", structure modification processing *aa....aa* cannot be executed.

*aa....aa*: Structure modification processing:

initialize: Reinitialize the RDAREA  
 remove: Delete the RDAREA  
 replicate: RDAREA replica definition  
 define copy: Copy RDAREA configuration information  
 move: Move the RDAREA  
 create audit table: Create an audit trail table for the RDAREA

*bb...bb*: RDAREA name

S: Cancels structure modification processing for the corresponding RDAREA and resumes processing.

#### Action

Specify the type of RDAREA shown below and re-execute:

`initialize`: User RDAREA, data dictionary LOB RDAREA, user LOB RDAREA, list RDAREA, registry RDAREA, and registry LOB RDAREA

`remove`: Data dictionary RDAREA that stores a user RDAREA, user LOB RDAREA, list RDAREA, database state analyzed table, and database management table

`replicate`: User RDAREA or user LOB RDAREA

`define copy`: User RDAREA or user LOB RDAREA

`move`: User RDAREA and user LOB RDAREA

`create audit table`: User RDAREA (shared RDAREAs cannot be specified)

**KFPX14245-W L**

Line *aaaa*: page size raised to *bb...bb*

A page length was rounded up to *bb...bb*, because it was not a multiple of 2048.

*aaaa*: Line number

*bb...bb*: Assumed value

S: Assumes the indicated page length and resumes processing.

Action

Specify a multiple of 2048 as the page length in the page *bb...bb* characters operand of the `create rdarea` statement.

**KFPX14246-W L**

Line *aaaa*: *bb* pages assumed for segment size

The system constant 1 was assumed as the segment length of the LOB RDAREA.

*aaaa*: Line number

*bb*: Assumed segment length value

S: Resumes processing with 1 as the segment length.

P: Correct to 1 the segment length value in the storage control segment operand of the `create rdarea` statement.

**KFPX14247-W L**

Line *aaaa*:missing semicolon assumed

A semicolon (;) was assumed, because it was missing at the end of a control statement.

*aaaa*: Line number

S: Resumes processing.

Action

Specify a semicolon (;).

**KFPX14250-I L**

Processing of [*aa....aa*] statement ended return code=*bb* [, RDAREA name = "*cc....cc*" [to *dd....dd*]]

Structure modification utility function *bb....bb* terminated with return code *bb*.

*aa....aa*: Database structure modification utility function (this information may not be displayed in the event of a control statement analysis error):

- alter rdarea: RDAREA modification
- alter HiRDB mode: Conversion from single to parallel
- alter system: Modification of system definitions
- create rdarea: RDAREA addition
- expand rdarea: RDAREA expansion
- initialize rdarea: RDAREA re-initialization
- remove rdarea: RDAREA deletion
- create generation: HiRDB file system area generation registration
- remove generation: HiRDB file system area generation removal
- replicate rdarea: RDAREA replica definition
- define copy rdarea: RDAREA configuration information copying
- recast rdarea: RDAREA integration
- move rdarea: RDAREA moving
- create auditor: Auditor registration
- create audit table: Audit trail table creation

*bb*: Return code:

0: Normal termination

4: Warning error occurred, but processing terminated

8: Terminated abnormally (refer to the output error message to eliminate the cause of the error, and then re-execute)

*cc....cc*: RDAREA name

In some cases, this message is not output when a control statement analysis error occurs. This message also is not output when using the alter HiRDB mode or create auditor functions.

*dd....dd*: Server name for the migration destination (is only output during RDAREA

migration)

S: Resumes processing.

**KFPX14251-E L**

Too small RDAREA size, RDAREA name *aa...aa*, size=*bbbb*

There are too few segments in RDAREA *aa...aa*.

*aa...aa*: RDAREA name

*bbbb*: Required number of segments

S: Terminates processing.

P: Set the specification of the `initial` operand in the control statement to *bbbb* or greater and re-execute.

**KFPX14253-E L**

*aa...aa bb...bb* not defined

*aa...aa* named *bb...bb* was not found in the system.

*aa...aa*: Type of name:

RDAREA: RDAREA

File: HiRDB file

Rfile: Replica HiRDB file system area name

*bb...bb*: Displays one of the following:

- RDAREA name
- HiRDB file name
- Replica HiRDB file system area name (generation number)

S: Cancels structure modification processing for the corresponding RDAREA and processes the next control statement.

Action

Correct the RDAREA name and the HiRDB file name, and then re-execute. For the replica HiRDB file system area name, register the generation of the HiRDB file system area, and then re-execute.

**KFPX14255-W L**

Unable to initialize index *aa...aa.bb...bb* due to *cc...cc*, RDAREA name="*dd...dd*"

Index *aa...aa.bb...bb* cannot be initialized because *cc...cc*.

*aa...aa*: Authorization identifier

*bb...bb*: Index identifier



*cc....cc*: Error cause:

RDAREA status is invalid: Status of RDAREA is invalid.

HiRDB system error occurred: An SQL error occurred.

*dd....dd*: RDAREA name

S: Interrupts index initialization of the affected RDAREA and executes the next process.

Action

If RDAREA status is invalid:

RELEASE and OPEN the RDAREA status and re-execute initialization. Or, re-create the index when inserting data into the RDAREA index that was initialized with the database reorganization utility.

If SQL error occurred:

Refer to the SQL message, eliminate the cause of the error, and then re-execute initialization. Or, re-create the index when inserting data into the RDAREA index that was initialized with the database reorganization utility.

If this action is not performed and retrieval or insertion is executed on the *aa....aa . bb....bb* index, the results are not guaranteed because the index data was not deleted.

**KFPX14259-E L**

Unable to remove due to exist table or index

The RDAREA could not be removed because it contains a table, index, LOB column, or replica RDAREA.

S: Terminates processing.

Action

Remove all tables, indexes, LOB columns, or replica RDAREAs from the target RDAREA, and then re-execute the command.

**KFPX14262-E L**

Unable to *aa....aa* due to insufficient master directory rdarea

*aa....aa* cannot be processed, because a space shortage occurred in the master directory RDAREA.

*aa....aa*: Processing resulting in the error:

create rdarea: RDAREA addition

replicate rdarea: RDAREA replica definition

S: Terminates processing.

Action

Re-execute after expanding the master directory RDAREA (`expand rdarea`).

**KFPX14268-W L**

Too small RDAREA size, RDAREA = *aa...aa*, area size=*bbbb-cccc*

Because the RDAREA size (number of segments) is less than the number of table and index definitions in the area, some of the tables and indexes cannot be used.

*aa...aa*: RDAREA name

*bb...bb*: Minimum number of segments required to use the tables and indexes in the target RDAREA (total number of tables and indexes stored in the target RDAREA)

*cc...cc*: Number of allocated RDAREA segments

S: Resumes processing.

Action

Specify a larger number of segments, and then re-execute initialization. Or, delete unneeded table or index definitions.

**KFPX14280-E L**

Failed to allocate RDAREA "*aa...aa*" to global buffer *bb...bb*, return code=*cc* [, server name= *dd...dd*]

An error occurred while allocating RDAREA "*aa...aa*" in global buffer *bb...bb*.

*aa...aa*: RDAREA name

*bb...bb*: Global buffer name

*cc*: Reason code:

4: Specified buffer length is less than the RDAREA page length.

8: The specified buffer pool was not found (if a global buffer is not allocated to the original RDAREA or replica RDAREA, the item *bb...bb* may not be displayed).

12: Specified buffer pool is for indexes or LOB.

16: Output to status log file failed.

*dd...dd*: Server name (this name is output only for a shared RDAREA)

S: Cancels structure modification processing for the corresponding RDAREA and resumes processing.

Action

Eliminate the cause of the error and re-execute.

**KFPX14302-W L**

Line *aaaa*: extension nouse assumed

The automatic extension facility can be specified only for the types of RDAREAs listed below. Because another type of RDAREA was specified, *nouse* was assumed for the extension operand specification value.

- Data dictionary RDAREA
- Data dictionary LOB RDAREA
- User RDAREA
- User LOB RDAREA
- Registry RDAREA
- Registry LOB RDAREA

*aaaa*: Line number

S: Continues processing.

Action

Correct to *nouse* the specification value of the extension operand in the `create rdarea`, `expand rdarea`, `initialize rdarea`, or `alter rdarea` statement.

**KFPX18400-I S**

Pdexp terminated, return code=*aa....aa*

Processing of the dictionary export/import utility (pdexp) terminated with the indicated return code.

*aa....aa*: Return code:

- 0: Normal termination
- 4: Warning error occurred, but processing terminated
- 8: Normal termination for some items but abnormal termination for others
- 12: Processing terminated without normal completion of any item, or the utility server process was cancelled or terminated abnormally

S: Terminates processing.

O:

If the return code is other than 0, check the message output by the utility and take action appropriate to that message.

In the following cases, the return code is 12 even if some processing was completed normally:

- Processing was cancelled with the `pdcancel` command.
- An error occurred in the utility server process.

If exit processing terminates with return code 12, retrieve the `TABLE_SCHEMA` and `TABLE_NAME` columns of the `SQL_TABLES` dictionary table to determine which processes terminated normally.

**KFPX18410-E L+S**

Insufficient memory on *aa...aa*, size=*bb...bb*

Work area could not be allocated because a memory shortage occurred.

*aa...aa*: Area type:

DYNAMIC\_SHMPOOL: Dynamic shared memory

PROCESS: Process private area

STATIC\_SHMPOOL: Static shared memory

*bb...bb*: Size of area to be allocated (in bytes)

S: Terminates processing.

O: Increase the amount of memory that can be used and re-execute.

**KFPX18430-E E+L+S**

Error occurred:*aa...aa*

An error was detected in export/import processing or in HiRDB.

*aa...aa*: Error detected by the utility or error message detected by HiRDB

S: Terminates processing.

O: Take one the following actions:

- Take action appropriate to the message output before this message.
- Take action appropriate to the message output by HiRDB.

**KFPX18431-E E+L+S**

*cc...cc* import error occurred, error\_sql\_no=*aa...aa*, error\_sql=*bb...bb*

An error was detected in the `create` *cc...cc* issued during import.

*aa...aa*: Number of procedure statement in the `create` *cc...cc* statement

*bb...bb*: SQL statement or SQL procedure statement causing the error in the procedure of the `create` *cc...cc* statement

*cc...cc*: {Procedure|Trigger}

S: Terminates processing.

O: Eliminate the cause of the error on the basis of the displayed `error_sql_no`,

error\_sql, and the SQL error message output after this message, and then re-execute.

**KFPX18467-E E**

Line *aa....aa*:incorrect control statement

One of the following errors was found in the -t, -p, or -g specification:

- Quotation marks (") are not specified correctly.
- Length of specification value is incorrect.
- Line is not in the *schema-name . identifier* format.
- No value is specified for -t, -p, or -g.

*aa....aa*: Line number

S: Analyzes the control statements and terminates processing.

O: Correct the control statement.

**KFPX18468-E E**

Line *aa....aa*:invalid operation

An error was found in the specification of the control statement. Or, an option other than -t, -p or -g was specified.

*aa....aa*: Line number

S: Analyzes the control statements and terminates processing.

O: Correct the control statement.

**KFPX18476-E E**

Line *aa....aa*:invalid value in *bb....bb* name

The *bb....bb* specification is incorrect.

*aa....aa*: Line number

*bb....bb*: Specification containing the error

{ procedure | schema | table | trigger }

S: Analyzes the control statements and terminates processing.

O: Correct the control statement.

**KFPX18477-E E**

Line *aa....aa*:unable to specify -t and -p and -g at the same time

A table import/export (-t option), stored procedure import/export (-p option), and trigger import/export (-g option) cannot be specified concurrently.

*aa....aa*: Line number

S: Terminates processing at the point where the error is detected.

O: Import/export tables, stored procedures, or triggers separately.

**KFPX18480-E E**

Number of -t/-p/-g statement exceeds 64

The number of tables (-t option), stored procedures (-p option), or triggers (-g option) to be imported/exported with the dictionary import/export utility exceeded the maximum (64).

S: Terminates processing.

O: Change the value specified in the -t, -p, or -g option to 64 or less.

When processing a table, stored procedure, or trigger with a value greater than 64 specified, divide them so that no more than 64 are processed at one time and start the utility.

**KFPX18481-E E**

No -t/-p statement

There are no table (-t option), stored procedure (-p option), or trigger (-g option) specifications for import/export processing.

S: Analyzes the control statements and terminates processing.

O: Specify at least one -t, -p, or -g option.

**KFPX18490-E E**

Line *aa...aa*: duplicate name

The same table (-t option), stored procedure (-p option), or trigger (-g option) is specified more than once for import or export.

*aa...aa*: Line number

S: Analyzes the control statements and terminates processing.

O: Correct the control statements.

**KFPX18502-E L+S**

No privileges to export/import

The user does not have the necessary privilege for exporting or importing objects; the DBA privilege is required.

S: Terminates processing.

O: Have the administrator grant the DBA privilege, and then re-execute.

**KFPX18504-E L+S**

Unable to export *aa...aa*, name="*bb...bb*". "*cc...cc*"

*aa...aa* cannot be exported for the reason indicated in the message output before this

message.

*aa....aa*: Item to be exported { *procedure|table|trigger* }

*bb....bb*: Schema name (PUBLIC for the export of a public view)

*cc....cc*: Table identifier, routine identifier, or trigger identifier

S: Terminates processing.

O: Take action appropriate to the message output before this message.

**KFPX18506-E L+S**

Specified *aa....aa* not found in dictionary, name="*bb....bb*". "*cc....cc*"  
*aa....aa*, which was specified for export, was not found in the dictionary.

*aa....aa*: Item to be exported { *procedure|table|trigger* }

*bb....bb*: Schema name (PUBLIC for the export of a public view)

*cc....cc*: Table identifier, routine identifier, or trigger identifier

S: Aborts the process for this table and executes the next process.

O: Specify the correct table name, procedure name, or trigger name.

**KFPX18507-W L+S**

*cc....cc* invalid, name="*aa....aa*". "*bb....bb*"

*cc....cc* is invalid.

Export processing was performed normally, but the invalid *cc....cc* and whether or not all the specified tables were processed were not checked during import processing. If any of the specified tables is not found at the import destination, import processing will be cancelled at that point. *cc....cc* can be imported successfully if all the specified tables are found at the import destination.

*aa....aa*: Schema name

*bb....bb*: Procedure identifier or trigger identifier

*cc....cc*: {Procedure|Trigger}

S: Processing of *cc....cc* terminated normally. However, the return code of the utility is 4.

O: When this *cc....cc* is imported, check that all the specified tables are at the import destination.

**KFPX18508-E L+S**

Not support facility in definition of *aa....aa*"*bb....bb*". "*cc....cc*"

The definition specified as an object *aa....aa* for exportation contains a function that is not supported by the Dictionary Import/Export Utility (pdexp); the object cannot be exported.

The following functions are not supported by the Dictionary Import/Export Utility:

If *aa....aa* is a table:

- Tables containing abstract data types
- Foreign table

If *aa....aa* is a procedure:

- Procedures using an abstract data type
- Procedures that are declared within an abstract data type
- Procedures using a procedure
- Procedures using a function definition (CREATE FUNCTION and system definition scalar functions)

*aa....aa* { table|procedure }

*bb....bb*: Schema name

*cc....cc*: Table identifier or routine identifier

S: Resumes processing by skipping the export processing of the table or procedure. However, if carrying out a procedure that uses abstract data types, procedures, or function definitions, terminates processing.

O: If an error occurred in a procedure that uses abstract data types, procedures, or function definitions, remove the procedure specification from the control statement file, and then re-execute the utility. If an error occurred in other unsupported tables or procedures, use the `pdddef` command and related commands to execute the indicated definition SQL statement for the system to which items were to be exported.

**KFPX18550-E L+S**

Unable to import *aa....aa*, name="*bb....bb*". "*cc....cc*"

*aa....aa* cannot be imported for the reason indicated in the message that was output before this message.

*aa....aa*: Item to be exported { index|procedure|table|trigger }

*bb....bb*: Schema name (PUBLIC for the import of a public view)

*cc....cc*: Index identifier, routine identifier, table identifier, or trigger identifier

S: Terminates processing.

O: Take action appropriate to the message that was output before this message.

**KFPX18551-E L+S**

Table not defined, name="*aa....aa*". "*bb....bb*"

Table "*aa....aa*". "*bb....bb*" is not defined in the import destination system. Therefore,



importing of the stored procedure or trigger indicated in message KFPX18550-E cannot be performed.

*aa....aa*: Schema name (*PUBLIC* for a public view)

*bb....bb*: Table identifier

S: Aborts import processing of the stored procedure or trigger indicated in the KFPX18550-E message, which is output after this message, and then executes the next import process.

O: Define table "*aa....aa*" . "*bb....bb*" and import the table again.

**KFPX18555-E L+S**

Same *cc....cc* already exist, name="*aa....aa*" . "*bb....bb*"

A *cc....cc* to be imported already exists at the import destination system.

*aa....aa*: Schema name

*bb....bb*: Routine identifier or trigger identifier

*cc....cc*: {procedure|trigger}

S: Aborts import processing of this *cc....cc*, and then executes the next import processing.

O: To reimport, delete *cc....cc* using the *DROP cc....cc* statement, and then execute.

**KFPX18560-E L+S**

Invalid export file

The specified file is not an export file, or the specification of the table, stored procedure, or trigger did not match the content of the export file for the following reasons:

- An option other than table importing (option -t) was specified for the table export file.
- An option other than stored procedure importing (option -p) was specified for the stored procedure export file.
- An option other than trigger importing (option -g) was specified for the trigger export file.

S: Terminates processing.

O: Specify the correct export file in the -i option.

**KFPX18562-E L+S**

Export file incompleted

An export file error or an inappropriate EOF was detected.

S: Terminates processing.

O: Check that the export file was exported normally. If it was not, import an export file that was exported normally.

**KFPX18563-E L+S**

Same table already exist, name="*aa...aa*". "*bb...bb*"

A table to be imported already exists at the import destination system.

*aa...aa*: Schema name (PUBLIC for a public view)

*bb...bb*: Table identifier

S: Aborts processing for the table and resumes processing.

O: To reimport the table, delete the table with the DROP TABLE statement and re-execute.

**KFPX18566-E L+S**

Specified *aa...aa* not found in export file, name="*bb...bb*". "*cc...cc*"

Import item *aa...aa* was not found in the export file.

*aa...aa*: Item to be imported { procedure|table|trigger }

*bb...bb*: Schema name (PUBLIC for the import of a public view)

*cc...cc*: Table identifier, routine identifier, or trigger identifier

S: Aborts processing of the applicable table and resumes processing.

O: Specify the correct table name, stored procedure name, or trigger name.

**KFPX18579-E L+S**

*aaaaa* error occurred on *bb...bb*

An error occurred when the dictionary table indicated by *bb...bb* was accessed.

*aaaaa*: Processing {Input }

*bb...bb*: Dictionary table identifier

S: Terminates processing.

O: Take action appropriate to the message that was output before this message.

**KFPX21000-I S**

Usage: pobjconv

The option format of the pobjconv command is invalid.

S: Terminates processing.

O: Check the command format of the pobjconv command, and then re-execute.

**KFPX21001-I E+L**

SQL OBJECT converter start at *aa...aa* on *bb...bb*

The `pobjconv` command was started.

*aa...aa*: Start time (in the format *hh:mm:ss*)

*bb...bb*: Start date (in the format *yyyy:mm:dd*)

S: Continues processing.

**KFPX21002-I E+L**

SQL OBJECT converter ended, return code= *aa*

The `pobjconv` command terminated with return code *aa*.

*aa*: Return code:

0: Normal termination

4: Although a warning error occurred, processing terminated normally.

8: Although processing terminated, conversion of some SQL objects failed.

12: Abnormal termination

S: Terminates processing.

Action

Take appropriate action based on the return code:

0 or 4:

No action is needed.

8:

SQL object conversion failed for some view tables, procedures, or functions.

If HiRDB automatically activated the `pobjconv` command, refer to the `$PDDIR/spool/pobjconv.log` file, eliminate the cause of the error, and then re-execute the `pobjconv` command. If the operator executed the `pobjconv` command, refer to the `pobjconv.log` file in the current directory, eliminate the cause of the error, and then re-execute the `pobjconv` command.

12:

Processing was cancelled in midstream. Refer to the message, eliminate the error, and then re-execute the `pobjconv` command.

**KFPX21003-E S**

Invalid option for `pobjconv`

The specification of the `pobjconv` command is invalid.

S: Terminates processing.

O: Correct the specification of the `pdoobjconv` command and re-execute.

**KFPX21004-E E**

Insufficient memory on PROCESS for SQL OBJECT conversion,  
size=*aa....aa*

During execution of the `pdoobjconv` command, there was an attempt to allocate the process native memory area, but the allocation failed due to insufficient memory.

*aa....aa*: Area size that was to be allocated (in bytes)

S: Terminates processing.

Action

Increase the size of the available memory using one of the following methods:

- Reduce the number of concurrently executing processes.
- Increase the swap area size.
- Add real memory.

**KFPX21005-E E+L**

System call error in SQL OBJECT conversion, func=*aa....aa*,  
errno=*bb....bb*

During execution of the `pdoobjconv` command, an error occurred in a system function.

*aa....aa*: System function name

*bb....bb*: Error code

S: Terminates processing.

Action

Check the `errno` of the system function, eliminate the cause, and then re-execute.

**KFPX21006-E E+L**

Open error in report file "*aa....aa*" for SQL OBJECT conversion,  
errno=*bb....bb*

An error occurred during opening of the `pdoobjconv` command's execution report file, due to reason *bb....bb*.

*aa....aa*: File name

*bb....bb*: Error code

S: Terminates processing.

Action

Check the `errno` of the system function, eliminate the cause, and then re-execute.

**KFPX21007-E E+L**

RPC(*aa....aa*) error occurred in SQL OBJECT conversion, code=*bb...bb*

An RPC error occurred during execution of the `pdobjconv` command.

*aa....aa*: RPC processing type

*bb...bb*: Error detail code

S: Terminates processing.

**Action**

Eliminate the cause of the error by referring to *4.2 Detail codes for system-related errors* and the preceding KFPS05032-E message, and then re-execute the command. If the error code is -999, error information indicating the error cause is output before this message (KFPX21007-E). If the error code is 310, the communication destination server may not be active.

**KFPX21008-E E**

`pdobjconv` must be executed at HiRDB unit including system manager

Execute the `pdobjconv` command on the unit where the system manager is defined.

S: Terminates processing.

**Action**

Re-execute the command at the unit in which the system manager is defined.

**KFPX21100-E E+L**

*aa....aa* "*bb...bb*". "*cc....cc*" not found in system

Specified view table, procedure, or function "*bb...bb*". "*cc....cc*" was not found in the HiRDB system.

*aa....aa*: One of the following:

View: View table

Procedure: Procedure

Function: Function

*bb...bb*: Authorization identifier

*cc....cc*: Table name, procedure name, or function name

S: Terminates processing.

**Action**

Specify the correct view table, procedure, or function, and then re-execute.

## 2. Messages

### **KFPX21101-W E+L**

*aa....aa "bb...bb"."cc....cc"* dropped from system during SQL OBJECT conversion

During execution of the `pdobjconv` command, a viewed table, procedure, or function "*bb...bb"."cc....cc"* was dropped from the HiRDB system.

*aa....aa*: One of the following:

View: View table

Procedure: Procedure

Function: Function

*bb...bb*: Authorization identifier

*cc....cc*: Table name, procedure name, or function name

S: Continues processing.

### **KFPX21102-I E+L**

SQL OBJECT of *aa....aa "bb...bb"."cc....cc"* already converted

Because the SQL object (view table, procedure, or function "*bb...bb"."cc....cc"*) had already been converted, conversion processing was not performed.

*aa....aa*: One of the following:

View: View table

Procedure: Procedure

Function: Function

*bb...bb*: Authorization identifier

*cc....cc*: Table name, procedure name, or function name

S: Continues processing.

### **KFPX21103-I E+L**

SQL OBJECT of *aa....aa "bb...bb"."cc....cc"* converted successfully

Conversion of the SQL object (view table, procedure, or function "*bb...bb"."cc....cc"*) was successful.

*aa....aa*: One of the following:

View: View table

Procedure: Procedure

Function: Function

*bb...bb*: Authorization identifier

*cc....cc*: Table name, procedure name, or function name

S: Continues processing.

**KFPX21104-E E+L**

SQL OBJECT conversion for *aa....aa* "*bb...bb*". "*cc....cc*" failed

Conversion of the SQL object (view table, procedure, or function "*bb...bb*". "*cc....cc*") failed.

*aa....aa*: One of the following:

View: View table

Procedure: Procedure

Function: Function

*bb...bb*: Authorization identifier

*cc....cc*: Table name, procedure name, or function name

S: Continues processing.

Action

Determine the cause of the error from the message that follows this message, correct the error, and then re-execute.

**KFPX21105-W S+E+L**

Register again REGISTRY MANIPULATION PROCEDURE; enter `pdreginit` command

The registry manipulation procedure must be re-registered.

S: Continues processing.

Action

Use the `pdreginit` command to re-register the registry manipulation procedure.

**KFPX21200-I S**

Usage: `pdjarsync [-S |-l |-R |-D |-L] [-x host_name [,host_name]] [-u owner_name [,owner_name]] [-f jar_file_name]`

The specification of the `pdjarsync` command was invalid.

S: Terminates processing.

O: Enter the command correctly and re-execute.

**KFPX21201-E S**

Specification host *aa....aa* not found in system definition file

Specified host *aa....aa* was not found in the system common definition.

*aa....aa*: Host name

S: Terminates processing.

O: Specify the correct host name and re-execute.

**KFPX21202-E S**

JAR file "*aa...aa*" already exist

Specified JAR file "*aa...aa*" is already registered.

*aa...aa*: JAR file name

S: Terminates processing.

O: If the JAR file may be overwritten, execute the `pdjarsync -R` command.

**KFPX21203-E S**

Internal function error, `func=aa...aa`, return code=`bb...bb`

An error occurred in the internal processing of the command.

*aa...aa*: Name of the function in which the error occurred

*bb...bb*: System-related error detail code

See *4.2 Detail codes for system-related errors*.

S: Terminates processing.

O: Correct the error and re-execute.

**KFPX21204-E S**

Insufficient memory on PROCESS for JAR file synchronizer,  
`size=aa...aa`

Because of a memory shortage, a process private area could not be allocated during execution of the `pdjarsync` command.

*aa...aa*: Area size that was to be allocated (in bytes)

S: Terminates processing.

O: Take one of the following actions:

- Reduce the number of concurrently executing processes.
- Increase the swap area size.
- Add real memory.

**KFPX21205-E S**

`Pdstart` command parameter missing in system common definition

An error was detected in the `pdstart` command in the system common definition.

S: Terminates processing.

O: Correct the `pdstart` command in the system common definition and re-execute.



**KFPX21206-E S**

Incorrect hostname or unitid specified in system definition

The specified host name or unit identifier is not defined in the system definition as a HiRDB host or unit.

S: Terminates processing.

O: Correct the host name or unit identifier specified in `pdunit` or `pdstart` in the system common definition or the unit identifier specified in the `pd_unit_id` operand in the unit control information definition, and then re-execute.

**KFPX21207-E S**

System call error in JAR file synchronizer, `func=aa....aa`,  
`errno=bb....bb`

An error occurred in system function `aa....aa`.

`aa....aa`: System function name

`bb....bb`: Error code (`errno`)

S: Terminates processing.

O: Determine the cause of the error from the error code (`errno`), correct the error, and then re-execute. For the error codes, see the applicable OS manual.

**KFPX21208-E S**

Invalid option

Command line specification is invalid.

S: Terminates processing.

O: Specify the command correctly and re-execute.

**KFPX21209-E S**

JAR file "`aa....aa`" not found in system

JAR file "`aa....aa`" was not found in the HiRDB system.

`aa....aa`: JAR file name

S: Terminates processing.

O: Check that the specified JAR file name or owner name is correct. If there is an error, correct the JAR file name or owner name and re-execute.

**KFPX24000-I S**

DB initialize ended, return code=`aa`

The database initialization utility terminated with the indicated return code.

`aa`: Return code:

0: Normal termination.

4: Warning error occurred, but processing terminated.

8: An error occurred during the execution of the database initialization utility. The initialization terminated. Terminate HiRDB, and then restart it.

12: Error occurred while executing the database initialization utility (refer to the output message to eliminate the cause of the error, and then re-execute).

S: Terminates processing.

**KFPX24001-E L**

Insufficient memory on PROCESS, size=*aa...aa*

Attempt to allocate the process private area during execution of the database initialization utility failed due to a memory shortage.

*aa...aa*: Size (in bytes) of the area that was to be allocated

S: Terminates processing.

Action

Check the number of processes and re-execute. If the same error recurs, contact a customer engineer.

**KFPX24002-E L**

System call error, func=*aa...aa*, errno=*bbbb*

System function *aa...aa* was executed, but an error occurred.

*aa...aa*: Executed function

*bbbb*: Error code (errno)

S: Terminates processing.

Action

Eliminate the cause of the error according to the error code and re-execute.

**KFPX24003-E S**

Message output failed, return code=*aa*, msgno=*bbbb*

Attempt to output messages to a log file resulted in return code *aa...aa*.

*aa...aa*: Detail code for system-related error

*bbbbbb*: Message number that was subject to output

S: Terminates processing.

Action

See *4.2 Detail codes for system-related errors* to eliminate the cause of the error, and then re-execute.

**KFPX24004-E L**

Control statement file open failed : *aa...aa*

Control information file open processing failed for reason *aa...aa*.

*aa...aa*: Reason for open failure:

*errno=bbbb*: Processing terminated with error code *bbbb*.

*no such file*: Specified file was not found.

*permission denied*: Specified file was found, but the required privilege is not defined.

S: Terminates processing.

Action

Eliminate the cause of the error and re-execute. For the control information file, specify the absolute pathname of the file in the dictionary server (DS).

**KFPX24005-E L**

Line *aaaa*: HiRDB file name unable to start with "p1"

A name beginning with p1 cannot be specified as a HiRDB file name

*aaaa*: Line number

S: Terminates processing.

Action

Change the HiRDB file name to a name that does not begin with the string p1, and then re-execute the command.

**KFPX24006-E L**

Line *aaaa*: double quotations missing

Quotation marks (") are missing from a file name.

*aaaa*: Line number

S: Terminates processing after analyzing all the specified control statements.

Action

Specify quotation marks (") around the file name and re-execute.

**KFPX24007-E L**

Line *aaaa*: number of *bb...bb* operands exceed the server limit *ccc*

The number of *bb...bb* operands exceeded the maximum of *ccc* permitted per server.

*aaaa*: Line number

*bb...bb*: Operand name

## 2. Messages

*cccc*: Maximum number of operands

S: Terminates processing after analyzing all the specified control statements.

O: Correct the number of *bb....bb* operands so that the maximum is not exceeded and re-execute.

### **KFPX24008-E L**

Interprocess communication failed, return code=*aaaa*

A communication error occurred while reporting termination of the database initialization utility.

*aaaa*: Detail code for system-related error

S: Terminates processing.

Action

See 4.2 *Detail codes for system-related errors* to eliminate the cause of the error, and then re-execute. Or, because the initialization has terminated, terminate HIRDB, and then restart it.

### **KFPX24009-W L**

Line *aaaa:bb....bb* assumed for page size

Only page length *bb....bb* can be specified for the RDAREA, but a different value was specified; the system assumed *bb....bb*.

*aaaa*: Line number

*bb....bb*: Assumed page length

S: Resumes processing.

Action

Correct the page length to *bb....bb* in the page operand of the `create rdarea` statement.

Master directory RDAREA or data directory RDAREA:

Set the page length to 4096.

LOB RDAREA:

Set the page length to 8192.

### **KFPX24010-E L**

RPC "*aa....aa*" failed, return code=*bb....bb*, svname=*cc....cc*

RPC function "*aa....aa*" terminated with error code *bb....bb*.

*aa....aa*: RPC function:

callv: Send

reply: Receive

*bb...bb*: Error code

*cc...cc*: Server identifier

S: Terminates processing.

Action

See *4.1 Detail codes for RPC-related errors* to resolve the cause of the error, and then re-execute the command.

**KFPX24011-W L**

Line *aaaa*:dictionary server name assumed

The specified dictionary server was not found; the system assumed the defined dictionary server name.

*aaaa*: Line number

S: Resumes processing.

**KFPX24012-I L**

DB initialize start at *aa...aa* on *bb...bb*

Execution of the database initialization utility has started.

*aa...aa*: Start time *hh:mm:ss* (hour:minute:second)

*bb...bb*: Start date *yyyy/mm/dd* (year/month/date)

S: Resumes processing.

**KFPX24013-I L**

DB initialize ended return code=*aa* at *bb...bb* on *cc...cc*

The database initialization utility terminated with return code *aa*.

*aa*: Return code:

0: Normal termination

4: Warning error occurred, but processing terminated.

8: Initialization terminated normally, but a communication error occurred during termination of initialization. Terminate HiRDB, and then restart it.

12: Terminated abnormally (refer to the output message to eliminate the cause of the error, and then re-execute).

*bb...bb*: Start time *hh:mm:ss* (hour:minute:second)

*cc...cc*: Start date *yyyy/mm/dd* (year/month/date)

S: Terminates processing.

**KFPX24014-E L**

HiRDB system "*aa...aa*" failed, return code=*bb...bb*

Function "*aa...aa*" terminated with return code *bb...bb*.

*aa...aa*: Function name:

besinf: Collection of back-end server information

branchdel: Deletion of registered transaction branch

branchreg: Registration of transaction branch

dicinf: Collection of dictionary server information

getpath: Collection of DBPATH

mainloop: Execution of RPC service

open: Initialization of RPC server

*bb...bb*: Detail code for system-related error

S: Terminates processing.

Action

See *4.2 Detail codes for system-related errors* to eliminate the cause of the error, and then re-execute.

**KFPX24015-E L**

Putenv failed, due to insufficient memory on PROCESS

Attempt to set an environment variable resulted in an error due to a space shortage.

S: Terminates processing.

P: Check the number of processes and re-execute. If the same error recurs, contact a customer engineer.

**KFPX24016-E L**

RPC service failed, no such communication id, return code=*aa...aa*

RPC communication terminated with error code *aa...aa*, but the server resulting in the communication error cannot be identified.

*aa...aa*: Error code

S: Terminates processing.

Action

See *4.1 Detail codes for RPC-related errors* to eliminate the cause of the error, and then re-execute. If a message has been output before this message, eliminate the cause of the error according to that message and re-execute.

**KFPX24017-E L**

HiRDB file "*aa...aa*" failed, return code=*bb...bb*, HiRDB file name=*cc...cc*

Function "*aa...aa*" for HiRDB file *cc...cc* terminated with return code *bb...bb*.

*aa...aa*: HiRDB file system function:

close: Close HiRDB file

create: Create HiRDB file

write: Write data to HiRDB file

statfs: Acquire HiRDB file system area information

*bb...bb*: Error code

*cc...cc*: HiRDB file name

S: Terminates processing.

Action

See 5.1 *Error codes returned from HiRDB file system access requests* to eliminate the cause of the error, and then re-execute.

**KFPX24018-E L**

Masterdirectory 1st file name invalid, name = "*aa...aa*"

The first file name "*aa...aa*" in the master directory RDAREA does not match the file name specified in the system common definition.

*aa...aa*: Name of the first file specified in the master directory RDAREA

S: Terminates processing.

Action

Specify in the control statement and in `pd_master_file_name` of the system common definition the same name for the first file in the master directory RDAREA, and then re-execute.

**KFPX24019-E L**

View definition file open failed : *aa...aa*

pdview.pddef open processing failed for reason *aa...aa*.

*aa...aa*: Reason for open failure:

`errno=bbbb`: Processing terminated with error code *bbbb*.

`no such file`: Specified file was not found in `%PDDIR%\lib\sysdef`.

`permission denied`: Specified file was found, but the required privilege is not defined.

S: Terminates processing.

Action

Contact a customer engineer.

**KFPX24020-E L**

Number of *aa...aa* exceeds *bb...bb*

The number of RDAREAs or HiRDB files exceeded value *bb...bb* specified in system common definition *aa...aa*.

*aa...aa*: System common definition:

pd\_max\_rdarea\_no: Maximum number of RDAREAs

pd\_max\_file\_no: Maximum number of HiRDB files comprising an RDAREA

*bb...bb*: Defined value

S: Terminates processing.

Action

Reduce to no more than *aa...aa* the number of RDAREAs or HiRDB files specified in the control statements and re-execute. Or, terminate HiRDB, correct the value of *aa...aa*, and then re-execute.

**KFPX24021-E L**

Control statement file invalid device(*a*)

The specified control statements file is invalid.

*a*: File entry type

Same as mode entry that was output by the OS's `ls -l` command

S: Terminates processing.

Action

Specify a regular file and re-execute.

**KFPX24022-E L**

Line *aaaa*:unable to specify "*bb...bb*" and "*cc...cc*" statement at the same time in "define system" statement

"*bb...bb*" and "*cc...cc*"cannot be specified together in the define system statement.

*aaaa*: Line number

*bb...bb*: Operand specification value

*cc...cc*: Operand specification value

S: Terminates processing.



## Action

Correct the values specified in the define system statement and re-execute the statement.

**KFPX24024-E L**

Unable to send message from *aa....aa* to *bb...bb*

A communication error occurred between host *aa....aa* and host *bb...bb*.

*aa....aa*: Send source host name<sup>1</sup>

*bb...bb*: Send destination host name<sup>1</sup>

<sup>1</sup> If the system switchover facility is being used, the host name of the primary system is indicated.

S: Terminates processing.

## Action

Take action appropriate to the KFPX24010-E message, which was output before this message. If the error is not a physical communication error, there may be an inconsistency in the system definitions concerning the relationship between the hosts; check the interhost definitions for the hosts affected by the error and re-execute.

**KFPX24025-W L**

Line *aaaa*: "*bb...bb*" operand ignored because cannot be specified

Operand "*bb...bb*" was ignored because it cannot be specified.

*aaaa*: Line number

*bb...bb*: Operand name

open attribute:

This operand cannot be specified for a master directory, data directory, data dictionary, or data dictionary LOB RDAREA

S: Resumes processing.

## Action

Delete operand "*bb...bb*".

**KFPX24026-E L**

Line *aaaa:dd...dd* operand value *bb...bb* invalid, because HiRDB file size exceeds *ccc* byte

The specified value *bb...bb* is invalid for the `initial` operand, because the HiRDB file in the database will exceed maximum value *ccc* (bytes) if created based on the specified value.

The specified value *bb...bb* is invalid for the `extension` operand, because the HiRDB file in the database will exceed maximum value *ccc* (bytes) after automatic extension if created based on the specified value.

*aaaa*: Line number

*bb...bb*: Specified value

*ccc*: Maximum permissible value:

In UNIX:

64G: 64 gigabytes

In Windows:

2G: 2 gigabytes

*dd...dd*: Specified operand:

`initial`: initial operand

`extension`: extension operand

S: Terminates processing after analyzing all control statements.

Action

Specify a smaller value in this control statement operand and re-execute.

**KFPX24028-W L**

Line *aaaa*:max entries raised to *bb...bb*

Because the value specified for the `max entries` operand in the `create rdarea` statement was not a multiple of 500, it was rounded up to *bb...bb*. This operand specifies the maximum number of lists that can be created in a list RDAREA.

*aaaa*: Line number

*bb...bb*: Rounded-up number

S: Continues processing.

**KFPX24029-W L**

Extension use specification for RDAREA *aa...aa* ignored, due to no `expand` option for HiRDB file system area of last HiRDB file

Specification of `extension use` is invalid because `extension` (`-e` option of the `pdfmkfs` command) is not specified for the HiRDB file system area in which the last HiRDB file comprising RDAREA *aa...aa* was created.

*aa...aa*: RDAREA name

S: Continues processing.

Action

To use the automatic extension facility, extension must be specified for the applicable HiRDB file system area. Use the `-e` option of the `pdfmkfs` command to specify a maximum number of extensions.

**KFPX24030-E L**

Unable to create shared RDARED *aa....aa* due to not apecified  
pd\_shared\_rdarea\_use=Y

Unable to create the shared RDAREA *aa....aa* because Y is not specified in the  
pd\_shared\_rdarea\_use operand.

*aa....aa*: RDAREA name

S: Terminates processing.

## Action

Terminate HiRDB, specify Y in the pd\_shared\_rdarea\_use operand, and then re-execute the command.

**KFPX24200-I S**

DB modification ended, return code=*aa*

The database structure modification utility terminated with return code *aa*.

*aa*: Return code:

0: Normal termination

4: Warning error occurred, but processing terminated.

8: Part of the processing terminated (eliminate the cause of the error and execute the part that resulted in the error).

12: Terminated abnormally (refer to the output message to eliminate the cause of the error, and then re-execute).

16: Database has been damaged (it must be recovered).

S: Terminates processing.

**KFPX24201-E L**

Insufficient memory on PROCESS, size=*aa....aa*

Attempt to allocate the process private area during execution of the database structure modification utility failed due to a memory shortage.

*aa....aa*: Size (in bytes) of the area that was to be allocated

S: Terminates processing.

## Action

Check the number of processes and re-execute. If the same error recurs, contact a customer engineer.

## 2. Messages

### **KFPX24202-E L**

System call error, func=*aa...aa*, errno=*bbbb*

System function *aa...aa* executed, but an error occurred.

*aa...aa*: Executed function

*bbbb*: Error code (errno)

S: Terminates processing.

Action

Eliminate the cause of the error according to the error code and re-execute.

### **KFPX24203-E S**

Message output failed, return code=*aa...aa*, msgno=*bbbb*

Attempt to output messages to a log file resulted in return code *aa...aa*.

*aa...aa*: Detail code for system-related error

*bbbb*: Message number that was subject to output

S: Terminates processing.

Action

See 4.2 *Detail codes for system-related errors* to eliminate the cause of the error, and then re-execute.

### **KFPX24204-E L**

Control statement file open failed : *aa...aa*

Control information file open processing failed for reason *aa...aa*.

*aa...aa*: Reason for open failure:

errno=*bbbb*: Processing terminated with error code *bbbb*.

no such file: Specified file was not found.

permission denied: Specified file was found, but the required privilege is not defined.

S: Terminates processing.

Action

Eliminate the cause of the error and re-execute.

### **KFPX24205-E L**

Line *aaaa*:HiRDB file name unable to start with "p1"

A name beginning with p1 cannot be specified as a HiRDB file name.

*aaaa*: Line number

S: Cancels structure modification for the corresponding RDAREA and processes the next control statement.

Action

Specify a HiRDB file name beginning with any character string other than p1, and then re-execute.

**KFPX24206-E L**

Line *aaaa*:double quotations missing

Quotation marks (") are missing from a file name.

*aaaa*: Line number

S: Terminates processing after analyzing all the specified control statements.

Action

Specify quotation marks (") around the file name and re-execute.

**KFPX24207-E L**

Line *aaaa*:number of *bb...bb* operands exceed the server limit *cccc*

The number of *bb...bb* operands exceeded the maximum of *cccc* permitted per server.

*aaaa*: Line number

*bb...bb*: Operand name

*cccc*: Maximum number of operands

S: Terminates processing after analyzing all the specified control statements.

Action

Correct the number of *bb...bb* operands so that the maximum is not exceeded, and then re-execute.

**KFPX24208-E L**

Work file open failed, *aa....aa*

A work file open error occurred.

*aa....aa*: Cause of the error:

*errno=bbbb*: Processing terminated with error code *bbbb*.

*no such file*: Specified file was not found.

*permission denied*: Specified file was found, but the required privilege is not defined.

S: Terminates processing.

Action

Eliminate the cause of the error by referring to the file created under  
%PDDIR%\tmp and re-execute the command.

**KFPX24209-W A**

Line *aaaa:bb...bb* assumed for page size

A page length value other than *bb...bb* was specified for an RDAREA for which the page length specification must be *bb...bb*; *bb...bb* was assumed.

*aaaa*: Line number

*bb...bb*: Assumed page length

S: Terminates processing.

P: Correct the page length in the page operand of the `create rdarea` statement to *bb...bb*. The page length for a LOB RDAREA is 8192.

**KFPX24210-E L**

RPC "*aaaaa*" failed, return code=*bb...bb*, svname=*cc...cc*

RPC function "*aaaaa*" for server *cc...cc* terminated with error code *bb...bb*.

*aaaaa*: RPC function:

*callv*: Send

*reply*: Receive

*bb...bb*: Detail error code for RPC-related error

*cc...cc*: Server identifier

S: Terminates processing.

Action

    See *4.1 Detail codes for RPC-related errors* to eliminate the cause of the error,  
    and then re-execute.

**KFPX24211-W L**

Line *aaaa:dictionary* server name assumed

Because the specified dictionary server name could not be found, the defined dictionary server name was assumed.

*aaaa*: Line number

S: Terminates processing.

**KFPX24212-I L**

DB modification start at *aa...aa* on *bb...bb*

Execution of the database structure modification utility has started.

*aa...aa*: Start time *hh:mm:ss* (hour:minute:second)

*bb...bb*: Start date *yyyy/mm/dd* (year/month/date)

S: Resumes processing.

**KFPX24213-I L**

DB modification for ended return code=*aa* at *bb...bb* on *cc...cc*

The database structure modification utility terminated with return code *aa*.

*aa*: Return code:

0: Normal termination

4: Warning error occurred, but processing terminated.

8: Part of the processing terminated (eliminate the cause of the error and execute the part that resulted in the error).

12: Terminated abnormally (refer to the output message to eliminate the cause of the error, and then re-execute).

16: Database has become inconsistent (it must be recovered).

*bb...bb*: Start time *hh:mm:ss* (hour:minute:second)

*cc...cc*: Start date *yyyy/mm/dd* (year/month/date)

S: Terminates processing.

**KFPX24214-E L**

HiRDB system "*aa...aa*" failed, return code=*bb...bb*

Function "*aa...aa*" terminated with return code *bb...bb*.

*aa...aa*: Function name:

begin: Transaction startup

besinf: Collection of back-end server information

branchdel: Deletion of registered transaction branch

branchreg: Registration of transaction branch

commit: Termination of transaction

dicinf: Collection of dictionary server information

rollback: Rollback of transaction

getpath: Collection of DBPATH

*bb...bb*: Detail code for system-related error

S: Terminates processing.

Action

See *4.2 Detail codes for system-related errors* to eliminate the cause of the error, and then re-execute.

If *aa....aa* is `commit` and *bb....bb* is `-902`, it is possible that an error caused the unit to terminate abnormally or perform a system switchover. Refer to any messages output before this message, eliminate the cause of the error, and then re-execute.

**KFPX24215-E L**

Putenv failed, due to insufficient memory on PROCESS

Attempt to set an environment variable resulted in an error due to a space shortage.

S: Terminates processing.

Action

Check the number of processes and re-execute. If the same error recurs, contact a customer engineer.

**KFPX24216-E L**

RPC service failed, no such communication id, return code=*aa....aa*

RPC communication terminated with return code *aa....aa*, but the server resulting in the communication error cannot be identified because the communication ID is unknown.

*aa....aa*: Detail code for RPC-related error

S: Terminates processing.

Action

See *4.1 Detail codes for RPC-related errors*. If a message has been output before this message, eliminate the cause of the error according to that message and re-execute.

**KFPX24217-E L**

HiRDB file "*aa....aa*" failed, return code=*bb....bb*, HiRDB file name=*cc....cc*

Function "*aa....aa*" for HiRDB file *cc....cc* terminated with return code *bb....bb*.

*aa....aa*: HiRDB file system function:

`close`: Close HiRDB file

`create`: Create HiRDB file

`delete`: Delete HiRDB file

`write`: Write data to HiRDB file

`fstat`: Acquire HiRDB file information



`statfs`: Acquire HiRDB file system area information

`bb...bb`: Error code for HiRDB file system

`cc...cc`: HiRDB file name

S: If `delete`, continues processing. If other than `delete`, terminates processing.

#### Action

`delete`:

See *5.1 Error codes returned from HiRDB file system access requests* to eliminate the cause of the error. If the HiRDB file is not needed, delete it with the `pdfrm` command.

Function other than `delete`:

See *5.1 Error codes returned from HiRDB file system access requests* to eliminate the cause of the error and re-execute.

#### **KFPX24218-E L**

Line `aaaa`: unknown file name "`bb...bb`" in used `cc...cc`

File "`bb...bb`" in an RDAREA specified for addition is already in use by server `cc...cc`. Or, file "`bb...bb`" cannot be checked for duplication, because server `cc...cc` is not defined in the system common definition.

`aaaa`: Line number

`bb...bb`: File name

`cc...cc`: Server name

S: Terminates processing.

#### Action

The initialized status has been changed in the server definition of the system common definition. Restore the initial definition or change the name of the file to be added in the RDAREA.

#### **KFPX24219-E L**

Unable to execute "pdmod" at the same time

A mutually exclusive utility is executing. The database structure modification utility cannot be executed in the following cases:

- When another database structure modification utility is executing
- When a dictionary is being reorganized

S: Terminates processing.

#### Action

Re-execute the database structure modification utility after the mutually exclusive utility has terminated.

**KFPX24220-E L**

Number of *aa...aa* exceeds *bb...bb* [, server name=*cc...cc*]

The number of RDAREAs, HiRDB files, or the maximum number of inner replica groups exceeded the value *bb...bb* of the *aa...aa* operand of the system common definition.

*aa...aa*: Operand in the system common definition

pd\_max\_file\_no: Maximum number of HiRDB files comprising the RDAREA

pd\_max\_rdarea\_no: Maximum number of RDAREAs

pd\_inner\_replica\_control: Maximum number of inner replica groups

*bb...bb*: Defined value

*cc...cc*: Server name (this is output only for a shared RDAREA)

S: Cancels structure modification for the corresponding RDAREA and processes the next control information file.

Action

Terminate HiRDB, correct the value of *aa...aa*, and then re-execute.

**KFPX24221-E L**

Control statement file invalid device (*a*)

The specified control statements file is invalid.

*a*: File entry type

Same as mode entry that was output by OS's `ls -l` command

S: Terminates processing.

Action

Specify a regular file and re-execute.

**KFPX24222-E L**

Too small page size *aa...aa* for *bb...bb* *cc...cc*, *dd...dd* name=*ee...ee* *ff...ff*

FIX table or index *ee...ee* *ff...ff* cannot be stored with modified page length *aa...aa*.

*aa...aa*: Modified page length

*bb...bb*: Type of length

row length: Row length

key length: Key length

*cc....cc*: Row length (unit: bytes)

*dd....dd*: Type of name

TABLE: FIX table

INDEX: Index

*ee....ee*: Authorization identifier

*ff....ff*: Table identifier or index identifier

S: Terminates processing.

Action

Specify a page length meeting the following conditions, and then re-execute the command:

Calculation equation:  $row-length \leq \downarrow RDAREA-page-length \div 1000 \downarrow \times 1000$

$key-length \leq \text{MIN}((RDAREA-page-length \div 2) - 1240, 4036)$

**KFPX24223-E L**

RDAREA *aa....aa* not specified

RDAREA *aa....aa* was not specified in the control statement.

*aa....aa*: RDAREA name

S: Terminates processing

Action

Specify RDAREA *aa....aa* or *others* in the server operand, and then re-execute.

**KFPX24224-E L**

Unable to send message from *aa....aa* to *bb....bb*

A communication error occurred between host *aa....aa* and host *bb....bb*.

*aa....aa*: Send source host name<sup>1</sup>

*bb....bb*: Send destination host name<sup>1</sup>

<sup>1</sup> If the system switchover facility is being used, the host name of the primary system is indicated.

S: Terminates processing.

Action

Take action appropriate to the KFPX24210-E message, which was output before this message. If the error is not a physical communication error, there may be an inconsistency in the system definitions concerning the relationship between the hosts; check the interhost definitions for the hosts affected by the error and

## 2. Messages

re-execute.

### **KFPX24225-I L**

Processing of *aa...aa* statement ended, RDAREA name="*bb...bb*"

The *aa...aa* process of the database structure modification utility ended for RDAREA "*bb...bb*".

However, because the transaction is not concluded until the KFPX24226-I message is output, processing is rolled back if the return code in KFPX24226-I is 8.

*aa...aa*: Database structure modification utility function:

create rdarea: Add RDAREA

*bb...bb*: RDAREA name

S: Resumes processing.

### **KFPX24226-I L**

Processing of create rdarea statement ended return code=*a*

The addition of a dictionary RDAREA or registry RDAREA terminated with a return code indicated in *a*.

*a*: Return code:

0: Normal completion

4: Warning error occurred, but processing terminated.

8: Terminated abnormally. By referring to the preceding error messages, correct the cause of the error, and then re-execute.

S: Resumes processing.

### **KFPX24227-E L**

Line *aaaa*:unable to specify *bb...bb* and *cc...cc* statement at the same time

Functions *bb...bb* and *cc...cc* of the database structure modification utility cannot be specified in the same control statements file.

*aaaa*: Line number

*bb...bb*: Database structure modification utility function:

alter HiRDB mode: Change RDAREA from HiRDB/Single Server configuration to HiRDB/Parallel Server configuration.

alter rdarea: Modify RDAREA.

alter system: Modify system definitions.

create rdarea: Add RDAREA.

expand rdarea: Expand RDAREA.

initialize rdarea: Reinitialize RDAREA.

remove rdarea: Delete RDAREA.

cc...cc: Database structure modification utility function:

create rdarea for system:

Add data dictionary RDAREA or data dictionary LOB RDAREA.

S: Terminates processing.

Action

Specify functions that cannot be specified in the same control statements file in separate files and re-execute the functions independently.

**KFPX24228-E L**

Unable to omit DATADictionary LOB RDAREA

No control statement for adding a data dictionary LOB RDAREA was specified.

In the cases shown below, two data dictionary LOB RDAREAs with the LOB used by HiRDB (SQL\_ROUTINES) specification must be specified in the same control statements file:

- To add an RDAREA with the datadictionary of routines specification
- To add a data dictionary LOB RDAREA with the LOB used by HiRDB (SQL\_ROUTINES) specification

S: Terminates processing.

Action

Define two RDAREAs with the LOB use by HiRDB (SQL\_ROUTINES) specification in the same control statement and re-execute.

**KFPX24229-E L**

Control statement for create rdarea in system must first statement of control statement file

Control statements for adding data dictionary RDAREAs and data dictionary LOB RDAREAs must be specified at the beginning of the control statements file.

S: Terminates processing.

Action

Specify the control statements for adding data dictionary RDAREAs and data dictionary LOB RDAREAs at the beginning of the control statements file and re-execute.

**KFPX24230-E L**

Line *aaaa*:unable to create rdarea due to already exist RDAREA type

An RDAREA of the type of RDAREA to be added already exists in the system.

*aaaa*: Line number

S: Terminates processing.

Action

Delete unneeded control statements and re-execute.

**KFPX24231-W L**

Unable to initialize LOB column *aa....aa*. *bb....bb* due to *cc....cc*, RDAREA name="*dd....dd*"

RDAREA "*dd....dd*", which stores a LOB column of LOB column structure base table *aa....aa*. *bb....bb*, cannot be initialized because *cc....cc*.

*aa....aa*: Authorization identifier

*bb....bb*: Table identifier

*cc....cc*: Reason for error:

RDAREA status is invalid: The RDAREA status is invalid.

HiRDB system error occurred: An SQL error occurred.

*dd....dd*: Name of user LOB RDAREA

S: Aborts initialization of the affected user LOB RDAREA and executes the next process.

Action

Do one of the following:

- Set user LOB RDAREA "*dd....dd*" to HOLD or CLOSE status, and then reinitialize "*dd....dd*".
- Eliminate cause *cc....cc*, and then re-execute this control statement.
- Execute the PURGE TABLE statement for the LOB column structure base table.

If no action is taken and retrieval or insertion is executed on table *aa....aa*. *bb....bb*, the results are not guaranteed because the LOB column data has not been deleted.

**KFPX24232-E L**

Unable to initialize rdarea "*aa....aa*" allocated for SQL\_ROUTINES.DEF\_SOURCE

RDAREA *aa...aa* cannot be reinitialized because it is a data dictionary LOB RDAREA allocated to the DEF\_SOURCE column of the SQL\_ROUTINES data dictionary table.

*aa...aa*: Name of data dictionary LOB RDAREA

S: Terminates processing.

Action

Execute re-initialization of the database dictionary LOB RDAREA only for RDAREAs in which objects are stored.

**KFPX24233-E L**

Definition file *aa...aa* open failed: *bb...bb*

Open error occurred in definition file *aa...aa* under %PDDIR%\lib\sysdef for reason *bb...bb*.

*aa...aa*: File name

*bb...bb*: Reason for the open error:

no such file: The specified file was not found in %PDDIR%\lib\sysdef.

permission denied: The specified file was found, but there was no applicable privilege.

errno=*cccc*: Processing terminated with error code *cccc*.

S: Terminates processing.

Action

Contact a customer engineer.

**KFPX24234-E L**

Unable to execute "*cc...cc*" in "alter system" statement due to exist view table derived from DATADictionary, view table name "*aa...aa*".*bb...bb*

The "*cc...cc*" operand of the alter system statement cannot be executed because no view table refers to the dictionary table.

All view tables that refer to the dictionary table must be deleted.

*aa...aa*: Authorization identifier

*bb...bb*: Name of the view table

*cc...cc*: Operand name

S: Terminates processing.

Action

Delete the view tables that refer to the dictionary table, and then re-execute. To determine the names of the view tables that refer to the dictionary tables, execute the following SQL statement:

```
SELECT VIEW_SCHEMA, VIEW_NAME
FROM MASTER.SQL_VIEW_TABLE_USAGE
WHERE BASE_OWNER='MASTER'
```

**KFPX24235-E L**

Line *aaaa*:unable to specify "dicinf limited" due to "HiRDB security" is "no"

dicinf limited cannot be specified in the alter system statement because the HiRDB security function is not being used.

*aaaa*: Line number

S: Terminates processing.

Action

To specify dicinf limited, specify HiRDB security yes, and restart processing with the database initialization utility.

**KFPX24236-E L**

Unable to execute "*aa....aa*" in "alter system" due to UAP and/or utility is executing

The "*aa....aa*" operand in the alter system statement cannot be executed because a UAP or utility is executing.

*aa....aa*: Operand name

S: Terminates processing.

Action

Re-execute the operand after all UAPs and utilities that are accessing the dictionary table have terminated.

**KFPX24237-I L**

Dicinf mode change to *aa....aa*

dicinf was changed to *aa....aa*.

*aa....aa*: Type of change:

limited: Referencing of the dictionary table is restricted.

unlimited: Referencing of the dictionary table is not restricted.

S: Terminates processing.

Action

Re-execute after all UAPs and utilities that are accessing the dictionary table have



terminated.

**KFPX24238-W L**

SQL OBJECT of procedure "*aa...aa*".*bb...bb* invalidated

The SQL object of procedure "*aa...aa*" .*bb...bb* was invalidated.

*aa...aa*: Authorization identifier

*bb...bb*: Routine identifier

S: Resumes processing.

Action

Re-create the SQL object for procedure "*aa...aa*" .*bb...bb* using the ALTER PROCEDURE statement. For a procedure with an authorization identifier MASTER and a routine identifier that begins with SQL\_REGISTRY, re-create the SQL object by specifying -k renew in the Registry Function Initialization Utility (pdreginit).

**KFPX24239-I L**

Dictionary datatype mchar changed to "use"

The dictionary datatype mchar option was changed to "use".

S: Resumes processing.

**KFPX24240-W L**

Line *aaaa*: "*bb...bb*" operand ignored because cannot specified

Operand "*bb...bb*" was ignored because it cannot be specified.

*aa...aa*: Line number

*bb...bb*: Operand name

open attribute:

This operand cannot be specified for a master directory, data directory, data dictionary, or data dictionary LOB RDAREA.

S: Resumes processing.

Action

Delete operand "*bb...bb*".

**KFPX24241-E L**

Line *aaaa*:*dd...dd* operand value *bb...bb* invalid, because HiRDB file size exceeds *ccc* byte

The specified value *bb...bb* is invalid for the initial operand, because the HiRDB file in the database will exceed maximum value *ccc* (bytes) if created based on the specified value.

The specified value *bb...bb* is invalid for the `extension` operand, because the HiRDB file in the database will exceed maximum value *ccc* (bytes) after automatic extension if created based on the specified value.

*aaaa*: Line number

*bb...bb*: Specified value

*ccc*: Maximum value:

In UNIX

64G: 64 gigabytes

In Windows

2G: 2 gigabytes

*dd...dd*: Specified operand:

`initial`: initial operand

`extension`: extension operand

S: Terminates processing after analyzing all control statements.

Action

Specify a smaller value in this control statement operand and re-execute.

**KFPX24242-W L**

Unable to *aa...aa bb...bb.cc...cc* due to *dd...dd*, RDAREA name="*ee...ee*" [(generation number *ff*)]

Processing *aa...aa* on storage RDAREA "*ee...ee*" at *bb...bb.cc...cc* cannot be performed due to the reason *dd...dd*.

*aa...aa*: Processing type

`purge BLOB attribute`: Deletion of BLOB-attribute data

`purge PLUGIN INDEX`: Deletion of plug-in index data

`set check pending status`: Set in check pending status

*bb...bb*: Authorization identifier

*cc...cc*: Table identifier or index identifier

*dd...dd*: Reasons for the error

`RDAREA status is invalid`: RDAREA status error

`HiRDB system error occurred`: SQL error

`not found replica RDAREA`: Replica RDAREA does not exist

*ee....ee*: RDAREA name

Outputs the *bb....bb . cc....cc* storage RDAREA name. However, if the reason for the error is `not found replica RDAREA`, the name of the original RDAREA where the replica RDAREA was not found is output.

*ff*: Generation number (1-10)

The generation number of the nonexistent RDAREA is output only when the error reason is `not found replica RDAREA`.

S: Skips processing *aa....aa* on the indicated RDAREA; continues with the next processing operation.

Action

- Processing type is `purge BLOB attribute` or `purge PLUGIN INDEX`

If the problem is an RDAREA status error, either `RELEASE` or `OPEN` the RDAREA at "*ee....ee*". If the problem is an SQL error, see the preceding SQL message, correct the cause of the problem, and then re-execute.

- Processing type is `set check pending status`

Forcibly set *bb....bb . cc....cc* in check pending status. Also, if the "*ee....ee*" RDAREA is using the inner replica facility, specify the generation number of "*ee....ee*", and forcibly set it in check pending status. However, if the reason for the error is `not found replica RDAREA`, the corresponding RDAREA does not exist; create a replica RDAREA with generation number *ff*, or combine RDAREAs, and then use an integrity check utility to check the integrity. For details about the procedure for integrity checking, see the manual *HiRDB Version 8 Installation and Design Guide*.

#### **KFPX24244-I L**

Unable to delete LIST data, rdarea id = *aa....aa*

Deletion of list data created from a table stored in the RDAREA that was to be initialized failed.

*aa....aa*: ID of list RDAREA in which the error occurred

Format: A 10-digit RDAREA ID is displayed (9 is used as the padding character for IDs that consist of fewer characters than 10 digits); the comma (,) is used as a delimiter.

S: Continues processing.

P: If an error occurred in the list RDAREA identified in this message, an error may occur during list re-creation or list deletion following re-initialization completion. Determine the error details based on the message that is output before this message and identify the RDAREA from the RDAREA ID that is output in this message, and investigate the cause of the error.

**KFPX24245-W L**

Line *aaaa*:max entries raised to *bb...bb*

Because the value specified for the `max entries` operand in the `create rdarea` statement or `initialize rdarea` statement was not a multiple of 500, it was rounded up to *bb...bb*. This operand specifies the maximum number of lists that can be created in a list RDAREA.

*aaaa*: Line number

*bb...bb*: Rounded-up number

S: Continues processing.

**KFPX24246-W L**

Extension use specification for RDAREA *aa...aa* ignored, due to no expand option for HiRDB file system area of last HiRDB file

Specification of `extension use` is invalid because `extension` (-e option of the `pdfmkfs` command) is not specified for the HiRDB file system area in which the last HiRDB file comprising RDAREA *aa...aa* was created.

*aa...aa*: RDAREA name

S: Continues processing.

Action

To use the automatic extension facility, `extension` must be specified for the applicable HiRDB file system area. Use the -e option of the `pdfmkfs` command to specify the maximum number of extensions.

**KFPX24247-E L**

Unable to remove generation "*aa...aa*" due to *bb...bb*

HiRDB file system area generation "*aa...aa*" could not be deleted because of reason *bb...bb*.

*aa...aa*: HiRDB file system area name whose generation is to be deleted

*bb...bb*: Reason

`original HiRDB file system area`: Specified the original HiRDB file system area.

`exist replica rdarea`: The replica RDAREA is using the target HiRDB file system area.

`not defined`: The generation of the specified HiRDB file system area is not registered.

S: Terminates processing.

Action

Deleting all generation information for the HiRDB file system area makes it possible to delete the original HiRDB file system area. When the replica RDAREA uses the HiRDB file system area, use the following SQL statements to check the replica RDAREA. Delete the replica RDAREA if it is unnecessary, and then re-execute the command.

```
SELECT RDAREA_NAME
FROM MASTER.SQL_RDAREAS X,MASTER.SQL_PHYSICAL_FILES Y
WHERE X.ORIGINAL_RDAREA_ID IS NOT NULL
AND X.RDAREA_NAME = Y.RDAREA_NAME AND
X.SERVER_NAME='server-name'
AND Y.PHYSICAL_FILE_NAME LIKE
'HiRDB-file-system-area-name%'
```

**KFPX24248-E L**

Unable to initialize rdarea "*aa....aa*" due to not found replica RDAREA(generation number *bb*) for original RDAREA "*cc....cc*"

Another RDAREA cannot be processed while RDAREA "*aa....aa*" is being initialized, because the replica RDAREA for generation number *bb* in original RDAREA "*cc....cc*" was not found.

*aa....aa*: Name of the RDAREA to be reinitialized

*bb*: Generation number

*cc....cc*: Name of original RDAREA used to process another RDAREA

S: Terminates processing.

Action

Create the corresponding replica RDAREA, and then re-execute the command.

**KFPX24249-E L**

Unable to "*aa....aa*" due to generation already registered in HiRDB file system area

Process "*aa....aa*" could not be performed because the generation of the HiRDB file system area was already registered.

*aa....aa*: Process

```
alter HiRDB mode: Reconfigure to a HiRDB/Parallel Server
```

S: Terminates processing.

Action

Delete all generation information in the HiRDB file system area, and then re-execute the command.

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### **KFPX24250-E L**

Unable to *aa....aa* rdarea due to invalid replica status

Process *aa....aa* could not be performed because the replica status of the replica RDAREA is invalid.

*aa....aa*: Process

remove: Deletes the RDAREA

S: Terminates processing.

Action

Change the replica status of the replica RDAREA from current to sub, and then re-execute the command.

### **KFPX24251-W L**

Not found HiRDB file system area "*aa....aa*"

The replica HiRDB file system area or original HiRDB file system area could not be found.

*aa....aa*: HiRDB file system area name

S: Continues processing.

Action

Because the generation information of the HiRDB file system area is already registered, you have to create an applicable HiRDB file system area before using the replica RDAREA.

### **KFPX24252-E L**

Unable to recast rdarea due to *aa....aa* rdarea "*bb....bb*" in progress

The RDAREA could not be integrated because RDAREA "*bb....bb*" is performing the *aa....aa* process.

*aa....aa*: Process

initialize: Initializes the RDAREA.

remove: Deletes the RDAREA

*bb....bb*: RDAREA name

S: Terminates processing.

Action

Re-execute the command after the *aa....aa* process terminates.

### **KFPX24253-E L**

Staticizer Option required

The HiRDB Staticizer Option is required to register the generation of the HiRDB file system area or define the replica RDAREA.

S: Terminates processing.

Action

Install the HiRDB Staticizer Option, and then re-execute the command.

**KFPX24254-E L**

Unable to replicate rdarea due to not exist table or index

The replica RDAREA could not be defined because no table, index, or LOB column was defined in the original RDAREA.

S: Terminates processing.

Action

Check if the target original RDAREA is correct, and then re-execute the command.

**KFPX24255-E L**

Unable to *aa....aa* due to not specified original RDAREA

Process *aa....aa* could not be performed because the original RDAREA was not specified.

*aa....aa*: Reconfiguration process

- replicate rdarea: Copies the RDAREA definition
- recast rdarea: Integrates the RDAREA.

S: Terminates processing.

Action

Specify the original RDAREA, and then re-execute the command.

**KFPX24256-E L**

Number of replica count exceed 10, replica count limit over RDAREA *aa....aa*

The replica counter exceeded the maximum value of 10 at RDAREA *aa....aa*.

*aa....aa*: Name of the RDAREA where the replica counter exceeded the maximum value (original RDAREA)

S: Terminates processing.

Action

Check the number of replica definitions in the original RDAREA, and then re-execute the command.

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### **KFPX24257-E L**

Unable to define copy rdarea due to specified RDAREA *aa...aa*  
invalid original RDAREA/replica RDAREA

The configuration information of the RDAREA could not be copied because specified RDAREA *aa...aa* was neither the original RDAREA nor the replica RDAREA.

*aa...aa*: RDAREA name

S: Terminates processing.

Action

Check if the specified RDAREA is correct. Specify either the original RDAREA or the replica RDAREA, and then re-execute the command.

### **KFPX24258-E L**

Unable to define copy rdarea due to invalid sameness original RDAREA

The configuration information of the RDAREA could not be copied because the original RDAREA of the RDAREA specified in the copy destination and copy source were not the same.

S: Terminates processing.

Action

Check the original RDAREA name of the RDAREA specified in the copy destination and copy source, and then re-execute the command.

### **KFPX24259-E L**

Unable to *aa...aa* due to create generation invalid HiRDB file system area

Process *aa...aa* could not be performed because the generation of the HiRDB file system area was not registered.

*aa...aa*: Reconfiguration process

replicate rdarea: RDAREA replica definition

define copy rdarea: Copies configuration information of the RDAREA

S: Terminates processing.

Action

Register the generation of the HiRDB file system area, and then re-execute the command.

### **KFPX24260-E L**

Unable to recast rdarea due to invalid original RDAREA replica count 1



RDAREA could not be integrated because the replica counter of the original RDAREA was not 1.

S: Terminates processing.

Action

Check the replica counter count of the original RDAREA, and then re-execute the command.

**KFPX24261-I L**

HiRDB system must restarted

Always restart the HiRDB system after you have migrated an RDAREA.

S: Continues processing.

Action

Restart the HiRDB system.

**KFPX24262-E L**

Line:*aaaa*:unable to move rdarea "*bb...bb*" due to lack of specification for related RDAREA "*cc...cc*"

RDAREA "*bb...bb*" could not be migrated because related RDAREA "*cc...cc*" was not specified.

*aaaa*: Row number

*bb...bb*: RDAREA to be migrated

*cc...cc*: Related RDAREA

S: After analysis of the applicable control statement ends, processing terminates, and then processing of the next control statement starts.

Action

Specify all related RDAREAs, and then re-execute the command.

**KFPX24263-E L**

Line *aaaa*:unable to move rdarea "*bb...bb*" due to rdarea in different server

RDAREA "*bb...bb*" could not be migrated because a different back-end server was specified.

*aaaa*: Row number

*bb...bb*: RDAREA name

S: After analysis of the applicable control statement ends, processing terminates, and then processing of the next control statement starts.

Action

Specify only RDAREAs on the same server, and then re-execute the command.

**KFPX24264-E L**

Line *aaaa*:unable to move rdarea. Source BES and destination BES identical

The RDAREA could not be migrated because the current server name of the migration target RDAREA was specified.

*aaaa*: Row number

S: After analysis of the applicable control statement ends, processing terminates, and then processing of the next control statement starts.

Action

Respecify the server name of the migration destination, and then re-execute the command.

**KFPX24265-E L**

Line *aaaa*:unable to move rdarea "*bb...bb*" due to NONDIV\_IDX defined, index\_name=*cc...cc*. "*dd...dd*"

The RDAREA could not be migrated because a non-partitioning key index was defined in specified RDAREA "*bb...bb*".

*aaaa*: Row number

*bb...bb*: RDAREA name

*cc...cc*: Authorization identifier

*dd...dd*: Index identifier

S: After analysis of the applicable control statement ends, processing terminates, and then processing of the next control statement starts.

Action

Drop the non-partitioning index, and then re-execute the command.

**KFPX24266-E L**

Line *aaaa*:unable to move rdarea "*bb...bb*" due to create generation invalid HiRDB file system area

The RDAREA could not be migrated because the generation of the HiRDB file system area in the HiRDB file comprising specified RDAREA "*bb...bb*" was not registered on the migration target server.

*aaaa*: Row number

*bb...bb*: RDAREA name

S: After analysis of the applicable control statement ends, processing terminates, and then processing of the next control statement starts.

## Action

Register the generation of the HiRDB file system area on the migration target server, and then re-execute the command.

**KFPX24268-E L**

Unable to *aa....aa* rdarea "*bb....bb*" due to exist INSERT ONLY table *cc....cc.dd....dd*

*aa....aa* could not be performed because falsification prevented table *cc....cc.dd....dd* was found in RDAREA "*bb....bb*".

*aa....aa*: Database structure modification utility (pdmod) facility

initialize: Reinitializes the RDAREA.

replicate: RDAREA replica definition

*bb....bb*: RDAREA name

*cc....cc*: Authorization identifier

*dd....dd*: Table identifier

S: Processing of the applicable control statement terminates, and then processing of the next control statement starts.

## Action

When reinitializing the RDAREA, take one of the following actions:

- When recovery is necessary, recover from a backup file.
- To increase the RDAREA size, either expand the RDAREA (`expand rdarea`) or perform automatic extension of the RDAREA.

**KFPX24269-E L**

Unable to *aa....aa* because *bb....bb* already exists in HiRDB system

*aa....aa* could not be performed because *bb....bb* was already registered or created.

*aa....aa*: Database structure modification utility facility

- `create auditor`: Registers an auditor.
- `create audit table`: Creates an audit trail table.

*bb....bb*: Auditor or audit trail table

- `auditor`: Auditor
- `audit table`: Audit trail table

S: After analysis of the applicable control statement ends, processing terminates, and then processing of the next control statement starts.

## Action

When recreating an audit trail table, execute the command after the auditor drops the audit trail table using `DROP TABLE`.

**KFPX24270-E L**

Unable to create audit table unless privilege for RDAREA "*aa...aa*" granted only auditor

An audit trail table could not be created because a user other than the auditor had usage privileges to RDAREA "*aa...aa*".

*aa...aa*: RDAREA name

S: After analysis of the applicable control statement ends, processing terminates, and then processing of the next control statement starts.

Action

Specify an RDAREA for users so that only the auditor has usage privileges, and then re-execute the command.

**KFPX24271-E L**

Unable to create auditor because user "*aa...aa*" *bb...bb*

Because user "*aa...aa*" is *bb...bb*, he or she cannot be registered as an auditor.

*aa...aa*: Authorization identifier

*bb...bb*: Reason

has DBA privilege: User "*aa...aa*" already has the DBA privilege.

password account locked: User "*aa...aa*" is in a password invalid account lock state.

S: After analysis of the applicable control statement ends, processing terminates, and then processing of the next control statement starts.

Action

Take one of the following actions:

- If the reason is `has DBA privilege`:

Take one of the following actions:

- Use the `REVOKE` statement to delete the user's DBA privilege, and then re-execute the command.
- Specify a user who does not have DBA privilege or a new user, and then re-execute the command.
- If the reason is `password account locked`:

Either clear the password invalid account lock state or specify a user (including new users) who is not in password invalid account lock state, and

then re-execute the command.

**KFPX24272-E L**

Unable to create audit table due to no auditor

An audit trail table could not be created because there was no auditor.

S: After analysis of the applicable control statement ends, processing terminates, and then processing of the next control statement starts.

Action

Register an auditor using the `create auditor` statement in the database structure modification utility, and then re-execute.

**KFPX24273-E L**

Unable to create audit table due to duplicate table name  
*aa....aa.bb....bb*

This name could not be used in the audit trail table because table *aa....aa.bb....bb* already exists.

*aa....aa*: Authorization identifier

*bb....bb*: Table identifier

S: After analysis of the applicable control statement ends, processing terminates, and then processing of the next control statement starts.

Action

Give the audit trail table a different name, and then re-execute the command.

**KFPX24274-E L**

Unable to create shared RDAREA *aa....aa* due to not specified  
`pd_shared_rdarea_use=Y`

`Y` is not specified in the `pd_shared_rdarea_use` operand; unable to add the shared RDAREA *aa....aa*.

*aa....aa*: RDAREA name

S: Cancels the structural change on the specified RDAREA and continues processing another control statement.

Action

Terminate HiRDB, assign `Y` to the `pd_shared_rdarea_use` operand, and then re-execute the command.

**KFPX24275-E L**

No schema for *aa....aa*

A schema is missing; unable to create an audit trail table.

*aa...aa*: Authorization identifier for the auditor for which a schema is missing (8-character maximum)

S: Cancels the structural change on the specified RDAREA and continues processing another control statement.

Action

Use `create schema` to create a new schema, and then re-execute the command.

**KFPX24400-E L**

HiRDB system "*aa...aa*" failed return code=*bb...bb*

The "*aa...aa*" function terminated with return code *bb...bb*.

*aa...aa*: Function name:

`pd_com_call`: Communication calling

`pdi_adm_get_my_orghostname`: Collection of host name

`pdi_adm_pdmgrinf`: Collection of manager server information

`pdi_adm_pddicinf`: Collection of dictionary server information

`pdi_ndm_branchreg`: Branch registration

`pdi_ndm_branchdel`: Deletion of branch registration

`pdi_utl_sh_prolog`: Start of RPC environment

`pdi_utl_sh_epilog`: Termination of shell process

*bb...bb*: Detail code of system-related error

S: Terminates processing

Action

See 4.2 *Detail codes for system-related errors* to eliminate the cause of the error and re-execute.

**KFPX24401-I E**

Usage: `pdvrup`

Displays the specification format for the `pdvrup` command. There are no options in this command.

S: Terminates processing.

Action

Correct the command's format and re-execute.

**KFPX24402-E L**

System call error, `func=aa...aa`, `errno=bbbb`

An error occurred while system function *aa....aa* was executing.

*aa....aa*: Function that was executing

*bbb*: Error code

S: Terminates processing.

Action

Eliminate the cause of the error based on the error code and re-execute.

**KFPX24403-E L**

Pdvrup must be executed at unit where manager is defined

The pdvrup command must be executed at the server machine where the system manager is defined.

S: Terminates processing.

Action

Log onto the remote server machine where the system manager is defined and execute the pdvrup command.

**KFPX24404-I L**

Pdvrup ended, return code=*aa*

The pdvrup command terminated with return code *aa*.

*aa*: Return code:

0: Normal termination

4: An error occurred during execution of the pdvrup command; the version upgrading terminated normally. Terminate HiRDB, and then restart it.

12: Abnormal termination

S: Terminates processing.

Action

If the return code is 12, correct the error by referring to the error message that is output and then re-execute.

**KFPX24405-E L**

Insufficient memory on PROCESS, size=*aa....aa*

Because of a memory shortage, a process private area could not be allocated during execution of the pdvrup command.

*aa....aa*: Area size that was to be allocated (in bytes)

S: Terminates processing.

Action

## 2. Messages

Check the total number of processes, including processes external to HiRDB, delete unneeded processes, and then re-execute. If this message is output repeatedly, contact a customer engineer.

### **KFPX24406-E L**

Message output failed, return code=*aa...aa*, msgno=*bbbb*

An attempt to output a message to a log file terminated with return code *aa...aa*.

*aa...aa*: System-related error detail code

*bbbb*: Message number that was to be output

S: Terminates processing.

Action

Correct the error by referring to *4.2 Detail codes for system-related errors*.

### **KFPX24407-E L**

Unable to execute "pdvrup" at the same time

Because the pdvrup command is already being executed, the pdvrup command that was specified subsequently cannot be executed.

S: Terminates processing.

Action

Wait for the pdvrup command being executed to terminate.

### **KFPX24408-E L**

Pdvrup command failed, due to DATABASE Version already coincide with HiRDB version, version=*aaaaa*

Version upgrading was not executed because the HiRDB version already matches the dictionary version.

*aaaaa*: Version number

S: Terminates processing.

### **KFPX24409-E L**

Pdvrup command terminated, due to server process abnormal end

Remote server process terminated abnormally during execution of the pdvrup command.

S: Terminates processing.

Action

Unless the server process was terminated with the pdstop or pdcancel command, contact a customer engineer.



**KFPX24410-E L**

Definition file *aa...aa* open failed: *bb...bb*

Open error occurred in definition file *aa...aa* under %PDDIR%\lib\sysdef for reason *bb...bb*.

*aa...aa*: File name

*bb...bb*: Reason for the open error:

no such file:

The specified file was not found in %PDDIR%\lib\sysdef.

permission denied:

The specified file was found, but there was no applicable privilege.

errno=*cccc*:

Processing terminated with error code *cccc*.

S: Terminates processing.

Action

Contact a customer engineer.

**KFPX24600-I S**

Pdreginit command start at *aa...aa* on *bb...bb*

The Registry Function Initialization Utility was started.

*aa...aa*: Starting time (*hh:mm:ss*)

*hh*: hour

*mm*: minute

*ss*: second

*bb...bb*: Starting date (*yyyy/mm/dd*)

*yyyy*: year

*mm*: month

*dd*: day

S: Resumes processing.

**KFPX24601-I S**

Pdreginit command for ended return code=*a* at *bb...bb* on *cc...cc*

The Registry Function Initialization Utility terminated on return code *a*.

*a*: Return code

## 2. Messages

0: Normal termination

4: A warning-level error was detected, but processing terminated.

8: The utility terminated abnormally. See the preceding message, correct the cause of the error, and then re-execute.

*bb...bb*: Starting time (*hh:mm:ss*)

*hh*: hour

*mm*: minute

*ss*: second

*cc...cc*: Starting date (*yyyy/mm/dd*)

*yyyy*: year

*mm*: month

*dd*: day

S: Terminates processing.

### **KFPX24602-E S**

Invalid option is specified with `pdreginit` command

An option not specifiable in the `pdreginit` command has been specified. Or, an option has been specified without an argument.

S: Terminates processing.

Action

Either specify the correct option or the argument for the option and re-execute.

### **KFPX24603-I S**

Usage: `pdreginit [-k {all|proc|renew} ] [-a statement_control_file_name]`

An option for the Registry Function Initialization Utility (`pdreginit`) contains a specification format error.

S: Terminates processing.

Action

Specify the `pdreginit` utility correctly and re-execute.

### **KFPX24604-E S**

No RDAREA for routine definition

A data dictionary LOB RDAREA is not defined. Therefore, a registry RDAREA and a registry LOB RDAREA cannot be added.

S: Terminates processing.

**Action**

Define a data dictionary LOB RDAREA using the Database Structure Modification Utility (pdmod) and re-execute.

**KFPX24605-E S**

EXEC SQL *aa....aa* Error

The SQL statement indicated by *aa....aa* is in error.

*aa....aa*: SQL statement on which execution was attempted

S: Terminates processing.

**Action**

Correct the cause of the error based on the error message following this message and re-execute.

**KFPX24606-E L**

Unable to omit registry RDAREA or registry LOB RDAREA

A control statement for adding a registry RDAREA or a registry LOB RDAREA is not specified.

For adding an RDAREA with a `for registry` specification or an RDAREA with a `for LOB` used by `HiRDB (SQL_REGISTRY)` specification, specify both control statements.

S: Terminates processing.

**Action**

Define an RDAREA with a `for registry` specification and an RDAREA with a `for LOB` used by `HiRDB (SQL_REGISTRY)` specification in the same control statement file, and then re-execute.

**KFPX28400-I L+S**

*aa....aa* process started

*aa....aa* processing has started.

*aa....aa*: Processing { Export|Import|Create DDL }

S: Resumes processing.

**KFPX28401-I L+S**

*aa....aa* process terminated

*aa....aa* processing has terminated.

*aa....aa*: Processing { Export|Import|Create DDL }

S: Resumes processing.

**KFPX28402-I L+S**

*aa....aa*, name="*bb...bb*". "*cc....cc*"

Table "*bb...bb*". "*cc....cc*", stored procedure "*bb...bb*". "*cc....cc*", or trigger "*bb...bb*". "*cc....cc*" was exported or imported, or definition SQL statements were generated.

*aa....aa*: Processing that was executed

{Procedure exported|Procedure imported|Table exported|Table imported|Trigger exported|Trigger imported|DDL Created}

*bb...bb*: Schema name (PUBLIC for the import/export of a public view)

*cc....cc*: Table identifier, routine identifier, or trigger identifier

S: Resumes processing.

**KFPX28403-E E+S+L**

HiRDB call error, func=*aa....aa*, errno=*bb...bb*

An error occurred during control processing between a utility and HiRDB.

*aa....aa*: Processing in which error occurred

{connect|disconnect|commit|rollback}

For all other cases, the code indicates the HiRDB processing type.

*bb...bb*: Error code

S: Terminates processing.

O: Take one of the following actions. If the operator cannot resolve the error, notify the HiRDB manager.

If another message was output before this message:

Take action appropriate to the previous message.

If no message was output before this message:

See 4. *Error Detail Codes*, correct the error, and then re-execute the command.

**KFPX28404-E E+L+S**

System call error, func=*aa....aa*, errno=*bb...bb*

An error occurred in a system function.

*aa....aa*: System function

*bb...bb*: Error code

S: Terminates or resumes processing.

O:

Message was output before this message:

Take action appropriate to that message.

Error occurred in system function indicated by `func`:

Check the `errno` of the system function and take action appropriate to the `errno` contents.

Error occurred in `tcgetattr` function during password input:

In UNIX, consider the following causes:

- A utility was started by `rsh` (remote shell).
- The terminal environment is invalid.

These messages are output before and after password input.

In Windows, the terminal environment is invalid. These messages are output before and after password input.

**KFPX28405-E L+S**

Dictionary error(*aa....aa*, *bb....bb*)

A dictionary error was detected.

*aa....aa*: Name of dictionary table

*bb....bb*: Cause of error

S: Terminates processing.

O: Check whether the dictionary was recovered correctly and recover it using the correct procedure.

**KFPX28406-E E**

RPC error occurred

In UNIX:

An error occurred during communication between a utility shell process and a server process.

In Windows:

An error occurred during communication between a utility process and a server process.

S: Terminates processing.

O: Check to see whether HiRDB started normally at the utility startup host or a host containing an export file.

**KFPX28407-E E+L+S**

File error occurred, `func=aa....aa`, `file=bb`

## 2. Messages

*aa...aa* error occurred in file *bb*.

*aa...aa*: Type of error

{ OPEN | CLOSE | READ | WRITE | CREATE }

*bb*: File name:

-e: Export file at the time of exporting

-f: Control statements file

-i: Import file

-p: Processing result output file

-o: Definition SQL output file

S: Terminates processing.

O:

OPEN error:

Check that the specified file name is correct.

Other error:

Check the specified file to see if required information has been set, such as privileges.

-o file:

- Host name not specified in -i

Check the file specified in -o to see if required information (such as privileges) has been set.

- Host name specified in -i

Check the file name specified in o or the temporary work file (file with name beginning with `pdexp_sql`) that is created under `%PDDIR%\tmp` at the corresponding host to see if required information (such as privileges) has been set.

-p file:

Check the contents of the message log file because the processing results are output to that file.

### **KFPX28408-E E**

Invalid execution node

The server machine that started the `pdexp` utility is invalid.

S: Terminates processing.

O:

- HiRDB/Single Server:  
Start pdexp at the Single Server (SDS) server machine.
- HiRDB/Parallel Server:  
Start pdexp at the server machine of the system manager (MGR).

**KFPX28409-E E**

Invalid device, file=-f

The control statements file specified by -f is invalid, or the specified file cannot be accessed.

S: Terminates processing.

O: Specify the correct file, or check that the status of the directory in the path specification is correct.

**KFPX28410-E E**

Insufficient memory in message buffer pool due to concurrent execution of "pdexp"

A temporary memory shortage occurred in the message storage buffer pool for the utility server because pdexp was executed concurrently. pdexp cannot be executed concurrently.

The KFPS00854-W message may be output if this error occurs; however, a server error has not occurred in this case.

S: Terminates processing.

O: Re-execute pdexp after the current pdexp execution is completed.

**KFPX28411-E E**

Unable to send message from *aa....aa* to *bb....bb*

A communication error occurred between host *aa....aa* and host *bb....bb*.

*aa....aa*: Send source host name<sup>1</sup>

*bb....bb*: Send destination host name<sup>1</sup>

<sup>1</sup> If the system switchover facility is being used, the host name of the primary system is indicated.

S: Terminates processing.

Action

Take action appropriate to the KFPX28403-E message, which was output before this message. If the error is not a physical communication error, there may be an

inconsistency in the system definitions concerning the relationship between the hosts; check the interhost definitions for the hosts affected by the error and re-execute.

**KFPX28412-E E**

Invalid environment, reason=aaaaaa

An error was detected in the execution environment of the dictionary export/import utility.

The following is a possible cause:

In UNIX:

- The utility is being executed in the remote shell environment.
- An & was attached to the shell and the utility was executed in the background.
- The utility was executed in an environment in which password response is disabled.

In Windows:

- The utility was executed in an environment in which password response is disabled.

aaaaaa: Reason code:

no\_tty: The execution environment does not have a terminal.

S: Terminates processing.

O: Reason code is no\_tty:

To execute the utility in an environment in which password response is disabled, specify the authorization identifier and password in the PDUSER environment variable and re-execute without specifying the -u option on the command line.

**KFPX28413-E E+S+L**

File I/O error occurred, reason=aa....aa, func=bb....bb, errno=cc....cc, (dd....dd)

An error occurred during a file I/O operation.

aa....aa: Error reason

In UNIX, if the entry type of the file specified by Invalid-device cannot be identified, a single character enclosed in parentheses is displayed. This entry type is the same as the entry mode that was printed by specifying the OS's `ls -l` command.

Invalid-parameter:

The combination of specified parameter is invalid.



Invalid-device:

The entry type for the specified file is invalid.

File-format:

The specified format does not match the actual format.

File-lock:

A write was attempted on a file that the utility is reading or writing.

No-file:

The file to be opened for read does not exist. Or, the file being written to was erased.

Invalid-permission:

The specified file contains an invalid permission.

No-space:

The file to be written to does not have enough space.

Invalid-file:

An invalid file was specified.

*bb...bb*: Name of the system function in which the error occurred

If the error is not with a system function, the symbol \*\*\* is output.

*cc...cc*: Error number

The number 0 is output if no errors have occurred in a system function.

*dd...dd*: Name of the source file and the line number at which an error was detected

S: Terminates processing.

Action

Correct the cause of the error by referring to the error reason and the error number, and then re-execute.

**KFPX28440-E E**

Invalid option

An error was detected in the command line specification (an invalid option was specified).

S: Terminates processing.

O: Correct the option.

**KFPX28441-I E**

Usage: pdexp {-e [host\_name:] export\_file\_name |-i [host\_name:]export\_file\_name [-o output\_file\_name [-a]]} [-f statement\_control\_file\_name] [-u user\_name]

An error was detected in an option specification of the dictionary export/import utility.

S: Terminates processing.

O: Re-execute the utility with the correct specifications.

**KFPX28442-E E**

Unable to specify -e and -i at the same time

An error was detected on the command line (-e and -i were specified at the same time).

S: Terminates processing.

O: Specify either -e or -i, not both.

**KFPX28443-E E**

Missing *aa...aa* option

An error was detected on the command line (neither -e nor -i is specified, or -e is specified but -f is not).

*aa...aa*: Option name { -e/-i|-f }

S: Terminates processing.

O: Specify the option correctly.

**KFPX28445-E E**

Invalid value in *aa* option

One of the following errors was detected in the command line specification:

- The value specified for the *aa* option is invalid.
- The value specified for the *aa* option is too long (if the -u option is specified, there were more than 8 characters; if other than the -u option is specified, there were more than 1,023 bytes).
- No value is specified for the *aa* option.
- The value specified for the *aa* option is not an absolute path name.

*aa*: Name of invalid option

S: Terminates processing.

O: Specify the option correctly.

**KFPX28446-E E**

Invalid value in host name

One of the following errors was detected in the command line specification:

- The host name specification is invalid.
- The specified host name is not a host that supports export/import processing.
- The specified host name indicates the host for a secondary system in the system switchover facility.

S: Terminates processing.

O: Specify the correct host name.

- When executing this command on the local host in a HiRDB/Single Server, the host name should be omitted.
- If the system switchover facility is used, specify the host name for the primary system.

**KFPX28447-E E**

Invalid *aa...aa*

During execution of the dictionary export/import utility, the authorization identifier or password that was specified in the environment variable was invalid.

*aa...aa*: Invalid item:

auth\_id: Authorization identifier

password: Password

S: Terminates processing.

O:

auth\_id is output:

Correct the contents of the PDUSER environment variable and re-execute the command.

password is output:

Correct the contents of the PDUSER environment variable and re-execute the command. If a password was entered as the response to an input response message, re-execute the command, making sure that the response is correct.

In the Windows version of HiRDB, if the `-u` option is omitted, check if the character string specifying the authorization identifier or the password is not enclosed in single quotation marks (') at the command prompt.

Example of correct specification: PDUSER="root"/"root"

If specifying in a client environment definition (`hirdb.ini`), this is further enclosed in single quotation marks.

Example of correct specification: PDUSER=' "root"/"root" '

**KFPX28501-E E**

Invalid environment for *aa....aa*

This HiRDB system cannot import or export *aa....aa* because there is no dictionary table for *aa....aa*.

*aa....aa*: {procedure|trigger}

S: Terminates processing.

O:

Export:

*aa....aa* cannot be exported because the system has no *aa....aa*.

Import:

Add RDAREAs for the stored procedures with the database structure modification utility, and then import the stored procedures.

**KFPX28502-E L+S**

Incompatible *aa....aa* between export and import system

Objects cannot be imported because the *aa....aa* of the export system is different from that of the import system.

*aa....aa*: Item:

byte order: Byte order

S: Terminates processing.

O: Export/import objects between systems that support the same byte order.

**KFPX28503-E L+S**

Incompatible character code set, HiRDB= *aa....aa*, export file=*bb....bb*

The character codes of the export file are inconsistent with the character codes of the import destination HiRDB.

*aa....aa*: HiRDB Character codes:

CHINESE: EUC Chinese kanji codes

LANG-C: One-byte character codes

SJIS: Shift JIS kanji codes

UJIS: EUC Japanese kanji codes

UTF-8: Unicode (UTF-8)

*bb....bb*: Export file character codes:

CHINESE: EUC Chinese kanji codes

LANG-C: One-byte character codes

SJIS: Shift JIS kanji codes

UJIS: EUC Japanese kanji codes

UTF-8: Unicode (UTF-8)

S: Terminates processing.

O: Export/import objects between systems that support the same type of character codes.

**KFPX28504-W L+S**

Unable to specify *aa...aa* name, reason~*bb...bb*, name="*cc...cc*". "*dd...dd*"

Triggers internally created by HiRDB during the table definition of a referencing table cannot be exported. Such triggers, which are created when a referencing table is imported/exported, need not be imported/exported.

*aa...aa*: Name

trigger

table

*bb...bb*: Reason

system trigger

AUDIT TRAIL TABLE

*cc...cc*: Schema name

*dd...dd*: Trigger name or table identifier

S: Ignores the processing of the specified name, and continues processing.

O: Take one of the following actions:

- If *bb...bb* is `system trigger`, the name of the trigger internally created by HiRDB during the definition of the referencing table should not be specified as the name of the control statement.
- If *bb...bb* is `AUDIT TRAIL TABLE`, the name of the audit trail table should not be specified as the name of the control statement.

**KFPX28505-E E+L**

Audit trail file write error, reason=*aaaaa*

An error occurred during output of the audit trail file. The audit trail for the utility is not output to the audit trail file.

*aaaaa*: Error detail code

S: Continues processing.

O: Resolve the cause of the error by referencing the error detail code. For details about error codes, see *4.2 Detail codes for system-related errors*.

**FPX29001-E S**

Specified value *aa...aa* invalid

The specified value was outside the permitted range of values.

*aa...aa*: Specified invalid value

S: Ignores the specified value, in which case the set value is not changed.

Action

Select the menu again and correct the value.

**KFPX29002-I S**

Specified directory *aa...aa* are install directory

The specified directory is the installation directory, not the HiRDB directory. If system generation is continued, the system will be generated using the installation directory. If a new version of HiRDB is installed, the system will be upgraded and it will no longer be possible to use the old version.

*aa...aa*: Specified directory

Action

To construct a HiRDB system in the specified directory, resume processing as is. To construct it in another directory, terminate the `pdgen` command, create the HiRDB directory, and then re-execute the `pdgen` command.

**KFPX29003-E S**

Enter file or directory name with complete path name=*aa...aa*

The directory and file names must be absolute path names beginning with `/`.

*aa...aa*: Specified file name and directory name

S: Ignores the specified value, in which case the set value is not changed.

Action

Specify the complete path name.

**KFPX29004-E S**

The specified directory *aa...aa* is not HiRDB directory

The specified directory is not a HiRDB directory. Or, `pdsetup` has not completed.

*aa...aa*: Specified HiRDB directory name (in the case of another host, *hostname*: is displayed at the beginning)

S: Ignores the specified value, in which case the set value is not changed.

**Action**

Check the specified directory name. If it is incorrect, specify the correct HiRDB directory name and set the value again. If `pdsetup` has not completed, terminate `pdgen`, execute `pdsetup`, and then re-execute `pdgen`.

**KFPX29005-E S**

Invalid file or director specified *aa....aa bb...bb*

The specified directory or file name was invalid.

*aa....aa*: Specified directory or file name

*bb...bb*: Type of error:

not character special file:

A raw file was selected, but the specified file was not a character special file; or, the specified file was not found.

invalid directory name:

A regular file was selected, but a file name was specified without the high-order directory name.

not UNIX file:

A regular file was selected, but the specified file was not a regular file.

S: Ignores the specified value, in which case the set value is not changed.

**Action**

Select the item again and enter the correct directory or file name.

**KFPX29006-E S**

`Rdarea-add-menu` can select after system generation

The Add RDAREA menu cannot be selected until system generation is completed.

S: Resumes processing.

**Action**

Add RDAREAs after system generation is completed.

**KFPX29007-E S**

Invalid host name are specified *aa....aa*

Possible causes are as follows:

- The specified host name was invalid.
- The specified host has not been registered in the `hosts` file.
- The host has not been started.

*aa...aa*: Specified host name

S: Ignores the specified value, in which case the set value is not changed.

Action

Check the specified host name. If it is incorrect, specify the correct name and set the value again. If the specified name is not registered in the `hosts` file, add the host name in this file. If the host has not been started, start it and execute the `pdgen` command. Note that the `pdgen` command is checked by the `ping` command. When this error has occurred, use the `ping` command to check the specified host for any error.

**KFPX29008-E S**

Remote shell configuration are not set up with *aa...aa*

A remote shell environment has not been set up for the specified host.

*aa...aa*: Host name

S: Ignores the specified value, in which case the set value is not changed.

Action

Set the environment of the specified host so that the user executing the `pdgen` command can also execute the remote shell.

**KFPX29009-E S**

System-generation can select after unit initialized

When a HiRDB/Parallel Server environment is being created, system generation cannot be selected until unit initialization has been completed. A unit has not been initialized, or initialization of the unit containing the system manager or dictionary server has not been completed.

S: Resumes processing by ignoring the specified value.

Action

Select the unit initialization menu to initialize units and generate the system after unit initialization has been completed.

**KFPX29010-E S**

Invalid status

Menu selection order is invalid. Or, HiRDB has already been started in the HiRDB directory where the HiRDB environment is to be created.

S: Ignores the specified value.

Action

Select the menus in the correct order.

To re-create the HiRDB environment in this HiRDB directory, terminate HiRDB,



execute the `pdsetup` command, and then re-execute.

**KFPX29011-E S**

HiRDB directory or `/tmp` is full in *aa....aa*

Specified menu processing cannot be executed because there is not enough space in the HiRDB directory or `/tmp` at host *aa....aa*.

*aa....aa*: Name of the host where the space shortage occurred

S: Cancels the specified menu processing.

## Action

Create at least 1 MB of space in the HiRDB directory and `/tmp` at host *aa....aa* and re-execute the menu.

**KFPX29012-E S**

Plugin-setup-menu can select after system generation

The plug-in setup screen can be selected only after system generation is complete.

S: Resumes processing by ignoring the specified value.

## Action

After the system build is complete, select the plug-in setup screen from the main menu.

**KFPX29013-E S**

Invalid file or directory specified *aa....aa*

The specified directory or file name contains an error. The following are possible causes of the problem:

- A plug-in PP is not installed.
- A name specified in an item contains an error.

*aa....aa*: Specified directory or file name (for a remote host, *hostname*: is indicated at the beginning of the name)

S: Resumes processing.

## Action

Check whether a plug-in PP is installed. If it is installed, check the name of the plug-in PP installation directory, the name of the plug-in, the name of the plug-in definition file, and the name of the plug-in PIC file.

After correcting the cause of the error, re-execute the plug-in setup option(s) in the plug-in setup menu.

**KFPX29014-E S**

Unable to update this menu for "Assume by pdgen"

The value of this item is already assumed by the `pdgen` command; therefore, it cannot be changed.

This item can be changed only when **Other Plugin** is selected in the plug-in selection option during plug-in name input, and the name of a plug-in is entered.

S: Resumes processing.

Action

This item can be changed by selecting **Other Plugin** in the plug-in selection option during plug-in name input and by entering the name of a plug-in.

**KFPX29015-E S**

Unable to setup PLUGIN for necessary parameter omitted

A required parameter is omitted on the plug-in setup screen; the plug-in was not installed.

The name of the plug-in PP installation directory, the name of the plug-in, the name of the plug-in definition file, and the name of the plug-in PIC file cannot be omitted on the plug-in setup screen.

S: Resumes processing.

Action

On the plug-in setup screen, specify the name of the plug-in PP installation directory, the name of the plug-in, the name of the plug-in definition file, and the name of the plug-in PIC file and then re-execute the plug-in setup option(s).

**KFPX29016-E S**

Unable to select this menu for HiRDB not running

Because of an error during the plug-in installation process, HiRDB is stopped. Therefore, the selected item cannot be executed.

S: Resumes processing.

Action

Terminate the `pdgen` command. Check the cause of the error based on the message that was output when the error occurred during the plug-in installation process. After correcting the error, use the `pdsetup` command to re-execute.

**KFPX29017-E S**

PLUGIN already exists

The specified plug-in is already registered.

S: Resumes processing.

Action

Confirm the values specified on the plug-in installation screen. After revising any

values that need to be modified, re-execute.

**KFPX29500-I L**

HiRDB system generation start at *aa....aa* on *bb...bb*

HiRDB system environment generation will be started.

*aa....aa*: Start time (*hh:mm:ss*)

*bb...bb*: Start date (*yyyy/mm/dd*)

S: Continues processing.

**KFPX29501-I L**

HiRDB system generation ended return code=*aa....aa* at *bb...bb* on *cc....cc*

HiRDB system environment generation has terminated.

*aa....aa*: Return code:

0: Normal termination

8: Abnormal termination

*bb...bb*: Termination time (*hh:mm:ss*)

*cc....cc*: Termination date (*yyyy/mm/dd*)

S: Terminates processing.

Action

If the return code is 8, HiRDB system environment generation failed and the process was cancelled. Correct the error by referring to the %PDDIR%\spool\result\_generate.log file, and then re-execute environment generation from setup.

**KFPX29502-I L**

HiRDB definition files creation start, PDCONFPATH=*aa....aa*

Creation of a HiRDB system definition file group is starting.

*aa....aa*: Name of the directory in which the HiRDB system definition file group will be created

S: Continues processing.

**KFPX29503-I L**

HiRDB definition files creation ended

Creation of a HiRDB system definition file group has terminated.

S: Continues processing.

**KFPX29504-I L**

HiRDB file system area initialization for *aa....aa* start,  
file=*bb...bb:cc....cc*, size=*dd....dd*

## 2. Messages

Initialization of a HiRDB file system area is starting.

*aa....aa*: Purpose of the HiRDB file system area:

DB: For RDAREAs

SYS: For system files

WORK: For work tables

UTL: For utilities

SVR: For any purpose other than utilities

*bb....bb*: Host name

*cc....cc*: Name of the HiRDB file system area

*dd....dd*: Size of the HiRDB file system area (in MB)

S: Continues processing.

### **KFPX29505-I L**

HiRDB file system area initialization ended, file=*aa....aa:bb....bb*

Initialization of a HiRDB file system area terminated.

*aa....aa*: Host name

*bb....bb*: Name of the HiRDB file system area

S: Continues processing.

### **KFPX29506-I L**

HiRDB system file initialization for *aa....aa* start

Initialization of a system file is starting.

*aa....aa*: System file type:

system\_log: System log file

synchronization\_point\_dump: Synchronization point dump file

server\_status: Server status file

unit\_status: Unit status file

S: Continues processing.

### **KFPX29507-I L**

HiRDB system file initialization ended

Initialization of a system file has terminated.

S: Continues processing.

**KFPX29508-I L**

HiRDB system starting at *aa....aa* on *bb...bb*

Activation of the HiRDB system is starting.

*aa....aa*: Activation start time (*hh:mm:ss*)

*bb...bb*: Activation start date (*yyyy/mm/dd*)

S: Continues processing.

**KFPX29509-I L**

HiRDB system started at *aa....aa* on *bb...bb*

Activation of a HiRDB system has been completed.

*aa....aa*: Activation completion time (*hh:mm:ss*)

*bb...bb*: Activation completion date (*yyyy/mm/dd*)

S: Continues processing.

**KFPX29510-I L**

HiRDB management file creation start, HiRDB file system  
area=*aa....aa*

Creation of the HiRDB management information file is starting.

*aa....aa*: Name of the HiRDB file system area

S: Continues processing.

**KFPX29511-I L**

HiRDB management file creation ended

Creation of HiRDB management information has terminated.

S: Continues processing.

**KFPX29512-E L**

Specified directory *aa....aa* is not HiRDB directory

The directory specified in the PDDIR environment variable is not a HiRDB directory,  
or its setup has not been completed.

*aa....aa*: Name of the directory specified in the PDDIR environment variable

S: Terminates processing.

Action

If the name of the HiRDB directory is incorrect, correct it. If setup has not been  
completed, rebuild the environment after setup is completed.

**KFPX29513-E L**

Invalid HiRDB status, PDDIR=*aa....aa*

HiRDB is already active in the HiRDB directory in which an attempt to build a HiRDB environment is being made.

*aa....aa*: Name of the directory specified in the PDDIR environment variable

S: Terminates processing.

Action

Check the value specified in the PDDIR environment variable. If the specified value is correct, stop the active HiRDB, perform setup again, and then build an environment.

**KFPX29514-E L**

System call error, func=*aa....aa*, errno=*bb...bb*

An error occurred in a system function.

*aa....aa*: System function name

*bb...bb*: Error code

S: Terminates processing.

Action

Check the `errno` of the system function, correct the error, and then re-execute.

**KFPX29515-E L**

*aa....aa* file "*bb...bb*" open failed, reason code=*cc....cc*

Opening of file *aa....aa* failed.

*aa....aa*: File type:

Management: Management information

*bb...bb*: File name

*cc....cc*: Error detail code

S: Terminates processing.

Action

Check the error detail codes related to the management information access library, correct the error, and then re-execute.

**KFPX29516-E L**

HiRDB definition file creation failed, file="*aa....aa*"

Creation of a HiRDB system definition file failed.

*aa....aa*: File name

S: Terminates processing.

**Action**

Determine the cause of the error from the error message output to the execution results log file for environment building that was performed before this message was output, correct the error, and then re-execute.

**KFPX29517-E L**

HiRDB file system area initialization failed, path name="*aa....aa*"

Initialization of a HiRDB file system area failed.

*aa....aa*: Name of the HiRDB file system area

S: Terminates processing.

**Action**

Determine the cause of the error from the error message output to the execution results log file for environment building that was performed before this message was output, correct the error, and then re-execute.

**KFPX29518-E L**

HiRDB system file initialization failed, file="*aa....aa*"

Initialization of a system file failed.

*aa....aa*: File name

S: Terminates processing.

**Action**

Determine the cause of the error from the error message output to the execution results log file for environment building that was performed before this message was output, correct the error, and then re-execute.

**KFPX29519-E L**

HiRDB start failed

HiRDB system startup failed.

S: Terminates processing.

**Action**

Determine the cause of the error from the error message output to the execution results log file for environment building that was performed before this message was output, correct the error, and then re-execute.

**KFPX29520-E L**

HiRDB management file creation failed, reason code=*aa....aa*

Creation of the HiRDB management information file in the HiRDB file system area failed.

## 2. Messages

*aa....aa*: Error detail code

S: Terminates processing.

Action

Check the error detail codes related to the management information access library, correct the error, and then re-execute.

### **KFPX29521-I L**

PLUGIN setup start

Plug-in setup is starting.

S: Continues processing.

### **KFPX29522-I L**

PLUGIN setup ended

Plug-in setup has terminated.

S: Continues processing.

### **KFPX29523-I L**

Registry initialization start

Registry initialization is starting.

S: Continues processing.

### **KFPX29524-I L**

Registry initialization ended

Registry initialization has terminated.

S: Continues processing.

### **KFPX29525-I L**

Processing of PLUGIN registration start

Plug-in registration is starting.

S: Continues processing.

### **KFPX29526-I L**

Processing of PLUGIN registration ended

Plug-in registration has terminated.

S: Continues processing.

### **KFPX29527-E L**

PLUGIN setup failed, PLUGIN name=*aa....aa*, install directory=*bb...bb*

Setup of plug-in *aa....aa* failed.

*aa....aa*: Plug-in name



*bb...bb*: Name of the installation directory in which the plug-in was to be set up

S: Terminates processing.

Action

Determine the cause of the error from the error message output to the execution results log file for environment building that was performed before this message was output, correct the error, and then re-execute.

**KFPX29528-E L**

Registry initialization failed

Registry initialization failed.

S: Terminates processing.

Action

Determine the cause of the error from the error message output to the execution results log file for environment building that was performed before this message was output, correct the error, and then re-execute.

**KFPX29529-E L**

Processing of PLUGIN registration failed, PLUGIN name=*aa....aa*

Registration of plug-in *aa....aa* failed.

*aa....aa*: Plug-in name

S: Terminates processing.

Action

Determine the cause of the error from the error message output to the execution results log file for environment building that was performed before this message was output, correct the error, and then re-execute.

**KFPX29631-E D**

The value of [*aa....aa*] is not numeric.

In the definition of the detail definition screen, a non-numeric value was specified in a numeric specification input item.

*aa....aa*: Name of the input item with an invalid specification value

S: Displays an error message; waits until the correct value is entered.

Action

Specify a numeric value, and then re-execute the command.

**KFPX29632-E D**

The value of [*aa....aa*] contains an out-of-range error.

In the definition of the detail definition screen, an out-of-range value was specified in

an input item.

*aa...aa*: Name of the input item with an invalid specification value

S: Displays an error message; waits until the correct value is entered.

Action

Specify a value within the range, and then re-execute the command.

**KFPX29633-E D**

An error occurred when the operand information file was being read.

Detail: <*aa...aa*>

Error row: <*bb...bb*>

An error occurred during the reading of the operand information file.

*aa...aa*: Detailed information on the error (one of the following character strings is embedded):

- Operand information is coded before the version.
- Invalid operand information type.
- Invalid operand format.
- Invalid operand abbreviation criteria.
- Invalid operand disclosure criteria.
- Invalid target server type.
- Invalid specifiable definition type.
- Invalid value type.
- Invalid minimum value.
- Invalid maximum value.
- Invalid OS type.
- Invalid multiple operand specification criteria.
- Invalid option flag abbreviation criteria.
- Invalid option flag disclosure criteria.
- Invalid flag argument criteria.
- Operand information in COM0 format not found.

*bb...bb*: Error row

S: Processing continues, but the error operand cannot be edited on the detail definition screen.

**Action**

Investigate the cause of the error based on error detail information, and after taking corrective action, re-execute the command.

**KFPX29634-E D**

Operand information file (*aa....aa*) not found.

Operand information file *aa....aa* not found.

*aa....aa*: Name of the operand information file

S: Processing continues, but the operand in error cannot be edited on the detail definition screen.

**Action**

Set the operand information file indicated in *aa....aa*, and then re-execute the command.

**KFPX29635-E D**

Operand information file (*aa....aa*) is empty.

Invalid contents of operand information file *aa....aa*.

*aa....aa*: Name of the operand information file

S: Processing continues, but the operand in error cannot be edited on the detail definition screen.

**Action**

Review the operand information file *aa....aa*, and then re-execute the command.

**KFPX29636-E D**

Unable to open the operand information file (*aa....aa*)

Operand information file *aa....aa* cannot be opened.

*aa....aa*: Name of the operand information file

S: Processing continues, but the operand in error cannot be edited on the detail definition screen.

**Action**

Check the status of the operand information file *aa....aa*, make sure that it is in the open-enabled status, and then re-execute the command.

**KFPX29637-E D**

The value of [*aa....aa*] has a character count limit error.

The number of characters specified in an input item in the detail definition screen exceeded the limit.

*aa....aa*: Name of the input item with the invalid specification value

## 2. Messages

S: Displays an error message; waits until the correct value is entered.

### Action

Reduce the number of characters to within the limit, and then re-execute the command.

#### **KFPX29638-E D**

Attempt to read the check results on the system definition failed.

Detail: <aa....aa>

The file storing the results of system definition checks could not be read.

*aa....aa*: Error details and the name of the affected file

S: Processing continues; the results of system definition checks are not displayed.

### Action

Based on the error detail information indicated in *aa....aa*, resolve the error, and then re-execute the command.

#### **KFPX29639-E D**

No value was input.

A value is not specified in the required input item in the definition of the detail definition screen.

S: Displays an error message; waits until the correct value is entered.

### Action

Specify a value, and then re-execute the command.

#### **KFPX29640-E D**

Less than the minimum required number of characters.

The value specified on the detail definition screen is less than the minimum required number of characters.

S: Displays an error message; waits until the correct value is entered.

### Action

Change the specified value to greater than or equal to the minimum required number of characters, and then re-execute the command.

#### **KFPX29641-E D**

More than the maximum allowable number of characters.

The value specified on the detail definition screen is more than the maximum allowable number of characters.

S: Displays an error message; waits until the correct value is entered.

## Action

Change the value to less than or equal to the maximum allowable number of characters, and then re-execute the command.

**KFPX29642-E D**

Non-numeric value.

A non-numeric value was specified in the input item in the definition of the detail definition screen.

S: Displays an error message; waits until the correct value is entered.

## Action

Specify a numeric value, and then re-execute the command.

**KFPX29643-E D**

Less than the minimum required value.

The value specified in the definition of the detail definition screen is less than the minimum required value.

S: Displays an error message; waits until the correct value is entered.

## Action

Specify a value greater than or equal to the minimum required value, and then re-execute the command.

**KFPX29644-E D**

Greater than the maximum allowable value.

The value specified in the definition of the detail definition screen is greater than the maximum allowable value.

S: Displays an error message; waits until the correct value is entered.

## Action:

Specify a value less than or equal to the maximum allowable value, and then re-execute the command.

**KFPX29645-E D**

The operand [aa....aa] cannot be deleted.

An attempt was made to delete an operand that cannot be omitted.

aa....aa: Operand name

S: Continues processing.

**KFPX29646-E D**

The operand to be added is not selected.

The operand to be added in the **Select an add operand** dialog box is not selected.

## 2. Messages

S: Displays an error message; waits until the correct operand is selected.

Action

Select the operand to be added.

### **KFPX29647-E D**

The option flag to be added is not selected.

The option flag to be added in the **Select an add option flag** dialog box is not selected.

S: Displays an error message; waits until the correct option flag is selected.

Action

Select the option flag to be added.

### **KFPX29648-E D**

The specified item [aa....aa] already exists.

An attempt was made to add item aa....aa, which already exists.

aa....aa: The parameter or name that was to be added

S: Displays an error message; waits until the correct value is entered.

### **KFPX29649-E D**

The HiRDB file to which an RDAREA is to be allocated does not exist.

A HiRDB file name was not specified in the **Specifying a HiRDB file to which an RDAREA is to be allocated** dialog box.

S: Displays an error message; waits until the correct value is entered.

Action

Specify a HiRDB file, and then re-execute the command.

### **KFPX29650-E D**

The name of the System A status file is the same as the name of the System B status file.

The same name was specified for the System A status file and the System B status file.

S: Displays an error message; waits until the correct value is entered.

Action

Eliminate any name duplication between the System A and System B system status files, and then re-execute the command.

### **KFPX29651-E D**

The name of the System A system log file is the same as the name of the System B system log file.

The same name was specified for both the System A and System B system log files.

S: Displays an error message; waits until the correct value is entered.

Action

Eliminate any name duplication between the System A and System B system log files, and then re-execute the command.

**KFPX29652-E D**

The `-o` option can be specified only for one buffer.

In the **Edit global buffer** dialog box, an attempt was made to allocate the `-o` option to more than one global buffer.

S: Displays an error message, and cancels the allocation operation.

Action

Review the `-o` option to be specified for global buffers, and then re-execute the command.

**KFPX29653-E D**

No value specified in `[aa....aa]`

No value is specified in the `aa....aa` input item in the detail definition screen for the simple setup tool.

`aa....aa`: Name of the input area with an invalid specification value

S: Displays an error message; waits until the correct value is entered.

Action

Specify a value, and then re-execute the command.

**KFPX29654-E D**

A `hosts` file read error occurred.

Detail: `<aa....aa>`

The error indicated by `aa....aa` occurred during the reading of the `hosts` file.

`aa....aa`: Detailed information on the `hosts` file read error

S: Continues processing.

Action

Based on the detailed error information indicated in `aa....aa`, resolve the error, and then re-execute the command.

**KFPX29655-E D**

Select a host name.

A host name is not selected in the **Select a host name from the hosts file** dialog box.

S: Displays an error message; waits until the correct host name is selected.

Action

Select a host name, and then re-execute the command.

**KFPX29656-E D**

Incomplete specification of [aa...aa].

The specification of aa...aa is incomplete in the definition of the detail definition screen for the simple setup tool.

aa...aa: Name of the input item with an incomplete specification value

S: Displays an error message; waits until the correct value is entered.

Action

Specify the correct value, and then re-execute the command.

**KFPX29657-E D**

No RDAREA allocated to global buffer [aa...aa].

No RDAREA is allocated to the global buffer in the **Edit global buffer** dialog box.

aa...aa: Name of the error-generating global buffer.

S: Displays an error message; waits until the command is executed with the correct specification.

Action

Allocate an RDAREA to the global buffer, and then re-execute the command.

**KFPX29658-E D**

No HiRDB file allocated to RDAREA [aa...aa].

In the **Edit RDAREA** dialog box, no HiRDB is allocated to RDAREA aa...aa.

aa...aa: RDAREA name

S: Displays an error message; waits until the correct value is entered.

Action

Allocate a HiRDB file to the RDAREA indicated by aa...aa, and then re-execute the command.

**KFPX29659-E D**

Only one HiRDB setup tool can be started.

An attempt was made to start more than one HiRDB simple setup tool.

S: Continues processing.

Action

The previously started simple setup tool should be closed. Or, the previously started simple setup tool should be used.



**KFPX29660-E D**

The `pdconfchk` command in the current version of HiRDB does not support this setup tool; so definition checks cannot be performed. After the setup process is complete or the definition is updated, run the `pdconfchk` command from the command prompt to check the contents of the definition.

Because the HiRDB version being used is old, the `pdconfchk` command does not support HiRDB's simple setup tool. For this reason, operands cannot be checked. Use the `pdconfchk` command to check the operands after the setup process or the definition updating process is complete.

S: Continues processing.

**Action**

Use the `pdconfchk` command to check the operands after the setup process or the definition updating process is complete. The `pdconfchk` command compatible with the simple setup tool is available in HiRDB 06-02-/B or later.

**KFPX29661-E D**

The `pd_system_id` operand cannot be changed when the definition.

For updating a definition, the `pd_system_id` operand cannot be changed.

S: Continues processing.

**KFPX29662-E D**

In `[aa....aa]`, the value of `[bb....bb]` is not specified.

In a system switchover specification, `bb....bb` for unit `aa....aa` is not specified.

*aa....aa*: Unit name

*bb....bb*: Missing item

S: Displays an error message; waits until the correct value is entered.

**Action**

Specify the input item where the error is indicated, and then re-execute the command.

**KFPX29663-E D**

The value of `[bb....bb]` in `[aa....aa]` is not numeric.

In a system switchover specification, `bb....bb` required for unit `aa....aa` is not specified as a numeric value.

*aa....aa*: Unit name

*bb....bb*: Input item where the error is indicated

S: Displays an error message; waits until the correct value is entered

Action

Specify a numeric value, and then re-execute the command.

**KFPX29664-E D**

The value of *[bb...bb]* in *[aa...aa]* has an out-of-range error.

In a system switchover specification, the value specified in *bb...bb* for unit *aa...aa* is out of range.

*aa...aa*: Unit name

*bb...bb*: Input item where the error is indicated

S: Displays an error message; waits until the correct value is entered.

Action

Specify a value within the range, and then re-execute the command.

**KFPX29665-E D**

The value of *[bb...bb]* in *[aa...aa]* has a character count limit error.

The value of *bb...bb* in unit *aa...aa* has a character count limit error.

*aa...aa*: Unit name

*bb...bb*: Error-indicated input item

S: Displays the error message, and waits for input of the correct value.

Action

Specify a value within the range, and then re-execute the command.

**KFPX29666-E D**

The *-i* option (initializing an area) is not specified. When using the system switchover facility, the *-i* option (initializing an area) must be specified.

The system switchover facility is specified, but the *-i* option (initializing an area) is not specified in the **Edit the HiRDB file system area** dialog box.

S: Displays an error message; waits until the correct value is entered.

Action

When using the system switchover facility, specify the *-i* option (initializing an area), and then re-execute the command.

**KFPX29667-E D**

The *-i* option (initializing an area) in *[aa...aa]* is not specified. When using the system switchover facility, the *-i* option (initializing an area) must be specified.

The system switchover facility is specified, but the `-i` option (initializing an area) for the HiRDB file system area `aa....aa` is not specified in the **Edit the HiRDB file system area** dialog box.

`aa....aa`: Name of the HiRDB file system area

S: Displays an error message; waits until the correct value is entered.

Action

When using the system switchover facility, specify the `-i` option (initializing an area), and then re-execute the command.

**KFPX29668-E D**

SVR is specified in the `-k` option (purpose of use) of `[aa....aa]`. When the system switchover facility is used, SVR cannot be specified in the `-k` option (purpose of use).

The system switchover facility is specified, but SVR is specified as the purpose of use for the HiRDB file system area `aa....aa`.

`aa....aa`: Name of the HiRDB file system area

S: Displays an error message; waits until the correct value is entered.

Action

When using the system switchover facility, specify an appropriate purpose of use other than SVR, and then re-execute the command.

**KFPX29669-E D**

No secondary system host name is specified for a unit. When the system switchover facility is used, a secondary system host name must be specified in the setup dialog for the system switchover facility.

The system switchover facility is specified, but no secondary system host name is specified for the unit.

S: Displays an error message; waits until a secondary system host name is entered and the command is re-executed.

Action

For the unit for which no secondary system host name is specified, use the setup dialog for the system switchover facility to specify a secondary system host name, and then re-execute the command.

**KFPX29670-E D**

Acquisition of a folder name failed. Processing has been terminated.

The acquisition of the folder name specified in the Reference a folder dialog box failed.

S: Displays an error message; waits until the correct folder name is specified and the command is re-executed.

Action

Either check the status of the specified folder and put it in a reference-enabled status or specify another folder, and then re-execute the command.

**KFPX29671-E D**

The execution directory is invalid. Processing has been terminated.

The setup tool should be executed in the HiRDB install directory\pdzistup\bin directory.

The execution directory for the simple setup tool is invalid.

S: Terminates processing.

Action

Review the execution directory. Re-execute the command from an appropriate directory. Notice that this error is generated when the system searches for the HiRDB installation directory \bin\pdntcmd.bat from the execution directory for the simple setup tool and if the installation directory is not found.

**KFPX29672-E D**

The installation environment file (Setup.ini) for HiRDB is invalid. Processing has been terminated.

HiRDB may not have been installed correctly. Check the HiRDB installation environment.

The contents of the installation environment file (Setup.ini) for HiRDB are invalid.

S: Terminates processing.

Action

Review the HiRDB installation environment. If the environment is invalid, re-install HiRDB, and then re-execute the command.

**KFPX29673-E D**

The port number is incorrect. Port numbers must be between 5001 and 65535.

A value other than 5001 through 65535 was specified as a port number.

S: Generates an error message; waits until the correct value is specified as a port number and the command is re-executed.

Action

Change the port number specification to within the 5001 through 65535 range, and then re-execute the command.

**KFPX29674-E D**

The specified drive does not have enough space; setup cannot be continued.

[<*aa....aa*>]

The destination drive for the setup process does not have enough free space; the setup processing cannot be continued.

*aa....aa*: Name of the setup destination folder (this is output if the system files and the RDAREA are stored in different folders)

S: Generates an error message; waits until the command is executed by specifying the name of an appropriate folder for the setup process.

**Action**

Specify a folder in a drive that has enough free space as a setup destination, and then re-execute the command.

**KFPX29675-E D**

There are too many backup files for *aa....aa*. Delete some backup files, and then select OK. If the cancel option is entered, the files will be overwritten.

There are too many backup files; a backup file cannot be created.

*aa....aa*: Name of the file to be backed up.

S: Waits for an action in response to the message.

**Action**

When deleting a backup file, delete the file, and then click **OK**. To overwrite a backup file, click **Cancel**.

**KFPX29676-E D**

The port number is already used by another program. <Default: 22200>

Check the following files, and specify an available number:

Host is UNIX

■ `"/etc/services"`

Host is Windows

`"Windows system directory \drivers\etc\services"`

The port number specified in the HiRDB system definition is already being used by another program listed in the `services` file.

S: Generates an error message; waits until an available port number is specified and the command is executed.

**Action**

Check the contents of the `services` file of the setup target host, and ensure that

there are no duplicate port numbers specified in the HiRDB system definition. Also, because other programs do not check for duplication of port numbers that are being used but are not listed in the `services` file, execute the `netstat` command from the setup target host to verify whether the specified port number is in use.

**KFPX29677-E D**

A system error occurred.

- Error code: *aa....aa*
- Error contents: *bb....bb*
- [• API name: *cc....cc*]

A system error has occurred. This error message is output when an error occurs during setup in Windows system process processing or with the Windows API.

*aa....aa*: System error code

*bb....bb*: System error contents

*cc....cc*: Name of the API where the error occurred

S: Terminates processing.

Action

There may be insufficient memory. Increase the memory or delete unnecessary applications, and then re-execute. If this error occurs even when there is no memory shortage, notify the customer engineer. The term *process processing* used in the message refers to the processing of the Win32 API Create Process function. The API name is not always displayed.

**KFPX29678-E D**

File creation failed.

File name: *aa....aa*

Terminates processing.

Creation of the file indicated by *aa....aa* failed.

*aa....aa*: File name

S: Terminates processing.

Action

Check to see if the system is in a condition that permits the creation of the *aa....aa*; resolve the cause of the error, and then re-execute the command.

**KFPX29679-E D**

Setup tool ini file open failure.

File name: *aa....aa*

Terminates processing.

Opening of the ini file indicated by *aa....aa* failed.

*aa....aa*: Name of the ini file that failed to open

S: Terminates processing.

Action

Check to see if the ini file indicated by *aa....aa* exists or it is in a condition in which it can be opened; resolve the cause of the error, and then re-execute the command.

**KFPX29680-E D**

An error occurred in *aa....aa* processing. The contents of the error have been output to the log file `pdi_log.txt`.

Error occurred during *aa....aa* processing.

*aa....aa*: The processing in which the error occurred

S: Terminates processing.

Action

Investigate the contents of the error that are output to the log file `pdi_log.txt`; resolve the cause of the error, and then re-execute the command.

**KFPX29681-E D**

An error occurred during socket initialization. Processing has been terminated.

An error occurred during the initialization of a Windows socket. It is possible that the system is not ready to establish a network connection or the maximum number of processes that can simultaneously use WinSock has been reached.

S: Terminates processing.

Action

Either the system is not ready to establish a network connection or the maximum number of processes that can simultaneously use WinSock has been reached. Re-execute the command after a while.

**KFPX29682-E D**

Creation of a temporary file directory failed.

Directory name: *aa....aa*

Terminates processing.

Creation of temporary file directory *aa....aa* failed.

*aa....aa*: Directory name

S: Terminates processing.

Action

Investigate whether directory *aa....aa* is in a condition in which it can be created;

resolve the cause of the error, and then re-execute the command.

**KFPX29683-E D**

The variable *aa....aa* is specified incorrectly. The variable *aa....aa* must be specified as four alphanumeric characters.

The input item *aa....aa* is specified incorrectly.

*aa....aa*: Input item

S: Displays an error message; waits until the correct value is entered.

Action

Specify the input item with four alphanumeric characters, and then re-execute the command.

**KFPX29684-E D**

An attempt to read the system definition file failed.  
Terminates processing.

- Subject file: *aa....aa*
- Error contents: *bb....bb*

The reading of the system definition file *aa....aa* failed due to the cause indicated by *bb....bb*.

*aa....aa*: System definition file

*bb....bb*: Error contents

S: Continues processing.

Action

Based on the error description indicated in *bb....bb*, resolve the cause of the error, and then re-execute the command.

**KFPX29685-E D**

An error occurred during creation of database information.  
Error contents: *aa....aa*  
Details of the error are output to the log file *pdi\_log.txt*.

An error occurred during database information creation processing.

*aa....aa*: Error contents

- File open failure
- File read failure
- Memory shortage
- Invalid format for definition contents

S: Terminates processing.



**Action**

If the error contents indicated by *aa...aa* and the log file (*pdi\_log.txt*) are output, reference the contents of the log file, resolve the cause of the error, and then re-execute the command.

**KFPX29686-E D**

An error occurred during access to the remote host. Processing has been terminated.

[Details of the error are output to the log file *pdi\_log.txt*.]

An error occurred during access to the remote host for the following possible reasons:

- Unable to open the target file.
- Target file inaccessible.
- Either the remote host has not started or does not exist.
- The port number for the *Rsh Port Name* (the name set by the *pdntenv* command) code in the *service* file for the remote host does not match that of the local host.
- The user starting up the HiRDB service for the remote host does not match that of the local host.
- The HiRDB service for the remote host does not start.
- The logon user/password (HiRDB administrator) for the remote host does not match that of the local host.

S: Terminates processing.

**Action**

Based on the contents that are output to the log file (*pdi\_log.txt*) and conceivable reasons, resolve the cause of the error, and then re-execute the command.

**KFPX29687-E D**

An error occurred during the generation of an internal object. Processing has been terminated.

It is possible that there is a memory shortage.

An error occurred during the generation of an internal object for the simple setup tool. A possible cause is a memory shortage.

S: Terminates processing.

**Action**

Either provide additional memory or close any applications that are not needed, and then re-execute the command.

**KFPX29688-E D**

An error occurred during file generation (directory).

Cause: *aa....aa*

Name of the host on which the file was being created: *bb...bb*

File name: *cc....cc*

An error occurred during creation of a file (directory) for the following possible reasons:

- Target file *cc....cc* cannot be opened in the overwrite mode.
- Target file *cc....cc* is inaccessible.
- Either remote host *bb...bb* has not started or does not exist.
- The port number for Rsh Port Name (the name set by the `pdntenv` command) code in the `service` file for the remote host *bb...bb* does not match that of the local host.
- The user starting up the HiRDB service for remote host *bb...bb* does not match that of the local host.
- The HiRDB service for the remote host *bb...bb* has not been started.
- The logon user/password (HiRDB administrator) for the remote host *bb...bb* does not match that of the local host.

*aa....aa*: Cause of error

- Copying failed
- Backup failed
- File open failed
- Access to remote host file failed
- Directory creation failed

*bb...bb*: Name of the host in which a file (directory) was to be created

*cc....cc*: File (directory) name

S: Terminates processing.

Action

Investigate the cause of the error indicated by *aa....aa*, resolve the cause of the error, and then re-execute the command.

**KFPX29689-E D**

File open failure

File name: *aa....aa*

Opening the file *aa....aa* failed.

*aa....aa*: File name

S: Terminates processing.

Action

Investigate whether file *aa....aa* is in a condition in which it can be opened, resolve the cause of the error, and then re-execute the command.

**KFPX29690-E D**

A memory shortage occurred. KFPX29687-

A memory shortage occurred.

S: Terminates processing.

Action

Either provide additional memory or close any applications that are not needed, and then re-execute the command.

**KFPX29691-E R**

An error occurred during HiRDB startup processing. Refer to the messages output to syslogfile (in Windows, the event log), and take action as indicated in the messages.

An error occurred during HiRDB starting processing. Refer to the messages output to the event log (in UNIX, syslogfile), and take appropriate action.

S: Terminates processing.

Action

Refer to the messages output to the event log (in UNIX, syslogfile), eliminate the cause of the error, and re-execute.

**KFPX29692-Q D**

Operand [*aa....aa*] will be deleted. OK to proceed?

This is a deletion confirmation message on operand *aa....aa*.

*aa....aa*: Operand name

S: Take action in response to the message.

**KFPX29693-Q D**

Option flag [*bb....bb*] for operand [*aa....aa*] will be deleted. OK to proceed?

This is an option flag *bb....bb* deletion confirmation message on operand *aa....aa*.

*aa....aa*: Operand name

*bb....bb*: Option flag

S: Take action in response to the message.

**KFPX29694-Q D**

In operand [*aa....aa*] only the option flag [*bb....bb*] exists. The operand itself will be deleted. OK to proceed?

This is an option flag *bb....bb* deletion confirmation message on operand *aa....aa*. Because the operand *aa....aa* only contains the option flag *bb....bb*, deleting the option flag also deletes the operand.

*aa....aa*: Operand name

*bb....bb*: Option flag

S: Take action in response to the message.

**KFPX29695-Q D**

In operand [*aa....aa*], option flag [*bb....bb*] cannot be omitted. Deleting the option flag will result in the deletion of the operand itself. OK to proceed?

This is an option flag *bb....bb* deletion confirmation message on operand *aa....aa*. Because the option flag *bb....bb* cannot be omitted, deleting the option flag also deletes the operand.

*aa....aa*: Operand name

*bb....bb*: Option flag

S: Take action in response to the message.

**KFPX29696-Q D**

Item *aa....aa* will be deleted. OK to proceed?

This is an *aa....aa* deletion confirmation message.

*aa....aa*: Item to be deleted

S: Take action in response to the message.

**KFPX29697-Q D**

Checks on the system definition are not yet complete; the setup process cannot be started. OK to terminate the detailed definition?

This is a confirmation message asking whether the detail definition screen can be closed when checks on the system definition are not yet complete. The setup process cannot be executed unless checks on the system definition are complete.

S: Take action in response to the message.

**KFPX29698-Q D**

The contents of the system definition have been modified, but definition update processing has not yet been executed. Close the detailed definition?

This is a confirmation message asking whether the detail definition screen can be

closed when definition updating processing has not yet been executed.

S: Take action in response to the message.

**KFPX29699-Q D**

HiRDB is starting. Stop HiRDB and continue with setup?

Note: If the HiRDB environment has already been set up, executing the setup process will overwrite the current environment.

This is a confirmation message asking whether the processing of the simple setup tool is to be continued by closing HiRDB, in view of the fact that the simple setup tool was started when HiRDB was still running.

S: Take action in response to the message.

**KFPX29700-Q D**

The specified setup directory is not found. [<aa....aa>]  
Create a directory?

This is a confirmation message asking whether a directory is to be created when the directory created at the setup destination is not found.

aa....aa: Setup destination directory name (indicated for a custom screen)

S: Take action in response to the message.

**KFPX29701-Q D**

All currently set information will be reset if control is returned to the startup screen. OK to proceed?

This is a confirmation message asking whether it is OK to proceed in view of the fact that if control is returned from the custom screen to the startup screen, all information defined on the custom screen is reset to the default status.

S: Take action in response to the message.

**KFPX29702-Q D**

The system definition file already exists in the setup destination HiRDB environment. Create a backup for the existing file?

This is a confirmation message asking whether a backup for the existing system definition file is to be created during the setup process.

S: Take action in response to the message.

**KFPX29703-Q D**

A HiRDB environment already exists. Continue with the setup process?

Note: If the HiRDB environment has already been set up, executing the setup process will overwrite the current environment.

This is a confirmation message asking whether the setup process is to be continued on

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the existing HiRDB environment.

S: Take action in response to the message.

### **KFPX29704-I D**

Starting HiRDB setup processing.

This is a setup startup message.

S: Continues processing.

### **KFPX29705-I D**

The setup process has been cancelled.

This is a setup cancellation message.

S: Continues processing.

### **KFPX29706-I D**

In the current version of HiRDB, system definition files cannot be distributed to standby systems. Such files must be distributed manually.

Because the current version of HiRDB is old, system definition files cannot be distributed to the standby systems. Version 06-02/E or later should be used. If a version upgrade is not available, such files must be distributed manually.

S: Continues processing.

Action

Manually distribute the system definition files to the secondary system host.

### **KFPX29707-E D**

Specify a setup directory.

An attempt was made to execute setup without specifying a setup directory.

S: Displays an error message; waits until the command is executed by specifying a setup directory.

Action

Execute the command by specifying a setup directory.

### **KFPX29708-E D**

A non-alphanumeric character is specified in a logical file name.

Alphanumeric characters are not specified as a logical file name in the detail definition screen of the simple setup tool.

S: Displays an error message; waits until the command is executed with the correct value.

Action

Execute the command by specifying the correct value.

**KFPX29709-I D**

Item [*aa....aa*] has reached the maximum number that can be set in HiRDB.

In the detail definition screen of the simple setup tool, the value of the input item *aa....aa* reached the maximum number that can be set in HiRDB.

*aa....aa*: Input item name

S: Continues processing (by preventing the applicable value from being increased).

**KFPX29710-I D**

Item [*aa....aa*] has reached the minimum number that can be set in HiRDB.

In the detail definition screen of the simple setup tool, the value of the input item *aa....aa* reached the minimum number that can be set in HiRDB.

*aa....aa*: Input item name

S: Continues processing (by preventing the applicable value from being reduced).

**KFPX29711-E D**

A value other than SYS or SVR is specified as the type of the HiRDB file system area.

In the detail definition screen of the simple setup tool, a value other than SYS or SVR is specified as the purpose of the HiRDB file system area.

S: Displays an error message; waits until the command is executed with the correct value.

Action

Specify either SYS or SVR depending on the purpose of use, and then execute the command.

**KFPX29712-E D**

In [*aa....aa*], a non-alphanumeric character is specified.

In the detail definition screen of the simple setup tool, a non-alphanumeric character is specified in the input item *aa....aa*.

*aa....aa*: Input item name

S: Displays an error message; waits until the command is executed with the correct value.

Action

Execute the command by specifying the correct value.

**KFPX29713-E D**

The server [aa...aa] contains a mix of non-redundant and redundant file groups.

In the detail definition screen of the simple setup tool, the server aa...aa contains a non-redundant file group and redundant file groups on a mixed basis.

aa...aa: Server name

S: Displays an error message; waits until the command is executed with the correct value.

Action

Specify in a manner that eliminates the mixing of non-redundant and redundant file groups, and then execute the command.

**KFPX29714-W D**

HiRDB file system area for System A may be on the same disk as HiRDB file system area for System B.

It is possible that in the detail definition screen of the simple setup tool, the system A HiRDB file system area and the system B HiRDB file system area are set up on the same disk. If a disk failure occurs, setting up these areas on the same disk defeats the purpose of file redundancy. (Determine whether the file system areas are set up on the same disk as follows: In Windows, refer to the drive name of the specified HiRDB file system area path name; in UNIX, refer to the initial directory name of the specified HiRDB file system area path name).

S: Continues processing.

Action

Check to see whether the system A HiRDB file system area and the system B HiRDB file system area are set up on the same disk; if necessary, set them up so that they occupy separate disks.

**KFPX29715-E D**

Login to the setup target host failed.

Login to the setup target host failed.

S: Displays an error message; waits until the command is re-executed.

Action

Resolve the possible causes, and then re-execute the command.

Possible cause	Action
The password of the user logging in to the setup target host does not match the password of the HiRDB administrator.	Log in again using the same password as the HiRDB administrator.



Possible cause	Action
The setup target host is not activated, or it does not exist.	Specify a setup target host that is activated, and that exists, and log in again.
If the setup target host is Windows, the HiRDB service is not activated.	Activate the HiRDB service, and then log in again. For details about how to check the status of the HiRDB service, refer to the OS documentation.
If the setup target host is Windows, the version of HiRDB that sets the environment is not version 06-02 or later.	Upgrade to version 06-02 or later to use the simple setup tools to set the environment.
If the setup target host is UNIX, the version of HiRDB that sets the environment is not version 07-02 or later.	Upgrade to version 07-02 or later to use the simple setup tools to set the environment.
The user logging on to the setup target host does not exist.	Log in again using an account that is set up for the setup target host.
If the setup target host is UNIX, the HiRDB administrator does not have privilege to execute the remote shell service.	Enable the HiRDB administrator account to execute the remote shell service, and then log in again.
If login failed when executing a definition update, the name, user name, and password of the system manager unit was not specified in the Select Host Name from hosts File dialog box.	In the Select Host Name from hosts File dialog box, specify the name, user name, and password of the system manager unit.

**KFPX29716-E D**

Select the host to be set up.

The setup process was started when the input item in which a host name is specified is still empty.

S: Displays an error message; waits until the command is executed with the correct value.

**Action**

Specify a host name, and then re-execute the command.

Specify a UNIX host as a remote host, and then re-execute the command.

**KFPX29718-E D**

For host name *[aa....aa]*, capacity of disk *[bb...bb]* is short by *[cc....cc]* MB.

For host name *aa....aa*, the disk capacity of *bb...bb* is insufficient by the disk volume indicated in *cc....cc*.

*aa....aa*: Host name

*bb...bb*: In Windows, the drive name; in UNIX, the file system name

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*cc...cc*: Amount of disk capacity shortage

S: Displays an error message; waits until the command is re-executed.

Action

Take one of the following actions:

- Delete any unneeded files from the disk to increase the amount of available space.
- Reduce the size of the file to be created. Alternatively, create the file on a separate disk.

### **KFPX29720-E D**

The name of the system A sync-point dump file is identical to that of the system B sync-point dump file.

The same name was specified for the system A sync-point dump file and the system B sync-point dump file.

S: Displays an error message; waits until the command is executed with the correct value.

Action

Specify files so that the system A sync-point dump file name and the system B sync-point dump file are not duplicated, and then re-execute the command.

### **KFPX29721-E D**

Setup could not continue because the HiRDB environment does not exist in the setup target host.

There is no HiRDB environment in the specified target host.

S: Displays an error message; waits until the command is executed with the correct value.

Action

Specify the correct host name and operation directory, and then re-execute the command.

### **KFPX29722-E D**

Specify the working directory.

The HiRDB directory was not specified.

S: Displays an error message, and waits for re-execution.

Action: Specify the HiRDB directory, and re-execute.

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## 2.19 KFPY messages

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**KFPY01001-E L**

Defined PLUGIN name *aa....aa* not matched between units, unit=*bb....bb*

The plug-in name *aa....aa* specified in the `pdplugin` system common definition operand for unit *bb....bb* does not match the name specified in the `pdplugin` system common definition operand for the unit that contains the dictionary server.

*aa....aa*: Plug-in name

*bb....bb*: Identifier of the unit whose `pdplugin` operand did not match that of the unit containing the dictionary server

S: Terminates abnormally.

**Action**

Correct the system common definitions for the unit containing the dictionary server and the unit whose unit ID is *bb....bb* so that the names specified in the `pdplugin` operands match.

If the KFPY01002-W message has been issued, take an appropriate action according to that message.

**KFPY01002-W L**

PLUGIN *aa....aa* not registered

Plug-in *aa....aa* has not been registered.

*aa....aa*: Plug-in name

S: Resumes processing.

**Action**

Take one of the following actions:

- If an invalid plug-in name was specified in the `pdplugin` system common definition operand, specify the correct plug-in name in this operand. To make plug-in *aa....aa* available, restart HiRDB.
- If plug-in *aa....aa* has not been registered using the `pdplgrgst` command, start HiRDB with the `pdplugin` operand in *aa....aa* omitted from the system common definition, and then register *aa....aa* using the `pdplgrgst` command. To use *aa....aa*, terminate HiRDB, code the *aa....aa* `pdplugin` operand in the system common definition, and then start HiRDB.

**KFPY01003-E L**

System command error occurred, cmd=*aa....aa*, code=*bb....bb*,  
inf="*cc....cc*"

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An internal command error occurred in the system.

*aa....aa*: Command name

*bb....bb*: Shell termination code

*cc....cc*: Command error output information

S: Terminates abnormally.

Action

Take one of the following actions:

- If *aa....aa* is `rCP`, the remote shell execution environment is set incorrectly or has not been set up.

Referring to the description of the remote shell execution environment in the *HiRDB Version 8 Installation and Design Guide*, set up the remote shell execution environment, and then start HiRDB.

- If *aa....aa* is not `rCP`, see the applicable OS manual to resolve the cause of the error based on the error output information "*cc....cc*" and shell termination code *bb....bb*, and then start HiRDB.

### **KFPY01004-E L**

Copy error, code=*aa....aa*, unit=*bb....bb*

An error occurred while copying the plug-in internal information from the dictionary server to the unit with unit identifier *bb....bb*.

*aa....aa*: Return code of the function resulting in the error

*bb....bb*: Unit ID of the copy destination

S: Terminates abnormally.

Action

If an OS message or OS command message has been issued before this message, see the applicable OS manual and take an appropriate action.

If you are unable to determine the cause of the problem, contact a customer engineer.

### **KFPY01005-E L**

System error, func=*aa....aa*, code=*bb....bb*, call func=*cc....cc*, line=*dd....dd*

An internal processing error occurred.

*aa....aa*: Name of the function where the error occurred

*bb....bb*: Error number

*cc....cc*: Name of the function that called the erroneous function

*dd...dd*: Line number

S: Terminates abnormally.

Action

Save the following files and contact a customer engineer; if HiRDB is down, it should be restarted:

- Files under %PDDIR%\spool and %PDDIR%\tmp
- Event log (in UNIX, syslogfile)

**KFPY01006-I L**

PLUGIN available, unit=*aa....aa*, PLUGIN name=*bb...bb*

Plug-in *bb...bb* is available on unit *aa....aa*.

*aa....aa*: Unit ID

*bb...bb*: Plug-in name

S: Resumes processing.

**KFPY01007-E L**

Insufficient memory, memory kind="*aa....aa*", size=*bb...bb*

A memory shortage occurred.

*aa....aa*: Type of memory:

SHARE: Shared memory

PROCESS: Process memory

*bb...bb*: Size of memory to be allocated

S: Terminates abnormally.

Action

Take an appropriate action according to what is displayed in "*aa....aa*":

If SHARE is displayed in "*aa....aa*":

Save the following files, contact a customer engineer, and then start HiRDB:

- Files under %PDDIR%\spool and %PDDIR%\tmp
- Event log (in UNIX, syslogfile)

If PROCESS is displayed in "*aa....aa*":

Wait for the termination of the concurrently executing process, and then re-execute the command. If the error recurs, save the following files and contact a customer engineer:

## 2. Messages

- Files under %PDDIR%\spool and %PDDIR%\tmp
- Event log (in UNIX, syslogfile)

### **KFPY01008-E L**

PLUGIN error, PLUGIN name=*aa...aa*, inf1=*bb...bb*, inf2=*cc...cc*

Plug-in *aa...aa* detected an error.

*aa...aa*: Plug-in name

*bb...bb*: Maintenance information 1

*cc...cc*: Maintenance information 2

S: If it is possible to resume processing, cancels the processing and rolls back. If it is impossible to resume processing, terminates abnormally.

#### Action

Check the message that was issued before this message. If there is an error, take an appropriate action according to the corresponding message. If no message was output, save the following files and contact a customer engineer:

- Files under %PDDIR%\spool, %PDDIR%\tmp, and %PDDIR%\plugin
- pdsys under %PDDIR%\conf
- Event log (in UNIX, syslogfile)

### **KFPY01010-E L**

Failed to load PLUGIN, PLUGIN name=*aa...aa*, reason="*bb...bb*", unit=*cc...cc*

A plug-in load operation failed.

*aa...aa*: Plug-in name

*bb...bb*: Reason code:

NO LIBRARY

NO PERMISSION

NO SPACE

BROKEN

*cc...cc*: Unit identifier

S: Terminates abnormally.

#### Action

Take one of the following actions:

If reason code = NO LIBRARY:

- In UNIX:

Plug-in *aa....aa* was not found. Check `$PDDIR/plugin/lib` for the library file for plug-in *aa....aa*. If there is no such library file, use the `pdplgset` command to set up the plug-in, and restart HiRDB.

- In Windows:

Plug-in *aa....aa* was not found. Check `%PDDIR%\plugin\lib` for the library file for plug-in *aa....aa*. If there is no such library file, install the plug-in, and restart HiRDB.

If reason code = NO PERMISSION:

The user is not authorized to access the library for plug-in *aa....aa*.

In UNIX, use the `pdplgset -d` command to uninstall plug-in *aa....aa* while HiRDB is inactive, and then re-install it. In the case of Windows, uninstall the plug-in while HiRDB is inactive, and then reinstall it.

If this action does not solve the problem, save the following files and contact a customer engineer:

- Files under `%PDDIR%\spool`, `%PDDIR%\tmp`, and `%PDDIR%\plugin`
- Event log (in UNIX, syslogfile)

If reason code = NO SPACE:

There is not enough process address space to load plug-in *aa....aa*. Reduce the number of plug-ins that are executed concurrently.

If reason code = BROKEN:

Plug-in *aa....aa* is damaged.

In UNIX, use the `pdplgset -d` command to uninstall plug-in *aa....aa* while HiRDB is inactive, and then re-install it. In the case of Windows, uninstall the plug-in while HiRDB is inactive, and then reinstall it.

If this action does not solve the problem, reinstall plug-in *aa....aa* and then implement this action again.

**KFPY01011-E L**

Not found function in PLUGIN, PLUGIN name=*aa....aa*, function=*bb...bb*, unit=*cc....cc*

Function *bb...bb* was not found in plug-in *aa....aa* on unit *cc....cc*.

*aa....aa*: Plug-in name

*bb...bb*: Plug-in function

*cc....cc*: Unit identifier

S: Terminates abnormally.

Action

Save the following files and contact a customer engineer:

- Files under %PDDIR%\spool, %PDDIR%\tmp, and %PDDIR%\plugin
- pdsys under %PDDIR%\conf
- Event log (in UNIX, syslogfile)

**KFPY01012-E L**

PLUGIN not available, unit=*aa....aa*, PLUGIN name=*bb....bb*

Plug-in *bb....bb* cannot be used on unit *aa....aa*.

*aa....aa*: Unit ID

*bb....bb*: Plug-in name

S: Processing continues without a plug-in usage declaration, or terminates abnormally.

Action

If the KFPY01002-W message was output:

- The specified plug-in name *bb....bb* is invalid. Specify the correct plug-in name in the `pdplugin` operand of the system common definition, and then restart HiRDB.
- Plug-in *bb....bb* is not registered using the `pdplgrgst` command. Delete the `pdplugin` operand associated with system common definition *bb....bb*, and start HiRDB. Register *bb....bb* using the `pdplgrgst` command. Terminate HiRDB, and then restart it.

If the KFPY01002-W message was not output:

- The `pdplugin` system common definition operands of these units do not match. Correct the `pdplugin` operands so that they match.

**KFPY01013-E L**

Failed to execute rollback for PLUGIN, PLUGIN name=*aa....aa*, PLUGIN ID=*bb....bb*, unit=*cc....cc*, inf=*dd....dd*

Rollback failed in the RDAREA that was updated by plug-in *aa....aa*.

*aa....aa*: Plug-in name

If an attempt was made to roll back a plug-in whose utilization has not been declared, \*\*\* is displayed.

*bb....bb*: Plug-in ID

*cc....cc*: Unit ID



*dd...dd*: Maintenance information (RDAREA ID)

S: Shuts down the RDAREA whose rollback was attempted by the plug-in, and resumes processing.

P: Shut down the RDAREA whose rollback was attempted by the plug-in, and resume processing.

Action

See the KFPH00306-E message issued after this message, and restore the RDAREA from shutdown status. If another KFPYxxxxx-E message is displayed, take an appropriate action according to the message (xxxxx: 5-digit message number).

**KFPY01015-W L**

PLUGIN not available due to held dictionary RDAREA

A plug-in is not available because the dictionary RDAREA is shut down.

S: Continues with HiRDB startup processing while the plug-in is not available.

Action

See the error handling procedures in the *HiRDB Version 8 System Operation Guide* to restore the dictionary RDAREA.

**KFPY01016-E L**

Unable to call PLUGIN, PLUGIN ID=*aa...aa*, unit=*bb...bb*, reason code="*cc...cc*"

The system was unable to call a plug-in with plug-in ID *aa...aa* due to reason "*cc...cc*".

*aa...aa*: Plug-in ID

*bb...bb*: Unit ID

*cc...cc*: Reason code:

UNAVAILABLE: The plug-in with plug-in ID *aa...aa* is not available.

UNDEFINED: The `pdplugin` operand is undefined for the plug-in with ID *aa...aa*. Or, an error occurred during plug-in initialization processing.

S: If the database recovery utility is being executed, cancels the execution. During a rerun, shuts down the RDAREA to be restored and resumes processing.

Action

If reason code = UNAVAILABLE:

Take an appropriate action according to the KFPYnnnnn message (nnnnn: 5-digit message number) that was issued before this message.

If reason code = UNDEFINED:

Terminate HiRDB, code a plug-in utilization declaration (`pdplugin` operand) with a plug-in ID of *aa....aa* in the system common definition, and then start HiRDB.

In UNIX, if the plug-in with the plug-in ID *aa....aa* is not set up, use `pdplgset` to set up the plug-in. For Windows, if the plug-in with plug-in ID *aa....aa* is not installed, install it.

Otherwise, take an appropriate action according to the `KFPYnnnnn` message (*nnnnn*: 5-digit message number) that was issued before this message.

**KFPY01017-E L**

PLUGIN *aa....aa* not setup, unit=*bb...bb*

Plug-in *aa....aa* has not been set up. Or, the invalid plug-in name *aa....aa* was specified in the `pdplugin` system common definition operand.

*aa....aa*: Plug-in name

*bb...bb*: Unit ID

S: Resumes processing while plug-in *aa....aa* is not available.

Action

Take one of the following actions:

- In UNIX, if plug-in *aa....aa* is not set up, stop HiRDB, use `pdplgset` to set up plug-in *aa....aa*, and then restart HiRDB.
- For Windows, if plug-in *aa....aa* is not installed, terminate HiRDB, install the plug-in, and then restart HiRDB.
- If an incorrect plug-in name *aa....aa* is specified in the `pdplugin` operand of the system common definition, terminate HiRDB, specify the correct plug-in name in the `pdplugin` operand of the system common definition, and then restart HiRDB.

**KFPY01018-E L**

PIC file broken, PLUGIN name=*aa....aa*, unit=*bb...bb*, inf=*cc....cc*

The PIC file for plug-in *aa....aa* is damaged.

*aa....aa*: Plug-in name

*bb...bb*: Unit ID

*cc....cc*: Maintenance information (reason code):

1. Architecture does not match.
2. Data is invalid.

## 3. Data is missing.

S: Resumes processing while plug-in *aa....aa* is not available.

## Action

## In UNIX:

Terminate HiRDB, uninstall plug-in *aa....aa* with `pdplgset -d`, set it up, and then start HiRDB.

If the setup is deleted from the plug-in, all files are deleted from `$PDDIR/plugin/aa....aa`. Therefore, save any files that are needed from this directory before deleting the setup from the plug-in.

## In Windows:

Stop HiRDB, install the plug-in, and restart HiRDB.

In this case, all files in `%PDDIR%\plugin\aa....aa` will be deleted. Therefore, if there are any required files, they must be saved prior to this procedure.

**KFPY01019-E L**

Failed to read PIC file, PLUGIN name=*aa....aa*, unit=*bb....bb*,  
func=*cc....cc*, code=*dd....dd*

A read error occurred on the PIC file for plug-in *aa....aa*.

*aa....aa*: Plug-in name

*bb....bb*: Unit ID

*cc....cc*: Name of function where the error occurred

*dd....dd*: Function's error code

S: Resumes processing while plug-in *aa....aa* is not available.

## Action

See `errno.h` and the applicable OS manual based on the displayed error code *dd....dd* and take an appropriate action.

After taking corrective action, to use the plug-in, terminate HiRDB, and then restart HiRDB.

**KFPY01020-E L**

No PLUGIN available, unit=*aa....aa*

None of the plug-ins are available on unit *aa....aa*.

*aa....aa*: Unit ID

S: Resumes processing while no plug-in is available on unit *aa....aa*.

Action

Take an appropriate action according to the KFPY*nnnnn* message (*nnnnn*: 5-digit message number) that was issued before this message.

**KFPY01021-E L**

Too long path name, unit=*aa....aa*, file name=*bb....bb*

The path is too long for file *bb....bb*.

*aa....aa*: Unit ID

*bb....bb*: File name

S: Resumes processing.

Action

Create the HiRDB directory so that the length of file *bb....bb*'s absolute path does not exceed the maximum system value.

**KFPY01022-E L**

*aa....aa*

This message displays information about a system call error. If the OS system log feature does not support the Japanese character code, messages may not be output to the system log correctly. If this happens, see HiRDB's message log.

*aa....aa*: Error information

S: Resumes processing.

**KFPY01023-E L**

System call error, func=*aa....aa*, PLUGIN=*bb....bb*

A system call error occurred.

*aa....aa*: Name of the function where the error occurred

*bb....bb*: Plug-in name

S: Resumes processing.

Action

Resolve the cause of the error based on the contents of the KFPY01022-I message that was output before this message, terminate HiRDB, and then restart it.

**KFPY01024-E L**

PLUGIN *aa....aa* not defined in system definition file,  
operand=*bb....bb*, server=*cc....cc*

Plug-in *aa....aa* specified in operand *bb....bb* in the server definition for server *cc....cc* is not defined in the system common definition.

*aa....aa*: Plug-in name

*bb...bb*: Operand name

*cc...cc*: Server name

S: Terminates processing.

Action

Ensure that plug-in *aa...aa* specified by operand *bb...bb* in the server definition of server *cc...cc* is specified in the `pdplugin` operand in the system common definition.

**KFPY01025-E L**

Duplicate *aa...aa* operand for PLUGIN *bb...bb* in *cc...cc* server definition file

Operand *aa...aa*, which specifies plug-in *bb...bb* in the server definition of server *cc...cc*, is duplicated.

*aa...aa*: Operand name

*bb...bb*: Plug-in name

*cc...cc*: Server name

S: Terminates processing.

Action

Check the server definition of server *cc...cc* and correct the specification of plug-in *bb...bb* specified in operand *aa...aa*.

**KFPY01026-E L**

Error found in system definition, file=*aa...aa*, line=*bb...bb*

An error was detected in the system definition.

*aa...aa*: Name of the system definition file

*bb...bb*: Line number

S: Terminates abnormally.

Action

Correct system definition file *aa...aa* and re-execute.

**KFPY01027-E L**

PLUGIN library *aa...aa* incompatible load model type with HiRDB

The load type of plug-in library *aa...aa* (in UNIX, POSIX library or non-POSIX library) does not match the load type of HiRDB.

*aa...aa*: Plug-in name

S: Continues processing without a plug-in usage declaration.

Action

Reregister a plug-in that matches the HiRDB load type.

**KFPY01028-E L**

Incompatible PLUGIN library format with HiRDB, PLUGIN data model=*aa*, HiRDB data model=*bb*

The format of the plug-in library does not match the HiRDB format.

*aa*: Data model of the plug-in

*bb*: Data model of the HiRDB system

S: Continues processing without a plug-in usage declaration.

Action

When *aa* is 32 and *bb* is 64, set the plug-in to the 64-bit mode. When *aa* is 64 and *bb* is 32, either set HiRDB to the 64-bit mode or the plug-in to the 32-bit mode. When migrating to a 64-bit mode HiRDB system, you cannot return the system to a 32-bit mode HiRDB.

**KFPY01200-I L+ S**

PLUGIN setup start, func="*aa...aa*", PLUGIN name=*bb...bb*

Plug-in setup processing has started.

*aa...aa*: Function name:

add: Plug-in setup

delete: Plug-in deletion

*bb...bb*: Plug-in name

S: Resumes processing.

**KFPY01201-I L+ S**

PLUGIN setup ended, return code=*aa...aa*

Plug-in setup processing is terminated.

*aa...aa*: Termination code:

0: Processing terminated normally.

8: Error occurred during processing.

S: Terminates processing.

Action

If the termination code is not 0, see the KFPY012*nn*-E message (*nn*: 2-digit number) issued before this message, along with the OS command message, and take an appropriate action.

**KFPY01202-I S**

Usage: `pdplgset plugin_name installed_plugin_directory pdplgset -d plugin_name`

This message indicates the usage of the `pdplgset` command. It is displayed when the command format is invalid.

S: Terminates processing.

## Action

Check the command format and re-execute the command.

**KFPY01203-E E+L**

Invalid "PDDIR", path name="*aa....aa*"

The contents of environment variable PDDIR are invalid.

*aa....aa*: Information that is set in environment variable PDDIR

If this information is not displayed, no value is set in PDDIR.

S: Terminates processing.

## Action

Take one of the following actions:

If "*aa....aa*" is displayed:

- Check if the correct HiRDB directory is set in PDDIR. If the path is invalid, set the correct path and then re-execute the command.
- Check if the HiRDB directory's absolute path is set in PDDIR. If a relative path is set in PDDIR, replace it with the absolute path and then re-execute the command.

If "*aa....aa*" is not displayed:

- Specify the HiRDB directory's absolute path name in PDDIR and then re-execute the command.

**KFPY01204-E E+L**

PLUGIN *aa....aa* already setup

The specified plug-in *aa....aa* has already been set up.

*aa....aa*: Plug-in name

S: Terminates processing.

## Action

If the setup command for the previous plug-in *aa....aa* terminated normally, there is no need to re-execute it. If setup of *aa....aa* was not terminated normally, execute `pdplgset -d` and then re-execute the `pdplgset` command.

**KFPY01206-E E+L**

Permission error occurred, path name=*aa...aa*

An access permission error occurred in *aa...aa*. The following are possible causes:

- The specified command argument is invalid.
- No access privilege is granted for the installation directory.
- An error occurred on an internal OS command.
- Other (cause other than the previous ones)

*aa...aa*: File or directory in which the read or write error occurred

S: Terminates processing.

Action

If the specified command argument is invalid:

Specify the correct command argument and re-execute the command.

If no access privilege is granted for the installation directory:

Delete the installation directory and reinstall it. Or, grant an access privilege so that the HiRDB administrator can access the installation directory.

If an error occurred in an internal OS command:

Check the cause of the error based on the OS command's error message, and take an appropriate action.

If the cause is other than those listed previously:

Save the files under %PDDIR%\plugin and the files under the installation directory specified in the argument, and then contact a customer engineer.

**KFPY01207-E E+L**

Failed to create file or directory, path name="*aa...aa*"

Creation of file or directory "*aa...aa*" failed. The following are possible causes:

- The user did not execute the command as the HiRDB administrator.
- The HiRDB administrator does not have the HiRDB directory write privilege.
- An error occurred on an internal OS command.
- Other (cause other than the previous ones)

*aa...aa*: File or directory whose creation failed

S: Terminates processing.

Action



If the user did not execute the command as the HiRDB administrator:

Execute the command as the HiRDB administrator.

If the HiRDB administrator does not have the HiRDB directory write privilege:

Grant the HiRDB directory write privilege.

If an error occurred in an internal OS command:

If an OS command error message is displayed, check the cause of the error based on the message, and take an appropriate action.

If the cause is other than those listed previously:

Save the files under %PDDIR%\plugin, and then contact a customer engineer.

**KFPY01208-E E+L**

File or directory not exists, path name=*aa....aa*

The file or directory *aa....aa* was not found. The following are possible causes:

- The specified command argument is invalid.
- The installation directory is damaged.
- An error occurred in an internal OS command.
- Other (cause other than the previous ones)

*aa....aa*: Name of the file or directory referenced

S: Terminates processing.

Action

If the specified command argument is invalid:

Specify the correct command argument and re-execute the command.

If the installation directory is damaged:

Reinstall the plug-in to be set up.

If an error occurred on an internal OS command:

If an OS command error message is displayed, check the cause of the error based on the message and take an appropriate action.

If the cause is other than those listed previously:

Save the files under %PDDIR%\plugin and the files under the installation directory specified in the argument, and then contact a customer engineer.

**KFPY01209-E E+L**

Not a directory, path name=*aa....aa*

## 2. Messages

*aa...aa* is not a directory.

*aa...aa*: Name of the directory referenced

S: Terminates processing.

Action

Check the path specified in the argument for any error. If the path is invalid, specify the correct installation directory and re-execute the command.

If a file called `plugin` was created in the HiRDB directory, rename the file.

### **KFPY01210-E E+L**

PLUGIN *aa...aa* not installed

Plug-in *aa...aa* has not been installed.

*aa...aa*: Plug-in name

S: Terminates processing.

Action

Check if the path specified in the argument is correct. If it is wrong, specify the correct path and re-execute the command.

If plug-in *aa...aa* has not been installed, install it.

### **KFPY01211-E E+L**

Internal error occurred, func=*aa...aa*, location=*bb...bb*, info="*cc...cc*"

An internal error occurred.

*aa...aa*: Name of function where the internal error occurred

*bb...bb*: Location within *aa...aa*

*cc...cc*: Error information

S: Terminates abnormally.

Action

If messages have been output to files in `%PDDIR%\plugin` or to the event log (in UNIX, `syslogfile`), or (for OS commands) messages have been displayed in the command execution window, save the messages and contact a customer engineer.

Before starting HiRDB, delete the plug-in `pdplugin` operand that was to be set up from the system common definition for all units, and then start HiRDB.

### **KFPY01213-E E+L**

Specified directory not full path name

The specified directory is not an absolute path name.

S: Terminates processing.

Action

Specify the absolute path of the installation directory in the command argument and execute the command.

**KFPY01214-E E+L**

PLUGIN *aa....aa* not setup

Plug-in *aa....aa* has not been set up. The following are possible causes:

- The plug-in name specified in the argument is invalid.
- The path set in the PDDIR environment variable is invalid.
- The plug-in with its name specified in the argument has not been set up.

*aa....aa*: Plug-in name

S: Terminates processing.

Action

If the plug-in name specified in the argument is invalid:

Specify the correct plug-in name in the argument and re-execute the command.

If the path set in the PDDIR environment variable is invalid:

Specify the correct path in the PDDIR environment variable and re-execute the command.

If the plug-in with its name specified in the argument has not been set up:

There is no need to execute the command.

**KFPY01215-E E+L**

Unable to execute *aa....aa* command while HiRDB running

It is impossible to execute the indicated command because HiRDB is running.

*aa....aa*: Name of executed command

S: Terminates processing.

Action

Execute the command while HiRDB is not running.

**KFPY01216-E E+L**

Pdplgset already used by another user

The pdplgset command is already being executed.

S: Terminates processing.

Action

Wait until the current `pdplgset` command is terminated, and then re-execute the `pdplgset` command.

**KFPY01227-E L**

PLUGIN library *aa...aa* incompatible load model type with HiRDB

The load type (POSIX or non-POSIX) of plug-in library *aa...aa* and the load type of HiRDB do not match.

*aa...aa*: Plug-in name

S: Terminates processing.

Action

Install a plug-in that matches the HiRDB version, specify a plug-in matching the HiRDB load type, and then re-execute the command.

**KFPY02001-E E**

Fatal error, *inf=aa...aa*

A fatal error occurred during command execution.

*aa...aa*: Maintenance information

S: Terminates processing.

Action

Contact a customer engineer.

**KFPY02006-E E**

Invalid arguments

usage: `pdplgrgst` [{-a| -d}] [-u] *definition\_file* PIC file

The specified plug-in definition file or PIC file is invalid. This message displays the command usage.

S: Terminates processing.

Action

Specify a plug-in definition file name and PIC file name as the arguments in the command line. Make sure that the specified file name is correct, and then re-execute the command.

**KFPY02007-E E**

Read error occurred, *file="aa...aa"*, *errno=bbb*

A read error occurred in file "*aa...aa*".

*aa...aa*: Name of the file where the read error occurred

*bbb*: Value set in *errno*

S: Terminates processing.

Action

Eliminate the cause of the error by checking `errno.h` and the applicable OS manual based on the value of the `errno` (external integer variable indicating the error status), and then re-execute the command.

**KFPY02010-E E**

Insufficient process local memory, size=*aa....aa*

An attempt was made to allocate a process private area during command execution, but it failed due to insufficient memory.

*aa....aa*: Size of area to be allocated (in bytes)

S: Terminates processing.

Action

Check if another process is using a large amount of memory and take one of the following actions:

If there is a process using a large amount of memory:

Wait until the process is terminated and then re-execute the command.

If there is no process using a large amount of memory:

Terminate any unneeded processes and then re-execute the command. If this message is displayed again, contact a customer engineer.

**KFPY02011-E E**

Invalid PLUGIN definition file, file=*aa....aa*

The contents of the plug-in definition file are invalid.

*aa....aa*: File name specified in the command line

S: Terminates processing.

Action

Make sure that the file specified in the command argument is a plug-in definition file.

**KFPY02012-E E**

Invalid PIC file, file=*aa....aa*

The contents of the PIC file are invalid.

*aa....aa*: File name specified in the command line

S: Terminates processing.

Action

Make sure that the file specified in the command argument is a PIC file.

**KFPY02013-E E**

*aaaaa* type "*bb...bb*" already defined

Abstract data type or index type "*bb...bb*" is already defined.

*aaaaa*: Type:

Data: Abstract data type

Index: Index type

*bb...bb*: Name of the type already defined

S: Terminates processing.

Action

If type "*bb...bb*" is a user-defined abstract data type, delete the abstract data type ("*bb...bb*") to use the plug-in. If type "*bb...bb*" is not a user-defined abstract data type, the plug-in has not been registered correctly. Execute the `pdplgrgst` command, specifying the `-d` option to delete the plug-in from HiRDB, and then register the plug-in again.

**KFPY02014-E E**

PLUGIN definition file *aa...aa* does not correspond to PIC file *bb...bb*

The specified plug-in definition file does not correspond to the specified PIC file.

*aa...aa*: Name of the plug-in definition file specified in the command line

*bb...bb*: Name of the PIC file specified in the command line

S: Terminates processing.

Action

Make sure that both the plug-in definition file and the PIC file specified in the command line belong to the plug-in subject to registration processing, and then re-execute the command.

**KFPY02015-E E**

PLUGIN *aa...aa* already registered in schema "*bb...bb*"

Plug-in *aa...aa* is already registered in HiRDB.

*aa...aa*: Name of the plug-in subject to registration processing

*bb...bb*: Schema in which the plug-in is registered

S: Terminates processing.

Action

Plug-in *aa....aa* is already registered in HiRDB. To use the plug-in, code the `pdplugin` operand in the system common definition, and then restart HiRDB. To delete the plug-in, execute the `pdplgrgst` command, specifying the `-d` option. To upgrade the plug-in, execute the `pdplgrgst` command, specifying the `-a` option.

**KFPY02016-I E**

Processing of `PLUGIN aa....aa` ended, `PLUGIN=bb...bb`, return code=*c*  
Registration or deletion of the indicated plug-in has terminated.

*aa....aa*: Nature of processing:

registration: Registration

unregistration: Deletion

updating: Version upgrading

*bb...bb*: Plug-in name

*c*: Termination code (0 or 8)

S: Terminates processing.

**Action**

If the termination code is not 0, take an appropriate action according to the message that was displayed before this message. Note that `*****` is displayed as the plug-in name in the following cases:

- The argument specified in the command line is invalid.
- An invalid combination of the plug-in definition file and PIC file was specified in the command file.
- The establishment of a connection with HiRDB failed.
- The `PDUSER` environment variable setting is invalid for the user with the DBA privilege.
- Memory allocation failed.

**KFPY02017-E E**

`PLUGIN aa....aa` not registered

Plug-in *aa....aa* is not registered.

*aa....aa*: Name of the plug-in subject to deletion

S: Terminates processing.

**Action**

Plug-in *aa....aa* either has not been registered or has already been deleted. To

register the plug-in, omit both `-a` and `-d` options. If the `-u` option was specified to register the plug-in in the `pdplgrgst` command executor's schema, be sure to specify the `-u` option when deleting or upgrading the plug-in.

**KFPY02018-E E**

PLUGIN *aa...aa* registered in schema "*bb...bb*", not in schema "*cc...cc*"

Plug-in *aa...aa* has been registered in schema "*bb...bb*", but not in schema "*cc...cc*".

*aa...aa*: Plug-in name

*bb...bb*: Schema in which the plug-in is registered

*cc...cc*: Schema subject to deletion of plug-in

S: Terminates processing.

Action

The specified plug-in is not registered in the schema subject to deletion of plug-in. Set the `pdplgrgst` command option and `PDUSER` environment variable values according to the following table, and then re-execute the command:

<b>bb...bb</b>	<b>Option to be specified</b>	<b>PDUSER setting</b>
MASTER	-d	User with DBA privilege
Other	-d -u	Authorization identifier and password of user " <i>bb...bb</i> "

**KFPY02019-E E**

Error occurred while unregistering PLUGIN, `inf=aa...aa`

An error occurred in the SQL that was executed to delete a plug-in.

*aa...aa*: Information about the SQL execution error

S: Terminates processing.

Action

Eliminate the cause of the error based on the displayed message text, and then re-execute the command.

**KFPY02021-E E**

Error occurred while updating PLUGIN, `inf=aa...aa`

An error occurred while upgrading a plug-in.

*aa...aa*: Information about the SQL execution error

S: Terminates processing.

Action



Eliminate the cause of the error based on the displayed message text, and then re-execute the command.

**KFPY02022-E E**

Newer version of PLUGIN *aa....aa* registered, registered PLUGIN version=*bb....bb*, specified PLUGIN version=*cc....cc*

A newer version of the plug-in is registered.

*aa....aa*: Plug-in name

*bb....bb*: Version of the currently registered plug-in

*cc....cc*: Version of the plug-in whose registration was attempted

S: Terminates processing.

Action

A plug-in cannot be upgraded to an older version. Install and set up the plug-in version *bb....bb*.

**KFPY02023-E E**

PLUGIN definition file incompatible with PIC file

The plug-in definition file is not compatible with the PIC file.

S: Terminates processing.

Action

The plug-in is not set up correctly. Set it up again.

**KFPY02024-E E**

Newer version of HiRDB required to *aa....aa* version *bb....bb* of PLUGIN *cc....cc*

A newer version of HiRDB is required to register or upgrade plug-in *cc....cc* version *bb....bb*.

*aa....aa*: Type of processing:

register: Registration

update: Version upgrading

*bb....bb*: Plug-in version

*cc....cc*: Plug-in whose registration or upgrading was attempted

S: Terminates processing.

Action

Upgrade the HiRDB system.

**KFPY02025-E E**

Incompatible PLUGIN library format with HiRDB, PLUGIN data model=*aa*, HiRDB data model=*bb*

The format of the plug-in library does not match the HiRDB format.

*aa*: Data model of the plug-in

*bb*: HiRDB data model

S: Terminates processing.

Action

When *aa* is 32 and *bb* is 64, set the plug-in to the 64-bit mode. When *aa* is 64 and *bb* is 32, either set HiRDB to the 64-bit mode or the plug-in to the 32-bit mode. When migrating to a 64-bit mode HiRDB system, you cannot return the system to a 32-bit mode HiRDB.

**KFPY02027-E E**

PLUGIN library *aa...aa* incompatible load model type with HiRDB

The load type for the plug-in library (POSIX or non-POSIX library version) and the load type for HiRDB do not match.

*aa...aa*: Plug-in name

S: Terminates processing.

Action

Register a plug-in that matches the load type (POSIX or non-POSIX library version) for HiRDB, and then re-execute the command.

**KFPY02039-E E**

Open error occurred, file="*aa...aa*", errno=*bbb*

An open error occurred on file "*aa...aa*", which is used to register a plug-in.

*aa...aa*: Name of the file where the open error occurred

*bbb*: Error number (errno)

S: Terminates processing.

Action

Eliminate the cause of the error by checking `errno.h` and the applicable OS manual based on the value of the `errno` (external integer variable indicating the error status), and then re-execute the command.

**KFPY02101-E E**

Failed to get time

The system was unable to obtain the current time.

S: Terminates processing.

Action

Contact a customer engineer.

**KFPY02110-E E**

Data type "*aa....aa*" not defined

Abstract data type "*aa....aa*" is required for the plug-in, but it is not defined.

*aa....aa*: Name of the undefined abstract data type

S: Terminates processing.

P: Define the abstract data type named "*aa....aa*", and then re-execute the command. If this message is issued again, contact a customer engineer.

Action

Contact a customer engineer.

**KFPY02111-E E**

Index type "*aa....aa*" not defined

Index type "*aa....aa*" is required for the plug-in, but it is not defined.

*aa....aa*: Name of the undefined index type

S: Terminates processing.

P: Define the index type named "*aa....aa*", and then re-execute the command. If this message is issued again, contact a customer engineer.

Action

Contact a customer engineer.

**KFPY02112-E E**

Duplicate data type PLUGIN for "*aa....aa*"

The data type plug-in for "*aa....aa*" is already registered.

*aa....aa*: Name of the abstract data type

S: Terminates processing.

Action

If the plug-in is already registered, there is no need to use this command. If the plug-in has not been registered, but this message was issued, contact a customer engineer.

**KFPY02113-E E**

Duplicate index type PLUGIN for "*aa....aa*"

The index type plug-in for "*aa....aa*" is already registered.

## 2. Messages

*aa....aa*: Name of the index type

S: Terminates processing.

Action

If the applicable plug-in is already registered, there is no need to use this command.

### **KFPY02114-E E**

Duplicate PLUGIN name "*aa....aa*"

Plug-in "*aa....aa*" is already registered.

*aa....aa*: Name of the plug-in that is already registered

S: Terminates processing.

Action

If the applicable plug-in is already registered, there is no need to use this command.

### **KFPY02120-E E**

PIC file error, inf=*aa....aa*

The PIC file is invalid.

*aa....aa*: Maintenance information

S: Terminates processing.

Action

The contents of the PIC file may be damaged. Re-execute plug-in installation and setup. If this message is issued again, contact a customer engineer.

### **KFPY02121-E E**

PIC file version error

The plug-in subject to registration is not compatible with the HiRDB version.

S: Terminates processing.

Action

Make sure that the HiRDB version supports the operating conditions for the plug-in to be registered.

### **KFPY02122-E E**

PIC file header error

The PIC file header is invalid.

S: Terminates processing.

Action

Make sure that the PIC file name is specified in the command argument, and then re-execute the command. If the PIC file name was specified, but this message was issued, contact a customer engineer.

**KFPY02140-E E**

PLUGIN ID(*aa....aa*) already used

*aa....aa* is already in use as a plug-in ID.

*aa....aa*: Plug-in ID

S: Terminates processing.

Action

Contact a customer engineer.

**KFPY02200-E E**

Error occurred on server, inf=*aaa*

An error occurred when accessing the server to register a plug-in.

*aaa*: Maintenance information

S: Terminates processing.

Action

If another message was issued before this message:

Eliminate the cause of the error according to the message issued before this message, and then re-execute the command.

If no message was issued before this message:

Contact a customer engineer.

**KFPY02201-E E**

Error occurred while defining PLUGIN, inf=*aa....aa*

An error occurred when executing SQL to define a plug-in.

*aa....aa*: Nature of SQL execution error

S: Terminates processing.

Action

Eliminate the cause of the error based on the output message text, and then re-execute the command.

**KFPY02202-E E**

Error occurred while processing PIC file, inf=*aaaa*

An error occurred while processing a PIC file.

*aaaa*: Maintenance information

## 2. Messages

S: Terminates processing.

Action

Contact a customer engineer.

### **KFPY02210-E E**

Connect error occurred

An error occurred while connecting to the server.

S: Terminates processing.

Action

If an SQL-statement-related message was issued before this message:

Eliminate the cause of the error indicated in the message, and then re-execute the command.

If no SQL-statement-related message was issued before this message:

Make sure that the user has the DBA privilege on the HiRDB system, and then re-execute the command.

### **KFPY02213-E E**

User *aa....aa* has no DBA privilege

The user does not have the DBA privilege that is required to execute the `pdplgrgst` command.

*aa....aa*: User name

S: Terminates processing.

Action

The DBA privilege is required to execute the `pdplgrgst` command. Specify a user with the DBA privilege in the `PDUSER` environment variable and re-execute the command.

### **KFPY02220-E E**

Failed in definition

Plug-in definition failed.

S: Terminates processing.

Action

Eliminate the cause of the error according to the message issued before this message, and then re-execute the command.

For example, check the name of the plug-in definition file.

**KFPY02230-E E**

Invalid setting of environment variable PDUSER

The setting of the PDUSER environment variable is invalid.

S: Terminates processing.

Action

Check the setting of the PDUSER environment variable and then re-execute the command. The PDUSER environment variable must be set to execute this command.

**KFPY02300-E E**

Error occurred, inf1=*aa....aa*, inf2=*bbbb*

An error occurred during command execution.

*aa....aa*: Maintenance information 1

*bbbb*: Maintenance information 2

S: Terminates processing.

Action

Contact a customer engineer.

**KFPY03001-E L**

PLUGIN module requested abortion. PLUGIN ID=*aa....aa*, Abort code=*bb....bb*, Information=*cc....cc*

The indicated plug-in requested abnormal termination.

*aa....aa*: Plug-in ID

*bb....bb*: Abort code

*cc....cc*: Abort information

S: Terminates abnormally.

Action

Save the files under %PDDIR%\spool, %PDDIR%\tmp, and %PDDIR%\plugin, as well as the event log (in UNIX, syslogfile).

Additionally, check the manual for the indicated plug-in, and take an appropriate action according to the abort code. Use the saved information, if necessary, to correct the error.

**KFPY99999-I L**

(*ddddddd*) *xxxxx-y* :*zz....zz*

This is a message from a plug-in named *ddddddd*.

## 2. Messages

*ddddddd*: Plug-in name

*xxxx*: Message ID

*y*: Significance of the error message

*zz...zz*: Message text

S: Depends on the handling of message *xxxx-y* that was issued by plug-in *ddddddd*.

Action

Take an appropriate action according to plug-in *ddddddd*'s message *xxxx-y*.



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## 2.20 KFPZ messages

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**KFPZ02401-E R**

Environment definition error, variable=*aa....aa*, reason=*bb....bb*

A specified environment variable is invalid.

*aa....aa*: Name of the invalid environment variable

*bb....bb*: Cause of the error:

NET ENVIRONMENT:

The specified information does not match the network environment.

S: Terminates processing.

P: Check the environment variable displayed in the message, correct the error, and then re-execute. If reason=NET ENVIRONMENT is displayed, check that the host name specified in PDHOST is a hosts file.

**KFPZ02402-E R**

Memory shortage, size=*aa....aa*, inf=*bb....bb*

Indicated size (*aa....aa*) of memory cannot be allocated.

*aa....aa*: Size (in bytes) that was to be allocated

*bb....bb*: Maintenance information

S: Terminates processing.

P: Contact the system administrator.

Action

Re-estimate the memory requirement.

**KFPZ02404-E R**

Parameter error, func=*aa....aa*, item=*bb....bb*

An internal contradiction was detected.

*aa....aa*: Name of the function resulting in the error

*bb....bb*: Name of the erroneous function

S: Terminates processing.

P: Contact the system administrator.

Action

Contact a customer engineer.

**KFPZ02405-E R**

System call error, func=*aa...aa*, errno=*bb...bb*

The system call indicated by func resulted in an error.

*aa...aa*: Name of the system call resulting in the error

*bb...bb*: Error indicator

S: Terminates processing.

P: Check the value of the error indicator, see the `errno.h` (for Windows, including Winsock error codes) and the applicable OS manual, resolve the cause of the error, and then re-execute the command.

**KFPZ02406-E R**

Error occurred in HiRDB/client, reason=*aa...aa*, inf=*bb...bb*

An error occurred during HiRDB/client internal processing.

*aa...aa*: One of the following is displayed as the cause of the error:

MEMORY: Memory shortage occurred.

NETWORK: Network error occurred.

RESIDENT MEM: There was no available resident memory.

RESOURCE: There were not enough resources.

TIME OUT: Timeout occurred.

TSR MODULE: Resident module was inactive.

UNEXPECT: Other error occurred.

*bb...bb*: Maintenance information

S: If unavailable resident memory is the cause of the error, ignores the error and resumes processing; otherwise, cancels the current processing.

P: Record the error log containing this message and contact the HiRDB administrator.

Action

Refer to the output error log to check the cause of the error, and correct the error.

**KFPZ02410-E R**

HiRDB replied error, code=*aa...aa*, IPaddr=*bb...bb*, port=*cc...cc*,  
inf=*dd...dd*

An error was reported from HiRDB.

*aa...aa*: Error code returned from HiRDB

*bb...bb*: IP address at the send side (if a client UAP and the HiRDB server a rerun on the same server machine, 0 is displayed)

*cc...cc*: Port number at the send side

*dd...dd*: Name of the erroneous file

S: Resumes processing.

P: If a message with an error log prefix identifier >> is not output after this message, it is an indication that retry processing was successful. If a message with an error log prefix identifier >> is output, see the description of how to handle that message. If the error code returned by HiRDB is found in *4.1 Detail codes for RPC-related errors* or *4.2 Detail codes for system-related errors*, also see the cause and the action to be taken on the code.

**KFPZ02411-E R**

Invalid message received, IPaddr=*aaaaaaaa*, port=*bb...bb*, inf=*cc...cc*

A received message cannot be analyzed.

*aaaaaaaa*: IP address at the send side (if a client UAP and the HiRDB server a rerun on the same server machine, 0 is displayed)

*bb...bb*: Port number at the send side

*cc...cc*: Name of the erroneous file

S: Resumes processing; ignores the received message and waits for the next message.

P: Contact the HiRDB administrator.

Action

Refer to the displayed IP address and port number to determine the process at the send side, and check the network environment.

**KFPZ02420-E R**

Protocol error, IPaddr=*aaaaaaaa*, port=*bb...bb*, reason=*cc...cc*

Invalid information was detected in the HiRDB process-to-process communication protocol header.

*aaaaaaaa*: IP address at the send side (if a client UAP and the HiRDB server a rerun on the same server machine, 0 is displayed)

*bb...bb*: Port number at the send side

*cc...cc*: One of the following is displayed as the reason:

INF2 ERROR:

Contents of additional information 2 are invalid.

SIZE OVER:

Message longer than 12 bytes was received as the HiRDB IPC header.

## 2. Messages

SIZE SHORT:

Message shorter than 12 bytes was received as the HiRDB IPC header.

SIZE ZERO:

Message with a length of 0 bytes was received as the HiRDB IPC header.

S: Terminates processing.

P: Contact the HiRDB administrator.

Action

SIZE ZERO displayed:

Check the cause of the server termination (HiRDB/Single Server (SDS) or HiRDB/Parallel Server (FES)), eliminate the cause, and then re-execute the UAP.

Other reason displayed:

Contact a customer engineer.

### **KFPZ02421-E R**

Invalid size, received size=*aa....aa*, size in head=*bb....bb*,  
IPaddr=*ccccccc*, port=*dd....dd*

Processing was cancelled because the data length of the receive completion report was less than the data length of the protocol header used for HiRDB process-to-process communication.

*aa....aa*: Received data length

*bb....bb*: Data length in header

*ccccccc*: IP address at the send side (if a client UAP and the HiRDB server a rerun on the same server machine, 0 is displayed)

*dd....dd*: Port number at the send side

S: Terminates processing.

P: Check whether or not the server terminated abnormally.

### **KFPZ02444-E R**

Communication error, func=*aa....aa*, [*bb....bb*], errno=*cc....cc*

A communication error occurred.

*aa....aa*: Name of the socket interface function resulting in the error (up to 21 characters)

*bb....bb*: Displayed character strings:

IP address: port number:

Displayed when the `connect` function name is invoked during INET communication.

Port number:

Displayed when the `connect` function name is invoked during communication other than INET.

`cc....cc`: Error indicator

S: Terminates processing.

P:

Check the value of the error indicator, see the `errno.h` (for Windows, including Winsock error codes) and the applicable OS manual, resolve the cause of the error, and then re-execute the command.

If `func=write`, `read`, or `errno` indicates the value `EPIPE` or (WSA)\* `ECONNRESET`, it suggests an abnormal termination of the HiRDB server.

If the value indicated by `func=connect` or `errno` is either `ENOENT` or (WSA)\* `ECONNREFUSED`, it is possible that the specification of the `PDHOST` or `PDNAMEPORT` operand of the client environment definition is incorrect.

If the specification of the `PDHOST` or `PDNAMEPORT` operand of the client environment definition is correct and the value indicated by `func=connect` or `errno` is (WSA)\* `ETIMEDOUT` or (WSA)\* `ECONNREFUSED`, it is possible that there are too many connection requests for the HiRDB server. If that is the case, wait for an interval of time and then re-execute. (In UNIX, increase the size of the Listen queue specification.) For details about the Listen queue, see the *HiRDB Version 8 Installation and Design Guide*.

\* (WSA) is the name of a Winsock error code.

#### **KFPZ02445-I R**

Client information, Type=`aa....aa`, Inf=`bb....bb`

Outputs client information.

`aa....aa`: Type of client information (see Action below)

`bb....bb`: Client information (see Action below)

S: Continues processing.

Action

Take action according to the following client information.

Type of client information (aa....aa)	Client information (bb....bb)	Description	Action
Reconnect	MAX_USERS_OVER, time=cc....cc	Reconnection processing has begun because the number of connected users exceeded the maximum value. Reconnection is attempted for cc....cc seconds.	If reconnection fails, re-evaluate the value specified for the pd_max_users operand in the system definition.
	MAINTENANCE, time=cc....cc	Reconnection processing has begun, either because a HiRDB program was replaced with an updated version or due to the system reconfiguration command (pdchgconf command). Reconnection is attempted for cc....cc seconds.	Re-execute the command, after replacing the HiRDB program with an updated version terminates or executing the system reconfiguration command (pdchgconf) terminates.
	AUTO_RECONNECT, number=cc....cc, interval=dd....dd	Reconnection processing has begun by means of the automatic reconnect facility. Reconnection is attempted cc....cc times at dd....dd second intervals.	If reconnection fails, eliminate the cause of the communication error, and then re-execute the command.

**KFPZ02470-E R**

Invalid parameter, parameter number=aa....aa

An argument of the COMMAND EXECUTE statement is invalid.

aa....aa: Argument number:

#1: Command line variable

#3: Execution results receiving area size variable

#4: Execution results size receiving variable

#5: Execution results receiving variable

#6: Execution command return code receiving variable

#7: Environment variable group name variable

#8: Execution unit variable

S: Continues processing.

P: Check the argument, correct it if it is incorrect, and then re-execute.

**KFPZ02471-E R**

Communication error occurred, reason=*aa....aa*

An error occurred during communication with HiRDB Control Manager - Agent.

*aa....aa*: Error detail:

INIT ERROR, CODE=*bbb*

HiRDB Control Manager - Agent initialization error

NETWORK

Network error

Assist-Server NOT UP

HiRDB Control Manager - Agent not active

Assist-Server BUSY

Timeout occurred during communication

*bbb*: HiRDB Control Manager - Agent error detail code

S: Terminates processing.

P: Inform the HiRDB administrator of the error detail, correct the error, and then re-execute.

**Action**

Eliminate the cause of the error based on the detail information output to the execution results receiving area and command trace, and then re-execute. If the error detail is `Assist-Server NOT UP`, check and modify the values specified for `PDASTHOST` and `PDASTPORT` in the client environment definition if necessary.

The following are the error detail codes and actions for HiRDB Control Manager - Agent errors:

## 2. Messages

<b>Error detail code</b>	<b>Cause</b>	<b>Action</b>
-7001	Invalid internal argument in the HiRDB Control Manager - Agent	Contact a customer engineer.
-7002	Either an error occurred in a system call executed internally on the HiRDB Control Manager - Agent or data that a client requested is invalid.	Re-execute the command. If this error recurs, acquire all information in the HiRDB Control Manager - Agent directory, and then contact a customer engineer.
-7003	There is a shortage of process-private memory.	Re-execute the command when there is sufficient free memory in the overall system.
-7007	An error was found in the HiRDB system definition.	Correct the system definition of HiRDB, and then re-execute the command.
-7008	There is no HiRDB system definition.	Correctly set up the HiRDB Control Manager - Agent.
-7009	Initialization failed when connecting to the HiRDB Control Manager - Agent.	Check the <code>initerr</code> information returned to the client, and then take appropriate action for the error code.
-7014	The specified authorization identifier/ password is invalid.	Correctly specify the identifier/password, and re-execute.
-7015	An error was found in the <code>PDDIR</code> environment variable in the HiRDB system.	Correctly set the <code>PDDIR</code> environment variable, and then re-execute the command.
-7016	An attempt was made to connect to a unit other than the HiRDB system manager.	Connect to the HiRDB Control Manager - Agent in the unit on the system manager.
-7017	The specified user does not belong to the group as the HiRDB administrator ID.	Connect to the server as a user of the same group as the HiRDB administrator ID.
-7019	Failed to connect to the temporary file name.	Re-execute the command. If this error recurs, acquire all information in the HiRDB Control Manager - Agent directory, and then contact a customer engineer.
-7023	Failed to open a temporary file.	
-7039	An error was found in the HiRDB Control Manager - Agent definition.	Correct the definition of the HiRDB Control Manager - Agent, and then re-execute the command.
-7041	Cannot make a dynamic link to the HiRDB library or DLL.	Correctly set up the HiRDB Control Manager - Agent, and then re-execute the command.
Others	See the <code>README.TXT</code> file on the HiRDB Control Manager - Agent.	

### **KFPZ02472-E R**

Error occurred in Assist - Server, code=*aaaaa*



An error occurred on the HiRDB Control Manager - Agent.

*aaaaa*: Error detail code of the HiRDB Control Manager - Agent

S: Terminates processing.

P: Report details of the error to the HiRDB administrator, eliminate the cause of the error, and then re-execute the command.

#### Action

See the error detail codes of the HiRDB Control Manager - Agent to eliminate the cause of the error, and then re-execute the command.

The following are the HiRDB Control Manager - Agent error detail codes and actions:

Error detail code	Cause	Action
-7001	Invalid internal argument in the HiRDB Control Manager - Agent.	Contact a customer engineer.
-7002	Either an error occurred in a system call executed internally on the HiRDB Control Manager - Agent or data that a client requested is invalid.	Re-execute the command. If this error recurs, acquire all information in the HiRDB Control Manager - Agent directory, and then contact a customer engineer.
-7003	There is a shortage of process-private memory.	Re-execute the command when there is sufficient free memory in the overall system.
-7019	Failed to acquire a temporary file name.	Re-execute the command. If this error recurs, acquire all information in the HiRDB Control Manager - Agent directory, and then contact a customer engineer.
-7023	Failed to open a temporary file.	
Others	See the README.TXT file on the HiRDB Control Manager - Agent.	

#### KFPZ02473-E R

Reset environment definition error, envname=*aa....aa*, variable=*bb....bb*, reason=*cc....cc*

An error was found in the specification of the client environment definition dynamically changed by the `p_rdb_mth_ChgEnv` function.

*aa....aa*: Environment variable name in the client environment definition

*bb....bb*: Specification value *aa....aa* (displays the first 30 bytes when the value exceeds 30 bytes)

*cc....cc*: Character strings output as a reason:

OUT OF RANGE: The value is out of range.

## 2. Messages

INVALID CHAR: There is a value that cannot be specified.

INVALID IDENTIFIER: The identifier is invalid.

S: Terminates processing.

P: Correct the error, and then re-execute the command.

### **KFPZ03000-I R**

Error information, type=*aa...aa*, inf=*bb...bb*

An error was detected during HiRDB/CLT processing. This message is output to the CLT error log in the event of an error in order to provide detailed information that can be used to investigate the cause of the error.

*aa...aa*: Type of error information

*bb...bb*: Error information

S: Resumes processing.

P: Appropriate action should be taken according to the message that is output before or after this message.

O: Appropriate action should be taken according to the message that is output before or after this message.

#### Action

This message provides maintenance information when an error occurs. When contacting a customer engineer, the contents of this message as well as those of any other messages that may be generated should be supplied as maintenance data.

### **KFPZ04001-E R**

SQLVAR information, type=*aa...aa*, reason=*bb...bb*

This message provides details of the KFPA11311-E message which reports an error detected by the client library. If the error was detected by the server, this message is not output.

*aa...aa*: Type of event resulting in the error:

real length: Invalid real length for variable-length data

data length: Invalid data length

decimal: Invalid precision or decimal places for decimal data

data type: Invalid data type

*bb...bb*: Variable information for *aa...aa*, consisting of the following information:

*number*: Parameter's ordinal number (beginning with 1)

*sqlcod*: Value of `sqlcod`  
*sqllen*: Value of `sqllen`  
*real length*: Parameter's real length  
*sqlprcsn*: Value of `sqlprcsn`  
*sqlscale*: Value of `sqlscale`

S: Resumes processing.

P: Correct the parameter on the basis of this message and the KFPZ11311-E message, then execute the UAP.

**KFPZ04002-E R**

SQLDA information, type:*aa....aa*, reason:*bb...bb*

This message provides details of the KFPZ11310-E message that reports an error detected by the client library. If the error was detected by the server, this message is not output.

*aa....aa*: Type of event resulting in the error:

`sqln`: Invalid number of `sqlvar`'s

`sqld`: Invalid number of ? parameters or retrieval items

*bb...bb*: Variable information for *aa....aa*, consisting of the following information:

`sqln`: Value of `sqln`

`sqld`: Value of `sqld`

S: Resumes processing.

P: Correct the value for the SQLDA area on the basis of this message and the KFPZ11310-E message, then execute the UAP.

**KFPZ13000-E S**

Required uap program file name missing

Name of the file to be preprocessed was not specified.

S: Terminates processing.

P: Specify the file name and re-execute the preprocessor.

**KFPZ13001-E S**

Too many uap program file

There are too many files to be preprocessed.

S: Terminates processing.

P: Reduce the number of files and re-execute the preprocessor.

## 2. Messages

### **KFPZ13002-E S**

Too long path name

The path name specified for retrieving a registered text is too long.

S: Terminates processing.

P: Shorten the path name specified to the PDCBLLIB environment variable and re-execute the preprocessor.

### **KFPZ13010-E S**

Invalid message file

The path name specified for retrieving a registered text is too long.

S: Terminates processing.

P: Reinstall the same version of the message file as for the preprocessor.

### **KFPZ13020-E S**

Unable to edit message, id=*aa....aa*

Message *aa....aa* cannot be edited, because an error occurred during error message editing.

*aa....aa*: ID of the message resulting in the error

S: Terminates processing.

P: Eliminate the cause of the error according to the error message output before this message.

### **KFPZ13050-E S**

Insufficient process local memory, size=*aa....aa*

Attempt was made to allocate a work area, but specified size *aa....aa* could not be allocated.

*aa....aa*: Size (in bytes) of the area that could not be allocated

S: Terminates processing.

P: Add more memory, or terminate another program and re-execute the preprocessor.

### **KFPZ13051-E S**

Memory free error occurred

A work area cannot be released.

S: Terminates processing.

P: Contact a customer engineer.

### **KFPZ13060-E S**

Too many errors, preprocessing terminated

Preprocessing was cancelled, because many SQL statement errors were detected.

S: Terminates processing.

P: Eliminate the causes of the errors according to the already output messages and re-execute the preprocessor.

**KFPZ13100-E S**

Invalid string "aa....aa" in SQL

Character string "aa....aa" is invalid in an SQL statement.

aa....aa: Invalid character string

S: Ignores this SQL statement; cancels preprocessing of the source program at this point and executes syntax checking only.

P: One of the errors listed below may have occurred:

- A reserved word was misspelled.
- The SQL statement was immediately followed by an extra character string.

Correct the error and re-execute the preprocessor.

**KFPZ13102-E S**

Invalid string "aa....aa" in data description

Character string "aa....aa" is invalid in a variable definition.

aa....aa: Invalid character string

S: Ignores this error and resumes preprocessing.

P: Correct the erroneous variable definition and re-execute the preprocessor.

**KFPZ13104-E S**

Invalid data attribute of variable "aa....aa"

The specified data attribute is not permitted for the indicated variable.

S: Ignores this error and resumes preprocessing.

P: Correct the data attribute and re-execute the preprocessor.

**KFPZ13105-E S**

Invalid data length of variable "aa....aa"

The following error was found in the data length of embedded variable "aa....aa":

- Length of BINARY type data is not a multiple of 4.

S: Aborts generation of post source, and then executes syntax checking only.

P: Correct the error in the data length of the embedded variable, and then re-execute the preprocessor.

**KFPZ13106-E S**

Invalid use of structure or pointer variable "aa....aa"

The structure or usage of a pointer is invalid.

The pointer cannot be used in SQL embedded language that manipulates connection handles.

Structures can be used only in the following specified locations as an embedded variable:

- FETCH statement or INTO clause in a single-row SELECT statement
- VALUES clause of an INSERT statement
- USING clause or INTO clause of an EXECUTE statement

*aa....aa*: Name of the erroneous embedded variable or indicator variable.

S: Aborts generation of a post source, and then executes syntax checking only.

P: Re-evaluate the embedded variable or indicator variable, and then re-execute the preprocessor.

**KFPZ13107-E S**

Number of members in indicator structure unmatched with embedded structure "*aa....aa*"

The member counts of the embedded variable structure and the indicator variable structure do not match.

*aa....aa*: Name of the erroneous indicator variable

S: Aborts generation of a post source, and then executes only syntax checking.

P: Make the member counts of the embedded variable structure and indicator variable structure match, and then re-execute the preprocessor.

**KFPZ13108-E S**

Invalid identifier "*aa....aa*" in SQL

Invalid name "*aa....aa*" was found in an SQL statement.

*aa....aa*: Invalid name:

```
{ cursor name|SQL statement identifier
|indicator variable|embedded variable
|host identifier|SQL description area name
|authorization identifier|table identifier
|column name|column name description area }
```

S: Ignores this SQL statement; cancels preprocessing of the source program at this point and executes syntax checking only.

P: Correct the SQL statement and re-execute the preprocessor.

**KFPZ13110-E S**

Invalid string "*aa....aa*" in *bb....bb* program

Character string "*aa...aa*" cannot be used in program *bb...bb*.

*aa...aa*: Unusable character string

*bb...bb*: Language: { C | COBOL | C++ | OOCOBOL }

S: Ignores this SQL statement; cancels preprocessing of the source program at this point and executes syntax checking only.

P: Correct the SQL statement and re-execute the preprocessor.

**KFPZ13112-E S**

Invalid "*aa...aa*" following "*bb...bb*"

Character string "*aa...aa*" in an SQL statement cannot be specified after character string "*bb...bb*".

*aa...aa*: Character string specified at an invalid location in terms of the SQL syntax rules

*bb...bb*: SQL character string

S: Ignores this SQL statement; cancels preprocessing of the source program at this point and executes syntax checking only.

P: One of the following errors may have occurred. Correct the error, and then re-execute preprocessing:

- A reserved word was misspelled.
- "*aa...aa*" was specified at a location that is not permitted by the SQL syntax rules.

**KFPZ13114-E S**

Incomplete SQL

An SQL statement is incomplete.

S: Ignores this SQL statement; cancels preprocessing of the source program at this point and executes syntax checking only.

P: Correct the SQL statement and re-execute the preprocessor.

**KFPZ13116-E S**

Semicolon missing

The end of an SQL statement was detected before a semicolon (;).

S: Ignores this SQL statement; cancels preprocessing of the source program at this point and executes syntax checking only.

P: Specify the semicolon at the correct location and re-execute the preprocessor.

**KFPZ13118-E S**

Closing quotation mark missing

A closing quotation mark (") or apostrophe (') is missing from the end of a character string literal.

S: Ignores this SQL statement; cancels preprocessing of the source program at this point and executes syntax checking only.

P: Specify a quotation mark or apostrophe at the end of the character string literal and re-execute the preprocessor.

**KFPZ13122-E S**

Invalid use of "aa...aa" parameter

Invalid embedded variable name "aa...aa" was used.

S: Ignores this SQL statement; cancels preprocessing of the source program at this point and executes syntax checking only.

P: Correct the embedded variable and re-execute the preprocessor.

**KFPZ13131-E S**

Data description entry with TYPEDEF clause not level 1

The data description entry level with the TYPEDEF clause specification is not 1.

S: Continues processing.

P: Change the data description entry level with TYPEDEF clause specification to 1.

**KFPZ13132-E S**

Unable to specify subordinate element or level 88 entry after data description entry with TYPE clause

The data description entry with a TYPE clause specification is followed by either a subordinate data description entry or a level-88 description entry.

S: Continues processing.

P: Delete the subordinate data description entry or level-88 description entry after the data description entry with TYPE clause specification.

**KFPZ13133-E S**

Unable to specify "aa...aa" in bb...bb clause, due to data description entry subordinated to group item

A group item to which this description entry belongs is specified in aa...aa of the bb...bb clause.

aa...aa: Type name or the data name in the SAME AS clause

bb...bb: TYPE or SAME AS

S: Continues processing.

P: Review the declaration of the data description entry so that either the type name or the data name in the SAME AS clause does not specify the group item to which the



description entry belongs.

**KFPZ13134-E S**

Level 77 item "*aa....aa*" not elementary

The type name or the data name "*aa....aa*" specified in level number 77 is not an elementary item.

*aa....aa*: Type name or the data name in the SAME AS clause

S: Continues processing.

P: If the left-hand side of a description entry is a level-77 item, the type name or the data name in the SAME AS clause should be an elementary item.

**KFPZ13135-E S**

Invalid type-name "*aa....aa*"

Either type name "*aa....aa*" is not declared or it is declared in duplicate.

*aa....aa*: Type name

S: Continues processing.

P: A type name should be declared once before the TYPE clause.

**KFPZ13136-E S**

Unable to specify subordinate element or level 88 entry after data description entry with SAME AS clause

The data description entry with a SAME AS clause specification is followed by either a subordinate data description entry or a level-88 description entry.

S: Continues processing.

P: Delete the subordinate data description entry or level-88 description entry after the data description entry with SAME AS clause specification.

**KFPZ13138-E S**

Data-name "*aa....aa*" in SAME AS clause contain OCCURS clause

The coding of the data name "*aa....aa*" specified in the SAME AS clause contains an OCCURS clause.

*aa....aa*: Data name

S: Continues processing.

P: Review the declaration of the data description entry so that the OCCURS clause is not specified in the coding of the data name specified in the SAME AS clause.

**KFPZ13139-E S**

Data-name "*aa....aa*" in SAME AS clause neither elementary nor level 1 group item

The data name "*aa....aa*" specified in the SAME AS clause is not an elementary item or

a level-1 group item.

*aa....aa*: Data name

S: Continues processing.

P: The data name specified in the `SAME AS` clause should be either an elementary item or a level-1 group item.

**KFPZ13141-E S**

Invalid data-name "*aa....aa*" in `SAME AS` clause

In the `SAME AS` clause, either the data name "*aa....aa*" is not specified or it is not unique.

*aa....aa*: Data name

S: Continues processing.

P: The data item referenced by the data name in the `SAME AS` clause should be coded before this specification. Or, the data name in the `SAME AS` clause should be qualified so that it is unique.

**KFPZ13142-E S**

Length of identifier "*aa....aa*" exceeds *bb* character

A name length exceeds the permitted maximum number of characters.

*aa....aa*: Invalid name:

```
{ cursor name|SQL statement identifier
|indicator variable|embedded variable
|host identifier|SQL description area name
|authorization identifier|table identifier
|column name|column name description area }
```

*bb*: Permitted maximum number of characters

S: Ignores this SQL statement; cancels preprocessing of the source program at this point and executes syntax checking only.

P: Correct the name so that it does not exceed the maximum length, and then re-execute the preprocessor.

**KFPZ13144-E S**

Length of character string exceeds *aa....aa*

An SQL statement contains a character string literal whose length is greater than the maximum of *aa....aa*.

*aa....aa*: Permitted maximum length

S: Ignores this SQL statement; cancels preprocessing of the source program at this point and executes syntax checking only.

P: Correct the character string literal so that it does not exceed the maximum length, and then re-execute the preprocessor.

**KFPZ13146-E S**

Length of SQL exceeds 2M bytes

The length of an SQL statement exceeds 2 MB.

S: Ignores this SQL statement; cancels generation of the post source of this source program at this point and executes syntax checking only.

P: Correct the SQL statement so that its length does not exceed 2 MB, and then re-execute the preprocessor.

**KFPZ13150-E S**

Number of cursor exceeds 1023 in a program

More than 1023 cursors were used in a program.

S: Ignores this SQL statement; cancels generation of the post source of this source program at this point and executes syntax checking only.

P: Reduce the number of cursors to no more than 1023 and re-execute the preprocessor.

**KFPZ13152-E S**

Number of *aa...aa* exceeds *bb...bb* in SQL

The total number of embedded variables and indicator variables or the number of table identifiers or column names exceeds the maximum value per SQL statement.

*aa...aa*: Variable, table identifier, or column name

*bb...bb*: Permitted maximum value

S: Ignores this SQL statement; cancels generation of the post source of this source program at this point and executes syntax checking only.

P: Correct the value of *aa...aa* to no more than the displayed maximum and re-execute the preprocessor.

**KFPZ13156-E S**

Cursor "*aa...aa*" already used in "*bb...bb*" statement

Cursor "*aa...aa*" is already in use by another OPEN, FETCH, or CLOSE statement.

*aa...aa*: Cursor name

*bb...bb*: Duplicated SQL statement:

CLOSE: CLOSE statement

FETCH: FETCH statement

OPEN: OPEN statement

S: Ignores this SQL statement; cancels generation of the post source of this source

program at this point and executes syntax checking only.

P: Change the cursor name and re-execute the preprocessor.

**KFPZ13160-E S**

Variable "*aa...aa*" already defined

Specified embedded variable or indicator variable has already been defined.

*aa...aa*: Embedded variable or indicator variable

S: Ignores this error and resumes generating the post source.

P: Specify another embedded variable or indicator variable and re-execute the preprocessor.

**KFPZ13162-E S**

Cursor "*aa...aa*" already defined

Specified cursor has already been defined.

*aa...aa*: Cursor name

S: Ignores this error; cancels generation of the post source of this source program at this point and executes syntax checking only.

P: Specify another cursor name and re-execute the preprocessor.

**KFPZ13166-E S**

SQL statement identifier "*aa...aa*" already defined

Specified SQL statement identifier "*aa...aa*" has already been defined.

*aa...aa*: SQL statement identifier

S: Ignores this SQL statement; cancels generation of the post source of this source program at this point and executes syntax checking only.

P: Specify another SQL statement identifier and re-execute the preprocessor.

**KFPZ13168-E S**

SQL statement identifier "*aa...aa*" already used for another cursor

Specified SQL statement identifier "*aa...aa*" has already been defined for another cursor. The same SQL statement identifier cannot be specified for more than one cursor.

*aa...aa*: SQL statement identifier

S: Ignores this SQL statement; cancels generation of the post source of this source program at this point and executes syntax checking only.

P: Specify another SQL statement identifier and re-execute the preprocessor.

**KFPZ13170-E S**

Colon missing before variable "*aa...aa*" in user program

A colon (:) is missing from embedded variable or indicator variable "*aa....aa*" in a UAP.

*aa....aa*: Embedded variable or indicator variable

S: Ignores this error and resumes processing; cancels generation of the post source of this source program at this point and executes syntax checking only.

P: Add a colon to the embedded variable or indicator variable and re-execute the preprocessor.

**KFPZ13174-E S**

Read only cursor specified UPDATE or DELETE statement

A read-only cursor was specified in the UPDATE or DELETE statement.

S: Ignores this SQL statement; cancels generation of the post source of this source program at this point and executes syntax checking only.

P: Specify a cursor other than a read-only cursor in the UPDATE or DELETE statement and re-execute the preprocessor.

**KFPZ13200-E S**

PREPARE statement missing for SQL statement identifier "*aa....aa*"

No PREPARE statement that corresponds to the SQL statement indicated in the SQL statement identifier is defined.

*aa....aa*: SQL statement identifier

S: Ignores this SQL statement; cancels generation of the post source of this source program at this point and executes syntax checking only.

P: Define a PREPARE statement corresponding to the indicated SQL statement.

**KFPZ13201-E S**

DECLARE CURSOR statement missing for cursor name "*aa....aa*"

Specified cursor name "*aa....aa*" has not been declared.

*aa....aa*: Cursor name

S: Ignores this SQL statement; cancels generation of the post source of this source program at this point and executes syntax checking only.

P: Declare the indicated cursor ("*aa....aa*").

**KFPZ13202-E S**

Variable "*aa....aa*" undefined

Specified embedded variable "*aa....aa*" is undefined.

*aa....aa*: Embedded variable

S: Ignores this SQL statement; cancels generation of the post source of this source

program at this point and executes syntax checking only.

P: Define the indicated embedded variable ("*aa....aa*").

**KFPZ13203-E S**

Invalid attribute of variable "*aa....aa*"

The attribute defined for embedded variable "*aa....aa*" is invalid.

*aa....aa*: Embedded variable

S: Ignores this SQL statement; cancels generation of the post source of this source program at this point and executes syntax checking only.

P: Correct the attribute of the embedded variable.

**KFPZ13204-E S**

Indicator variable or parameter "*aa....aa*" not defined

Specified indicator variable "*aa....aa*" is undefined.

*aa....aa*: Indicator variable

S: Ignores this SQL statement; cancels generation of the post source of this source program at this point and executes syntax checking only.

P: Define the indicated indicator variable ("*aa....aa*").

**KFPZ13205-E S**

Invalid attribute of indicator variable "*aa....aa*"

The attribute defined for indicator variable "*aa....aa*" is invalid.

*aa....aa*: Indicator variable

S: Ignores this SQL statement; cancels generation of the post source of this source program at this point and executes syntax checking only.

P: Correct the attribute of the indicator variable.

**KFPZ13206-E S**

Unable to identify variable "*aa....aa*"

An embedded variable or indicator variable cannot be identified because the specification of the variable is incorrect.

*aa....aa*: Embedded or indicator variable

S: Aborts generation of the post source and only checks the syntax.

P: Correct the source program so that the embedded or indicator variable can be identified uniquely and re-execute the preprocessor.

**KFPZ13207-E S**

Length of variable "*aa....aa*" exceeds *bb....bb* bytes

The definition length of embedded variable "*aa...aa*" of CHAR, VARCHAR, NCHAR, NVARCHAR, MCHAR, MVARCHAR, BLOB, CLOB, or BINARY is greater than *bb...bb* bytes.

*aa...aa*: Name of embedded variable

*bb...bb*: Definition length

S: Resumes processing; cancels generation of the post source at this point and executes syntax checking only.

P: Reduce the definition length of the embedded variable to *bb...bb* bytes or less.

**KFPZ13208-E S**

Number of variables in "INTO" clause must be equal to output columns

The number of columns to be retrieved does not match the number of embedded variables specified in the INTO clause for setting column data.

S: Converts this SQL statement to the post source as is and resumes processing.

P: Specify the same number of columns and embedded variables.

**KFPZ13210-E S**

Invalid DECLARE CURSOR statement

If a cursor is used with a data manipulation SQL statement, specify DECLARE CURSOR in the following format:

```
DECLARE cursor-name CURSOR [WITH HOLD] FOR SELECT statement
```

In the case of cursor declaration in format 2, the format must be the same for all cursors that use the same SQL statement identifier.

S: Ignores this SQL statement; cancels generation of the post source of this source program at this point and executes syntax checking only.

P: Correct DECLARE CURSOR.

**KFPZ13212-E S**

Number of SQL exceeds 4095 in a program

More than 4095 SQL statements were used in the program.

S: Terminates processing.

P: Reduce the number of SQL statements to no more than 4095 and re-execute the preprocessor.

**KFPZ13214-E S**

Number of variables in "USING" clause must be equal to number of input variables in DECLARE CURSOR statement

The number of embedded variables entered with `DECLARE CURSOR` does not match the number of embedded variables specified in the `USING` clause.

S: Ignores this SQL statement; cancels generation of the post source of this source program at this point and executes syntax checking only.

P: Specify the same number of embedded variables.

**KFPZ13222-E S**

Invalid structure of indicator variable "*aa...aa*" for its corresponding variable

One of the following inconsistencies between an embedded variable and an indicator variable was detected:

- An array structure is used for the embedded variable but not for the indicator variable.
- The embedded variable has a simple structure, but the indicator variable has an array or repetition structure.
- The embedded variable has a repetition structure, but the attribute of the indicator variable is not a repetition structure.

*aa...aa*: Name of indicator variable

S: Ignores this SQL statement, cancels preprocessing of this source program, and executes syntax checking only.

P: Use the same structure for both the indicator variable and the embedded variable.

**KFPZ13223-E S**

Number of elements of indicator variable "*aa...aa*" not equal to number of elements of array or multi-value variable

The number of elements is not the same in an array-type embedded variable and the indicator variable. Or, the number of elements in the indicator variable associated with the embedded variable is inconsistent.

*aa...aa*: Name of indicator variable

S: Resumes processing.

P: Specify the same number of elements for both the indicator variable and the embedded variable.

**KFPZ13224-E S**

Update columns not specified in "`FOR UPDATE`" clause of `DECLARE CURSOR` statement

A column name that was not specified in the `FOR UPDATE` clause of the cursor declaration was specified in the `SET`, `ADD`, or `DELETE` clause of the `UPDATE` statement using the same cursor.



S: Ignores this SQL statement; cancels generation of the post source of this source program at this point and executes syntax checking only.

P: Specify in the `FOR UPDATE` clause the column name that was specified in the `UPDATE` statement but omitted from the `FOR UPDATE` clause of the cursor declaration.

**KFPZ13225-I S**

Length of variable "*aa....aa*" exceeds 30000 bytes

The data length of embedded variable "*aa....aa*" that was used with the row interface for the `FIX` table exceeded 30,000 bytes.

*aa....aa*: Name of embedded variable

S: Resumes processing; cancels generation of the post source at this point and executes syntax checking only.

P: Reduce the data length of the embedded variable to no more than 30,000 bytes and re-execute the preprocessor.

**KFPZ13226-I S**

Invalid attribute "*aa....aa*" corresponding to row

The data attribute is invalid for embedded variable "*aa....aa*" for a row.

*aa....aa*: Name of embedded variable

S: Resumes processing; cancels generation of the post source at this point and executes syntax checking only.

P: Define the correct data attribute for the embedded variable and re-execute the preprocessor.

**KFPZ13227-E S**

Length of variable "*aa....aa*" exceeds 2M bytes

Defined embedded variable length exceeded 2 MB.

*aa....aa*: Name of embedded variable

S: Ignores this SQL statement; cancels generation of the post source of this source program at this point and executes syntax checking only.

P: Correct the embedded variable length to no more than 2 MB and re-execute the preprocessor.

**KFPZ13228-E S**

Number of elements of array variable "*aa....aa*" exceeds 4096

Number of embedded variable or indicator variable elements exceeds 4,096.

*aa....aa*: Name of embedded variable or indicator variable

S: Ignores this SQL statement, cancels preprocessing of this source program, and executes syntax checking only.

P: Reduce the number of embedded variable or indicator variable elements to no more than 4,096.

**KFPZ13229-E S**

Invalid usage of array variable "*aa....aa*"

Embedded variables with different structures (array structure and simple structure) are used at the same time. Or, an embedded variable of an array structure is specified together with an embedded variable of a repetition structure.

*aa....aa*: Name of embedded variable

S: Ignores this SQL statement, cancels preprocessing of this source program, and executes syntax checking only.

P: Use the same structure (array structure or simple structure) for the embedded variables specified in this SQL statement. Or, make the embedded variable used in the SQL statement into a simple structure and a repetition structure.

**KFPZ13233-E S**

Specified table different from that in DECLARE CURSOR statement

The table specified in this SQL statement differs from the table specified with DECLARE CURSOR.

S: Ignores this SQL statement; cancels generation of the post source of this source program at this point and executes syntax checking only.

P: Correct the SQL statement and re-execute the preprocessor.

**KFPZ13234-E S**

Specified SQL statement before DECLARE CONNECTION HANDLE SET

When multi-connection facilities are being used with the COBOL language, the only SQL statements you can use before you code DECLARE CONNECTION HANDLE SET are those for allocating or acquiring a connection handle.

S: Terminates processing.

P: Correct the SQL statement, and then re-execute the preprocessor.

**KFPZ13236-W S**

"Block transfer facility" not applied for cursor "*aa....aa*", because of FETCH using array variable

Cursor "*aa....aa*" is used in both FETCH statements, one using an array and the other not using an array. Block transfer cannot be achieved by the FETCH statement without using an array even if the block transfer facility is used during execution.

*aa....aa*: Cursor name

S: Resumes processing.

P: To use the block transfer facility, correct the UAP and re-execute preprocessing.

**KFPZ13511-E S**

Error occurred in preprocessor, inf1=*aa....aa*, inf2=*bbbb*

An internal conflict occurred in the SQL preprocessor.

*aa....aa*: Name of the erroneous source file

*bbbb*: Erroneous location (line number)

S: Terminates processing.

P: Contact the HiRDB administrator.

Action

Contact a customer engineer.

**KFPZ13570-E S**

*"aa....aa"* option missing

Preprocess option *"aa....aa"* was not specified.

*aa....aa*: Preprocess option

S: Terminates processing.

P: Specify the indicated preprocess option and re-execute the preprocessor.

**KFPZ13572-E S**

Invalid option *"aa....aa"*

Operand *"aa....aa"* specified for a preprocess option is invalid.

*aa....aa*: Invalid operand

S: Terminates processing.

P: Correct the operand value of the preprocess option and re-execute the preprocessor.

**KFPZ13574-E S**

Invalid keyword *"aa....aa"*

Operand keyword *"aa....aa"* is invalid in a preprocess option.

*aa....aa*: Invalid keyword

S: Terminates processing.

P: Correct the operand keyword of the preprocess option and re-execute the preprocessor.

**KFPZ13575-E S**

Preprocess option *"aa....aa"* conflict with *"bb....bb"*

Preprocess option *"aa....aa"* cannot be specified concurrently with *"bb....bb"*.

*aa....aa*: Preprocess option that caused the error

*bb...bb*: Specified preprocess option

S: Terminates processing.

P: Correct the preprocess option and then re-execute the preprocessor.

**KFPZ13576-E S**

Error occurred during internal compiler processing "*aa...aa*"

An error occurred during internal compiler process "*aa...aa*".

*aa...aa*: Internal compiler process that caused the error (displays the first 150 bytes if the length exceeds 150 bytes)

S: Terminates processing.

P: See the message output before this message to eliminate the cause of the preprocess option error, and then re-execute the preprocessor.

**KFPZ13577-E S**

Duplicate option "*aa...aa*"

Preprocess option "*aa...aa*" was specified more than once.

*aa...aa*: Preprocess option that caused the error

S: Terminates processing.

P: Correct the preprocess option and then re-execute the preprocessor.

**KFPZ13580-E S**

File "*aa...aa*" not found

Specified UAP source file "*aa...aa*" was not found.

*aa...aa*: File name

S: Terminates processing.

P: Correct the file name and re-execute the preprocessor.

**KFPZ13584-E S**

Read error occurred on file "*aa...aa*", *errno=bb*

An error occurred while reading the specified UAP source file "*aa...aa*".

*aa...aa*: File name

*bb*: Error number

S: Terminates processing.

P: Check the value of the error indicator, refer to `errno.h` and to the applicable OS manual to eliminate the cause of the error, then re-execute.

**KFPZ13586-E S**

Invalid file name file "*aa...aa*"

Specified file name "*aa....aa*" is invalid.

*aa....aa*: File name

S: Terminates processing.

P: Refer to the system message to eliminate the cause of the error, and then re-execute the preprocessor.

**KFPZ13600-E S**

END DECLARE SECTION missing

End of program was detected before END DECLARE SECTION.

S: Terminates processing.

P: Specify END DECLARE SECTION and re-execute the preprocessor.

**KFPZ13601-E S**

BEGIN DECLARE SECTION missing

BEGIN DECLARE SECTION is missing.

S: Terminates processing.

P: Specify BEGIN DECLARE SECTION and re-execute the preprocessor.

**KFPZ13602-E S**

SQL statement not found after EXEC SQL

No SQL statement follows EXEC SQL.

S: Ignores this EXEC SQL and resumes processing.

P: Specify an SQL statement and re-execute the preprocessor.

**KFPZ13603-E S**

WORKING-STORAGE SECTION missing

WORKING-STORAGE SECTION is missing. Or, a work area required for execution cannot be generated.

S: Terminates processing.

P: Specify WORKING-STORAGE SECTION and re-execute the preprocessor.

**KFPZ13610-E S**

Incomplete data description

Variable definition is incomplete.

S: Ignores this variable definition statement and resumes processing.

P: Correct the variable definition and re-execute the preprocessor.

**KFPZ13611-E S**

Incorrect margin used for EXEC SQL

Invalid null character string was detected before or after EXEC SQL.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute the preprocessor.

**KFPZ13612-E S**

Invalid string "*aa...aa*" before EXEC SQL

Character string "*aa...aa*" was detected before EXEC SQL.

*aa...aa*: Character string detected before EXEC SQL

S: Ignores this character string and resumes processing.

P: Either delete the character string preceding EXEC SQL or use two lines to specify the information and re-execute the preprocessor.

**KFPZ13635-E S**

SQL object not generated

Post source cannot be generated.

S: Terminates processing.

P: Refer to the system message to eliminate the cause of the error, and then re-execute the preprocessor.

**KFPZ13706-E S**

Open error occurred on file "*aa...aa*", *errno=bb*

A file open error occurred.

*aa...aa*: Name of the file resulting in the error

*bb*: Error number

S: Resumes processing, but does not output data to the corresponding file.

P: Check the value of the error indicator, refer to `errno.h` and to the applicable OS manual to eliminate the cause of the error, then re-execute.

**KFPZ13707-E S**

Write error occurred on file "*aa...aa*", *errno=bb*

A file write error occurred.

*aa...aa*: Name of the file resulting in the error

*bb*: Error number

S: Terminates processing.

P: Check the value of the error indicator, refer to `errno.h` and to the applicable OS manual to eliminate the cause of the error, then re-execute.

**KFPZ13708-E S**

Too long line in user program

The length of a line in the UAP exceeds 32,000 bytes.

S: Terminates processing.

P: Divide the line in which the error occurred into several lines so that the length of each line is less than the maximum length, then re-execute the preprocessor.

**KFPZ13709-E S**

Open error occurred on file *aa....aa*

The specified UAP source file could not be opened.

*aa....aa*: File name

S: Terminates processing.

P: Eliminate the cause of the error, and then retranslate the file.

**KFPZ13710-E S**

Write error occurred on file *aa....aa*

An error occurred during writing to a file.

*aa....aa*: File name

S: Terminates processing.

P: Eliminate the cause of the error, and then retranslate the file.

**KFPZ13711-E S**

Read error occurred on file "*aa....aa*"

An error occurred during reading from the specified UAP source file.

*aa....aa*: File name

S: Terminates processing.

P: Eliminate the cause of the error, and then retranslate the file.

**KFPZ13712-E S**

Security error occurred on file "*aa....aa*", reason=*bb....bb*

A security error occurred during reading from the specified UAP source file.

*aa....aa*: File name

*bb....bb*: Reason

S: Terminates processing.

P: Eliminate the cause of the error, and then retranslate the file.

**KFPZ13713-E S**

Invalid directory "*aa....aa*"

## 2. Messages

The specified directory is invalid.

*aa...aa*: Directory name

S: Terminates processing.

P: Eliminate the cause of the error, and then retranslate the file.

### **KFPZ13800-E S**

Invalid token or identifier *aa...aa*

An invalid token or identifier was specified.

*aa...aa*: Invalid token or identifier

S: Continues processing without generating post source.

P: Correct the program, and then re-execute the preprocessor.

### **KFPZ13801-E S**

Too complicated expression: stack overflow

The stack used for interpreting overflowed because an expression was too complex.

Possible causes:

- The order of the operator priorities is opposite the order of the description in many locations.
- There are too many parenthesized nesting levels.

S: Continues processing without generating post source.

P: Correct the program, and then re-execute the preprocessor.

### **KFPZ13802-E S**

Too complicated struct or union: stack overflow

The stack used for interpreting data overflowed because there were too many levels of structure or shared-item nesting.

S: Continues processing without generating post source.

P: Correct the program, and then re-execute the preprocessor.

### **KFPZ13803-E S**

Illegal declaration *aa...aa*

An error was found in the declaration of variable *aa...aa*.

*aa...aa*: Variable name

S: Continues processing without generating post source.

P: Correct the program, and then re-execute the preprocessor.



**KFPZ13804-E S**

Illegal combination of type names "*aa....aa*"

An invalid combination of type specifiers was used.

*aa....aa*: Character string specified as a type specifier

S: Continues processing without generating post source.

P: Correct the program, and then re-execute the preprocessor.

**KFPZ13805-E S**

Illegal storage-class specification "*aa....aa*"

An error was found in the storage class specification.

*aa....aa*: Character string specified as a memory storage class

S: Continues processing without generating post source.

P: Correct the program, and then re-execute the preprocessor.

**KFPZ13806-E S**

Illegal type qualifier specification "*aa....aa*"

An error was found in the type qualifier specification.

*aa....aa*: Character string specified as a type qualifier

S: Continues processing without generating post source.

P: Correct the program, and then re-execute the preprocessor.

**KFPZ13807-E S**

Unable to specify SQL statement or SQL TYPE IS declare statement in included file

Declaration of an SQL statement or an SQL TYPE IS type embedded variable cannot be specified in the include file.

S: Continues processing without generating post source.

P: Correct the program, and then re-execute the preprocessor.

**KFPZ20002-E A**

Memory shortage, inf1=*aa....aa*, inf2=*bbbb*

A memory shortage occurred.

*aa....aa*: Maintenance information 1

*bbbb*: Maintenance information 2

S: Terminates processing.

P: Terminate unneeded processes, then re-execute.

**KFPZ20003-E A**

Function sequence error for HiRDB ODBC Driver

An error was found in the sequence of the request codes.

S: Terminates processing.

P: Use the `SQLFreeStmt` function to release the statement handle being processed or disconnect the server connection.

**KFPZ20004-E A**

Environment definition Error in ODBC.INI, variable=*aa....aa*

An error was detected in the ODBC environment settings.

S: Terminates processing.

P: Set the ODBC data source and check the environment variable settings.

**KFPZ20005-W A**

Warning flag (*aa....aa*) detected

A warning flag for an SQL Communications Area (SQLWARN) was set when HiRDB was accessed.

*aa....aa*: Warning flag type (SQLWARN1 to SQLWARNF)

S: Terminates processing.

P: See the *HiRDB Version 8 SQL Reference* or the *HiRDB Version 8 UAP Development Guide* and take appropriate action.

**KFPZ20006-E A**

System call error, func=*aa....aa*, errno=*bbbb*

An error occurred in the multi-thread library.

*aa....aa*: Name of the function in which the error occurred

*bbbb*: Error code that was obtained using the `GetLastError` function (a Windows error code get function)

S: Terminates processing; returns an error code to the UAP.

P: Correct the cause of the error by referring to the `errno.h` file and the user OS manual, and then re-execute.

**KFPZ20007-E A**

HiRDB API error, func=*aa....aa*, error code=*bbbb*

An error occurred in a HiRDB API.

*aa....aa*: Name of the function in which the error occurred

*bbbb*: Return code from HiRDB API

p\_rdb\_RC\_MEMERR (-70): Insufficient memory

p\_rdb\_RC\_SIMERR (-80): Simultaneous requests under the same connection

S: Terminates processing; returns an error code to the UAP.

P: Correct the cause of the error indicated by the return code and re-execute. Contact a customer engineer if a return code other than the previous one is output in *bbbb*.

**KFPZ20999-E A**

Internal Error occurred, inf1=*aa....aa*, inf2=*bbbb*

An internal contradiction occurred in the ODBC driver.

*aa....aa*: Maintenance information 1

*bbbb*: Maintenance information 2

S: Terminates processing.

Action

Make note of the contents of this error message and contact a customer engineer.

If an error log file was output, make a backup of that file.

**KFPZ22001-E A**

Profile *aa....aa* not found, Java error class name *bb...bb*

Profile *aa....aa* could not be found.

*aa....aa*: Profile name

*bb...bb*: Error class name

S: Terminates processing.

P: Check for the specified profile, and then re-execute the command.

If this message is output when the profile was found, the profile may be corrupted.

In this case, retranslate the UAP, and then re-create the profile.

**KFPZ22002-E A**

Unable to load profile *aa....aa*

Profile *aa....aa* could not be read.

*aa....aa*: Profile name

S: Terminates processing.

P: Because the profile may be corrupted, re-create the profile, and then re-execute the command. Alternatively, because the profile may not be the profile created by the SQLJ translator in the HiRDB system, re-create the profile using the SQLJ translator of the HiRDB system, and then re-execute the command.

**KFPZ22003-E A**

Unable to convert data type *aa...aa* to *bb...bb*

A combination between which data types cannot be converted was specified.

*aa...aa*: Database type name

*bb...bb*: UAP variable type name

S: Terminates processing.

P: Re-evaluate the SQL statement or the UAP, retranslate, and then re-create the profile.

**KFPZ22004-E A**

Invalid method *aa...aa*

An invalid method was called.

*aa...aa*: Method name

S: Terminates processing.

P: *aa...aa* cannot be used by the HiRDB system. Re-evaluate UAP, and then re-execute the command.

**KFPZ22005-E A**

Unable to fetch null value into primitive data type

A null value cannot be read as a primitive data type (tried to acquire the null value data using the `get-NoNull` method).

S: Terminates processing.

P: Re-evaluate the SQL statement or UAP, retranslate, and then re-create the profile.

**KFPZ22006-E A**

No rows found in single row select

No rows were found in a single-row `SELECT` statement search.

S: Terminates processing.

P: Re-evaluate the SQL statement, and then re-execute.

**KFPZ22007-E A**

Cardinality violation in single row select

More than one row was found in a single-row `SELECT` statement search.

S: Terminates processing.

P: Re-evaluate the SQL statement, and then re-execute the command.

**KFPZ22008-E A**

Number (*aa...aa*) of items in iterator or `INTO` clause unmatched (*bb...bb*) number of select items

The number of iterator fields or the number of embedded variables in the `INTO` clause do not match the number of selected items.

*aa....aa*: Number of columns in the `ResultSet` that the UAP specifies (estimates)

*bb....bb*: Number of `ResultSet` columns

S: Terminates processing.

P: Re-evaluate the SQL statement or the iterator declaration, and then re-execute the command.

**KFPZ22009-E A**

Null connection context

The connection context is a null value.

S: Terminates processing.

P: Re-evaluate the UAP to see if the connection context is generated correctly, and then re-execute the command.

**KFPZ22010-E A**

Null execution context

The execution context is a null value.

S: Terminates processing.

P: Re-evaluate the UAP to see if the execution context is generated correctly, and then re-execute the command.

**KFPZ22011-E A**

Null JDBC connection

The JDBC connection object is a null value.

S: Terminates processing.

P: Re-evaluate the UAP to see if the JDBC connection object is generated correctly, and then re-execute the command.

**KFPZ22012-E A**

Memory shortage, size=*aa....aa*

A memory shortage occurred during execution of SQLJ.

*aa....aa*: Area length of the area that could not be allocated (in bytes)

S: Throws the `SQLException`.

P: If a `HiRDB` data type (`HiRDBCHAR`, `HiRDBVARCHAR`, `HiRDBNCHAR`, `HiRDBNVARCHAR`, `HiRDBMCHAR`, `HiRDBMVARCHAR`, `HiRDBBLOB`, `HiRDBBINARY`, or `HiRDBDECIMAL`) and `byte []` are used, review the length of the specified area. Close any unneeded processes, and then re-execute the command.

**KFPZ22013-E A**

Failed character convert.

The character code in HiRDB is a character code not available in SQLJ.

S: Throws the `SQLException`.

P: The following character codes can be used in SQLJ: SJIS (shift JIS kanji code), UJIS (EUC Japanese kanji code) LANG-C (an 8-bit code), and UTF-8. Change the character code for HiRDB, and then re-execute the command.

**KFPZ22014-E A**

Not found java or HiRDB data classes *aa....aa*.

A class of the Java data type (Short, Integer, Float, Double, String, or BigDecimal) or of the HiRDB data type (HiRDBCHAR, HiRDBVARCHAR, HiRDBNCHAR, HiRDBNVARCHAR, HiRDBMCHAR, HiRDBMVARCHAR, HiRDBDECIMAL, HiRDBBLOB, or HiRDBBINARY) is not found. Or, a class could not be loaded due to a memory shortage.

*aa....aa*: Class name

S: Throws the `SQLException`.

P: Close any unneeded processes. Check to see if SQLJ is properly installed and if the correct class path is set up, and then re-execute the command.

**KFPZ22015-E A**

Unable to allocate connection handle due to lack of memory.

The allocation of a connection handle failed due to a memory shortage.

S: Throws the `SQLException`.

P: Close any unneeded processes, and then re-execute the command. Or, check the memory environment for the execution environment, and then re-execute the command.

**KFPZ22016-E A**

Iterator *aa....aa* already defined.

When the SQLJ native interface is used, different SQL statements cannot be executed by using the same iterator object.

*aa....aa*: Iterator object name

S: Terminates processing.

P: Revise the UAP so that the iterator object used in each SELECT statement is unique, and then re-execute the translation process.

**KFPZ22017-E A**

Internal error occurred in method *aa....aa* during execution of SQLJ native interface, code=*bb....bb*.

An internal conflict occurred in the SQLJ native interface.

*aa....aa*: Name of the method for the SQL native interface in which the error was detected

*bb....bb*: Internal information

S: Throws the `SQLException`.

P: Re-execute the command after retranslating the UAP. If the error persists, notify a customer engineer.

**KFPZ22019-E A**

Invalid port number *aa....aa* for connection to HiRDB server.

The port number of the HiRDB server to be connected to is invalid. Specifiable port numbers are: 5001 through 65535.

*aa....aa*: Invalid port number

S: Throws the `SQLException`.

P: Revise the port number, translate the UAP, and then re-execute the command.

**KFPZ23000-E S**

Parentheses missing

Parentheses or brackets ( ( ), [ ], or { }) were not coded at a required position.

S: Terminates processing.

P: Correct the program, and then preprocess again.

**KFPZ23001-E S**

Equal symbol missing

The equal sign (=) was not coded at a required position.

S: Terminates processing.

P: Correct the program, and then preprocess again.

**KFPZ23002-E S**

Invalid expression in user program

There is an invalid expression in the program that is not inside a #SQL clause.

S: Terminates processing.

P: Correct the program, and then preprocess again.

**KFPZ23003-E S**

Invalid word "*aa....aa*" in user program

There is an invalid word in the program that is not inside a #SQL clause.

*aa....aa*: Invalid word

## 2. Messages

S: Terminates processing.

P: Correct the program, and then preprocess again.

### **KFPZ23004-E S**

Invalid named iterator *aa...aa*

The definition of the named iterator is invalid.

*aa...aa*: Iterator name

S: Terminates processing.

P: Correct the program, and then preprocess again.

### **KFPZ23005-E S**

Duplicate withkey *aa...aa*

A WITH clause was specified more than once.

*aa...aa*: Keyword of the WITH statement

S: Terminates processing.

P: Correct the program, and then preprocess again.

### **KFPZ23006-E S**

Invalid data type *aa...aa*

A data type that cannot be used was specified.

*aa...aa*: Data type name

S: Terminates processing.

P: Correct the program, and then preprocess again.

### **KFPZ23007-E S**

Unclosed Parentheses

Parentheses or brackets ( ( ), [ ], { } ) were not closed.

S: Terminates processing.

P: Correct the program, and then preprocess again.

### **KFPZ23008-E S**

Dot missing

A dot (.) is not coded at a required position.

S: Terminates processing.

P: Correct the program, and then preprocess again.

### **KFPZ23009-E S**

Duplicate field definition *aa...aa*



A field was defined more than once.

*aa...aa*: Field name

S: Terminates processing.

P: Correct the program, and then preprocess again.

**KFPZ23010-E S**

No field in positioned iterator

No field is defined in an unnamed iterator.

S: Terminates processing.

P: Correct the program, and then preprocess again.

**KFPZ23011-E S**

Identifier missing

No identifier is coded at a required position.

S: Terminates processing.

P: Correct the program, and then preprocess again.

**KFPZ23012-E S**

INTO clause missing

No INTO clause is coded.

S: Terminates processing.

P: Correct the program, and then preprocess again.

**KFPZ23013-E S**

Invalid SQLJ statement

An error was found in the SQLJ statement.

S: Terminates processing.

P: Correct the program, and then preprocess again.

**KFPZ23014-E S**

Too many execution contexts for one SQL statement

Multiple execution contexts were specified for a single SQL statement.

S: Terminates processing.

P: Correct the program, and then preprocess again.

**KFPZ23015-E S**

Too many connection contexts for one SQL statement

Multiple connection contexts were specified for a single SQL statement.

## 2. Messages

S: Terminates processing.

P: Correct the program, and then preprocess again.

### **KFPZ23016-E S**

Duplicate class definition *aa....aa*

The class was defined more than once.

*aa....aa*: Class name

S: Terminates processing.

P: Correct the program, and then preprocess again.

### **KFPZ23017-E S**

Unclosed quotation

A single or double quotation mark pair (' or ") enclosing a character string literal were not closed.

S: Terminates processing.

P: Correct the program, and then preprocess again.

### **KFPZ23100-E S**

Invalid SQLJ statement declared

The description of the SQLJ statement is invalid.

S: Terminates processing.

P: Correct the program, and then preprocess again.

### **KFPZ23101-E S**

Unable to identify class *aa....aa*

Class *aa....aa* could not be identified.

*aa....aa*: Class name

S: Terminates processing.

P: Correct the program, and then preprocess again.

### **KFPZ23102-E S**

Not Array type *aa....aa*

*aa....aa* is not an array type.

*aa....aa*: Data type name

S: Terminates processing.

P: Correct the program, and then preprocess again.

### **KFPZ23103-E S**

Unable to identify constructor *aa....aa*

A constructor could not be identified.

*aa....aa*: Constructor name

S: Terminates processing.

P: Correct the program, and then preprocess again.

**KFPZ23104-E S**

Unable to identify field *aa....aa*

Field *aa....aa* could not be identified.

*aa....aa*: Field name

S: Terminates processing.

P: Correct the program, and then preprocess again.

**KFPZ23105-E S**

Unable to identify method *aa....aa*

A method could not be identified.

*aa....aa*: Method name

S: Terminates processing.

P: Correct the program, and then preprocess again.

**KFPZ23106-E S**

Numeric operands required

The operand type is not numeric.

S: Terminates processing.

P: Correct the program, and then preprocess again.

**KFPZ23107-E S**

Array index requires numeric type

A data type other than numeric is specified in the array subscript.

S: Terminates processing.

P: Correct the program, and then preprocess again.

**KFPZ23108-E S**

Invalid data type of operand for cast operator

An invalid data type was specified in the operand of the cast operator.

S: Terminates processing.

P: Correct the program, and then preprocess again.

**KFPZ23109-E S**

Invalid data type of operand for equality operator

The data type in the operand for the equality operator is invalid.

S: Terminates processing.

P: Correct the program, and then preprocess again.

**KFPZ23110-E S**

Invalid data type of operand for boolean or numeric operator

An invalid data type for a numeric operator or Boolean operator is specified in the operand.

S: Terminates processing.

P: Correct the program, and then preprocess again.

**KFPZ23111-E S**

Invalid data type of operand for boolean operator

An invalid data type for a Boolean operator is specified in the operand.

S: Terminates processing.

P: Correct the program, and then preprocess again.

**KFPZ23112-E S**

Invalid data type of operand for comparison operator

An invalid data type for a comparison operator is specified in the operand.

S: Terminates processing.

P: Correct the program, and then preprocess again.

**KFPZ23113-E S**

Invalid data type of operand for complement operator

An invalid data type for a complement operator is specified in the operand.

S: Terminates processing.

P: Correct the program, and then preprocess again.

**KFPZ23114-E S**

Invalid data type of operand for conditional operator

An invalid data type for the conditional operator is specified in the operand.

S: Terminates processing.

P: Correct the program, and then preprocess again.

**KFPZ23116-E S**

Constructor undefined

The constructor was not defined.

S: Terminates processing.

P: Correct the program, and then preprocess again.

**KFPZ23117-E S**

Field *aa....aa* not accessible

A field could not be accessed.

*aa....aa*: Field name

S: Terminates processing.

P: Re-evaluate the program, taking note of the variable qualifier, and then preprocess again.

**KFPZ23118-E S**

Invalid data type of operand for increment/decrement operator

An invalid data type was specified in an increment operator or a decrement operator operand.

S: Terminates processing.

P: Correct the program, and then preprocess again.

**KFPZ23119-E S**

Invalid data type of operand for instanceof operator

An invalid data type was specified in an instanceof operator operand.

S: Terminates processing.

P: Correct the program, and then preprocess again.

**KFPZ23121-E S**

Method not accessible

An invalid method is specified.

S: Terminates processing.

P: Re-evaluate the program, taking note of the method qualifier, and then preprocess again.

**KFPZ23122-E S**

Method *aa....aa* undefined

A method is not defined.

*aa....aa*: Method name

S: Terminates processing.

P: Correct the program, and then preprocess again.

## 2. Messages

### **KFPZ23123-E S**

Invalid identifier *aa...aa*

An invalid identifier was found.

*aa...aa*: Identifier

S: Terminates processing.

P: Correct the program, and then preprocess again.

### **KFPZ23124-E S**

Invalid data type of operand for negation operator

The data type of a negation operator operand is invalid.

S: Terminates processing.

P: Correct the program, and then preprocess again.

### **KFPZ23125-E S**

Invalid data type of operand for shift operator

The data type of a shift operator operand is invalid.

S: Terminates processing.

P: Correct the program, and then preprocess again.

### **KFPZ23126-E S**

Invalid data type of operand for sign operator

The data type of a sign operator operand is invalid.

S: Terminates processing.

P: Correct the program, and then preprocess again.

### **KFPZ23127-E S**

Token *aa...aa* unexpected

An unexpected token was coded.

*aa...aa*: Token

S: Terminates processing.

P: Correct the program, and then preprocess again.

### **KFPZ23128-E S**

Undefined identifier *aa...aa*

An identifier not specified in the system was specified.

*aa...aa*: Identifier

S: Terminates processing.

P: Correct the program, and then preprocess again.

**KFPZ23130-E S**

Undefined target type in cast expression *aa...aa*

The data type that a cast expression targets is undefined.

*aa...aa*: Name of data type and class name to cast

S: Terminates processing.

P: Correct the program, and then preprocess again.

**KFPZ23132-E S**

Initiarization lists unexpected

An initial value is described in an invalid location.

S: Terminates processing.

P: Correct the program, and then preprocess again.

**KFPZ23136-E S**

Invalid SQLJ declaration

The SQLJ declaration statement is invalid.

S: Terminates processing.

P: Correct the program, and then preprocess again.

**KFPZ23137-E S**

Invalid SQLJ Iterator declaration

The declaration of the iterator is invalid.

S: Terminates processing.

P: Correct the program, and then preprocess again.

**KFPZ23138-E S**

Incomplete file

The UAP file is incomplete.

S: Terminates processing.

P: Correct the program, and then preprocess again.

**KFPZ23139-E S**

Invalid expression

The #SQL clause expression is invalid.

S: Terminates processing.

P: Correct the program, and then preprocess again.

**KFPZ23140-E S**

Invalid IN/OUT mode for INTO variables

An error was found in the specification of the IN/OUT mode of the embedded variable specified in the INTO clause.

S: Terminates processing.

P: Correct the program, and then preprocess again.

**KFPZ23141-E S**

Incomplete SQLJ statement

The SQLJ statement is incomplete.

S: Terminates processing.

P: Correct the program, and then preprocess again.

**KFPZ23142-E S**

Invalid token *aa....aa*

An invalid token was coded.

*aa....aa*: Word

S: Terminates processing.

P: Correct the program, and then preprocess again.

**KFPZ23143-E A**

Invalid data length *aa....aa*

The length of a specified area is invalid.

*aa....aa*: Length of a specified area

S: Throws the `SQLException`.

P: Review the length, precision, and scale of the area specified in a `HiRDB` data type (`HiRDBCHAR`, `HiRDBVARCHAR`, `HiRDBNCHAR`, `HiRDBNVARCHAR`, `HiRDBMCHAR`, `HiRDBMVARCHAR`, `HiRDBBLOB`, `HiRDBBINARY`, or `HiRDBDECIMAL`).

**KFPZ24000-E A**

Invalid `CommandTimeout` property, please specify zero or more.

A negative value is assigned to the `CommandTimeout` property of the `HiRDBCommand` class.

S: Terminates processing.

P: Specify a value greater than or equal to 0.

**KFPZ24001-E A**

Invalid `Connection` property.

One of the following methods is executed in the `Connection` property of the



HiRDBCommand class without assigning a HiRDBConnection class object: ExecuteNonQuery, ExecuteReader, ExecuteScalar, or Prepare method.

S: Terminates processing.

P: Assign the Connection property, and then execute the command.

**KFPZ24002-E A**

Prepare method performed before connection opened.

The Prepare method of the HiRDBCommand class is executed when the Open method of the HiRDBConnection class is not executed.

S: Terminates processing.

P: Open the connection to make it available.

**KFPZ24003-E A**

Invalid value of ArraySize property.

The argument ArraySize of the ExecuteNonQuery method in the HiRDBCommand class is 0 or less. Or, the argument value does not match the number of array data points assigned to the Value property of the HiRDBParameter class.

S: Terminates processing.

P: Make sure that ArraySize matches the number of array elements.

**KFPZ24004-E A**

Method for execution performed before connection opened.

One of the following methods in the HiRDBCommand class is executed when the Open method of the HiRDBConnection is not executed: ExecuteNonQuery, ExecuteReader, or ExecuteScalar method.

S: Terminates processing.

P: Open the connection to make it available.

**KFPZ24005-E A**

Invalid CommandText property.

When the CommandText property of the HiRDBCommand class is empty, one of the following methods in the class is being executed: Prepare, ExecuteNonQuery, ExecuteReader, or ExecuteScalar method.

S: Terminates processing.

P: Assign the SQL statement to be executed to the CommandText property.

**KFPZ24006-E A**

Invalid Transaction property.

When a transaction is being executed and the Transaction property in the HiRDBCommand class is null, one of the following methods in the class is being

executed: ExecuteNonQuery, ExecuteReader, or ExecuteScalar method.

S: Terminates processing.

P: Set the Transaction property.

**KFPZ24007-E A**

Unsupported value specified for property of `HiRDBCommand` class.

When `ReturnValue` is specified in the `Direction` property of the `HiRDBParameter` class, one of the following methods in the `HiRDBCommand` class is being executed: `ExecuteNonQuery`, `ExecuteReader`, `ExecuteScalar`, or `Prepare` method. Or, `Both/FirstReturnedRecord` is specified in the `UpdateRowSource` property.

S: Terminates processing.

P: This value is not supported; another value should be specified.

**KFPZ24008-E A**

Unable to change `ConnectionString` property during connection opened.

When a connection is on, the `ConnectionString` property of the `HiRDBConnection` class is modified.

S: Terminates processing.

P: The property should be assigned when the connection is closed.

**KFPZ24009-E A**

Unable to change `Pooling` property during connection opened.

When a connection is on, the `Pooling` property of the `HiRDBConnection` class is modified.

S: Terminates processing.

P: The property should be assigned when the connection is closed.

**KFPZ24010-E A**

Unable to change `LifeTime` property during connection opened.

When a connection is on, the `LifeTime` property of the `HiRDBConnection` class is modified.

S: Terminates processing.

P: The property should be assigned when the connection is closed.

**KFPZ24011-E A**

`BeginTransaction` method performed before connection opened.

The `BeginTransaction` method of the `HiRDBConnection` class is being executed when the `Open` method of the `HiRDBConnection` class is not executed (when the

connection is closed).

S: Terminates processing.

P: Open the connection to make it available.

**KFPZ24012-E A**

Transaction already executed.

The `BeginTransaction` method of the `HiRDBConnection` class is being executed when the transaction has already been executed.

S: Terminates processing.

P: The transaction has already been executed; the method should not be executed (parallel transactions cannot be used).

**KFPZ24013-E A**

`ChangeDatabase` method performed before connection opened.

The `ChangeDatabase` method of the `HiRDBConnection` class is being executed when the `Open` method of the `HiRDBConnection` class is not executed (when the connection is closed).

S: Terminates processing.

P: Open a connection to make it available (the `ChangeDatabase` method cannot be used).

**KFPZ24014-E A**

Connection already opened.

The `Open` method of the `HiRDBConnection` class is being executed when the connection is already open.

S: Terminates processing.

P: The connection is already open; the method should not be executed.

**KFPZ24015-E A**

`SchemaTable` method performed before record opened.

The `GetSchemaTable` method is executed when the `IsClosed` property of the `HiRDBDataReader` class is `true`.

S: Terminates processing.

P: Execute the `HiRDBDataReader` method of the `HiRDBCommand` class, open the record, and then execute the method.

**KFPZ24016-E A**

`NextResult` method performed before record opened.

The `NextResult` method is executed when the `IsClosed` property of the `HiRDBDataReader` class is `true`.

S: Terminates processing.

P: Execute the `HiRDBDataReader` method of the `HiRDBCommand` class, open the record, and then execute the method.

**KFPZ24017-E A**

Record method performed before record opened.

The `Read` method is executed when the `IsClosed` property of the `HiRDBDataReader` class is `true`.

S: Terminates processing.

P: Execute the `ExecuteReader` method of the `HiRDBCommand` class, open the record, and then execute the method.

**KFPZ24018-E A**

Unable to specify method for cast due to null value.

An attempt is made to acquire null data by using one of the following methods in the `HiRDBDataReader` class: `GetBoolean`, `GetByte`, `GetBytes`, `GetChar`, `GetChars`, `GetDateTime`, `GetDecimal`, `GetDouble`, `GetFloat`, `GetInt16`, `GetInt32`, `GetInt64`, or `GetString` method.

S: Terminates processing.

P: Acquire null data by using the `GetValue` method of the `HiRDBDataReader` class.

**KFPZ24019-E A**

Invalid value for column number of methods in `HiRDBDataReader` class.

Because an invalid column number has been used, one of the following methods in the `HiRDBDataReader` class is being executed: `GetBoolean`, `GetByte`, `GetBytes`, `GetChar`, `GetChars`, `GetDataTypeName`, `GetDateTime`, `GetDecimal`, `GetDouble`, `GetFieldType`, `GetFloat`, `GetInt16`, `GetInt32`, `GetInt64`, `GetName`, `GetString`, `GetValue`, `IsDBNull`, or `GetFieldArrayCount` method.

S: Terminates processing.

P: Check the column number, and execute the method.

**KFPZ24020-E A**

Invalid column name specified in `GetOrdinal` method.

The `GetOrdinal` method of the `HiRDBDataReader` class is being executed by specifying an invalid column name.

S: Terminates processing.

P: Check the column name, and execute the method.

**KFPZ24021-E A**

Invalid parameter name specified in method of `HiRDBParameterCollection` class.

Either the `IndexOf` or `RemoveAt` method of the `HiRDBParameterCollection` class is executed by specifying an invalid parameter name.

S: Terminates processing.

P: Check the parameter name, and execute the method.

**KFPZ24022-E A**

Unable to perform `Commit` method or `Rollback` method, because transaction already terminated.

Either the `Commit` or `Rollback` method of the `HiRDBTransaction` class is being executed when the transaction is complete.

S: Terminates processing.

P: The transaction is already complete; the method should not be executed.

**KFPZ24023-E A**

Invalid `DataAdapter` property.

When the `DataAdapter` property of the `HiRDBCommandBuilder` class is not yet set, one of the following methods is executed: `GetDeleteCommand`, `GetInsertCommand`, `GetUpdateCommand`, or `RefreshSchema` method.

S: Terminates processing.

P: Set and execute the `DataAdapter` property.

**KFPZ24024-E A**

Invalid `SelectCommand` property of `HiRDBDataAdapter` class object.

When the `SelectCommand` property of the `DataAdapter` object of the `HiRDBCommandBuilder` class is not yet set, one of the following methods is executed: `GetDeleteCommand`, `GetInsertCommand`, `GetUpdateCommand`, or `RefreshSchema` method.

S: Terminates processing.

P: Set the `SelectCommand` property of the `DataAdapter` object, and then execute the method.

**KFPZ24025-E A**

Unable to specify `Null` for specified property or argument.

`null` is specified in a property, constructor argument, or method argument for which `null` cannot be specified.

S: Terminates processing.

P: Specify a non-null value.

**KFPZ24026-E A**

Specified value not convertible into HiRDB Type *aa...aa*

A value that cannot be converted into the type specified in the `HiRDBType` property of the *aa...aa*-th `HiRDBParameter` class is specified in the `Value` property.

*aa...aa*: Parameter number

S: Terminates processing.

P: In the `Value` property, specify either the value of a convertible type or the value of the type specified in the `HiRDBType` property.

**KFPZ24027-E A**

Missing Specification of table name in `HiRDBAdapter.Update` method.

No table name is specified in `HiRDBAdapter.Update` method processing.

S: Terminates processing.

P: Specify a table name in `HiRDBAdapter.Update` method processing.

**KFPZ24028-E A**

Invalid value for `Size` property in `HiRDBParameter` class.

An invalid value was set for the `Size` property of the `HiRDBParameter` class.

S: Terminates processing.

P: Set a valid value for the `Size` property.

**KFPZ24100-E A**

Invalid connection string.

An invalid connection string argument was specified. Or, the required connection string argument is not specified.

S: Terminates processing.

P: Check the connection string, and then execute the command.

**KFPZ24101-E A**

Unable to allocate connection handle due to lack of memory.

Allocation of a connection handle failed due to a memory shortage.

S: Terminates processing.

P: Check the available memory for the execution environment.

**KFPZ24102-E A**

Unable to release connection handle due to lack of memory.

Release of a connection handle failed due to a memory shortage.

S: Terminates processing.

P: Check the available memory for the execution environment.

**KFPZ24103-E A**

Connection handle not allocated.

A connection handle is not allocated.

S: Terminates processing.

P: Allocate a connection handle.

**KFPZ24104-E A**

Error occurred in environment variable for connection.

An error occurred when an environment variable was being set.

S: Terminates processing.

P: Check the environment variable, and then execute the command.

**KFPZ24105-E A**

Too many SQL prepared and executed concurrently.

There are too many SQL statements that are being prepared or executed concurrently.

S: Terminates processing.

P: Increase the maximum value for section numbers (default: SECTION\_MAX = 4095).

**KFPZ24106-E A**

Invalid value for input ? parameter of DATETIME or INTERVAL data type.

The format of the value specified in the input ? parameter of the date, time, date interval, or time interval type is invalid.

S: Terminates processing.

P: Specify a valid character string representation value for a specified date, time, date interval, or time interval type.

**KFPZ24107-E A**

Overflow error occurred for input ? parameter of DECIMAL or DATETIME or INTERVAL data type.

An overflow occurred during the type conversion of the value of the input ? parameter of Decimal, date, time, date interval, or time interval type.

S: Terminates processing.

P: Assign the value of a date, time, date interval, or time interval type with an appropriate character string representation.

**KFPZ24108-E A**

Unknown type specified in DbType property.

## 2. Messages

An unavailable data type was specified in the `DbType` property of the `HiRDBParameter` class.

S: Terminates processing.

P: The type should be checked and assigned.

### **KFPZ24109-E A**

Unsupported type specified in `DbType` property.

One of the following types is specified in the `DbType` property of the `HiRDBParameter` class: `Boolean`, `Currency`, `Guid`, or `VarNumeric`.

S: Terminates processing.

P: These types, which are unsupported, cannot be used; another value should be specified.

### **KFPZ24110-E A**

Unmappable character appeared in conversion to UTF8.

Character codes that cannot be converted to UTF8 codes were included.

S: Terminates processing.

P: Use UTF8 characters.

### **KFPZ30001-I S**

Usage: `pdtrcmgr -d pathname [-b|-e] [-k { [s] [u] [p] [r] | [a] }]`  
`[-n uapname] [-s size] [-o]`

Displays the specification format of the `pdtrcmgr` trace acquisition command.

S: Continues processing.

P: Specify the `pdtrcmgr` command correctly and re-execute.

### **KFPZ30002-E S**

Command option error, option=*a*, reason=*bb...bb*

Option specification is invalid.

*a*: Option specified incorrectly

*bb...bb*: Reason:

NOT TARGET: No target argument exists.

OUT OF RANGE: Specifiable range has been exceeded.

NO OPTION: Required option is missing.

INVALID CHAR: Invalid character is used.

ALREADY USED: Already being used

S: Terminates processing.



P: Correct the error and re-execute.

**KFPZ30003-E S**

End Request failed, pathname=*aa....aa*, *bb...bb*

The SQL trace output request cannot be stopped because the files used by the system could not be deleted.

*aa....aa*: Path name with the error (last 30 bytes only if the name is longer than 30 bytes)

*bb...bb*: Error cause or error number:  
{ reason=*cc....cc* |errno=*dd....dd* }

*cc....cc*: Error cause:

INVALID PATH: Invalid path name

PERMISSION DENIED: Permission error

*dd....dd*: Error number

S: Terminates processing.

P: Correct the error and re-execute.

- If the error cause is INVALID PATH, the specified path name may be incorrect or a trace acquisition request may have not been entered.
- If the error cause is PERMISSION DENIED, the permission for the specified path may not be valid.
- If an error number is displayed, refer to `errno.h`.

**KFPZ30004-E S**

Begin request failed, pathname=*aa....aa*, func=*bb...bb*, *cc....cc*

The SQL trace output request cannot be started because files to be used by the system could not be created (updated).

*aa....aa*: Path name with the error (last 30 bytes only if the name is longer than 30 bytes)

*bb...bb*: Name of the function in which the error occurred:  
{ `fopen`|`fclose` }

*cc....cc*: Error cause or error number:  
{ reason=*dd....dd* |errno=*ee....ee* }

*dd....dd*: Error cause:

INVALID PATH: Invalid path name

PERMISSION DENIED: Permission error

FILE TABLE OVERFLOW: Overflow  
TOO MANY OPEN FILES: Open control over

*ee....ee*: Error number

S: Terminates processing.

P: Correct the error and re-execute.

- If the error cause is `INVALID PATH`, the specified path name may be incorrect or a trace acquisition request may have not been entered.
- If the error cause is `PERMISSION DENIED`, the permission for the specified path may not be valid.
- If an error number is displayed, refer to `errno.h`.

**KFPZ30005-E S**

Trace information file error, *pathname=aa....aa*, *func=bb....bb*,  
*errno=cc....cc*

The SQL trace cannot be output because the trace information file (`.#pdtrc`) cannot be opened or closed.

*aa....aa*: Path name with the error (last 30 bytes only if the name is longer than 30 bytes)

*bb....bb*: Name of the function in which the error occurred: {`fopen|fclose`}

*cc....cc*: Error number

S: Terminates processing.

P: Correct the error based on the path name, function name, and error number, and then re-execute. For the error numbers, refer to `errno.h`.

**KFPZ40001-I E**

Usage:`pdclttrc [-s server_name] [-p process_id] [-e] [-l PDUAPREPLVL_values] [-m ?parameter_max_data_size] [-n number_of_output_operation_codes] [-o sqltrace_file_size]`

A `pdclttrc` command option is specified in invalid format.

S: Terminates processing.

O: Revise the option specification format, and then re-execute the command.

**KFPZ40002-W S**

`-l` option ignored, because `server_process` performing memory communication, *server\_name=aa....aa*, *process\_id=bb....bb*

The server process is conducting memory communications; any specification of the `-l` option is ignored.

*aa....aa*: Server name

*bb....bb*: Server process ID

S: Continues processing.

**KFPZ40003-E S**

Server\_process already executed for pdclttrc command,  
server\_name=*aa....aa*, process\_id=*bb....bb*

The server process is already dynamically acquiring SQL traces.

*aa....aa*: Server name

*bb....bb*: Server process ID

S: Terminates processing.

O: To re-execute, terminate the acquisition of SQL traces.

**KFPZ40004-E S**

Server\_process not connected with client, server\_name=*aa....aa*,  
process\_id=*bb....bb*

The server process is not connected to a client.

*aa....aa*: Server name

*bb....bb*: Server process ID

S: Terminates processing.

O: Specify a server process that is connected to a client.

**KFPZ40005-E E**

Specified server\_process not exist, server\_name=*aa....aa*,  
process\_id=*bb....bb*

The specified server process does not exist.

*aa....aa*: Server name

*bb....bb*: Server process ID

S: Terminates processing.

O: Specify a server process that exists.



## Chapter

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# 3. ABORT Codes

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This chapter explains the causes of ABORT codes (abnormal termination cause codes) and the actions to be taken.

### 3.1 ABORT Codes

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## 3.1 ABORT Codes

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It includes the following lists of abort codes:

- Table 3-1 ABORT codes PaXXXXX
- Table 3-2 ABORT codes PbXXXXX
- Table 3-3 ABORT codes PdXXXXX
- Table 3-4 ABORT codes PeXXXXX
- Table 3-5 ABORT codes PhXXXXX
- Table 3-6 ABORT codes PkXXXXX
- Table 3-7 ABORT codes PoXXXXX
- Table 3-8 ABORT codes PrXXXXX
- Table 3-9 ABORT codes PsXXXXX
- Table 3-10 ABORT codes PtXXXXX
- Table 3-11 ABORT codes PuXXXXX
- Table 3-12 ABORT codes PwXXXXX
- Table 3-13 ABORT codes PxXXXXX
- Table 3-14 ABORT codes PyXXXXX
- Table 3-15 ABORT codes PiXXXXX

*Table 3-1:* ABORT codes PaXXXXX

ABORT Code	Cause	Action
Pab1001	Allocation of <code>combuf</code> communication field failed for one of the following reasons: <ul style="list-style-type: none"> <li>• Allocation of communication field or header failed.</li> <li>• Requested size was invalid.</li> </ul>	Back up all files in <code>%PDDIR%\spool</code> and contact a customer engineer.
Pab1005	Value returned from the dic manager was invalid for because the table ID lock failed.	

ABORT Code	Cause	Action
Pab1113	Transmission of SQL object transfer request information failed during normal communication.	Check the error cause from the error message that was output before processing was aborted, take appropriate action, then re-execute. This error may occur when the workload at the destination (FES, BES, DIC) is high. In such a case, reduce the workload at the destination. This abort code can also be generated by an SQL object buffer shortage, in which case increase the value of the <code>pd_sql_object_cache_size</code> operand of the system definition or server definition. This error can also occur if the execution of the <code>pdcancel</code> command eliminates the transmission destination server process.
Pab1114	Reception of SQL object transfer request information failed during normal communication.	Check the error cause from the error message that was output before processing was aborted, take appropriate action, then re-execute. This error may occur when the workload at the destination (FES) is high. In such a case, reduce the workload at the destination.
Pab1500	Invalid object was transferred from the front-end server. When HiRDB is operated in a multi-FES environment, this error may occur if the number of FES processes is greater than the number of individual BES processes (value of <code>pd_max_bes_process</code> in server definition).	Back up all files in <code>%PDDIR%\spool</code> and contact a customer engineer.
Pab1501	SQL object transfer failed. • Transaction was terminated at the front-end server due to an error.	Check the error cause from the error message that was output before processing was aborted, take appropriate action, then re-execute.
Pab1502	A conflict was detected during SQL object transfer processing using the routine.	Back up all files in <code>%PDDIR%\spool</code> and contact a customer engineer.
Pab2001	Thread suspense lock failed.	
Pab2002	Release of thread suspense lock failed.	
Pab2003	Resource lock failed.	Correct the error that occurred in object creation and object transfer processing and re-execute.

### 3. ABORT Codes

<b>ABORT Code</b>	<b>Cause</b>	<b>Action</b>
Pab2004	Release of resource lock failed.	Back up all files in %PDDIR%\spool and contact a customer engineer.
Pab2010	Lock control on SQL object management information using the routine failed.	
Pab2011	Release of lock control on SQL object management information using the routine failed.	
Pab2012	Lock control on SQL object get management information using the routine failed.	Check the error cause from the error message that was output before the processing was aborted, take corrective action, and then re-execute.
Pab2013	Release of lock control on SQL object get management information using the routine failed.	Back up all files in %PDDIR%\spool and contact a customer engineer.
Pab2350	Length of module requested for release is invalid.	
Pab2351	Address of module requested for release is invalid.	
Pab2352	Information returned from dic to sqa is invalid.	
Pab2353	Length of module requested for allocation is invalid.	
Pac1001	A connect request was rejected by the dictionary manager, but rpc chain cannot be disconnected.	
Pac2001	Return code of dbh function call is invalid. (p_f_dbh_drop_list)	
Pac2004	0 was specified for pd_max_access_tables.	
Pac2008	Lock control on user management information failed.	Check the error cause from the error message that was output before processing was aborted, take corrective action, and then re-execute.



<b>ABORT Code</b>	<b>Cause</b>	<b>Action</b>
Pac2009	Release of lock control on user management information failed.	Back up all files in %PDDIR%\spool and contact a customer engineer.
Pac2050	Output outthead length is invalid for RPC from client.	
Pac2051	SQL to be executed without creating an SQL object (definition SQL) has an invalid SQL object.	
Pac2052	Requested static compilation has the same section number as the already compiled dynamic SQL. Or, requested dynamic compilation has the same section number as the already compiled static SQL.	
Pac2053	Number of p_code's obtained from optimization processing (zipsnc1s) is invalid ( $\leq 0$ ).	
Pac2054	Parameter is invalid in a statistics log acquisition request (log address is 0, log size is 0).	
Pac2055	Process private area necessary for SQL execution cannot be allocated.	Reduce the number of resident processes in the server for which this message was output.
Pac2056	Input data format is invalid for RPC from client (offset count is 0, sqlioa offset is 0).	Back up all files in %PDDIR%\spool and contact a customer engineer.
Pac2352	Return code of DIC function call is invalid. (p_f_dic_freecache)	

3. ABORT Codes

ABORT Code	Cause	Action
Pac2354	<p>Check the error message that was output before the abort (the error indicated in this message) occurred. If an error message was not output before the abort, the following causes can be suspected:</p> <ul style="list-style-type: none"> <li>• When a UAP under OLTP is the client and the multi-connection facility is used in a HiRDB server that does not support the multi-connection facility: within a single transaction branch under OLTP, an SQL statement was executed using different connection handles on the same HiRDB.</li> <li>• The upper limit on the number of transactions that can be executed concurrently was exceeded. It is possible that transactions that cannot be committed or rolled back in the system are waiting for settlement.</li> <li>• A temporary memory shortage occurred.</li> <li>• The upper limit on the number of files that can be opened concurrently has been reached.</li> </ul>	<p>Check the cause of the problem based on the error message that was output before the abort. If an error message was not output before the abort, take one of the following actions:</p> <ul style="list-style-type: none"> <li>• Within a single transaction branch under OLTP, different connection handles cannot be used on the same HiRDB. One of the following actions should be taken: <ul style="list-style-type: none"> <li>• Check to see whether the HiRDB server supports the multi-connection facility.</li> <li>• Check the UAP processing method.</li> </ul> </li> <li>• Execute the <code>pdls -d trn</code> command. If a transaction with a value greater than or equal to <code>pd_max_users</code> is indicated, wait awhile, and then re-execute the command. To provide for the possibility that the error cannot be recovered, prepare to settle the transactions by using either the <code>pdcmr</code> or <code>pdbrk</code> command.</li> <li>• Wait awhile, and then re-execute the command.</li> <li>• Review the upper limit on the number of files that can be opened in a process. Also review the kernel parameter if necessary. If the problem persists after the above actions are taken, save the information to be acquired in the event of an error, and contact a customer engineer. The information to be acquired in the event of an error includes the files under <code>%PDDIR%\spool</code> and <code>%PDDIR%\tmp</code>, the event log (in UNIX, syslogfile), and standard error output.</li> </ul>

<b>ABORT Code</b>	<b>Cause</b>	<b>Action</b>
Pac2355	Internal conflict occurred in the controller.	Back up all files in %PDDIR%\spool and contact a customer engineer.
Pac2358	Shared memory size (module pool) to be allocated is invalid.	
Pac2359	Characters type code is invalid.	
Pac2360	Execution with a section number not found in the object was requested during stored procedure execution.	
Pac2361	An operation code that cannot be executed was requested during stored procedure execution.	
Pac2362	A section that cannot be executed was found in a stored procedure object.	
Pac2363	Transaction request is invalid.	
Pac2364	UAP client libraries forming a global transaction have different versions.	Match the versions of the UAP client libraries forming the global transaction.
Pac2365	A process private area required for SQL execution cannot be allocated, or memory is insufficient.	Check the load on the system and re-execute the UAP. Alternatively, re-estimate memory.
Pac2366	An error was returned because a system error occurred during reception processing (front-end server) of the trigger execution request.	Check the error cause from the error message that was output before processing was aborted, take corrective action, and then re-execute. This error may also occur when there is a heavy load on the transmission source (back-end server). If this is the case, reduce the load on the transmission source.
Pac2367	Transmission processing of the trigger execution result returned an error. Possible causes are that either the transmission destination server (back-end server) or the unit is down, or that the system could not respond due to a heavy load.	Check the error cause from the error message that was output before processing was aborted, take corrective action, and then re-execute.
Pac2368	A trigger execution request failed. <ul style="list-style-type: none"> <li>An error occurred; then the front-end server terminated the transaction.</li> </ul>	Check the error cause from the error message that was output before processing was aborted, take corrective action, and then re-execute.

### 3. ABORT Codes

<b>ABORT Code</b>	<b>Cause</b>	<b>Action</b>
Pac2501	Attempt was made to execute Auto Commit in the XA environment.	Back up all files in %PDDIR%\spool and contact a customer engineer
Pac2502	Invalid prepare request was issued from client.	
Pae2250	Argument in high-order module is invalid during SQL object execution.	Back up all files in %PDDIR%\spool and contact a customer engineer. If HiRDB does not restart automatically, restart it manually.
Pae2251	System error occurred during SQL object execution (invalid return code).	
Pae2252	SQL object is invalid.	
Pae2253	Return code of a low-order module is invalid during SQL object execution.	
Pae2255	System error occurred during SQL object execution (invalid internal code).	
Pae2257	Memory shortage or system error occurred during SQL object execution (internal conflict).	If a memory shortage occurred, wait a while and then re-execute. Otherwise, contact a customer engineer.
Pae2258	Internal system contradiction was detected during SQL object execution.	Contact a customer engineer.
Pae2259	Allocation of system private area failed or a memory shortage occurred.	Check the system load and re-execute the UAP. Or, re-estimate the memory size.
Pae2354	Return code of SYSM function call is invalid.	Check the error cause from the error message that was output before processing was aborted, take corrective action, and then re-execute. If an error message is output, save the files under %PDDIR%\spool, %PDDIR%\conf, and %PDDIR%\tmp, save the event log (in UNIX, syslogfile), and contact a customer engineer.
Pae3001	Reply text receive processing resulted in an error.	Contact a customer engineer.
Pae3002	HiRDB-specified information is missing from reply text.	
Pae3003	Unexpected reply text was received from the server.	

ABORT Code	Cause	Action
Pae3004	<p>The results of SQL statements executed between HiRDB servers were not received within the specified PDCWAITTIME. A server-to-server communication error may have occurred.</p> <p>HiRDB executes multiple server-to-server communications or database accesses for a single request from a client. Because the client monitors the cumulative processing time using the value of PDCWAITTIME, it is usually the client that first detects a timeout and sends a recovery instruction to the server. If the client is unable to send a recovery instruction due to a communication error between the client and server, the server also detects the error.</p>	<p>Check the error cause from the OS and HiRDB error messages that were displayed prior to the abort, take appropriate action, then re-execute.</p>
Pae3005	<p>Timeout occurred in a HiRDB/Parallel Server while a back-end server or dictionary server was waiting for an SQL execution request library to be received from a front-end server.</p>	<p>An error, such as a memory shortage, may have occurred in the unit in which the back-end server process or dictionary server process is located, making SQL execution impossible. Determine the cause of the error in the applicable unit, and re-execute after taking appropriate action.</p> <p>Until the action is completed, keep intact the files under %PDDIR%\spool, \conf, and \tmp.</p>
Pae3010	<p>Retrieval result send processing resulted in an error. The destination server or unit may be shut down or unable to reply due to high workload.</p>	<p>Check the error cause from the error message that was output before processing was aborted, take appropriate action, then re-execute.</p>
Pae3100	<p>An error occurred during analysis of the following operands:</p> <ul style="list-style-type: none"> <li>• pd_max_list_users</li> <li>• pd_max_list_count</li> <li>• pd_java_runtimepath</li> <li>• pd_java_libpath</li> <li>• pd_sql_send_buff_size</li> </ul>	<p>Save the files under %PDDIR%\spool, %PDDIR%\conf, and %PDDIR%\tmp, save the event log (in UNIX, syslogfile), and contact a customer engineer.</p>
Pae3101	<p>Shared memory could not be released while processing an error that had occurred at server startup or while stopping the server.</p>	
Pae3110	<p>An unrecoverable error occurred during thread lock.</p>	

3. ABORT Codes

<b>ABORT Code</b>	<b>Cause</b>	<b>Action</b>
Pae4000	<p>Either of the following possibilities should be investigated:</p> <ul style="list-style-type: none"> <li>• The sending of an abstract data type get request returned an error. Possibly the destination server or unit is down or unable to respond due to high load.</li> <li>• An internal conflict occurred in the operation for the abstract data type.</li> </ul>	<p>Check the error cause from the error message that was output before processing was aborted, take corrective action, and then re-execute. If the problem is other than a transmission error, contact a customer engineer.</p>
Pae4001	<p>The information returned from the plug-in implementation function is invalid.</p>	<p>Contact a customer engineer. For the name of the plug-in implementation function in which the error occurred, see the preceding error message.</p>
Pae5000	<p>An unrecoverable error occurred during a transaction commit or rollback.</p>	<p>Save the files under %PDDIR%\spool, %PDDIR%\conf, and %PDDIR%\tmp, save the event log (in UNIX, syslogfile), and contact a customer engineer.</p>
Pag1660	<p>Invalid data type was detected during data comparison.</p>	<p>Back up all files in %PDDIR%\spool and contact a customer engineer. If HiRDB does not restart automatically, restart it manually.</p>
Pag1670	<p>Internal system conflict was detected during regular expression comparison.</p>	
Pag1671	<p>Internal system conflict was detected during regular expression comparison.</p>	
Pag1672	<p>Internal system conflict was detected during regular expression comparison.</p>	
Pag1680	<p>Internal system conflict was detected during data conversion.</p>	
Pao0002	<p>Internal conflict occurred during optimization processing.</p>	<p>Back up all files in %PDDIR%\spool and contact a customer engineer.</p>
Pao0003	<p>Foreign server information is not configured.</p>	<p>After executing the CREATE SERVER statement, restart the HiRDB system and re-execute SQL. If this error occurs even after restarting the HiRDB system, back up all files in %PDDIR%\spool or %PDDIR%\conf and contact a customer engineer.</p>
Pao2001	<p>SQL object was invalid.</p>	<p>Back up all files in %PDDIR%\spool and contact a customer engineer.</p>
Pao2002	<p>Internal conflict occurred during optimization processing at the time of execution.</p>	

<b>ABORT Code</b>	<b>Cause</b>	<b>Action</b>
Pao3001	An internal conflict occurred while the definition file was being read.	Back up all files in %PDDIR%\spool and %PDDIR%\conf, and contact a customer engineer.
Pao3002	A memory shortage occurred while the definition file was being read.	Take corrective action as indicated by the memory shortage error message output immediately before this message, and restart the unit that shut down.
Pap2255	There is not enough stack data area.	Contact a customer engineer.
Par2400	Attempt was made to create a free chain in an area other than the control block area.	Back up all files in %PDDIR%\spool and contact a customer engineer.
Par2401	Conflict occurred while creating a free chain for a control block.	
Par2402	Attempt was made to release a control block that was already released.	
Par2410	Terminated abnormally.	Back up all files in %PDDIR%\spool and contact a customer engineer. If HiRDB does not restart automatically, restart it manually.
Par2412	Detachment of main thread failed in the same section.	Back up all files in %PDDIR%\spool and contact a customer engineer.
Par2413	Drop list processing terminated abnormally while releasing the SCB control block.	
Par2414	End next processing terminated abnormally while releasing the PCB control block.	Back up all files in %PDDIR%\spool and contact a customer engineer. If HiRDB does not restart automatically, restart it manually.
Par2415	Attempt was made to allocate an area of 1 GB or more.	Back up all files in %PDDIR%\spool and contact a customer engineer.
Pas2100	Analysis trigger was invalid during semantic analysis.	
Pas2101	Contradiction was detected during SQL analysis processing.	Back up all files in %PDDIR%\spool and %PDDIR%\tmp and contact a customer engineer.
Pas2352	Invalid information was returned from dic to sqa.	Contact a customer engineer.

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Table 3-2: ABORT codes (PbXXXXX)

ABORT Code	Cause	Action
Pba0101	Internal conflict occurred.	Contact a customer engineer.
Pba0201	Parameter is invalid.	
Pba0202	Execution sequence of functions is invalid.	
Pba0301	Return code is invalid.	
Pba0401	Contents of input buffer from SQA are invalid.	
Pba0402	Contents of output buffer from SQA are invalid.	
Pba0501	Non-execution of the XA interface function was detected.	
Pba0502	Non-execution of the DF/UX initialization function or DF for Windows NT initialization function was detected.	
Pba0601	SQL statement's execution function was called incorrectly.	
Pbb0200	An input parameter of a memory management function is invalid.	
Pbb0201	An input address of a memory management function is invalid.	
Pbb0204	A status error occurred in a memory management function.	
Pbb0290	A return code for a memory management function is invalid.	
Pbb0300	No base address is set for CMT.	
Pbb0301	No base address is set for PMT.	
Pbb0400	An input parameter of an error reporting function is invalid.	
Pbb0401	An event type of an error reporting function is invalid.	
Pbb0402	An event type of an error reporting function is not supported.	



<b>ABORT Code</b>	<b>Cause</b>	<b>Action</b>
Pbb0403	An error type of an error reporting function is invalid.	
Pbb0404	An error type of an error reporting function is not supported.	
Pbb0405	No table creation area exists for an error reporting function.	
Pbb0490	An internal conflict occurred in an error reporting function.	
Pbb0500	A conflict occurred in an internal table of an XA request processing function.	
Pbb0590	An internal conflict occurred in an XA request processing function.	
Pbb0600	A conflict occurred in an internal table of an SQLplug function.	
Pbb0601	An SFD/SQL conflict occurred in an SQLplug function.	
Pbb0690	An internal conflict occurred in an SQLplug function.	
Pbb0700	A input parameter of a sequence check function is invalid.	
Pbb0790	A return code of a sequence check function is invalid.	
Pbb1000	A conflict occurred in an internal table of an SQL conversion function.	
Pbb1001	An SFD/SQL conflict occurred in an SQL conversion function.	
Pbb1090	An internal conflict occurred in an SQL conversion function.	
Pbb2090	An SQA return code is invalid.	
Pbc0001	Error occurred during abort code editing.	
Pbc0002	Internal contradiction occurred.	
Pbc0101	Invalid address was specified for memory reallocation or release.	

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ABORT Code	Cause	Action
Pbc0102	Destruction of a memory area was detected.	

Table 3-3: ABORT codes (PdXXXXXX)

ABORT Code	Cause	Action
Pd00001	Error occurred during lock acquisition processing.	The KFPD00004-E message is output. If this message displays <code>pdi_olk_thdlock</code> as the name of the function resulting in the error and -20023 as the value of <code>errno</code> , the number of FIFOs per process has exceeded the OS's limit; increase the value for the OS. If the message displays <code>pdi_olk_thdlock</code> as the name of the function resulting in the error and -20024 as the value of <code>errno</code> , the number of FIFOs per system has exceeded the OS's limit; increase the value for the OS. If any other information is displayed in the KFPD00004-E message, contact a customer engineer.
Pd00003	File I/O error occurred.	Refer to the KFPD00003 message to check the cause of the I/O error, and take appropriate action.
Pd00004	System call error occurred.	Refer to the KFPD00004 message to check the cause of the system call error, and take appropriate action.
Pd00005	Error occurred during server initialization.	If the KFPD00005-E, KFPD00020-E or KFPD00021-E message was output, take corrective action based on the message that was output. If none of these messages was output, contact a customer engineer.
Pd00008	Internal system conflict occurred.	During an abort, a KFPD00008-E or KFPD00020-E message is output. Take action according to the message that has been output.
Pd00030	Internal system conflict occurred.	Contact a customer engineer.
Pd00777	Dictionary contents are invalid.	Contact a customer engineer.
Pd10000	Registry thread activation failed.	If the KFPD00021-E message was output, take corrective action based on that message. If this message was not output, contact a customer engineer.

<b>ABORT Code</b>	<b>Cause</b>	<b>Action</b>
Pd10001	Registry thread stop failed.	Contact a customer engineer.
Pd10002	An error occurred during access to the registry.	Check the error cause from the error message that was output before processing was aborted, take the corrective action, and then re-execute.
Pd17001	An error occurred during object cache control processing.	Contact a customer engineer.

*Table 3-4: List of abort codes (PeXXXXX)*

<b>Abort code</b>	<b>Cause</b>	<b>Action</b>
Peama01	An internal error occurred after the command received by the HiRDB Assist - Server was executed; the HiRDB Assist - Server process terminated.	<p>UNIX version: Save all files under the setup directory for the HiRDB Assist - Server and also the syslog file, and then notify a customer engineer.</p> <p>Windows version: There may have been a request for multiple commands to be executed consecutively. Provide a one-second interval between command executions, and then re-execute the command. If the Peama01 abort problem still persists after this action is taken, save all files under the HiRDB Assist - Server installation directory and the event log, and notify a customer engineer.</p>

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Table 3-5: ABORT codes (PhXXXXX)

ABORT Code	Cause	Action
Phb0001	Message output error occurred.	Back up all files in %PDDIR%\spool and restart HiRDB. Or, notify a customer engineer.
Phb0002	Semaphore handling error occurred.	
Phb0003	ENQ counter error occurred.	
Phb0004	Invalid put request was issued.	
Phb0005	Function code is invalid.	
Phb0006	Internal function error occurred.	
Phb0007	Internal conflict was detected in the HiRDB file system.	
Phb0008	Invalid free request was issued.	
Phb0009	Log output error occurred.	
Phb0010	Resource shortage occurred while opening a HiRDB file.	Reduce the number of users, and start HiRDB.
Phb0011	Semaphore initialization error occurred.	Resolve the cause of the error indicated in the KFPH23015-E message, and then restart HiRDB. If the cause of the error cannot be determined, contact a customer engineer.
Phb0012	Shared memory detachment error occurred.	
Phb0013	In UNIX, an ordinary file close error occurred. In Windows, a file close error occurred.	
Phb0014	Shared memory release error occurred.	
Phb0015	Shared memory allocation error occurred.	
Phb0016	Shared memory attachment error occurred.	
Phb0017	There is no available entry in TCB buffer stack.	Back up all files in %PDDIR%\spool and restart HiRDB. Or, contact a customer engineer.
Phb0018	Lock error occurred.	
Phb0019	Unlock error occurred.	
Phb0032	An error occurred during allocation of status file records.	Take the action indicated in the immediately preceding KFPH23033-E message, and restart HiRDB.
Phb0106	A memory shortage occurred.	Take corrective action per the KFPH23003-E message output immediately before this message, and restart HiRDB.

<b>ABORT Code</b>	<b>Cause</b>	<b>Action</b>
Phb0107	Mapping of the global buffer failed.	Take corrective action per the KFPH23003-E or KFPH23005-E message output immediately before this message, and restart HiRDB.
Phb1001	Buffer definition analysis termination error occurred.	Resolve the cause of the error indicated in the KFPH23015-E message, and then restart HiRDB. If the cause of the error cannot be determined, contact a customer engineer.
Phb1002	Invalid argument was detected while starting buffer definition analysis.	
Phb1003	Invalid argument was detected during buffer definition analysis.	
Phb1004	Invalid option was detected during buffer definition analysis.	Back up all files in %PDDIR%\spool and restart HiRDB. Or, contact a customer engineer.
Phb1018	Acquisition of RDAREA information for global buffer creation failed.	Determine the cause from the error messages output before the ABORT code, take appropriate action, and then restart the unit. If <code>return code=-310</code> is output in a KFPH22013-E message, the dictionary server is stopped; restart the dictionary server and then restart the unit. If the cause of the error cannot be determined from the error messages, contact a customer engineer.
Phb1021	The number of <code>pdbuffers</code> exceeds the limit.	Take action as indicated in the immediately preceding KFPH23029-E message, and restart HiRDB.
Phb1022	The number of <code>pdbuffers</code> does not match the number when started previously.	Take action as indicated in the immediately preceding KFPH23031-E message, and restart HiRDB.
Phb1023	The <code>pdbuffer</code> option specification is invalid.	Take action as indicated in the immediately preceding KFPH23021-E message, and restart HiRDB.
Phb1025	The memory size was exceeded.	Take action as indicated in the immediately preceding KFPH23032-E message, and restart HiRDB.
Phb1026	The dynamic update of global buffer facility cannot be used.	Take action as indicated in the immediately preceding KFPH23034-E message, and restart HiRDB.
Phb2001	RDAREA ID or page number is invalid.	Restart HiRDB and recover the corresponding RDAREA. Also, contact a customer engineer.

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<b>ABORT Code</b>	<b>Cause</b>	<b>Action</b>
Phb2002	Shortage occurred in reserve buffer.	Back up all files in %PDDIR%\spool and restart HiRDB. Or, contact a customer engineer.
Phb2003	Duplicate GET request was issued.	
Phb2004	Chain error occurred.	
Phb2007	Time stamp mismatch was detected while outputting data to a database.	
Phb2008	Object ID mismatch within a page was detected during data output to the database.	
Phb2009	Invalid parameter or invalid processing sequence was detected while forcibly outputting a log.	
Phb2010	If <code>unitdown</code> is specified in the <code>pd_db_io_error_action</code> operand, an RDAREA I/O error has occurred, causing HiRDB (for HiRDB/Parallel Server, a unit) to terminate abnormally.	Referring to the error message output before the process aborted, determine the cause of the error. Then, either switch over the system again, or restart HiRDB.
Phb3001	Batch input occurred on index page.	Back up all files in %PDDIR%\spool and restart HiRDB. Alternatively, contact a customer engineer.
Phb3002	Batch input request is invalid.	
Phb3004	HiRDB file OPEN/CLOSE processing failed.	
Phb3008	A server process terminated abnormally while a local buffer was being used. A page (update page) was detected that, temporarily, recovery processing could not recover.	Restart HiRDB.
Phb4001	Internal conflict occurred.	Back up all files in %PDDIR%\spool, and restart HiRDB. Alternatively, contact a customer engineer.
Phb4002	Undefined value was returned.	
Phb4003	Function parameter error occurred.	
Phb4004	rpc open error occurred.	
Phb4005 Phb4006 Phb4007	Internal function error occurred.	
Phb4009	Memory shortage occurred.	

<b>ABORT Code</b>	<b>Cause</b>	<b>Action</b>
Phb4010	The message queue ID could not be obtained.	Back up all files in %PDDIR%\spool and restart HiRDB. Also, contact a customer engineer.
Phb4011	Message receive error occurred.	
Phb4012	Message send error occurred.	
Phb4020	Update flag is invalid.	
Phb4022	Synchronization output flag is invalid.	
Phb4023	Deferred write status is invalid.	
Phb4030	HiRDB file initialization error occurred.	
Phb4031	HiRDB file open error occurred.	
Phb4032	HiRDB file close error occurred.	
Phb4033	HiRDB file write error occurred.	
Phb4034	A HiRDB file close error occurred.	Back up all files in %PDDIR%\spool and restart HiRDB. Also, contact a customer engineer.
Phb4035	Disk number is invalid.	Back up all files in %PDDIR%\spool and restart HiRDB. Also, contact a customer engineer.
Phb4041	Repeated attempts to open a HiRDB file failed due to a shortage of open resources.	Take action according to the preceding KFPH23201-W or KFPH23100-E message, and then restart HiRDB.
Phb4044	A semaphore operation error occurred in the deferred write process.	Check the cause of the error based on the error message (KFPO00107-E) preceding the abort, take appropriate action, and then re-execute the command. If an error message is not output, save the files under %PDDIR%\spool, and then restart HiRDB. Also, notify a customer engineer.
Phb4109	A memory shortage occurred.	Take one of the following actions to provide additional memory, and then restart HiRDB: <ul style="list-style-type: none"> <li>• Reduce the number of other processes running on the same machine.</li> <li>• Increase the swap area.</li> <li>• Provide additional real memory.</li> </ul>
Phb4141	When the facility for parallel writes in deferred write processing was being used, a HiRDB file could not be opened due to a shortage of open resources, even when the opening operation was retried in the write process.	Take corrective action according to a previous KFPH23201-W or KFPH23100-E message, and then restart HiRDB.

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<b>ABORT Code</b>	<b>Cause</b>	<b>Action</b>
Phb4144	When the facility for parallel writes in deferred write processing was being used, a semaphore operation error occurred in the write process.	Check the cause of the error based on the error message (KFPO00107-E) preceding the abort, take appropriate action, and then re-execute the command. If an error message is not output, save the files under %PDDIR%\spool, and then restart HiRDB. Also, notify a customer engineer.
Phb**** *: Any character string	Internal contradiction was detected during DB buffer processing.	Back up all files in %PDDIR%\spool and restart HiRDB. Also, contact a customer engineer.
Phc0001	getarea return code is invalid.	Check the error cause from the error message that was output before processing was aborted, take appropriate action, then re-execute. If no error message was output, contact a customer engineer.
Phc0002	Message editing failed.	
Phd0002	RDAREA ID is invalid.	Check to see if there is an operation error on the applicable RDAREA. If there is an error, the RDAREA should be recovered. If the RDAREA has been moved, restart HiRDB. If there is no error, save the files under %PDDIR%\spool, and contact a customer engineer.
Phd0003	Internal work file access error occurred.	Check the system operation and recover the database if an error was found. If there is no error, save the files under %PDDIR%\spool, and contact a customer engineer.
Phd0004	Thread lock terminated abnormally.	Save the files under %PDDIR%\spool, and contact a customer engineer.
Phd0005	File number is invalid.	Check the system operation and recover the database if an error was found. If there is no error, save the files under %PDDIR%\spool, and contact a customer engineer.
Phd0006	Invalid log was detected during rollback.	
Phd0007	Invalid log was detected during log collection.	



ABORT Code	Cause	Action	
Phd0008	Internal conflict was detected while a server transfer area was being created.	Save the files under %PDDIR%\spool, and contact a customer engineer.	
Phd0009	Internal conflict was detected during communication.		
Phd0010	An internal function error was detected.		
Phi0002	Analysis of a definition file failed.		
Phi0013	A thread lock error occurred.		
Phi0014	A thread unlock error occurred.		
Phi1001	Acquisition of environment definition variable failed.	Check the error message that was output before ABORT for the cause of the error, take appropriate action, then re-execute. If no error message was output, contact a customer engineer.	
Phi1002	Allocation of common control block failed.		
Phi1003	Communication open error occurred.		
Phi1006	Initialization error occurred in the SQL analysis component.		
Phi1007	Initialization error occurred in the dictionary management component.		
Phi1008	Initialization error occurred in the database management component.		
Phi1010	Allocation of log server area failed.		
Phi1011	Message editing failed.		
Phi1012	Acquisition of a HiRDB database environment information file from the running system failed.		<p>If all of the following conditions are satisfied, confirm that the HiRDB running system is active, and then restart the HiRDB standby system:</p> <ul style="list-style-type: none"> <li>• Hitachi HA Toolkit Extension is being used.</li> <li>• The rapid system switchover facility is being used.</li> <li>• A KFPS01861-E message was output to the event log (in UNIX, syslogfile) of the running system.</li> </ul> <p>Otherwise, eliminate the cause of the error output in the KFPH20003-E message, and restart the HiRDB standby system. If you cannot determine the cause of the error, contact a customer engineer.</p>

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<b>ABORT Code</b>	<b>Cause</b>	<b>Action</b>
Ph10001	Internal logical contradiction occurred.	Back up all files in %PDDIR%\spool and restart HiRDB. Also, contact a customer engineer.
Ph10002	Buffer allocation error occurred.	
Ph10003	Function code was invalid during Build-List.	
Ph10004	List ID (address) is invalid.	
Ph10005	Return code is invalid.	
Ph10006	read request page number is invalid.	
Ph10007	Number of pages in string is invalid.	
Ph10008	Work table buffer pool's contents are invalid.	Back up all files from %PDDIR%\spool and contact a customer engineer.
Ph12355	Return code contradiction occurred.	If RPC trace information is being collected, back up the RPC trace information. Next, back up all files in %PDDIR%\spool and restart HiRDB. Also, contact a customer engineer.
Ph13722 Ph13723	Internal conflict occurred.	Save the files under %PDDIR%\spool, and contact a customer engineer.
Ph14002 Ph14003	Interface is invalid.	
Ph14018	Return code of a list module is invalid.	
Ph14023	Row address of a list is invalid.	
Ph15301	I/O error occurred.	
Ph1b001	Internal contradiction was detected.	
Phm0001	Return code of buffer management is invalid.	
Phm0002	Return code of directory management is invalid.	Back up all files in %PDDIR%\spool and restart HiRDB. Also, contact a customer engineer.
Phm0003	A memory shortage occurred when a shared table was being updated without issuing a LOCK TABLE statement in EXCLUSIVE mode.	Take corrective action according to the preceding memory shortage error message. If the unit is down, restart the unit that was shut down.
Phm0004	Buffer memory corruption was detected when a shared table was being updated without issuing a LOCK TABLE statement in EXCLUSIVE mode.	Save the files under %PDDIR%\spool, restart the abnormally terminated unit, and contact a customer engineer.

<b>ABORT Code</b>	<b>Cause</b>	<b>Action</b>
Phm0999	Internal contradiction was detected.	Use the database recovery utility to recover the database and restart.
Phm1001	Attempt was made to insert a FIX table page that was greater than the defined length.	Back up all files in %PDDIR%\spool and restart HiRDB. Also, contact a customer engineer.
Phm1002	I/O area or offset list was not found.	
Phm1003	Length of variable-length data is 0.	
Phm1100 Phm1101	Internal conflict occurred during BLOB data I/O processing.	Contact a customer engineer.
Phm1102	Invalid RDAREA number was specified for BLOB data.	If the RDAREA has been moved, restart HiRDB. If there is no operation error, contact a customer engineer.
Phm1103	Internal conflict occurred while BLOB data was being updated.	Contact a customer engineer.
Phm1104	File number was invalid.	
Phm1105	Internal conflict occurred while BLOB data was being retrieved.	
Phm1110	A return code indicating an error was returned from another component function.	Recover the database using the database recovery utility.
Phm2001	Format of a row to be updated is invalid.	Check the database recovery procedure for an error. If there is a database that has not been recovered, either recover it or re-create it. If there is no error, contact a customer engineer.
Phm2002	Type of table to be updated is invalid.	Back up the files under %PDDIR%\spool and contact a customer engineer.
Phm5001	An attempt was made to project a row identifier during row I/F for a non-FIX table.	
Phm5002	Buffer management error occurred.	Use the database recovery utility to recover the database and restart.
Phm5003	Specified scan type is invalid.	Back up all files in %PDDIR%\spool and restart HiRDB. Also, contact a customer engineer.
Phm5004	Data projection is not available to specified server machine.	

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<b>ABORT Code</b>	<b>Cause</b>	<b>Action</b>
Phm5011	Page is invalid (branching destination page).	Check the database recovery procedure for an error. If there is a database that has not been recovered, either recover it or re-create it. If there is no error, contact a customer engineer.
Phm5012	Page is invalid (branching source page).	
Phm5013	Page number is invalid. Table ID in the database does not match the requested table ID during fetch processing.	
Phm5014	Slot value is invalid. A row was deleted or a nonexisting row was fetched.	
Phm5015	Page is invalid (page specified for fetch was not found).	
Phm5016	Slot value is invalid. A row was deleted, or a nonexisting row was specified as the branching destination.	
Phm5017	Row format is invalid. The format of the fetched row is not P/B/ F.	
Phm5018	Row format is invalid. The format of the branching destination row is not B'/F'.	
Phm5019	Invalid row format. The branching destination row is not in the B/B'/A format.	Make sure that no errors were made in the database recovery procedure. If there is an unrecovered database, either recover or recreate it. If there is no error, contact a customer engineer.
Phm5020	The stored page for BINARY attribute data of the abstract data type is invalid.	
Phm5021	Return value is invalid.	Back up all files in %PDDIR%\spool and restart HiRDB. Also, contact a customer engineer.
Phm5022	Work area shortage occurred while a suppress table was being retrieved.	Set the number of DECIMAL columns in the conditional expression to no more than 512 and re-execute. Back up all files in %PDDIR%\spool and contact a customer engineer.
Phm6000	Invalid locking operation, or invalid RDAREA ID.	If the RDAREA has been moved, restart HiRDB. If there is no operation error, save the files under %PDDIR%\spool, and contact a customer engineer.
Phm6001 Phm6002 Phm6003 Phm6004	Lock processing is invalid.	Back up all files in %PDDIR%\spool and restart HiRDB. Also, contact a customer engineer.
Phm6005 Phm6007	Codes indicating an error was returned from another component's function.	

ABORT Code	Cause	Action
Phm6100	The HiRDB restart memory size for the process native area used by all processes on the unit controller is insufficient.	<p>Because recovery by restarting is not complete, complete the recovery using the following procedure:</p> <ol style="list-style-type: none"> <li>1. Unload logs following the log displayed in the previous synchronization point completion message KFPS02183-I.</li> <li>2. Use <code>pdstart -r</code> to start HiRDB.</li> <li>3. Use the <code>pdrstr</code> command to recover the most recent synchronization point of the RDAREA used by the master directory.</li> <li>4. Use <code>pdstop</code> to stop.</li> <li>5. Use <code>pdstart dbdestroy</code> to start HiRDB.</li> <li>6. Recover RDAREAs other than the RDAREA used by the master directory to the most recent synchronization point.</li> <li>7. Use <code>pdstop</code> to stop.</li> </ol> <p>After completing the recovery, revise the definition parameters or expand the memory, and then perform a normal startup of HiRDB. For details about the recovery procedure, see the section on recovering all RDAREAs to the most recent synchronization point in the manual <i>HiRDB Version 8 System Operation Guide</i>.</p>
Phm7000	Attempt was made to output an invalid log.	Back up all files in <code>%PDDIR%\spool</code> and restart HiRDB. Also, contact a customer engineer.
Phm9000	Internal logical contradiction was detected.	Use the database recovery utility to recover the database and restart.
Phr0100	Contradiction was detected while updating page writing information.	Back up the files under <code>%PDDIR%\spool</code> and contact a customer engineer.
Phr1110	Internal conflict occurred in the table for managing the RDAREA status.	Restart HiRDB.
Phr1111	Internal conflict occurred when RDAREA status information was being registered in the table for managing RDAREA status.	
Phr1112	The number of RDAREAs exceeded the maximum system value when RDAREA status information was being registered.	

### 3. ABORT Codes

<b>ABORT Code</b>	<b>Cause</b>	<b>Action</b>
Phr1113	In the redo log assignment during restart, a log assignment process was not found.	Use the database recovery utility to recover the database and restart.
Phr1114	The number of redo processes during restart is invalid.	
Phr1115	An attempt was made to start a redo process without acquiring a log buffer during restart.	
Phr1116	During restart, a log with the invalid redo log type was detected.	
Phr1117	The number of RDAREAs contradicts the number of RDAREA status information items in the table for managing RDAREA status.	
Phr1118	Internal conflict occurred in a restart write page information table.	Back up the files under %PDDIR%\spool, and contact a customer engineer.
Phr1210	Internal conflict occurred in information on the number of log update pages during a restart redo process.	Use the database recovery utility to recover the database and restart.
Phr1212	During the restart redo process, an attempt was made to improperly update the transaction management table during the analysis of the transaction status.	
Phr1213	During the restart redo process, the index log contains invalid lock recovery information.	
Phr1214	During the restart redo process, the directory log contains invalid lock recovery information.	
Phr1215	During the restart redo process, the log for recovering the lock contains invalid lock recovery information.	
Phr1216	During the restart redo process, the log contains an invalid lock type.	
Phr1217	During the restart redo process, processing instructions for the log contain an error.	
Phr1218	The number of disks is invalid.	

ABORT Code	Cause	Action
Phr1300	Code indicating an error was returned by another subcomponent function.	Check the error cause from the error message that was output before processing was aborted, take corrective action, and then re-execute. If an error message was not output before processing was aborted, save %PDDIR%\spool and contact a customer engineer.
Phr1310	During the restart data page redo process, a return code indicating an error was returned.	Use the database recovery utility to recover the database and restart.
Phr1311	During the restart index page redo process, a return code indicating an error was returned.	
Phr1312	During the restart directory page redo process, a return code indicating an error was returned.	
Phr1320	During the restart redo processing, a return code indicating an error was returned when an attempt was made to recover a directory inconsistency.	
Phr1321	During the restart redo processing, a return code indicating an error was returned when an attempt was made to recover an index inconsistency.	
Phr1400	Code indicating an error was returned from another component function.	
Phr1401	During the restart, acquisition of a log buffer shared memory segment address failed.	Recover the database using the database recovery utility.
Phr1410	Recovery-related semaphore operation failed.	
Phr1411	Retrieval of recovery-related semaphore value failed.	
Phr1412	Allocation of recovery-related semaphore failed.	
Phr1413	Recovery-related semaphore operation failed.	

### 3. ABORT Codes

<b>ABORT Code</b>	<b>Cause</b>	<b>Action</b>
Phr1420	Allocation of area used for recovery-related processing (process private area) failed.	Check the number of processes, take appropriate action, and re-execute.
Phr1421 Phr1422 Phr1423 Phr1424	Allocation of area required for RDAREA status management table (process private area) failed.	
Phr1425 Phr1426 Phr1427 Phr1428	Allocation of an area (process private area) required for management of page write information used in a restart <code>redo</code> failed.	



ABORT Code	Cause	Action
Phr1430	A return code indicating an error was returned from the <code>pd_lck_notrn_get</code> function during lock recovery at restart.	Save the information to be acquired in the event of an error, and contact a customer engineer. The information to be acquired in the event of an error includes the files under <code>%PDDIR%\spool</code> and <code>%PDDIR%\tmp</code> , the event log (in UNIX, <code>syslogfile</code> ), and standard error output.
Phr1431	A return code indicating an error was returned from the <code>pd_lck_notrn_release</code> function during lock release at restart.	
Phr1440	A return code indicating an error was returned from the <code>pdi_log_get_rerun_buff</code> function during log input at restart <code>redo</code> .	
Phr1441	Reception of a message from the <code>pdi_log_get_rerun_buff</code> failed during log input at restart <code>redo</code> .	
Phr1442	Release of the log buffer failed at restart <code>redo</code> .	
Phr1443	Code indicating an error was returned when attempt was made to obtain a log sequence number from the log server.	
Phr1444	A return code indicating an error was returned from the log server in the processing for which the <code>Isn</code> by <code>RDAREA</code> was to be posted to the log server at restart <code>redo</code> .	
Phr1450	Code indicating an error was returned when <code>pdi_trn_sv_tran_ent</code> function was issued to obtain the number of transactions.	
Phr1451	During restart <code>redo</code> processing, the function <code>pdi_tjl_chg_trnid</code> was issued, which acquires a transaction identifier from the second header of log records, but a return code indicating an error was returned.	
Phr1460 Phr1461	Status file read operation failed.	Use the database recovery utility to recover the database. Restart <code>HiRDB</code> .
Phr1462	Status file write operation failed.	Restart <code>HiRDB</code> .
Phr1463 Phr1464	Allocation of status file record failed.	Check the estimated status file size for an error. If it is correct, contact a customer engineer.

### 3. ABORT Codes

<b>ABORT Code</b>	<b>Cause</b>	<b>Action</b>
Phr1465	Code indicating an error was returned when the <code>pdi_sts_sys_iosize</code> function was issued to obtain the status file record size.	Re-create the status file and restart HiRDB.
Phr1466	The <code>pdi_sts_sys_iosize</code> function was issued to obtain the status file record size, but the returned record size was outside the permitted range.	
Phr1470	During restart <code>redo</code> processing, the function <code>p_m_dhh_idx_gtngid</code> was issued using multiple update pages as a design from the index log, but a return code indicating an error was returned.	Use the database recovery utility to recover the database.
Phr1471	During restart <code>redo</code> processing, the function <code>p_m_dhh_idx_gtpgn</code> was issued for acquiring update pages from the index log, but a return code indicating an error was returned.	
Phr2100	Multiple identical transactions were detected during transaction analysis during restart <code>redo</code> processing.	
Phr2200	Attempt was made to register more RDAREAs than the permitted maximum into the table for managing RDAREA status information.	Restart HiRDB.
Phr2210	A conflict was detected when writing status information for the RDAREA to the status file was attempted.	Back up all files in <code>%PDDIR%\spool</code> and contact a customer engineer.
Phr2300 Phr2310 Phr2311	Internal conflict occurred in recovery processing.	Use the database recovery utility to recover the database.

ABORT Code	Cause	Action
Phr2350	An error occurred during execution of the database recovery utility. This problem can occur in the following cases: <ul style="list-style-type: none"> <li>The backup that was input does not match the log.</li> <li>When the database was recovered using the log only, the database did not match the log.</li> <li>There was an error in the operation.</li> </ul>	<ul style="list-style-type: none"> <li>If the input backup does not match the log: Use the correct backup and log; re-execute the database recovery utility.</li> <li>If the database does not match the log: Re-execute the database recovery utility based on the backup and all valid log files that have been collected since the backup.</li> <li>Other than the above: Check for errors in the operation of the targeted RDAREA. Recover the RDAREA if you find an error. If you do not find an error, contact a customer engineer.</li> </ul>
Phr2400	Message editing failed.	Restart HiRDB.
Phr2401	Attachment of buffer shared memory failed.	Refer to the message that was output before this ABORT code.
Phr2402	First log for which rollback should have been completed cannot be found.	Use the database recovery utility to recover the database, back up all files in %PDDIR%\spool, and contact a customer engineer.
Phu0001	Text area allocation error occurred.	Check for any unnecessary process.
Phu0002	Forced page output error occurred.	Back up all files in %PDDIR%\spool and restart HiRDB. Also, contact a customer engineer.
Phu0003	Status file update error occurred.	
Phu0004	Commit failed.	Resolve the cause of the error based on the KFPH27000-E message, and then restart HiRDB. If the cause of the error cannot be determined, contact a customer engineer.
Phu0005	Internal contradiction was detected.	Back up all files in %PDDIR%\spool and restart HiRDB. Also, contact a customer engineer.
Phu0006	System manager's function call failed.	Check the error cause from the error message that was output before processing was aborted, take appropriate action, then re-execute. If no error message was output, back up all files in %PDDIR%\spool and contact a customer engineer.
Phy1001	Invalid parameter.	Back up all files in %PDDIR%\spool and contact a customer engineer.

### 3. ABORT Codes

<b>ABORT Code</b>	<b>Cause</b>	<b>Action</b>
Phy2001	Internal conflict occurred in the data directory.	Make sure that the indicated RDAREA is operating correctly. If there is an operation error, recover the RDAREA. If the problem persists even when there is no apparent error, contact a customer engineer.
Phy2002	An RDAREA status conflict was detected.	
Phy3001	An invalid return code was detected.	Back up all files in %PDDIR%\spool and contact a customer engineer.
Phy4001	An internal logical conflict was detected.	
Phz3011	Buffer management return code is invalid.	Back up all files in %PDDIR%\spool and restart HiRDB. If the same error recurs, contact a customer engineer.
Phz3021	Internal contradiction occurred in the data directory.	Make sure that the indicated RDAREA is operating correctly. If there is an operation error, recover the RDAREA. If Real Time SAN Replication with the log-only synchronous method is being used, perform preparation for log application. If the problem persists even when there is no apparent error, contact a customer engineer.
Phz3033	Invalid code was returned from an internal subroutine.	Check the system operation and recover the database if an error was found. If no error was found, save the files under %PDDIR%\spool, and contact a customer engineer.
Phz3101	Internal contradiction occurred in the directory.	Make sure that the indicated RDAREA is operating correctly. If there is an operation error, recover the RDAREA. If Real Time SAN Replication with the log-only synchronous method is being used, perform preparation for log application. If the problem persists even when there is no apparent error, contact a customer engineer.
Phz3510	The buffer management return code is invalid.	Back up all files in %PDDIR%\spool and restart HiRDB. If the same error recurs, contact a customer engineer.
Phz3712	Error occurred in the master directory RDAREA.	Resolve the error, recover the RDAREA, and then restart HiRDB. If Real Time SAN Replication with the log-only synchronous method is being used, perform preparation for log application, and then restart.

<b>ABORT Code</b>	<b>Cause</b>	<b>Action</b>
Phz3714	Buffer request is invalid.	Back up all files in %PDDIR%\spool and restart HiRDB. Also, contact a customer engineer.
Phz3715	Request contradicts the buffer information.	
Phz3716	Contradiction occurred in a directory macro.	
Phz3717	Requested file ID is invalid.	
Phz3722	Listing work file name cannot be created.	Contact a customer engineer.
Phz3723	Listing work file I/O failed.	
Phz3730	System RDAREA free request was issued.	Back up all files in %PDDIR%\spool and restart HiRDB. Also, contact a customer engineer.
Phz3760	Page was damaged (UTL environment).	
Phz3771	Internal conflict occurred in the HiRDB file system.	Resolve the cause of the error based on the KFPH23100-E message, and then restart HiRDB.
Phz3785	Buffer shutdown request was issued for the master directory RDAREA.	Back up all files in %PDDIR%\spool and restart HiRDB. Also, contact a customer engineer.
Phz4002	Column ID list is invalid.	Contact a customer engineer.
Phz4003	Internal logical conflict occurred.	
Phz4018	Address selection failed in a list page.	
Phz4020	Internal logical conflict occurred.	
Phz4023	Database was damaged.	Check the database recovery procedure for an error. If there is a database that has not been recovered, either recover it or recreate it. If there is no error, contact a customer engineer.
Phz4025	Return code is invalid.	Contact a customer engineer.
Phz4100	Error was detected during exclusive processing.	Back up all files in %PDDIR%\spool and contact a customer engineer.
Phz4107	An error was detected during locking processing.	If the RDAREA has been moved, restart HiRDB. If there is no operation error, save the files under %PDDIR%\spool, and contact a customer engineer.
Phz4113	Index contains the ID of an RDAREA that does not comprise the table.	Use the database recovery utility to recover the database and restart.
Phz4300	More retrieval conditions were specified than permitted.	Reduce the number of retrieval conditions and re-execute.

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<b>ABORT Code</b>	<b>Cause</b>	<b>Action</b>
Phz4301	SQL object is invalid.	Contact a customer engineer.
Phz4302	The number of units or tables exceeds the limit.	Specify an appropriate size based on the database design.
Phz4303	Return code is invalid.	Back up all files in %PDDIR%\spool and restart HiRDB. Also, contact a customer engineer.
Phz4304	Data contains the null value.	Use the database recovery utility to recover the database and restart.
Phz4500 Phz4501 Phz4502 Phz4506	Return code is invalid.	Back up all files in %PDDIR%\spool and contact a customer engineer.
Phz4508	Area allocation failed.	
Phz4509	Index page information is invalid.	Use the database recovery utility to recover the database and restart.
Phz4510	Error was detected in an index entry.	
Phz4511	Row information is invalid.	
Phz4512	Upper-level index key value is duplicated.	
Phz4513	Index entry to be deleted was not found.	
Phz4514 Phz4515	Request code is invalid.	Back up all files in %PDDIR%\spool and contact a customer engineer.
Phz4518	Table type is invalid.	
Phz4520	Data type is invalid.	
Phz4521	ENCODE result is invalid.	
Phz4524	Termination condition code is invalid.	Use the database recovery utility to recover the database and restart.
Phz4526	Page type retrieved based on a row identifier was invalid.	
Phz4532	Return code is invalid.	Back up all files in %PDDIR%\spool and contact a customer engineer.

ABORT Code	Cause	Action
Phz4539	Index definition information is invalid.	Use the database recovery utility to recover the database and restart.
Phz4545	The current position exceeds the maximum number of duplicate index entries subject to retrieval. Or, the current slot exceeds the maximum number of entries in the index page subject to retrieval.	
Phz4547	Index type is invalid.	Back up all files in %PDDIR%\spool and contact a customer engineer.
Phz4703	Function code is invalid.	
Phz4704	The current position of the index was dropped during a search in which <code>WITHOUT LOCK NOWAIT</code> was not specified. Or, the return code from a lower module was invalid.	Check if, during a search, another SQL in the same transaction updated or dropped the same table, eliminate the cause of the error, and re-execute. If the same table was not updated or dropped during the same transaction, back up all files under %PDDIR%\spool, and contact a customer engineer.

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<b>ABORT Code</b>	<b>Cause</b>	<b>Action</b>
Phz4705	Return code from other module is invalid.	Back up all files in %PDDIR%\spool and contact a customer engineer.
Phz4706	Return code from a subroutine is invalid.	
Phz4707	Table type is invalid.	
Phz4709	Shortage occurred in the area to be allocated.	
Phz4710	Parameter is invalid.	
Phz4750	Table identifier and index identifier are invalid.	
Phz4753	Return code from a low-order module is invalid.	
Phz4754	Return code from other module is invalid.	
Phz4760	RHF-UTL interface is invalid.	
Phz4801	Return code is invalid.	
Phz4802	Call parameter is invalid.	
Phz4804	Column ID is invalid.	
Phz4805	Multicolumn list is invalid.	
Phz4807	Internal conflict occurred during the manipulation of an index information file.	
Phz**** *: Any character string	Allocation of internal area failed.	

Table 3-6: Abort codes (PkXXXXX)

<b>ABORT Code</b>	<b>Cause</b>	<b>Action</b>
Pk00001	Received an invalid message.	If a control statement file was specified when executing a file in %PDDIR%\spool or executing a utility, back up the control statement file and contact a customer engineer.
Pk00002	Internal conflict was detected.	



ABORT Code	Cause	Action
Pk00003	The RDAREA on which the status was being analyzed using the <code>pddbst</code> function was deleted.	Be careful not to delete the RDAREA when the <code>pddbst</code> command is running. If the RDAREA has not been deleted, save the files under <code>%PDDIR%\spool</code> , and the control statement file if a control statement file was specified during the execution of the utility, and then contact a customer engineer.
Pk00004	The contents of the work file are invalid.	When a utility is executing, do not execute the following files in <i>HiRDB-installation-drive</i> \tmp (in UNIX, /tmp) or in the directory specified in the <code>workdir</code> statement: Process ID.dbst.data Process ID.dbst.msg Process ID.dbst.glaf Process ID.dbst.stor If operations such as file deletion have not been performed, collect the files under <code>%PDDIR%\spool</code> , as well as the above files, and then contact a customer engineer.
Pk00005	Inter-process communications cannot be continued.	Refer to the error messages output to the event log (in UNIX, syslogfile) or to the message log file, and eliminate the cause of the communication error. If an unresolvable error occurred, collect the files under <code>%PDDIR%\spool</code> , and the control statement file if a control statement file was specified during the execution of the utility, and then contact a customer engineer.
Pk00006	The database state analyzed table and database management table obtained before and after the database condition analysis do not match.	When executing the facility for accumulating condition analysis results, do not execute multiple <code>pddbst</code> commands against the same RDAREA. If these commands have not been executed simultaneously, save the data under <code>%PDDIR%\spool</code> and, if a control statement file is specified when a utility is executing, save the information (obtained by the <code>pdfbkup</code> command) on the RDAREA used by the data dictionary that stores the control statement file, database state analyzed table, and database management table, and contact a customer engineer.
Pk00007	Due to a system call error, interval analysis could not be executed.	Save the data under <code>%PDDIR%\spool</code> and, if a control statement file is specified when a utility is executing, save that control file, and contact a customer engineer. This error can be temporarily avoided by executing <code>pddbst</code> without specifying the <code>-w</code> option.

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ABORT Code	Cause	Action
Pk00008	The table analyzed by <code>pddbst</code> does not match the index dictionary information.	During execution of <code>pddbst</code> , do not change tables or indexes. If the definitions have not been changed, acquire the data under <code>%PDDIR%\spool</code> and, if a control statement file is specified when a utility is executing, save the information (obtained by the <code>pdfbkup</code> command) on the RDAREA used by the data dictionary that stores the control statement file, database state analyzed table, and database management table, and contact a customer engineer.

Table 3-7: Abort codes (PoXXXXX)

ABORT Code	Cause	Action
Po***** *: Any character string	An error occurred in the OS library service function.	<p>UNIX version:</p> <p>If the HiRDB directory was removed without the <code>pdcsPOOL</code> command being used, enter the <code>pdsetup -d</code> command to cancel setup, and then enter the <code>pdsetup</code> command to begin set up again. Otherwise, determine the cause of the error based on the error message output before the process aborted, take corrective action, and re-execute. If no error message was output, back up the error-related information, and contact a customer engineer.</p> <p>Windows version:</p> <p>Determine the cause from the error messages output before the ABORT code, take appropriate action, and restart. If no error messages are output, save the information acquired when the error occurred, and contact a customer engineer.</p> <p>The information acquired in the event of an error includes the files under <code>%PDDIR%\spool</code>, the event log (in UNIX, <code>syslogfile</code>), and standard error output.</p>

ABORT Code	Cause	Action
Polkcr1	<p>A process was forcibly terminated while shared memory was being updated, meaning that operation can no longer be guaranteed. HiRDB (unit if HiRDB/Parallel Server) terminated abnormally. This abort code may appear in the following cases:</p> <ol style="list-style-type: none"> <li>1. A <code>pdstop -f</code> command was executed.</li> <li>2. A <code>pdstop -z</code> command was executed.</li> <li>3. A system was switched over.</li> <li>4. An executing HiRDB process (any process, including server processes, command processes, and utility processes) was forcibly terminated using the <b>Ctrl+C</b> key, the UNIX OS <code>kill</code> command, or the Windows <code>pdkill</code> command.</li> <li>5. Real Time SAN Replication with the log-only synchronous method is being used, and the <code>pdisedbto</code> command was executed</li> </ol>	<p>If 1-4, there is no problem; recovery processing will be performed upon restart (including restart of the system switchover target). If 5, see the manual <i>HiRDB Version 8 Disaster Recovery System Configuration and Operation Guide</i>, and take action on the basis of the database inheritance procedure for each site switchover format. Otherwise, back up the error-related information and contact a customer engineer. The information to be acquired in the event of an error includes the files under <code>%PDDIR%\spool</code>, the event log (in UNIX, syslogfile), and standard error output.</p>

Table 3-8: ABORT codes (PrXXXXX)

ABORT Code	Cause	Action
Pr00001	Internal contradiction was detected in a common function.	<p>Back up the error-related information, and contact a customer engineer. The error information includes the files under <code>%PDDIR%\spool</code> and the standard error output.</p>
Pr00002	Invalid interface to JP1/OmniBack II was detected.	
Pr10001	Internal contradiction was detected in <code>0bcpy</code> .	
Pr20001	Internal contradiction was detected in <code>0rcopy</code> .	
Pr30001	Internal contradiction was detected in <code>0brstr</code> .	
Pr40001	Internal contradiction was detected in <code>0rrstr</code> .	
Pr50001	Internal contradiction was detected in <code>0lrstr</code> .	
Pr60001	Internal contradiction was detected in <code>0mrstr</code> .	

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ABORT Code	Cause	Action
Pr70001	Internal contradiction was detected in <code>0wrstr</code> .	
Pr80001	Internal contradiction was detected in <code>pdcopy</code> .	
Pr90001	Internal contradiction was detected in <code>pdrstr</code> .	

Table 3-9: ABORT codes (PsXXXXX)

ABORT Code	Cause	Action
Psad*** *: Any character string other than those in the Psad codes that follow.	Error occurred during system or server startup or termination processing.	Determine the cause of the error based on the error message output before the process aborted, take corrective action, and re-execute. If no error message was output, save the error-related information and contact a customer engineer. The information to be acquired in the event of an error includes the files under <code>%PDDIR%\spool</code> and <code>%PDDIR%\tmp</code> , the event log (in UNIX, <code>syslogfile</code> ), and standard error output.
Psadc22	HiRDB has not been installed or set up correctly.	Check for the following possible reasons: <ul style="list-style-type: none"> <li>• The setup was for the HiRDB installed at a remote host.</li> <li>• The HiRDB directory was created on an NFS-connected disk.</li> <li>• The disk containing the HiRDB directory was not mounted during OS initialization.</li> </ul>
Psadci5	Acquisition of a network, host, or entry failed. Consider one of the following causes: <ul style="list-style-type: none"> <li>• The host name specified in the system common definition is not in the <code>hosts</code> file.</li> <li>• The system does not have reference privileges to the <code>hosts</code> file.</li> <li>• If you are using DNS or WINS, the host name or IP address is not in the search database.</li> <li>• If you are using DNS or WINS, the system does not have reference privileges to the search database, or the setting is incorrect.</li> </ul>	Eliminate the error and re-execute.
Psadh11	Error occurred in the file for HiRDB Datareplicator data linkage.	Correct the operating environment on the basis of the reason code displayed in the KFSP01801-E message that was output immediately previously, then re-execute.

ABORT Code	Cause	Action
Psadh71 Psadh73 Psadh75 Psadh78 Psadh82 Psadh85 Psadh88 Psadh8c Psadh8q Psadha3	Either the HA monitor or Hitachi HA Toolkit Extension has not been started. Or, a connection cannot be established to either the HA monitor or Hitachi HA Toolkit Extension. Therefore, HiRDB cannot be started in the server mode.	Either a KFPS01873-E message or KFPS01874-E message was generated before this abort code. Take corrective action according to these messages. If an HA monitor, Hitachi HA Toolkit Extension, or cluster software message is output, also take corrective action in reference to those messages.
Psadh79 Psadh7a	When the server was being started, it was aborted by the forced termination of the server ( <code>pdstop -s -z</code> command). This message is output in some cases when the server being started is aborted by the forced termination command when the standby-less system switchover (effects distributed) facility is in effect.	This is not a problem if the server was aborted. If the server was not aborted, contact a customer engineer. If an HA monitor, Hitachi HA Toolkit Extension, or cluster software message is output, also take appropriate corrective action by referring to the message.

ABORT Code	Cause	Action
Psadhf0	<p>Consider the following causes:</p> <ul style="list-style-type: none"> <li>• When a system switchover facility is being used, after a normal termination or a planned termination was determined during termination processing in the running system HiRDB, a CPU error or a machine slowdown call used a system switchover.</li> <li>• User server hot standby is applied, and Hitachi HA Toolkit Extension is being used. <ul style="list-style-type: none"> <li>(a) Before the Hitachi HA Toolkit Extension service process was activated (using the <code>hateserve</code> command), HiRDB was started using the <code>pdstart</code> command. If HiRDB is started before the Hitachi HA Toolkit Extension service process is activated, HiRDB will start in standby status, and activation of the Hitachi HA Toolkit Extension service process performs standby release processing.</li> <li>(b) After starting the standby system HiRDB, start the running system HiRDB normally. At this time, startup of the running system HiRDB will fail, and a system switchover will occur.</li> </ul> </li> <li>• The unit used for system switchover is a recovery-unnecessary front-end server unit.</li> </ul>	<ul style="list-style-type: none"> <li>• If the running HiRDB system is in normal or planned termination status, stop the standby HiRDB system along with the running system. However, if a switchover occurred after normal or planned termination had been confirmed on the running system, the standby system aborts HiRDB and terminates because termination linkage has not been performed for the HA monitor or Hitachi HA Toolkit Extension. If HiRDB is to be started after it was terminated by this abort code, it is sometimes difficult to determine whether HiRDB is the running system or the standby system if either the HA monitor or Hitachi HA Toolkit Extension is down, in which case the startup processing can stall. In this case, the following HA monitor or Hitachi HA Toolkit Extension command should be executed to make the local system a running system: <ol style="list-style-type: none"> <li>1. Use the <code>monshow</code> command to verify that the status of the executing server is "<code>*SBY*</code>" (startup of the executing server is in standby).</li> <li>2. Use the <code>monact</code> command to notify the HA monitor or Hitachi HA Toolkit Extension that the local server is the executing server.</li> </ol> </li> <li>• (a) If the <code>pdstart</code> command is executed before the Hitachi HA Toolkit Extension service process is activated, execute it after the Hitachi HA Toolkit Extension server process is activated, or specify the HiRDB activation command in the <code>actcommand</code> operand of the Hitachi HA Toolkit Extension <code>server</code> definition statement. If the <code>pdstart</code> command is executed from a shell, have the shell execute the <code>pdstart</code> command after the Hitachi HA Toolkit Extension service process is activated.</li> <li>• (b) Take action based on the cause of the error in starting the running system HiRDB, and then start the running system HiRDB.</li> <li>• Units that use system switchover cannot use recovery-unnecessary front-end servers. Change the system definition to use either the system switchover facility or recovery-unnecessary front-end servers.</li> </ul> <p>If the cause at left is not applicable, contact a customer engineer.</p>

ABORT Code	Cause	Action
Psadhfe	Startup processing was suspended because both systems started up as standby systems while Hitachi HA Toolkit Extension was being used. The Hitachi HA Toolkit Extension service process may not be active.	<p>To set up the primary system as the running system, start over with the following procedure:</p> <ol style="list-style-type: none"> <li>1. On the primary system, start the Hitachi HA Toolkit Extension service process.</li> <li>2. Start the primary system unit as the running system.</li> <li>3. If the secondary system terminates abnormally, use the <code>pdls</code> command to check if startup of the running system unit is complete, and then start the secondary system unit as the standby system.</li> </ol> <p>To set up the secondary system as the running system, start over with the following procedure:</p> <ol style="list-style-type: none"> <li>1. Use the <code>pdstop -z</code> command (<code>pdstop -f</code> for HiRDB/Single Server) to forcibly terminate the secondary system unit.</li> <li>2. Start the Hitachi HA Toolkit Extension service process on the secondary system unit.</li> <li>3. Start the secondary system unit as the running system.</li> <li>4. Use the <code>pdls</code> command to check if startup of the secondary system unit is complete, and then start the running system unit as the standby system.</li> </ol>
Psadhff Psadhfg	The HiRDB system could not be placed on wait status.	If memory is insufficient, determine the reason why memory is insufficient, take corrective action, and restart. If an error message was output before the process aborted, determine the cause of the error based on the error message, take corrective action, and restart. If no error message was output, save the error-related information and contact a customer engineer. The information to be acquired in the event of an error includes the files under <code>%PDDIR%\spool</code> and <code>%PDDIR%\tmp</code> , and the event log (in UNIX, syslogfile).
Psadhfh	System switchover occurred after normal or planned termination of HiRDB was confirmed.	If this abort code was output during system switchover, restart HiRDB on the switchover target.

### 3. ABORT Codes

ABORT Code	Cause	Action
Psadma2 Psadmaa Psadmam Psadmaq Psadmat PsadmaC PsadmaK PsadmaL PsadmaN PsadmaO PsadmbF Psadmcr Psadmmk Psadmmm	The HA monitor, Hitachi HA Toolkit Extension, or the cluster software has not been started or is unavailable for connection. Therefore, HiRDB cannot be started in server mode.	Either a KFPS01873-E message or KFPS01874-E message was generated before this abort code. Take corrective action according to these messages. If an HA monitor, Hitachi HA Toolkit Extension, or cluster software message is output, also take corrective action in reference to those messages.
Psadnt1	The user authorization is invalid.	Confirm that the user executing an operating command has administrator privilege (other than a HiRDB administrator).
Psadp20	<ul style="list-style-type: none"> <li>The host name specified in the system definition is not in the <code>hosts</code> file.</li> <li>The <code>hosts</code> file cannot be referenced with the HiRDB administrator ID.</li> </ul> UNIX version: <ul style="list-style-type: none"> <li>If HiRDB is running on a server machine on which DNS or NIS is configured, operation is discontinued if the host name is not registered to the DNS or NIS in the host reference rules file (<code>/etc/nsswitch.conf</code>).</li> </ul>	<ul style="list-style-type: none"> <li>Register the host name specified in the system definition to the <code>hosts</code> file.</li> <li>Set the <code>hosts</code> file reference privileges such that the <code>hosts</code> file can be referenced with the HiRDB administrator ID.</li> </ul> UNIX version: <ul style="list-style-type: none"> <li>If DNS or NIS is configured on the server machine, change the definitions in the <code>/etc/nsswitch.conf</code> file as follows:  <pre>hosts:dns [NOTFOUND=continue TRYAGAIN=continue] nis [NOTFOUND=continue TRYAGAIN=continue] files</pre> </li> </ul> Restart HiRDB after employing one of the preceding to correct the problem. If none of these is applicable, contact a customer engineer.
Psadp40	The <code>PDDIR</code> environment variable cannot be referenced.	If this error occurs in a command process, check whether the <code>PDDIR</code> environment variable is correctly set up. If this error occurs in a HiRDB server process, memory shortage is a possible cause. In this case, take the following actions: <ul style="list-style-type: none"> <li>Close any processes or windows that are not needed.</li> <li>Add a system swap area.</li> </ul>



ABORT Code	Cause	Action
Psadp43	An error occurred while the HiRDB External Data Access management file was being accessed.	Back up the error-related information, and contact a customer engineer. The information to back up is as follows: <ul style="list-style-type: none"> <li>• All files under %PDDIR%</li> <li>• Event log (in UNIX, syslogfile)</li> <li>• Output of standard error</li> </ul>
Psadp44	An error occurred while the HiRDB Staticizer Option management file was being accessed.	Back up the error-related information, and contact a customer engineer. The information to back up is as follows: <ul style="list-style-type: none"> <li>• All files under %PDDIR%</li> <li>• Event log (in UNIX, syslogfile)</li> <li>• Output of standard error</li> </ul>
Psadp45	The definition analysis file set in the HiRDB system definitions cannot be opened.	Check if revocations or privileges for files under %PDDIR%\lib\sysconf and %PDDIR%\lib\sysdef have been changed. <ul style="list-style-type: none"> <li>• If revocations or privileges have been changed: <p>In UNIX, specify <i>y</i> in the response message when the <code>pdsetup -d</code> command is executed. Then, re-execute the <code>pdsetup</code> command.</p> <p>In Windows, re-install HiRDB.</p> </li> <li>• If other than the preceding: <p>Back up the error-related information and contact a customer engineer. The information to back up is as follows:</p> <ul style="list-style-type: none"> <li>• Files under %PDDIR%\spool</li> <li>• Files under %PDDIR%\tmp</li> <li>• Event log (in UNIX, syslogfile)</li> <li>• Output of standard error</li> </ul> </li> </ul>
Psadp47	An error occurred while the HiRDB Advanced High Availability management file was being accessed.	Back up the error-related information, and contact a customer engineer. The information to back up is as follows: <ul style="list-style-type: none"> <li>• All files under %PDDIR%</li> <li>• Event log (in UNIX, syslogfile)</li> <li>• Output of standard error</li> </ul>
Psadp48	An error occurred while the HiRDB Advanced Partitioning Option management file was being accessed.	
Psadp49	An error occurred during access to the HiRDB Non Recover FES management file.	
Psadp64	An error occurred while the HiRDB LDAP Option management file was being accessed.	

3. ABORT Codes

ABORT Code	Cause	Action
Psadp50	An error occurred while accessing the management file of the HiRDB Disaster Recovery Light Edition option program product.	Save the information acquired during the error, and contact a customer engineer. The information to be acquired in the event of an error includes all files under %PDDIR%, the event log (in UNIX, syslogfile), and standard error output.
Psadr3C Psadr3E	The HA monitor, Hitachi HA Toolkit Extension, or the cluster software has not been started or is unavailable for connection. Therefore, HiRDB cannot be started in server mode.	Either a KFPS01873-E message or KFPS01874-E message was generated before this abort code. Take corrective action according to these messages. If an HA monitor, Hitachi HA Toolkit Extension, or cluster software message is output, also take corrective action in reference to those messages.
Psadr5w	System server startup processing failed.	If there is a memory shortage, check the cause of the memory shortage, and restart HiRDB after taking corrective action. If there was an error message preceding the abort, check the cause of the problem based on the error message, and restart HiRDB after taking corrective action. If there is no error message, save the information to be saved in the event of an error, and contact a customer engineer. The information to be acquired in the event of an error includes the files under %PDDIR%\spool and %PDDIR%\tmp, and the event log (in UNIX, syslogfile).
Psadr62	Error was detected in the system manager's status information while restarting HiRDB.	If the HiRDB version had been changed before HiRDB was restarted, restore the previous version. Terminate HiRDB normally, and then restore the previous version. If that is not the case, save the event log (in UNIX, syslogfile) and all files under %PDDIR%\spool, and contact a customer engineer.
Psads01	The pdstart command was executed during OS initialization	Wait for OS initialization to complete, and then re-execute the command. If this same error recurs even after OS initialization, contact a customer engineer. Note that this error also occurs when the pdstart command is specified in the OS environment file (/etc/localrc). HiRDB commands cannot be specified in the /etc/localrc or /etc/localshutrc files. To start the OS and HiRDB at the same time, specify AUTO in the pd_mode_cont operand of the system common definition.

ABORT Code	Cause	Action
Psads3m Psadsb2	An error occurred while obtaining shared memory.	Determine the cause from the error messages output before the ABORT code, take appropriate action, and then re-execute.
Psads3y	The number of servers in the unit exceeds the limit.	Reduce the number of servers defined for the unit, and then re-execute.
Psads73 Psads78	The HA monitor, Hitachi HA Toolkit Extension, or the cluster software has not been started or is unavailable for connection. Therefore, HiRDB cannot be started in server mode.	Either a KFPS01873-E message or KFPS01874-E message was generated before this abort code. Take corrective action according to these messages. If an HA monitor, Hitachi HA Toolkit Extension, or cluster software message is output, also take corrective action in reference to those messages.
Psads7e	The system server could not be placed on wait status.	If memory is insufficient, determine the reason why memory is insufficient, take corrective action, and restart. If an error message was output before the process aborted, determine the cause of the error based on the error message, take corrective action, and restart. If no error message was output, save the error-related information, and contact a customer engineer. The information to be acquired in the event of an error includes the files under %PDDIR%\spool and %PDDIR%\tmp, and the event log (in UNIX, syslogfile).
Psads8b	System server start processing failed.	
Psads9v	Start the preparation for log application before initializing the database.	After initializing the database from the transaction execution site and then terminating normally, perform preparation for log application. For details about preparation for log application, see the manual <i>HiRDB Version 8 Disaster Recovery System Configuration and Operation Guide</i> . After performing preparation for log application, start the log application site.
Psads9w	The HiRDB addressing mode of the log application site does not match the database.	Set the HiRDB addressing mode of the transaction execution site to match that of the log application site, and then perform preparation for log application. If migrating from 32-bit mode to 64-bit mode, perform migration following the version upgrade procedure. For details about preparation for log application and the version upgrade procedure, see the manual <i>HiRDB Version 8 Disaster Recovery System Configuration and Operation Guide</i> .

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ABORT Code	Cause	Action
PsadsA8	<ul style="list-style-type: none"> <li>• If the KFPH20012-E message was output immediately prior to this error, the version of HiRDB is invalid. The version of HiRDB that created the database is newer than the version of HiRDB that is using the database; therefore, the database cannot be accessed. Or, the database cannot be transferred from the version of HiRDB that created it to the version of HiRDB that is using it.</li> <li>• If the KFPH20005-E message was output immediately prior to this error, access failed to the HiRDB master directory RDAREA. If a HiRDB/Parallel Server is composed of multiple units, all units that lack a dictionary are terminated.</li> </ul>	Take corrective action based on the information provided in the KFPH20012-E message or the KFPH20005-E message.
PsadsAp	This message is generated in some cases during server startup processing if the server being started was aborted by an HA monitor, Hitachi HA Toolkit Extension, or server abort command ( <code>pdstop -s -z</code> or <code>pdstop -s -f</code> ).	A KFPS05617-I message is generated before stopping. The stoppage, which occurred due to a stop request, is not a problem.
PsadsaB Psadshy	Referencing of HiRDB External Data Access failed. HiRDB External Data Access may not be configured correctly.	Check the message output before the process aborted, and take corrective action as indicated by that message. If no message was output, contact a customer engineer.
PsadsBa PsadsBb	The HiRDB version of the log application site does not match the database version.	Perform preparation for log application. For details about preparation for log application, see the manual <i>HiRDB Version 8 Disaster Recovery System Configuration and Operation Guide</i> . If the HiRDB versions of the transaction execution site and the log application site do not match, make them the same, and then perform preparation for log application. After performing preparation for log application, start the log application site.
Psadshz	The value specified in the <code>pd_routine_def_cache_size</code> operand is invalid.	Specify the correct value in the <code>pd_routine_def_cache_size</code> operand.

ABORT Code	Cause	Action
Psadsr8	An attempt was made to start a process that would result in the maximum number of active processes per user being exceeded, or the maximum number of processes on the entire system being exceeded.	Check the value of the OS parameter.
Psadt1f Psadt7h	Error occurred during server stop processing.	The server termination command was aborted because the server process terminated abnormally (including <code>pdcancel</code> ) during server termination processing. This prevents the HiRDB system from being placed on an invalid status. Restart the HiRDB system and terminate it normally. If the above event does not apply, check the error cause from the error message that was output before processing was aborted and take appropriate action.
Psadt1u Psadt7G	The HA monitor, Hitachi HA Toolkit Extension, or the cluster software has not been started or is unavailable for connection. Therefore, HiRDB cannot be started in server mode.	Either a KFPS01873-E message or KFPS01874-E message was generated before this abort code. Take corrective action according to these messages. If an HA monitor, Hitachi HA Toolkit Extension, or cluster software message is output, also take corrective action in reference to those messages.
Psadv01 Psadv02 Psadv03 Psadv04 Psadv05 Psadv06 Psadv07 Psadv08	The <code>gethostbyname</code> system command cannot be used to convert a host name to the corresponding IP address.	Check the following items, and correct any errors: <ul style="list-style-type: none"> <li>• Setting error in the <code>hosts</code></li> <li>• Invalid privilege to the <code>hosts</code> file</li> <li>• Setting error in the DNS or NIS setting files (such as <code>nsswitch.conf</code> or <code>resolv.conf</code>)</li> <li>• Invalid privilege to DNS or NIS setting files (such as <code>nsswitch.conf</code> or <code>resolv.conf</code>)</li> </ul> Also, if using DNS or NIS, errors can occur during communication with the DNS or NIS server.
Psau*** *: Any character string other than those in the Psau codes that follow.	An error occurred in the security audit facility.	Check the error message that was output before ABORT for the cause of the error, take appropriate action, and then re-execute. If no error message was output, back up the error-related information and contact a customer engineer. The information to be acquired in the event of an error includes the files under <code>%PDDIR%\spool</code> and <code>%PDDIR%\tmp</code> , the event log (in UNIX, <code>syslogfile</code> ), and standard error output.

3. ABORT Codes

ABORT Code	Cause	Action
Psau001	Writing of the status file failed.	Save the files under %PDDIR%\spool, and the event log (in UNIX, syslogfile), and contact a customer engineer.
Psaud0V Psaud0w	<p>Allocation of shared memory failed. This problem can occur when the following operations are performed successively in a standby-less system switchover configuration:</p> <ul style="list-style-type: none"> <li>• An alternate BES unit is started, and the accepting and the alternate portion are put in a standby status.</li> <li>• The alternate portion is terminated using the <code>pdstop -q -c</code> command without stopping the accepting unit.</li> <li>• After the following specification values for definitions of security audit on the unit control information definition (<code>pdutsys</code>) about the alternate portion are added or modified, the alternate portion is started using the <code>pdstart -q -c</code> command: <ul style="list-style-type: none"> <li>• <code>pd_aud_file_name</code></li> <li>• <code>pd_aud_async_buff_size</code></li> <li>• <code>pd_aud_async_buff_cnt</code></li> </ul> </li> </ul>	When the <code>pd_aud_file_name</code> definition specification is to be added to the alternate portion of the alternate BES unit in a standby-less system switchover configuration, stop the accepting unit as well as the alternate portion, and restart HiRDB. For a configuration other than a standby-less system switchover configuration, save the information to be saved in the event of an error, and contact a customer engineer. Save the files under %PDDIR%\spool, and the event log (in UNIX, syslogfile).
Psaud11	Acquisition of a status file record failed.	<p>Check the size of the status file. If the estimated size is correct, save the error-related information and contact a customer engineer.</p> <p>The information to be acquired in the event of an error includes the files under %PDDIR%\spool and %PDDIR%\tmp, the event log (in UNIX, syslogfile), and standard error output.</p>
Psaud13 Psaud14 Psaud15	Writing of the status file failed.	Save the files under %PDDIR%\spool, and the event log (in UNIX, syslogfile), and contact a customer engineer.
Pscm*** *: Any character string other than those in the Pscm codes that follow.	Error occurred during operation command control processing.	<p>Check the error message that was output before ABORT for the cause of the error, take appropriate action, then re-execute. If no error message was output, save the error-related information and contact a customer engineer.</p> <p>The information to be acquired in the event of an error includes the files under %PDDIR%\spool and %PDDIR%\tmp, the event log (in UNIX, syslogfile), and standard error output.</p>

ABORT Code	Cause	Action
Pscm052	<p>Possible causes of the problem are as follows:</p> <ul style="list-style-type: none"> <li>• Among the units that make up the HiRDB/Parallel Server, the HiRDB version does not match the version of a HiRDB option program product.</li> <li>• Either a unit with a system manager is not running or a unit non-system manager unit that has not been reduced-activated is not running.</li> <li>• In a configuration where Real Time SAN Replication with the log-only synchronous method is applied, the startup of transaction execution sites and log application sites was mixed.</li> <li>• In a standby-less system switchover configuration, HiRDB Datareplicator operation directories do not match.</li> <li>• In a standby-less system switchover configuration, the contents of the system common definition do not match.</li> </ul>	<ul style="list-style-type: none"> <li>• If versions do not match, take action appropriate to the KFPS05207-E or KFPS05208-E message and the KFPS05209-I message.</li> <li>• If versions do match and there is a unit that is not running, use the <code>pdstart</code> command to start the HiRDB system.</li> <li>• If the startup mode was mixed, refer to the KFPS05247-E message, decide whether to start from the transaction execution sites of the entire HiRDB system or from the log application sites, and then restart the entire HiRDB system.</li> <li>• If the contents of the system common definition do not match, take action according to the KFPS05248-E and KFPS05249-E messages.</li> </ul>
Pscm05c	Input/output processing on a status file failed.	<p>Investigate the cause of the problem and take corrective action with reference to the preceding status file error message.</p> <p>After taking corrective action, restart the abnormally terminated unit.</p> <p>If there is a KFPS05190-E message, restart the abnormally terminated unit.</p> <p>If there is no error message, it is possible that either a memory shortage or a network error has occurred. Check to see if a memory shortage or a network error has occurred, take appropriate action, and then restart the abnormally terminated unit.</p> <p>If these possibilities do not apply, contact a customer engineer.</p>
Pscm05d Pscm05f Pscm05g Pscm05h	Due to a disk error, uninstallation of the option program product using the <code>pdopsetup -d</code> command failed.	Determine the cause from the immediately preceding KFPO00107-E message, and take appropriate action. Then, re-execute the <code>pdopsetup -d</code> command, and uninstall the option program product.

### 3. ABORT Codes

<b>ABORT Code</b>	<b>Cause</b>	<b>Action</b>
Psit***	An error occurred during interval timer processing.	Check the error message that was output before ABORT for the cause of the error, take appropriate action, then re-execute. If no error message was output, save the error-related information and contact a customer engineer. The information to be acquired in the event of an error includes the files under %PDDIR%\spool and %PDDIR%\tmp, the event log (in UNIX, syslogfile), and standard error output.
Psji*** Psjj*** Psjk*** Psjl*** Psjm*** Psjn*** *: Any character string other than applicable codes that follow.	An error occurred during interval timer processing. Error occurred during log processing.	
Psjie42	A failure occurred during startup of the log service process. Consider the following causes: <ul style="list-style-type: none"> <li>• No swap target existed.</li> <li>• Memory was insufficient.</li> </ul>	If there is no swap target, either add a system log file, or unload a system log file and create a file that can be a swap target, and then restart. If memory is insufficient, determine the reason why memory is insufficient, take corrective action, and restart. If an error message was output before the process aborted, determine the cause of the error based on that error message, take corrective action, and restart. If no error message was output, save the error-related information and contact a customer engineer. The information to be acquired in the event of an error includes the files under %PDDIR%\spool and %PDDIR%\tmp, the event log (in UNIX, syslogfile), and standard error output.
Psjih18 Psjih24 Psjns08	Shortage occurred in message resources.	Reconfigure the kernel (increase the values of msgtql and msgmnb).



ABORT Code	Cause	Action
Psjiz09	Consider the following causes: <ul style="list-style-type: none"> <li>• An error preventing access to the HiRDB Datareplicator installation directory occurred, such as an error on the disk on which HiRDB Datareplicator is installed.</li> <li>• The addressing modes of HiRDB and HiRDB Datareplicator differ.</li> <li>• HiRDB Datareplicator is not installed.</li> </ul>	Take corrective action based on the results of the following checks: <ul style="list-style-type: none"> <li>• Check whether an error has occurred that prevents access to the HiRDB Datareplicator installation directory, such as an error on the HiRDB Datareplicator installation disk in the server machine with the unit that output the message. If so, eliminate the error and re-execute.</li> <li>• Check if the addressing mode used by the unit that output the message is the same as the addressing mode used by HiRDB Datareplicator. If the HiRDB addressing mode differs from that of HiRDB Datareplicator, replace the addressing mode of HiRDB Datareplicator with that of HiRDB, and re-execute.</li> <li>• Check if HiRDB Datareplicator is installed on the server machine with the unit that output the message. If it is not installed, install HiRDB Datareplicator and re-execute.</li> </ul> If none of the preceding reasons is applicable, contact a customer engineer.
Psjld0c	The acquisition of a synchronization point dump file could not be continued due to a network problem; the system terminated abnormally.	Eliminate the cause of the error, and then restart HiRDB.
Psjlt36	Memory is insufficient.	The process private area is insufficient. Set the memory allocation to the estimated value. Alternatively, quit unneeded processes.
Psjke01	A temporary memory shortage occurred.	Check the cause of the memory shortage, take corrective action, and then restart HiRDB.
Psjmg01	Shortage occurred in memory or system file table.	Check the error cause from the error message that was output before processing was aborted, take appropriate action, then re-execute. If no error message was output, back up the error-related information and contact a customer engineer. The information to be acquired in the event of an error includes the files under %PDDIR%\spool and %PDDIR%\tmp, the event log (in UNIX, syslogfile), and standard error output.

3. ABORT Codes

ABORT Code	Cause	Action
Psjmg60	The AIO kernel extension is not installed in an environment in which the facility for parallel output of system logs is used.	Check to see if the AIO kernel extension is installed. Check the specification value for the <code>pd_log_dual_write_method</code> for server definitions.
Psjmg62	Not enough memory.	There is not enough memory for the process-private area. The memory requirements should be reviewed.
Psjn022 Psjn031 Psjn039	Error occurred while starting the synchronization point dump service process.	Based on the error message preceding the abort, take corrective action, and then re-execute the command.
Psjn051	Error occurred while terminating the log service process.	If there is no error message, save the information to be saved in the event of an error, and contact a customer engineer.
Psjn052 Psjn053	Error occurred while terminating the synchronization point dump service process.	The information to be acquired in the event of an error includes the files under <code>%PDDIR%\spool</code> and <code>%PDDIR%\tmp</code> , the event log (in UNIX, <code>syslogfile</code> ), and standard error output.
Psjn060	System file required for log output cannot be opened.	Files in <code>%PDDIR%\lib\sysconf</code> or in <code>%PDDIR%\lib\sysdef</code> cannot be opened successfully. Check if HiRDB has been installed correctly.
Psjn094	Memory is insufficient.	Shortage occurred in the process private area. Re-estimate the memory.
Psjn0g5	A failure occurred on startup of the log service process. There may be insufficient memory.	If memory is insufficient, determine the reason why memory is insufficient, take corrective action, and restart. If an error message was output before the process aborted, determine the cause of the error based on that error message, take corrective action, and restart. If no error message was output, save the error-related information and contact a customer engineer. The information to be acquired in the event of an error includes the files under <code>%PDDIR%\spool</code> and <code>%PDDIR%\tmp</code> , the event log (in UNIX, <code>syslogfile</code> ), and standard error output.

ABORT Code	Cause	Action
Psjn0g6	Error occurred while starting the status service process.	Check the error cause from the error message that was output before processing was aborted, take appropriate action, then re-execute. If no error message was output, back up the error-related information and contact a customer engineer. The information to be acquired in the event of an error includes the files under %PDDIR%\spool and %PDDIR%\tmp, the event log (in UNIX, syslogfile), and standard error output.
Psjn0gf	Error occurred while terminating the status service process.	
Psjn140	Error occurred while terminating the log service process.	
Psjn189	Memory is insufficient.	Shortage occurred in the process private area. Re-estimate the memory.
Psjn308	There is no swappable file.	Provide an available file by either adding or unloading a file.
Psjn320	Processing cannot be continued due to an error such as a communication error.	Check the error cause from the error message that was output before processing was aborted, take appropriate action, then re-execute. If no error message was output, back up the error-related information and contact a customer engineer. The information to be acquired in the event of an error includes the files under %PDDIR%\spool and %PDDIR%\tmp, the event log (in UNIX, syslogfile), and standard error output.
Psjn321	Processing cannot be placed on wait status, because all management blocks have been used. Or, an error occurred while processing was on wait status.	
Psjn327	Memory shortage, network error, or timeout occurred.	Refer to the reason code in the message log to check the cause of the error, take appropriate action, then re-execute.
Psjn329	Memory shortage or network error occurred.	Check the error cause from the error message that was output before processing was aborted, take appropriate action, then re-execute. If no error message was output, back up the error-related information and contact a customer engineer. The information to be acquired in the event of an error includes the files under %PDDIR%\spool and %PDDIR%\tmp, the event log (in UNIX, syslogfile), and standard error output.

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<b>ABORT Code</b>	<b>Cause</b>	<b>Action</b>
Psjn335 Psjn336 Psjn338 Psjn341 Psjn345 Psjn347 Psjn349 Psjn352 Psjn354 Psjn355 Psjn357 Psjn359	Lock release wait status occurred, but processing cannot be placed on wait status because all management blocks have been used. A process area to be managed by the OS library cannot be allocated.	Re-estimate the memory.
Psjn381	There is no swappable file.	Provide an available file by either adding or unloading a file.
Psjn625	System file required for log output cannot be opened.	Files in %PDDIR%\lib\sysconf or in %PDDIR%\lib\sysdef cannot be opened. Check if HiRDB has been installed correctly.
Psjnc20 Psjnd20 Psjne06 Psjne15 Psjnf04	Lock release wait status occurred, but processing cannot be placed on wait status because all management blocks have been used. A process area to be managed by the OS library cannot be allocated.	Re-estimate the memory.
Psjnf07	There is no swappable file.	Provide an available file by either adding or unloading a file.
Psjnf16	Processing cannot be continued due to an error such as a communication error.	Check the error cause from the error message that was output before processing was aborted, take appropriate action, then re-execute. If no error message was output, back up the error-related information and contact a customer engineer. The information to be acquired in the event of an error includes the files under %PDDIR%\spool and %PDDIR%\tmp, the event log (in UNIX, syslogfile), and standard error output.
Psjng02 Psjng04	Lock release wait status occurred, but processing cannot be placed on wait status because all management blocks have been used. A process area to be managed by the OS library cannot be allocated.	Re-estimate the memory.

ABORT Code	Cause	Action
Psjng05	Memory shortage or network error occurred.	Check the error cause from the error message that was output before processing was aborted, take appropriate action, then re-execute. If no error message was output, back up the error-related information and contact a customer engineer. The information to be acquired in the event of an error includes the files under %PDDIR%\spool and %PDDIR%\tmp, the event log (in UNIX, syslogfile), and standard error output.
Psjng10	Memory shortage, network error, or timeout occurred.	
Psjnh51	Error was detected in the log server's status information while starting HiRDB.	If the HiRDB version had been changed before HiRDB was restarted, restore the previous version. Terminate HiRDB normally and then restore the previous version. If that is not the case, save the event log (in UNIX, syslogfile) and the files under %PDDIR%\spool, and contact a customer engineer.
Psjnk03	Network error occurred.	Check the cause of the network error, take appropriate action, then restart HiRDB.
Psjnk04 Psjnk05	Memory is insufficient.	Shortage occurred in the process private area. Re-estimate the memory.
Psjnk11	Network error occurred.	Check the cause of the network error, take appropriate action, then restart HiRDB.
Psjlm25	System file required for log output cannot be opened.	Check if HiRDB has been installed correctly.
Psjlm52	Memory is insufficient.	Re-estimate the memory.
Psjnm27 Psjnm28 Psjnm29 Psjnm30	Memory shortage or network error occurred.	Check the error cause from the error message that was output before processing was aborted, take appropriate action, then re-execute. If no error message was output, back up the error-related information and contact a customer engineer. The information to be acquired in the event of an error includes the files under %PDDIR%\spool and %PDDIR%\tmp, the event log (in UNIX, syslogfile), and standard error output.
Psjnr31	Database recovery processing was invalid during restart.	Check the reason code in the KFPS01267-E message that was output immediately previously, and re-execute.

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ABORT Code	Cause	Action
Psjnr38	Invalid data was detected in the event log file.	<p>Save the files under %PDDIR%\spool as well as the system log file, and then take one of the following actions:</p> <ul style="list-style-type: none"> <li>• When the HiRDB version was changed even though HiRDB had not terminated normally during the previous operation: Restore the previous HiRDB version.</li> <li>• When the contents of the previous version or the contents of other systems were changed inadvertently because the entire disk or the HiRDB file system area for the event log file was restored accidentally: Restore the event log file. If this is not possible, first terminate HiRDB forcibly, then restore the database to the backup acquisition point (or to the last unload log acquisition point if an unload log file is available). Then, recover the database by re-executing the jobs that were entered after the backup was made.</li> <li>• When the event log was not loaded after synchronization point dumps had been enabled: The contents of the status file or synchronization point dump file may be corrupt. First, terminate HiRDB forcibly, then restore the database to the backup acquisition point. Then, recover the database by re-executing the jobs that were entered after the backup was made.</li> <li>• When a log application site was running, paircreate or pairresync was executed against the pair volume that stores the system log file, and a form copy was executed Restart the log application site HiRDB, and restart the log application. If the log application cannot be restarted, perform preparation for log application, and then restart the log application. If a site takeover for disasters was performed, see the manual <i>HiRDB Version 8 Disaster Recovery System Configuration and Operation Guide</i>, and take any required actions.</li> <li>• In all other cases: Contact a customer engineer.</li> </ul>

ABORT Code	Cause	Action
Psjnr46	<p>An error occurred in the creation of the transaction information file.</p> <p>The primary causes are as follows:</p> <ol style="list-style-type: none"> <li>1. Insufficient process native area</li> <li>2. Access to the %PDDIR%\spool\pdtrninf directory failed</li> <li>3. Insufficient volume on the disk where the %PDDIR%\spool\pdtrninf directory resides</li> </ol>	<p>The actions for items 1-3 to the left are as follows:</p> <ol style="list-style-type: none"> <li>1. Take action based on the instructions given in the KFPO00106-E message.</li> <li>2. Determine the cause of the failure to access the %PDDIR%\spool\pdtrninf directory, and take measures to enable the HiRDB administrator to read and write files in the %PDDIR%\spool\pdtrninf directory. If there is no %PDDIR%\spool\pdtrninf directory, set up HiRDB again.</li> <li>3. Remove any unnecessary files to increase the free space on the disk.</li> </ol> <p>If the error cannot be resolved, save the information acquired during the error, and contact a customer engineer. The information to be saved includes the following:</p> <ul style="list-style-type: none"> <li>• All files under %PDDIR%\spool</li> <li>• Event log (in UNIX, syslogfile)</li> </ul>
Psjnt04	<p>Lock release wait status occurred, but processing cannot be placed on wait status because all management blocks have been used. A process area to be managed by the OS library cannot be allocated.</p>	<p>Re-estimate the memory.</p>
Psjnu07	<p>Processing cannot be placed on wait status, because all management blocks have been used. Or, an error occurred while processing was on wait status.</p>	<p>Check the error cause from the error message that was output before processing was aborted, take appropriate action, then re-execute. If no error message was output, back up the error-related information and contact a customer engineer.</p> <p>The information to be acquired in the event of an error includes the files under %PDDIR%\spool and %PDDIR%\tmp, the event log (in UNIX, syslogfile), and standard error output.</p>
Psjnu08 Psjnu12 Psjnu17	<p>Lock release wait status occurred, but processing cannot be placed on wait status because all management blocks have been used. A process area to be managed by the OS library cannot be allocated.</p>	<p>Re-estimate the memory.</p>

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<b>ABORT Code</b>	<b>Cause</b>	<b>Action</b>
Ps1g*** *: Any character string	Error occurred during message log output processing.	Check the error cause from the error message that was output before processing was aborted, take appropriate action, then re-execute. If no error message was output, back up the error-related information and contact a customer engineer. The information to be acquired in the event of an error includes the files under %PDDIR%\spool and %PDDIR%\tmp, the event log (in UNIX, syslogfile), and standard error output.
Ps1k*** *: Any character string	Error occurred during lock control processing.	
Psna*** *: Any character string other than the Psna code that follows.	Error occurred during name service processing.	If no error message was output, back up the error-related information and contact a customer engineer. The information to be acquired in the event of an error includes the files under %PDDIR%\spool and %PDDIR%\tmp, the event log (in UNIX, syslogfile), and standard error output.
Psna005	The port number allocated to HiRDB is being used by another program; or a previously activated HiRDB process (in UNIX, a zombie process) remains.	If a bind system call error occurred, take one of the following actions, as appropriate to the cause: <ul style="list-style-type: none"> <li>• If the port is being used by another program Check the value of the pd_name_port operand in the system common definition and assign a unique port number</li> <li>• If a zombie process remains in UNIX, remove the zombie process using the OS's kill command. If a process remains in Windows, remove the process using the pdkill command.</li> </ul>
Psnd*** *: Any character string other than those in the Psnd codes that follow.	Error occurred during system operation control processing.	If no error message was output, back up the error-related information and contact a customer engineer. The information to be acquired in the event of an error includes the files under %PDDIR%\spool and %PDDIR%\tmp, the event log (in UNIX, syslogfile), and standard error output.



ABORT Code	Cause	Action
Psnd530 Psnd537 Psnd538 Psnd53a	Shortage occurred in the area that is used to store the identifiers of the users accessing this server.	Re-execute when there are fewer users accessing this server. Terminate any remaining transactions. If this error occurs frequently, terminate HiRDB normally and increase the following server-related definition values: <ul style="list-style-type: none"> <li>• HiRDB/Single Server pd_max_users</li> <li>• HiRDB/Parallel Server If the error occurred at a front-end server: pd_max_users If the error occurred at the back-end server: pd_max_bes_process If the error occurred at the dictionary server: pd_max_dic_process</li> </ul>
Psnd678 Psnd679	Because status information on a recovery unnecessary front-end server unit is STOP (A) ; even though an attempt was made to abort that unit and restart, the attempt failed, and the system terminated abnormally.	Restart the unit that terminated abnormally.
Psnda09	Process private area shortage occurred.	Re-estimate the memory requirement for the process private area.
Psndb22	The number of utilities executed concurrently has reached the upper limit.	<ul style="list-style-type: none"> <li>• Specify 1 in the pd_utl_exec_mode operand.</li> <li>• If 1 is specified in the pd_utl_exec_mode operand, check to see if utilities are executed concurrently in excess of the value of the pd_max_users operand. If utilities are executed concurrently in excess of the value of the pd_max_users operand, reduce the number of concurrently running utilities. If the value is not exceeded, save the information to be acquired in the event of an error, and contact a customer engineer. The information to be acquired in the event of an error includes the files under %PDDIR%\spool and the event log (in UNIX, syslogfile) on the system manager and the unit that output this ABORT code.</li> </ul>

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ABORT Code	Cause	Action
<p>Psndc04 Psndc05 Psndc06 Psndc07 Psndc08 Psndh1a Psndh2c Psndh2e Psndh2h</p>	<p>The unit with a system manager stopped or a network fault occurred, causing communications failure with the system manager. The affected unit is terminated.</p>	<p>If the unit with a system manager is stopped, check the cause of the stoppage of the system manager unit, based on the error message preceding the abort code, and resolve the error. After that, restart HiRDB.</p> <p>If the error occurred even when the system manager unit was running, a network fault must be suspected. Investigate the problem by seeing <i>4.1 Detail codes for RPC-related errors</i>.</p> <p>If the cause of the problem cannot be identified, save the files under %PDDIR%\spool and the system log files for the system manager unit and the unit that generated the abort code, and contact a customer engineer.</p>
<p>Psndc24 Psnds53</p>	<p>There is insufficient process native area.</p>	<p>Determine the cause of the insufficient process native area, take appropriate action, and then restart HiRDB. If the error cannot be resolved, save the information acquired during the error, and contact a customer engineer.</p> <p><b>UNIX version:</b> The information to be acquired in the event of an error includes the files under %PDDIR%\spool and syslogfile on the system manager and the unit that output this ABORT code.</p> <p><b>Windows version:</b> The information to be acquired in the event of an error includes the files under %PDDIR%\spool and the event log on the system manager and the unit that output this ABORT code.</p>
<p>Psndd02</p>	<p>During transaction commit processing, either an error occurred in a unit with a transaction branch, or a transaction could not be determined because a network error occurred.</p> <p>The transaction can be determined by forcibly terminating and restarting the applicable unit.</p>	<p>If a unit with a transaction branch is not running, start the unit.</p> <p>If a network error occurred, eliminate the cause of the network error.</p> <p>If the cause is none of the preceding, eliminate the cause of the error based on the message output immediately before this abort code. If no message was output, contact a customer engineer.</p>

ABORT Code	Cause	Action
Psndd04 Psndd05	Transaction, command, or utility recovery could not be communicated because the system manager unit had stopped or a network error occurred. Consequently, the unit was stopped.	If the system manager unit had stopped, determine the reason from the error message that was output before processing was aborted, correct the error, and restart HiRDB. If a network error occurred, recover the network and then stop the HiRDB system forcibly with the <code>pdstop -f</code> command, and then restart the HiRDB system. Restart the system, not the unit. If the cause cannot be determined, save the files under <code>%PDDIR%\spool</code> and the system log files in both the system manager unit and the unit where this abort code was output, and contact a customer engineer.
Psndd18 Psnds42	An error occurred when a unit was being started.	Resolve the cause of the error based on the preceding message. If there is no message output, contact a customer engineer.
Psndm05	Consider the following causes: <ul style="list-style-type: none"> <li>• From within units making up HiRDB, either versions of HiRDB or versions of option program products do not match.</li> <li>• Either a unit with a system manager has not started, or a unit has not started due to reduced activation.</li> <li>• A communication error occurred between units configuring HiRDB.</li> </ul>	<ul style="list-style-type: none"> <li>• If the versions do not match, take corrective action based on the KFPS05207-E, KFPS05208-E, and KFPS05209-E messages.</li> <li>• If a unit with a system manager has not started, or if a unit has not started due to reduced activation, start the inactive unit.</li> <li>• If a communication error occurred, eliminate its cause, and then start HiRDB.</li> <li>• If none of the preceding is applicable, save the error-related information and contact a customer engineer. The information to be acquired in the event of an error includes the files under <code>%PDDIR%\spool</code> and <code>%PDDIR%\tmp</code>, the event log (in UNIX, <code>syslogfile</code>), and standard error output.</li> </ul>
Psndm19	Master directory is being used by another HiRDB system.	Two HiRDB systems cannot be started concurrently if the first HiRDB file name in the master directory RDAREA is the same in both system common definitions. Recheck the system common definitions and restart.

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ABORT Code	Cause	Action
Psdm20	A unit uses character codes that are not compatible with the character codes of the system manager.	<p>The character code type for the unit and the character code type for system manager do not match; the HiRDB system cannot be started. Refer to the information in the KFPS05206-E message, and set the same character codes type.</p> <p><b>UNIX version:</b> To change the codes type, execute <code>pdsetup -d</code>, enter <code>y</code> in response to the response message, then specify the correct character codes type with <code>pdsetup -c</code>.</p> <p><b>Windows version:</b> Refer to the related messages, eliminate the cause of the error, and then restart HiRDB.</p>
Psdm80	The character codes used by the HiRDB that was started are not compatible with the character codes used by HiRDB when the database was initialized.	Take action appropriate to the KFPH20011-E message.
Psnd098 Psnd234 Psnde70 Psnde80 Psndsp0 Psndsp1 Psndsp2 Psndsp3	Error occurred during HiRDB unit termination processing. If the termination processing is planned termination, all units are terminated forcibly.	<p>Referring to the KFPS05111-E message output immediately before the abort code, determine the cause and eliminate the error. Then, restart HiRDB.</p> <p>If the process aborted during planned termination processing, make sure that all units are stopped before restarting HiRDB. If there are any active units, stop all units by either executing the <code>pdstop -f</code> command from a server machine that has the system manager, or by executing the <code>pdstop -z</code> command from a server machine with an active unit. Then, restart HiRDB.</p> <p>Use the following procedure to check if the units are stopped:</p> <ul style="list-style-type: none"> <li>• Check the event log (in UNIX, syslogfile) of each unit for KFPS01821-E messages or KFPS01841-I messages (termination mode of FORCE)</li> <li>• Refer to KFPS01850-I messages (termination mode of FORCE) output to the event log (in UNIX, syslogfile) of the unit where the system manager resides</li> </ul> <p>If the cause cannot be determined even after referring to the KFPS05111-E message, save the files under <code>%PDDIR%\spool</code>, and the event log (in UNIX, syslogfile) for the unit, and contact a customer engineer.</p>

ABORT Code	Cause	Action
Psndv03	Communication with the system manager failed when upgrading a dictionary or when migrating an SQL object. To avoid malfunctioning due to communication failures, unit activation was suspended.	<ul style="list-style-type: none"> <li>• If the system manager unit is stopped: Determine the reason why the unit stopped based on the error message output before the process aborted, and eliminate the error. Then, restart the HiRDB system. To restart, execute the <code>pdstart</code> command without any options.</li> <li>• If a unit without the system manager is stopped: Determine the reason why the unit stopped based on the error message output before the process aborted, and eliminate the error. Then, forcibly terminate the HiRDB system with the <code>pdstop -f</code> command, and restart it. To restart, execute the <code>pdstart</code> command without any options.</li> <li>• If a network error occurred: After recovering the network, forcibly terminate the HiRDB system with the <code>pdstop -f</code> command, and restart it. To restart, execute the <code>pdstart</code> command without any options.</li> <li>• Other than the above: Restart the HiRDB system. If this error continues to occur, save the files under <code>%PDDIR%\spool</code> and the system log files on the system manager unit and on the unit that output this abort code, and then contact a customer engineer.</li> </ul>
Psp**** *: Any character string other than those in the Psp codes that follow.	Error occurred during process control processing.	<p>Check the error message that was output before ABORT for the cause of the error, take appropriate action, then re-execute.</p> <p>If no error message was output, save the error-related information and contact a customer engineer.</p> <p>The error-related information includes the files under <code>%PDDIR%\spool</code> and the standard error output.</p>
Psp0766 Psp0767 Psp5008 Psp5011 Pspk001 Pspk002	The HA monitor, Hitachi HA Toolkit Extension, or the cluster software has not been started or is unavailable for connection. Therefore, HiRDB cannot be started in server mode.	Either a KFPS00727-E message or KFPS00728-E message was generated before this abort code. Take corrective action according to these messages. If an HA monitor, Hitachi HA Toolkit Extension, or cluster software message is output, also take corrective action in reference to those messages.

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ABORT Code	Cause	Action
Psp4017	<p>If <code>-prc</code> terminated abnormally with this ABORT code during HiRDB startup, possible reasons are as follows:</p> <ul style="list-style-type: none"> <li>• Contents of the <code>hosts</code> file are invalid.</li> <li>• Default host was not set up correctly.</li> <li>• Network has not been started.</li> </ul>	<p>Correct the <code>hosts</code> file, default host, or network setup, then re-execute HiRDB.</p>
	<p>The following causes are possible in UNIX:</p> <ul style="list-style-type: none"> <li>• There is no access privilege to the <code>/dev/HiRDB/pth</code> directory, or it does not exist</li> <li>• A device is mounted under the name <code>/dev/HiRDB</code></li> </ul>	<p>Check the access privilege to <code>/dev/HiRDB/pth</code>. If a device is mounted to <code>/dev/HiRDB</code>, <code>umount /dev/HiRDB</code>, and then use the <code>pdsetup</code> command to perform setup again.</p>
Psp7013	<p>The post-processing process of HiRDB aborted.</p> <p>The following are possible causes:</p> <ul style="list-style-type: none"> <li>• The disk holding the HiRDB operation directory is too small, or there are insufficient i-nodes.</li> <li>• The HiRDB administrator user ID cannot log in.</li> <li>• A failure occurred during acquisition of a network, host, or entry.</li> </ul>	<p>Check the error cause from the error message that was output before processing was aborted, and then re-execute.</p> <p>If an error message is not output and none of the causes listed on the left is applicable, save the information collected at error time and contact a customer engineer.</p> <p>The information to be acquired in the event of an error includes the files under <code>%PDDIR%\spool</code>, the event log (in UNIX, <code>syslogfile</code>), and standard error output.</p>
Psp7019	<p>Because the number of times that the server process terminated abnormally while the abnormal termination monitoring facility was monitoring exceeded the value specified in the <code>pd_down_watch_proc</code> operand, HiRDB (or the applicable unit for HiRDB/Parallel Server) terminated abnormally.</p>	<p>To prevent HiRDB from terminating abnormally due to the server process terminating abnormally, either omit the <code>pd_down_watch_proc</code> operand, or specify <code>0</code>. For details about the abnormal termination monitoring facility, see the <i>HiRDB Version 8 System Operation Guide</i>.</p>

ABORT Code	Cause	Action
Psp8001	Request for forced termination of a server process was accepted, but the forced termination request was aborted after the process was released because it was a critical process.	Determine the reason why the request for forced termination of the process was accepted, based on the status of the executed transaction or on other messages that were output, and take corrective action as needed. If you intentionally used the <code>pdcancel</code> or other command to forcibly terminate the process, you need not take any corrective action for this abort code. On HiRDB/Parallel Server, if rollback processing on a back-end server requires 5 minutes or more to complete in response to a rollback request from a front-end server, the back-end server process may abort with this code (to speed up transaction commitment, the back-end server process is cancelled internally). You need not take any particular action when a large update for which rollback is expected to take a long time is being executed. However, if the rollback is not intentional, determine the cause of the rollback and take corrective action.
Pspc013	Timeout occurred during communication for the process server.	If a command was entered during HiRDB termination processing, re-execute the command after termination processing is completed. If timeout recurs, contact a customer engineer.
Psph052	A user request other than HiRDB caused the HiRDB process server demon to stop. The following user request other than HiRDB is possible: <ul style="list-style-type: none"> <li>The <code>kill</code> command of the OS (<code>pdkill</code> command for Windows) was executed. This abort, however, only affects the <code>SIGTERM</code> signal.</li> </ul>	Restart either HiRDB or the unit. Check to see if the <code>kill</code> command of the OS (or the <code>pdkill</code> command for Windows) has been executed. If the <code>kill</code> command of the OS (or the <code>pdkill</code> command for Windows) has not been executed, contact a customer engineer.
Psrc*** Psrif*** Psrn*** Psrp*** Psrq*** Psr*** *: Any character string other than applicable codes that follow.	Error occurred during communication processing.	Check the error cause from the error message that was output before processing was aborted, take appropriate action, then re-execute. If no error message was output, back up the error-related information and contact a customer engineer. Error-related information is in files under <code>%PDDIR%\spool</code> and in the output from standard error.
Psrc039	Timeout occurred while waiting for a response from the server during transaction startup processing.	The requested service is invalidated. Review the value of the <code>pd_watch_time</code> operand, and re-execute the command.

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ABORT Code	Cause	Action
Psrc191	Communication workload is high and data cannot be sent even when retry is executed. Or, the destination process is on a status that does not permit it to receive data for a long time. If this does not apply, see <i>4.1 Detail codes for RPC-related errors</i> .	The communication (LAN) load may be too high. Therefore, either reduce the load and re-execute the processing, or examine the SQL that was executing when the abort occurred, and consider using an SQL with a reduced processing time. If this does not apply, see <i>4.1 Detail codes for RPC-related errors</i> . If the problem recurs after you have taken the above actions, save the information acquired during the error, and contact a customer engineer. The information to be acquired in the event of an error includes the files under %PDDIR%\spool and %PDDIR%\tmp, the event log (in UNIX, syslogfile), and standard error output.
Psrc304	Transaction did not terminate even though the fixed time from the previous chain RPC call elapsed. Although the PDSWAITTIME specification time elapsed, the UAP did not issue a new SQL to the front-end server or single server being used by the UAP.	Re-execute the target service request because the request has been invalidated. Increase the time specified in PDSWAITTIME of the client environment definition and re-execute.
Psrc323 Psrc324	Attempt was made to report completion of a service to the service request source, but the service request source was not found. Or, reply cannot be sent due to a communication error.	Re-execute, because the corresponding service will be invalidated.
Psrc341 Psrc345 Psrc360	An SQL not supported by the HiRDB server was executed (this occurs when the HiRDB client version is newer than the HiRDB server version).	Identify the SQL that caused the error from the HiRDB client's error log. That SQL cannot be executed. For details on the HiRDB client's error log, see the <i>HiRDB Version 8 UAP Development Guide</i> .
Psrc361	When executing a UAP, operation command, or utility, a failure occurred when receiving a communication message. Insufficient memory is the likely cause.	To release memory, stop all processes that can be stopped. Alternatively, set memory to the estimated value. If plenty of memory exists, consider another cause. If this is the case, save the error-related information, and contact a customer engineer.
Psrc362 Psrc363	A failure occurred responding to an SQL query. Insufficient memory is the likely cause.	The information to be acquired in the event of an error includes the files under %PDDIR%\spool and %PDDIR%\tmp, the event log (in UNIX, syslogfile), and standard error output.



ABORT Code	Cause	Action
Psrc397	Too much time elapsed between service completion and the next service request. Data will be recovered by terminating the process forcibly. (Some type of error may have occurred in the service-requesting process or in the network, preventing the next service request from being sent.)	Eliminate the error cause and re-execute the utility.
Psrc398 Psrc399	Requested service response cannot be returned to the requesting source. Data will be recovered by terminating the process forcibly. (An error may have occurred in the network or there was no requesting process, preventing the response from being returned.)	
Psrc661	Allocation of process private memory for storing information received from the UAP (for example, INSERT data) failed.	Either reduce the number of processes in the system or review the memory requirements.
Psrc712	When a UAP was being processed in a server selected by a chained RPC, the system detected a failure at the host executing the UAP or a network disconnection while waiting for a service request from the UAP.	Re-execute the target service request because the request has been invalidated.
Psrc752	When a UAP was being processed in a server selected by a chain RPC, the system detected cancellation of UAP execution while waiting for a service request from the UAP.	
Psrc780	An unexpected error occurred during a communications system call.	Take corrective action by seeing the preceding KFPS00353-E message.
Psrc*** *: Any character string other than those in the Psrc codes that follow.	Error occurred during system operation control processing.	Check the error message that was output before ABORT for the cause of the error, take appropriate action, then re-execute. If no error message was output, back up the error-related information and contact a customer engineer. The information to be acquired in the event of an error includes the files under %PDDIR%\spool, the event log (in UNIX, syslogfile), and standard error output.

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ABORT Code	Cause	Action
<p>Psrda111 Psrda112 Psrda121</p>	<p>An error occurred during unit termination processing. If the error occurs during log application site termination or during a planned termination, all units are terminated forcibly.</p>	<p>Referring to the KFPS05111-E message output immediately before the abort code, determine the cause and eliminate the error. Then, restart HiRDB. If the error occurred during a planned termination or during log application site termination, confirm that all units were terminated, and then restart HiRDB. If some units were not terminated, execute the <code>pdstop -z</code> command on the servers where all units were to be terminated, and then restart HiRDB. Check the following to make sure the units are stopped:</p> <ul style="list-style-type: none"> <li>• Check the event log (in UNIX, syslogfile) of each unit for KFPS01821-E messages or KFPS01841-I messages</li> <li>• Refer to KFPS01850-I messages (termination mode of FORCE) output to the event log (in UNIX, syslogfile) of the unit where the system manager resides</li> </ul> <p>If the cause cannot be determined even after referring to the KFPS05111-E message, save the files under <code>%PDDIR%\spool</code>, and the event log (in UNIX, syslogfile) for the unit, and contact a customer engineer.</p>
<p>Psrda31</p>	<p>Memory allocation failed when starting the process that monitors activation status of the other host (server machine).</p>	<p>Re-estimate memory. Alternatively, reduce the number of processes running on the system and re-execute.</p>

ABORT Code	Cause	Action
Psrda58 Psrdp11 Psrdp12 Psrdp15 Psrdp16 Psrdp17 Psrdp18 Psrdp19	An error occurred during HiRDB system termination processing. If termination was planned, all units other than the system manager unit are forcibly terminated. Possible causes include a termination processing error occurring on a non-system manager unit, or a communication error.	Check the message output before the KFPS05221 message, eliminate the error, and restart HiRDB. If the process aborted during planned termination processing, make sure that all units are stopped before restarting HiRDB. If there are any active units, stop all units by either executing the <code>pdstop -f</code> command from a server machine that has the system manager, or by executing the <code>pdstop -z</code> command from a server machine with an active unit. Then, restart HiRDB. Check the following to make sure the units are stopped: <ul style="list-style-type: none"> <li>Check the event log (in UNIX, syslogfile) of each unit for KFPS01821-E messages or KFPS01841-I messages (termination mode of FORCE)</li> </ul> If the cause cannot be determined, save the files under <code>%PDDIR%\spool</code> , and the event log (in UNIX, syslogfile) for the unit, and contact a customer engineer.
Psrda65 Psrdi54 Psrdi55 Psrdi56	Input/output processing on a status file failed.	Investigate the cause of the problem and take corrective action by seeing the preceding status file error message. After taking corrective action, restart the abnormally terminated unit. If the cause of the problem cannot be identified, contact a customer engineer.
Psrdas1	The unit with a system manager stopped or a network fault occurred, causing communications failure with the system manager. The affected unit is terminated.	If the unit with a system manager is stopped, check the cause of the stoppage of the system manager unit, based on the error message preceding the abort code, and resolve the error. After that, restart HiRDB. If the error occurred even when the system manager unit was running, a network fault must be suspected. Investigate the problem by seeing <i>4.1 Detail codes for RPC-related errors</i> . If the cause of the problem cannot be identified, save the files under <code>%PDDIR%\spool</code> and the system log files for the system manager unit and the unit that generated the abort code, and contact a customer engineer.

### 3. ABORT Codes

ABORT Code	Cause	Action
Psrcg04 Psrcd81 Psrcd83 Psrcu31 Psrcu33 Psrcu35 Psrcu39	There is insufficient process native area.	Determine the cause of the insufficient process native area, take appropriate action, and then restart HIRDB. If the error cannot be resolved, save the information acquired during the error, and contact a customer engineer. <b>UNIX version:</b> The information to be acquired in the event of an error includes the files under %PDDIR%\spool and the syslogfile of the system manager and the unit that output this ABORT code. <b>Windows version:</b> The information to be acquired in the event of an error includes the files under %PDDIR%\spool and the event log of the system manager and the unit that output this ABORT code.
Psrcf203	Allocation failed for process private memory to be used to store information received from UAPs (SQL information such as INSERT data).	Either reduce the number of processes in the system or re-estimate the memory size.
Psrcf301	The allocation of a received message area failed during the reception of a message. To prevent the occurrence of a no-response status due to the inability to receive messages, the system is aborted.	Free memory by terminating any processes that are running in the system that can be terminated. Or, re-estimate memory requirements.
Psrcf302	The allocation of an internal communication logging information area failed. This problem is detected at process startup time. To prevent the continued execution of a process under insufficient memory conditions, the system is aborted.	
Psrcp491	Data transmission failed due to the following possible reasons: <ul style="list-style-type: none"> <li>• Not enough socket descriptors</li> <li>• Invalid contents of the <code>hosts</code> file</li> </ul> If these reasons do not apply, see <i>4.1 Detail codes for RPC-related errors</i> .	The indicated service is invalidated. Either execute the command when the load is light, or take action by referring to <i>4.1 Detail codes for RPC-related errors</i> .

ABORT Code	Cause	Action
Psrp506	Not enough internal tables	<ul style="list-style-type: none"> <li>If this error occurred frequently when HiRDB was running and at the same time utilities were executed successively or executed on a multiple basis, either increase the execution interval or reduce the level of multiplicity, or increase the value of the <code>pd_max_server_process</code> operand.</li> <li>If the error occurred while HiRDB was down, start HiRDB, and then re-execute the command.</li> </ul> <p>If the problem persists after these measures are taken, contact a customer engineer.</p>
Psrp507	Insufficient memory	There is not enough process-private area. Review the memory requirements. Also, terminate any unneeded processes.
Psrp616	The allocation of a received message area for inter-thread communications failed. To prevent the occurrence of malfunction due to the inability to receive messages, the system is aborted.	Free memory by terminating any processes that are running in the system that can be terminated. Or, re-estimate memory requirements.
Psrq016 Psrq017	Attempt was made to report completion of a service to the service request source, but the service request source was not found. Or, reply cannot be sent due to a communication error.	Re-execute, because the corresponding service will be invalidated.
Psrq801	<p>A failure occurred when referencing the host name used by HiRDB, or when acquiring an address. Consider the following causes:</p> <ul style="list-style-type: none"> <li>There is no host name or IP address in the <code>hosts</code> file.</li> <li>The system does not have reference privileges to the <code>hosts</code> file.</li> <li>The standard host name has been changed to an incorrect one not specified in the <code>hosts</code> file.</li> <li>If you are using DNS or WINS, the host name or IP address is not in the search database.</li> <li>If you are using DNS or WINS, the system does not have reference privileges to the search database.</li> </ul>	<p>HiRDB uses the host name that is specified in the <code>pdunit</code> operand of the system common definition (<code>%PDCONFPATH%\pdsys</code>), which is the standard host name of the applicable server machine.</p> <p>Eliminate the cause of the error and re-execute.</p>

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ABORT Code	Cause	Action
Psrq809	<p>UNIX version: The value set in the OS parameter (kernel parameter) <code>maxfiles_lim</code> is too small; HiRDB cannot be started.</p> <p>Windows version: Due to insufficient capacity on the installation drive, shared memory work files cannot be allocated.</p>	<p>UNIX version: Reset the value of <code>maxfiles_lim</code> to 1024 or more.</p> <p>Windows version: On the HiRDB installation drive, allocate at least as much free space as is required for the shared memory size.</p>
Psrq810	<p>The maximum number of HiRDB processes defined for the unit has been exceeded.</p>	<p>Either re-execute the operation or check the value specified in the <code>pd_max_server_process</code> operand. The specified value may be too small.</p>
<p>Pssc*** *: Any character string other than those in the Pssc codes that follow.</p>	<p>Error occurred during schedule processing.</p>	<p>Refer to the error message that was output before ABORT to check the cause of the error, take appropriate action, then re-execute.</p> <p>If no error message has been output, save the error-related information and contact a customer engineer.</p> <p>Error-related information is in files under <code>%PDDIR%\spool</code> and in the output from standard error.</p>
Pssc412	<p>A shortage of process-private memory occurred during back-end server processing when the standby-less system switchover (effects distributed) facility was being used.</p>	<p>Reduce the number of processes in the system and then re-execute the command. Or, review the amount of available process-private memory.</p>
Pssc60b	<p>Process private memory shortage occurred while initializing the message queue.</p>	<p>Reduce the number of processes within the system and re-execute, or re-estimate the process private memory size.</p>
PsscZ01	<p>Even though the message queue monitoring duration (value of <code>pd_queue_watch_time</code> operand) of the message queue monitoring facility was exceeded, messages are not being flushed from the message queue. For details about the message queue monitoring facility, see the <i>HiRDB Version 8 System Operation Guide</i>.</p>	<p>For causes of message queue hold-up and corrective actions that can be taken, see the <i>HiRDB Version 8 System Operation Guide</i>. If these possibilities do not apply, contact a customer engineer.</p>

ABORT Code	Cause	Action
PsscZ70	An internal error occurred.	If there is a preceding error message, take corrective action according to that message. If there is no message output, save the information to be acquired in the event of an error, and contact a customer engineer. The information to be acquired in the event of an error includes the files under %PDDIR%\spool and the event log (in UNIX, syslogfile) of the system manager and the unit that output this ABORT code.
Pssp*** *: Any character string other than applicable codes that follow.	An error occurred during synchronization point dump processing.	Determine the cause based on the error message output before the process aborted, take corrective action, and re-execute. If no error message was output, back up the error-related information, and contact a customer engineer. The information to be acquired in the event of an error includes the files under %PDDIR%\spool and %PDDIR%\tmp, the event log (in UNIX, syslogfile), and standard error output.
Psspc01	An error occurred during automatic computing of the pd_spd_syncpoint_skip_limit operand.	Quit using automatic computing, and estimate a value for this operand. For details about how to estimate system resources, see the description of the skipped effective synchronization point dump monitoring facility in the <i>HiRDB Version 8 System Operation Guide</i> .
Psss*** *: Any character string	Error occurred during status file processing.	Refer to the error message that was output before ABORT to check the cause of the error, take appropriate action, then re-execute. If no error message has been output, save the error-related information and contact a customer engineer. The information to be acquired in the event of an error includes the files under %PDDIR%\spool and %PDDIR%\tmp, the event log (in UNIX, syslogfile), and standard error output.
Psss372	See Psss***.	For a HiRDB/Parallel Server, check to see if the system manager is running normally or if there has been an error on the network. If the system manager is not running normally or there has been an error on the network, check the cause of the error, resolve the error, and restart HiRDB. If the above possibilities do not apply, see the action under Psss***.

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ABORT Code	Cause	Action
<p>Pst*** *: Any character string</p>	<p>Error occurred during statistics log processing.</p>	<p>Check the cause of the error based on error messages preceding the abort, take corrective action, and then re-execute the command. If there is no error message, save the information to be acquired in the event of an error, and contact a customer engineer. The information to be acquired in the event of an error includes the files under %PDDIR%\spool and %PDDIR%\tmp, the event log (in UNIX, syslogfile), and standard error output.</p>
<p>Pst*** Pstd*** Psth0r* Psti0r* Pstj*** Pstm0r* Pst**** *: Any character string other than applicable codes that follow.</p>	<p>Error occurred during transaction processing.</p>	<p>Refer to the error message that was output before ABORT to check the cause of the error, take appropriate action, then re-execute. If no error message has been output, save the error-related information and contact a customer engineer. The information to be acquired in the event of an error includes the files under %PDDIR%\spool and %PDDIR%\tmp, the event log (in UNIX, syslogfile), and standard error output.</p>
<p>Pst80rq</p>	<p>The system server could not be placed on wait status.</p>	<p>If memory is insufficient, determine the reason why memory is insufficient, take corrective action, and restart. If an error message was output before the process aborted, determine the cause of the error based on the error message, take corrective action, and restart. If no error message was output, save the error-related information and contact a customer engineer. The information to be acquired in the event of an error includes the files under %PDDIR%\spool and %PDDIR%\tmp, the event log (in UNIX, syslogfile), and standard error output.</p>



ABORT Code	Cause	Action
Pst87r2	<ul style="list-style-type: none"> <li>• A synchronization point was not acquired during normal startup processing; the startup process is cancelled.</li> <li>• A synchronization point was not acquired during normal termination or planned shutdown; the termination process is cancelled.</li> </ul>	<p>Check the cause of the error based on the reason code indicated in the preceding KFPS02178-E message, and take corrective action.</p> <ul style="list-style-type: none"> <li>• If the system aborted during normal startup processing, resolve the error, and then restart HiRDB.</li> <li>• If the system aborted during normal termination or planned shutdown, it is an indication that the normal termination or planned shutdown of HiRDB failed. In this case, take corrective action, restart HiRDB as necessary, and execute the normal termination or planned shutdown of HiRDB again.</li> </ul>
Pst8br0	A receive timeout occurred when information for recovering related transactions was being transmitted during transaction recovery processing. In UNIX, the files under <code>/dev/HiRDB/</code> path were deleted while HiRDB was running.	If there is a machine for which the power is off (or the network is down), turn on the power (or bring up the network). In addition, reduce the level of multiple access to HiRDB.
PstA0m0 PstAlm7 Pst80r7 Pstf0r0 Pstclrd Pstclr2 Pstclr3 Pstclrf	Memory allocation failed.	Re-estimate the memory. Or, reduce the number of processes in the system and re-execute. If this error recurs, contact a customer engineer.
Pstb0r6 Pstb0rB	The buffer size is too small; the transaction processing is terminated.	Change the value specified in the <code>pd_log_max_data_size</code> operand of the server common definition for each server to the target specification value.
Pstc2r1	Unable to continue transaction recovery due to a network error; the system is abnormally terminated.	Resolve the error, and then restart HiRDB.
PstD2m1	Unrecoverable error, such as a communication error, occurred during transaction processing.	If the KFPS00992-I message was output after the process was aborted, take action based on that message. If the KFPS00990-I message was output, check its message completion type. If no message has been output, the transaction was committed in accordance with the requested commit type.

3. ABORT Codes

<b>ABORT Code</b>	<b>Cause</b>	<b>Action</b>
PstD2m9	A communication error occurred during commit processing.	Check the status of the system and the network. If the transaction is not settled, use the <code>pdcmr</code> or <code>pdrbk</code> command to settle it.
Pstf0r1	An attempt was made to modify a system definition that cannot be changed during restarting.	Restart the system by resetting the values of <code>pd_max_users</code> , <code>pd_max_bes_process</code> , and <code>pd_max_dic_process</code> .
Pstf0ra	An attempt was made to input a record exceeding the record length stored in the status file and recorded during the last system operation. It is possible that a specification value in one of the following parameters was significantly changed: <code>pd_max_users</code> , <code>pd_max_bes_process</code> , and <code>pd_max_dic_process</code> .	
Pstf0rc	Operation directory environment is invalid.	Check that the operation directory is set up correctly and that no change has been made to the file privilege or file contents after setup. If the error recurs after setting up the environment again, contact a customer engineer.
Psth0ra	Different OLTP identifiers were set in an OLTP. For OpenTP1, the OLTP identifier specified in the user service or user service default definition differs from the OLTP identifier specified in the transaction service definition.	Use the same OLTP identifier in both the transaction service definition and the user service default definition or user service definition.
Psth0r1 Psth0rb Psth0rd Psth1r0 PstD5m3 PstD6m5 PstD6mg PstD7m4 Pst93m3	A timeout occurred due to processes contending for system resources. If transaction recovery processing is being performed, you can release the resource contention and continue transaction recovery by forcibly terminating and then restarting the applicable unit.	Reduce the number of concurrent accesses to HiRDB and re-execute. If the unit is stopped, restart it. If this error occurs frequently, contact a customer engineer.

ABORT Code	Cause	Action
Psti*** *: Any character string other than the Psti code that follows.	Error occurred during timer processing.	Check the error message that was output before ABORT for the cause of the error, take appropriate action, then re-execute. If no error message was output, save the error-related information and contact a customer engineer. The information to be acquired in the event of an error includes the files under %PDDIR%\spool and %PDDIR%\tmp, the event log (in UNIX, syslogfile), and standard error output.
Psti0rf	Transaction service function cannot be used because the PDUSER environment variable is defined incorrectly in the OpenTP1 definition.	Check if putenv PDUSER authorization identifier/password is specified in a definition other than OpenTP1's user service definition or user service default definition, take appropriate action (delete PDUSER from OpenTP1's transaction definition), then restart OpenTP1 and HiRDB.
Pstj14j	A synchronization point was not acquired during normal startup processing; the startup process is cancelled.	Check the cause of the problem and take corrective action based on the reason code indicated in the preceding KFPS02178-E message. After corrective action is taken, restart HiRDB.
Pstj14k	A synchronization point was not acquired during normal termination or planned shutdown; the termination process is cancelled.	Check the cause of the problem and take corrective action based on the reason code indicated in the preceding KFPS02178-E message. Also, because the normal termination or planned shutdown of HiRDB failed, take corrective action, and if necessary, restart HiRDB, and execute the normal termination or planned shutdown of HiRDB.
Pstj14m Pstj14n	A temporary memory shortage occurred.	Check the cause of the memory shortage, take corrective action, and then restart HiRDB.
Pstjf97	There is insufficient process native area.	Take action based on the instructions given in the KFPO00106-E message.
Pstmex1	Error occurred during transaction processing.	Save the files in %PDDIR%\spool, and the event log (in UNIX, syslogfile) of the unit where the error occurred, and contact a customer engineer.

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ABORT Code	Cause	Action
Pstmex2	Request for forced termination of a server process was accepted, but forced termination was aborted after the process was released because it was a critical process.	<p>Determine the reason why the request for forced termination of the process was accepted, based on the status of the executed transaction or on other messages that were output, and take corrective action as needed.</p> <p>If you intentionally used the <code>pdcancel</code> or other command to forcibly terminate the process, you need not take any corrective action for this abort code.</p> <p>On HiRDB/Parallel Server, if rollback processing on a back-end server requires 5 minutes or more to complete in response to a rollback request from a front-end server, the back-end server process may abort with this code (to speed up transaction commitment, the back-end server process is cancelled internally). You need not take any particular action when a large update for which rollback is expected to take a long time is being executed. However, if the rollback is not intentional, determine the cause of the rollback, and take corrective action.</p>

Table 3-10: Abort codes (PtXXXXX)

ABORT Code	Cause	Action
Pt00000	An invalid data code was detected (self-contradictory).	If an error message was output immediately before the process aborted, take corrective action based on that message. If no message was output, save the files under %PDDIR%\spool and %PDDIR%\conf, and the event log (in UNIX, syslogfile), and contact a customer engineer.
Pt00001	A transmission error occurred ( <code>send</code> ).	
Pt00002	A reception error occurred. ( <code>recv</code> ).	
Pt00003	Sent text is invalid (process start).	
Pt00004	Reply text is invalid (process start).	
Pt00005	Sent text is invalid (SQL execution).	
Pt00006	Reply text is invalid (SQL execution).	
Pt00007	A communication sequence is invalid.	
Pt00008	A log block is invalid.	
Pt00009	A log record is invalid.	
Pt00010	A service start error occurred ( <code>pd_com_call</code> ).	
Pt00011	A service stop error occurred ( <code>pd_com_poll_any_replies</code> ).	
Pt00012	Branch registration failed.	
Pt00013	Branch deletion failed.	
Pt00014	An attempt to acquire the host name of the primary system failed.	
Pt00015	Assertion failed.	
Pt00016	An attempt to build table definition information failed.	
Pt00017	An attempt to deserialize table definition information failed.	
Pt00018	An attempt to start service ( <code>connect</code> ) failed.	
Pt00019	An attempt to stop service ( <code>disconnect</code> ) failed.	
Pt00020	An abnormal termination was detected on the communication target.	

3. ABORT Codes

Table 3-11: ABORT codes (PuXXXXX)

ABORT Code	Cause	Action
Pu**** *: Any character string	Error occurred in the common system service function.	Check the error message that was output before ABORT for the cause of the error, take appropriate action, then re-execute. If no error message was output, save the error-related information and contact a customer engineer. The information to be acquired in the event of an error includes the files under %PDDIR%\spool and standard error output.
Pu00000	Invalid data code was detected.	Contact a customer engineer.
Pu00001	Transmission error occurred.	
Pu00002	Management table is invalid (send).	
Pu00003	Management table is invalid (receive).	
Pu00004	Transmission error occurred.	
Pu00100	Invalid reply text was received.	
Pu00200	An internal conflict was detected during input data edit processing.	Save the files under %PDDIR%\spool, and the contents of the control information file that was specified when the utility was executed, as data, and contact a customer engineer.
Pu01000	Request code is invalid (input data receive processing).	
Pu01001	Request code is invalid (error message send processing).	
Pu01002	Request code is invalid (index information send processing).	
Pu02000	Receive error occurred (pdi_com_recv).	In the case of server termination, there is no need to contact a customer engineer.

<b>ABORT Code</b>	<b>Cause</b>	<b>Action</b>
Pu02001	Preparations for communication cannot be performed.	Take action appropriate to the error message.
Pu02002	Transmission is not available due to the status.	
Pu02003	Index information cannot be received.	
Pu02004	Timeout occurred while waiting for a message from the server.	
Pu02100	COMMIT cannot be issued due to the status.	
Pu03000	RDAREA ID is invalid.	
Pu04000	An invalid server activation request was received.	Save the files under %PDDIR%\spool, and the contents of the control information file that was specified when the utility was executed, as data, and contact a customer engineer.
Pu04010	An interface conflict was detected.	
Pu04100	An area was destroyed by the UOC.	Correct the UOC error.
Pu04500	The status of the audit trail file is unknown.	Save the files under %PDDIR%\spool, and contact a customer engineer.
Pu04600	An error occurred that prevents processing from continuing when outputting to the audit trail file.	
Pu05000	An invalid plug-in function was detected.	Save the files under %PDDIR%\spool, and the contents of the control information file that was specified when the utility was executed, as data, and contact a customer engineer.
Pu05100	An error was detected in the plug-in function that prevented the continuation of processing.	
		Correct the cause of the error by referring to the KFPY99999-E message that was output before the abnormal termination. If there is no message output, or if an error that cannot be resolved at the user level occurs, save the files under %PDDIR%\spool, and contact a customer engineer.

### 3. ABORT Codes

ABORT Code	Cause	Action
Pu06000	An invalid utility work file was created.	<p>Take the following actions by referring to the KFPL00703-I message:</p> <ul style="list-style-type: none"> <li>• If the number of data items stored is equal to the number of data items in the input data file, data need not be recovered.</li> <li>• If the number of data items stored is less than the number of data items in the input data file or no messages are output, it is impossible to determine which data items failed to be stored. In this case, reset the utility to the condition that existed before it was executed and re-execute.</li> </ul> <p>This error occurs when the work file under the temporary directory (in UNIX, \$PDDIR/tmp and /usr/tmp; in Windows, %PDDIR%\tmp) created by the utility is destroyed. During the execution of the utility, do not operate on any of the files belonging to the HiRDB administrator that are stored under this directory.</p>
Pu07000	A reception error occurred (pdi_com_recv).	Take corrective action based on the KFPL20005-E and KFPL20100-E messages output immediately before the system terminated abnormally.
Pu07001	A communication message could not be sent.	Take corrective action based on the KFPL20100-E message output immediately before the system terminated abnormally.
Pu07002	An internal conflict occurred.	Save the files under %PDDIR%\spool, and the contents of the control information file that was specified when the utility was executed, as data, and contact a customer engineer.
Pu07003	An internal conflict occurred (invalid line ID).	
Pu07004	An error occurred during transaction processing (start, terminate, commit, or rollback).	Take corrective action based on the KFPL20020-E message output immediately before the system terminated abnormally.
Pu07005	A process cannot be started.	Eliminate the cause of the error based on the message output immediately before the system terminated abnormally. If an error that cannot be resolved occurs, save the files under %PDDIR%\spool, and contact a customer engineer.



<b>ABORT Code</b>	<b>Cause</b>	<b>Action</b>
Pu10000	Requested code is invalid (startup information receive processing).	Contact a customer engineer.
Pu10001	Requested code is invalid (parameter information receive processing).	
Pu10002	Contradiction was detected during row data retrieval processing.	
Pu10003	Requested code is invalid (parameter information send processing).	
Pu10004	Message log cannot be output.	
Pu10005	Invalid data was detected in the table to be unloaded.	The database is damaged. Check whether there is any conflict in the operation of the database. If the cause of damage cannot be found in the operating method, save the RDAREA in which the table is stored and the log for the affected server, and then contact a customer engineer. Recover the database from its backup, and then unload the table.
Pu10006	An internal conflict occurred (invalid content in DAT format data conversion buffer).	Save the files under %PDDIR%\spool, and the contents of the control information file that was specified when the utility was executed, as data, and contact a customer engineer.
Pu11000	An internal error occurred on reception of an unexpected request code.	Contact a customer engineer.
Pu11111	A commit cannot be performed.	Eliminate the cause of the error based on the KFPL20020-E message output immediately before the system terminated abnormally. If an error that cannot be resolved occurs, save the files under %PDDIR%\spool, and contact a customer engineer.

### 3. ABORT Codes

ABORT Code	Cause	Action
Pu12002	Processing results cannot be reported due to a communication error.	The system terminated abnormally because processing results could not be reported. However, free pages have been released, and the database can be accessed. If any unreleased free pages remain when you execute the <code>pddbst</code> command, eliminate the cause of the error by referring to any communication-related error message output immediately before the system terminated abnormally. Then, re-execute the command. If an error that cannot be resolved occurs, save the files under <code>%PDDIR%\spool</code> , and contact a customer engineer. The server can also terminate abnormally on this abort code if a system switchover occurs during the execution of the utility and the utility process that outputs result lists terminates abnormally.
Pu13000	There is a mistake in the startup parameter of the <code>pdreclaim</code> command.	If you are currently doing so, do not specify a table or an index with the <code>-k</code> option of the <code>pdrcrg</code> command. In other cases, save the files under <code>%PDDIR%\spool</code> , and contact a customer engineer.
Pu15100	Error was detected in the plug-in function that prevented the further continuation of processing.	Correct the cause of the error by referring to the KFPY99999-E message that was output before the abnormal termination. If there is no message output or if an error that cannot be resolved at the user level occurs, save the files under <code>%PDDIR%\spool</code> , and contact a customer engineer.
Pu20000	Open processing was attempted on a file with an invalid path name.	Determine whether the path name of the file is a null value. If the specification of the path name is correct, save the files under <code>%PDDIR%\spool</code> , and contact a customer engineer.
Pu20001	An error occurred during transaction processing (startup, termination, commit, or rollback).	Save the files under <code>%PDDIR%\spool</code> , and contact a customer engineer.

Table 3-12: Abort codes (PwXXXXX)

ABORT Code	Cause	Action
Pw05000	An internal conflict occurred during HiRDB startup.	Save the files under %PDDIR%\spool, %PDDIR%\conf, and %PDDIR%\tmp, and the event log (in UNIX, syslogfile), and contact a customer engineer.
Pw05001	An error occurred during analyses of foreign server information definitions.	Eliminate the cause of the error based on the KFPW05001-E message output immediately before the system terminated abnormally. If no error message was output, save the files under %PDDIR%\spool, %PDDIR%\conf, and %PDDIR%\tmp, and the event log (in UNIX, syslogfile), and contact a customer engineer.
Pw05002	An internal conflict occurred during reading of a HiRDB internal file.	Save the files under %PDDIR%\spool, %PDDIR%\conf, and %PDDIR%\tmp, and the event log (in UNIX, syslogfile), and contact a customer engineer.
Pw05003	An internal conflict occurred during acquisition of HiRDB External Data Access Adapter information.	Save the files under %PDDIR%\spool, and contact a customer engineer.
Pw05021	An internal conflict occurred during shared memory computation processing.	
Pw05030	An internal conflict occurred during dictionary search processing.	Save the files under %PDDIR%\spool, %PDDIR%\conf, and %PDDIR%\tmp, and the event log (in UNIX, syslogfile), and contact a customer engineer.
Pw05031	An internal conflict occurred during creation of a HiRDB internal file.	
Pw05032	An internal conflict occurred during creation of a HiRDB internal file.	Save the files under %PDDIR%\spool and contact a customer engineer.
Pw06000	An error occurred during process startup.	Take corrective action based on the message output immediately before the process aborted. Then, re-execute. If no error message was output, save the files under %PDDIR%\spool, %PDDIR%\conf, and %PDDIR%\tmp, and the event log (in UNIX, syslogfile), and contact a customer engineer.

### 3. ABORT Codes

<b>ABORT Code</b>	<b>Cause</b>	<b>Action</b>	
Pw06011	An internal conflict occurred during process termination.	If no error message was output, save the files under %PDDIR%\spool, %PDDIR%\conf, and %PDDIR%\tmp, and the event log (in UNIX, syslogfile), and contact a customer engineer.	
Pw06016	An internal conflict occurred.		
Pw06017	An internal conflict occurred.		
Pw07001	An internal conflict occurred during transaction start processing.		
Pw07002	An internal conflict occurred during transaction end processing.		
Pw07016	An internal conflict occurred.		
Pw08001	An internal conflict occurred on the thread start trigger.		
Pw08002	An internal conflict occurred on the thread end trigger.		
Pw09001	A failure occurred during message output processing.		
Pw09003	An internal conflict was detected during statistics log output processing.		
Pw09004	An internal conflict was detected during statistics log editing.		
Pw10000	An internal conflict was detected during connection information assignment processing.		Eliminate the cause of the error based on the KFPW02501-E message output immediately before the system terminated abnormally. If no error message was output, save the files under %PDDIR%\spool, %PDDIR%\conf, and %PDDIR%\tmp, and the event log (in UNIX, syslogfile), and contact a customer engineer.

<b>ABORT Code</b>	<b>Cause</b>	<b>Action</b>
Pw10001	An internal conflict was detected during connection to a foreign server.	Save the files under %PDDIR%\spool, %PDDIR%\conf, and %PDDIR%\tmp, and the event log (in UNIX, syslogfile), and contact a customer engineer.
Pw10002	An internal conflict was detected during disconnection from a foreign server.	
Pw10003	An internal conflict was detected during release of connection information.	
Pw10010	SQL was executed for an external table without HiRDB External Data Access installed.	
Pw10011	An internal conflict was detected when SQL was executed.	
Pw10012	An internal conflict was detected when SQL was executed.	
Pw10013	The foreign server definition for executing the SQL to be processed does not exist.	Define the foreign server with CREATE SERVER, and restart HiRDB.
Pw10014	An internal conflict was detected when SQL was executed.	Save the files under %PDDIR%\spool, %PDDIR%\conf, and %PDDIR%\tmp, and the event log (in UNIX, syslogfile), and contact a customer engineer.
Pw10015	An internal conflict was detected when SQL was executed.	
Pw10016	An internal conflict was detected when loading HiRDB External Data Access Adapter.	
Pw15000	An internal conflict was detected.	
Pw20001	An unexpected return value was returned from HiRDB External Data Access Adapter.	
Pw20003	An internal conflict was detected when SQL was executed.	

Table 3-13: ABORT codes (PxXXXXX)

<b>ABORT Code</b>	<b>Cause</b>	<b>Action</b>
Pxe7500	Error that prevents continued processing was detected during execution of the dictionary export/import utility.	The error cause is output in the KFPX18430-E message. Contact a customer engineer.

3. ABORT Codes

<b>ABORT Code</b>	<b>Cause</b>	<b>Action</b>
Pxi0002	HiRDB file write error occurred.	Save the files under %PDDIR%\spool and contact a customer engineer.
Pxi0007	RPC communication ID is invalid.	
Pxj0001	JAR file transfer between hosts failed.	Re-execute the command. If the error occurs again after re-execution, contact a customer engineer.
Pxj0002	Invalid interface was detected while analyzing the definition file.	Contact a customer engineer.
Pxj0003	Contradiction was detected while analyzing pd_java_archive_directory.	
Pxj0004	Contradiction was detected while analyzing the pdstart command parameters.	
Pxm0001	Allocation of text area failed.	Communication area cannot be allocated. Take action appropriate to the KFPX24201-E message.
Pxm0002	HiRDB file write error occurred.	Save the files under %PDDIR%\spool and contact a customer engineer.
Pxm0003	Internal conflict occurred in the dictionary.	Ensure that the dictionary table recovery and reorganization procedures are correct. If the procedures are correct, save the files under %PDDIR%\spool, back up the data dictionary RDAREA by specifying -Mr in pdcopy, and contact a customer engineer.
Pxm0004	Error occurred during global buffer allocation.	Save the files under %PDDIR%\spool and contact a customer engineer.
Pxm0005	Internal conflict occurred in the directory.	Ensure that the master directory RDAREA recovery procedure and the data dictionary RDAREA recovery and reorganization procedures are correct. If the procedures are correct, save the files under %PDDIR%\spool and \dbenv, back up the master directory RDAREA and data dictionary RDAREA by specifying -Mr for pdcopy, and contact a customer engineer.
Pxm0006	Internal conflict occurred in the global buffer.	Save the files under %PDDIR%\spool and \dbrv and contact a customer engineer.

<b>ABORT Code</b>	<b>Cause</b>	<b>Action</b>
Pxm0009	Transaction commit or rollback failed.	Eliminate the cause of the error based on the KFPX24214-E message output immediately before the system terminated abnormally. If an error that cannot be resolved occurs, save the files under %PDDIR%\spool, and contact a customer engineer.
Pxv0001	Transaction commit or rollback processing failed.	Eliminate the cause of the error based on the KFPX24400-E message output immediately before the system terminated abnormally. If an error that cannot be resolved occurs, save the files under %PDDIR%\spool, and contact a customer engineer.
Pxv0002	Internal conflict occurred in the dictionary.	Ensure that the dictionary table recovery and reorganization procedures are correct. If the procedures are correct, save the files under %PDDIR%\spool and the backup of the data dictionary RDAREA obtained before the version upgrade, and contact a customer engineer.

*Table 3-14: ABORT codes (PyXXXXX)*

<b>ABORT Code</b>	<b>Cause</b>	<b>Action</b>
Pyp1101	A plug-in requested abnormal termination.	Take action based on the KFPY03001-E message.
Pysf001	Internal conflict was detected.	Contact a customer engineer.
Pysf002		

3. ABORT Codes

<b>ABORT Code</b>	<b>Cause</b>	<b>Action</b>
Pysf007	An error occurred in a plug-in call during transaction processing.	<p>If the KFPY99999-I message is output, take action according to this message. If HiRDB is terminated after an action was taken, restart HiRDB.</p> <p>If no KFPY99999-I message was output, save the files under %PDDIR%\spool, %PDDIR%\tmp, and %PDDIR%\plugin, and the event log (in UNIX, syslogfile), and contact a customer engineer.</p>
Pysf008	An error occurred in a plug-in call at the transaction recovery process termination timing.	
Pysf009	An error occurred in a plug-in call at the database recovery utility process startup timing and user process startup timing.	
Pysf00a	An error occurred in a plug-in call at the database recovery utility process termination timing and user process termination timing.	
Pysf00b	An error occurred in a plug-in call at the roll forward processing process startup timing.	
Pysf00c	Internal conflict was detected.	Contact a customer engineer.
Pysf00d	An error occurred in a plug-in call at the roll forward processing process termination timing.	<p>If the KFPY99999-I message is output, take action according to this message. If HiRDB is terminated after an action was taken, restart HiRDB.</p> <p>If no KFPY99999-I message was output, save the files under %PDDIR%\spool, %PDDIR%\tmp, and %PDDIR%\plugin, and the event log (in UNIX, syslogfile), and contact a customer engineer.</p>
Pysf00e	Internal conflict was detected.	Contact a customer engineer.
Pysf00f	An error occurred in a plug-in call at the transaction recovery processing process termination timing.	<p>If the KFPY99999-I message is output, take action according to this message. If HiRDB is terminated after an action was taken, restart HiRDB.</p> <p>If no KFPY99999-I message was output, save the files under %PDDIR%\spool, %PDDIR%\tmp, and %PDDIR%\plugin, and the event log (in UNIX, syslogfile), and contact a customer engineer.</p>
Pysf010	Internal conflict was detected.	Contact a customer engineer.



ABORT Code	Cause	Action
Pysf012	An error occurred in a plug-in call at the thread startup timing.	<p>If the KFPY99999-I message is output, take action according to this message. If HiRDB is terminated after an action was taken, restart HiRDB.</p> <p>If no KFPY99999-I message was output, save the files under %PDDIR%\spool, %PDDIR%\tmp, and %PDDIR%\plugin, and the event log (in UNIX, syslogfile), and contact a customer engineer.</p>
Pysf013	An error occurred in a plug-in call at the thread termination timing.	
Pysf015	An error occurred in a plug-in call at the transaction startup timing for the transaction recovery processing process.	
Pysf016	An error occurred in a plug-in call at the transaction prepare processing timing.	
Pysf017	An error occurred in a plug-in call at the transaction commitment processing timing.	
Pysf018	An error occurred in a plug-in call at the transaction commitment processing timing.	
Pysf019	An error occurred in a plug-in call at the thread startup timing for a database recovery utility process.	
Pysf01a	An error occurred in a plug-in call at the thread ending timing for a Database Recovery Utility process.	
Pysf01b	An error occurred when the front-end server was being started.	<p>If the message KFPY01001-E, KFPY01002-W, KFPY01003-E, KFPY01004-E, KFPY01005-E, or KFPY01012-E is output, take action according to the message. If a unit is already started, normally terminate it and then restart HiRDB.</p> <p>If the above messages were not output, save the files under %PDDIR%\spool, %PDDIR%\tmp, and %PDDIR%\plugin, and the event log (in UNIX, syslogfile), and contact a customer engineer.</p>
Pysf01c	An error occurred when the back-end server was being started.	
Pysf01d	An error occurred when the dictionary server was being started.	<p>If the message KFPY01002-W, KFPY01005-E, or KFPY01007-E is output, take action according to the message. After that, restart HiRDB if it has been terminated. If a unit is already started, normally terminate it and then restart HiRDB.</p> <p>If the above messages were not output, save the files under %PDDIR%\spool, %PDDIR%\tmp, and %PDDIR%\plugin, and the event log (in UNIX, syslogfile), and contact a customer engineer.</p>

3. ABORT Codes

ABORT Code	Cause	Action
Pysf01e	An error occurred in a plug-in call at the rollback process startup timing or termination timing for the database recovery utility.	If the KFPY99999-I message is output, take action according to this message. If HiRDB is terminated after an action was taken, restart HiRDB. If no KFPY99999-I message was output, save the files under %PDDIR%\spool, %PDDIR%\tmp, and %PDDIR%\plugin, and the event log (in UNIX, syslogfile), and contact a customer engineer.
Pysf01f	Error occurred while calling a server startup process plug-in.	
Pysf020	Internal conflict was detected.	Contact a customer engineer.
Pys0001	An internal conflict was detected	Save the files under %PDDIR%\spool, %PDDIR%\tmp, and %PDDIR%\plugin, and the event log (in UNIX, syslogfile), and contact a customer engineer.
Pys0002		
Pys0003		
Pys0004		
Pys0005		
Pys0006		
Pys0007		
Pys0008		
Pys000b		
Pys000c		
Pys000d		
Pys000e		
Pys000f		
Pys0010		
Pys0011		
Pys0012		
Pys0013		
Pys0014		
Pys0015		
Pys0016		

ABORT Code	Cause	Action
Pys0017		
Pys0018		
Pys0019		
Pys001a		
Pys001b		
Pys001c		
Pys001d		
Pys001e		
Pys001f		
Pys0020		
Pys0021		
Pys0022		

Table 3-15: ABORT codes (PiXXXXX)

ABORT Code	Cause	Action
Pia4010	An attempt was made to create a message queue identifier, but the system-determined number of message queue identifiers for the entire system has exceeded the limit.	Revise the message queue estimation formula to increase the number of message queue identifiers, and restart HiRDB.
Pia4011	A message send/receive error has occurred.	If message queue identifiers for users have been removed from the system, restart HiRDB. If that is not the case, save the files under %PDDIR%\spool, and then restart HiRDB. Also, contact a customer engineer.
Pia***** *: Any character string	An internal conflict was detected.	Save the files under %PDDIR%\spool, and restart HiRDB. Also, contact a customer engineer.



## Chapter

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# 4. Error Detail Codes

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This chapter explains the detail codes for RPC-related errors, detail codes for system-related errors, and system return codes.

This chapter contains the following sections:

- 4.1 Detail codes for RPC-related errors
- 4.2 Detail codes for system-related errors
- 4.3 System call return codes

## 4.1 Detail codes for RPC-related errors

RPC-related errors are output in cases such as the following:

- During communication between the HiRDB server and HiRDB client
- During communication between HiRDB servers
- During the initialization of communication resources when a process is started

If an RPC-related error is output, check the detail codes in *Table 4-2*, as well as the contents of frequently occurring causes in *Table 4-1*. Also, if an error message caused by a communication error is output, in some cases RPC-related detail error codes do not appear in the message. In this case, too, contents of frequently occurring causes in *Table 4-1* should be checked.

Note that even when a detail code for RPC-related errors is output, the problem can sometimes be resolved through an internal retry. The problem should be investigated and corrective action should be taken in the following cases:

- The UAP, the utility, or the command encounters an error and terminates abnormally or fails to respond.
- The unit or server terminates abnormally or fails to respond.
- Error messages are always output, rather than temporarily.

Table 4-1 shows frequently occurring causes and required corrective action for RPC-related errors.

*Table 4-1: Frequently occurring causes and required action for RPC-related errors*

No.	Error description	Meaning	Action
1	Host name or port number error	<ul style="list-style-type: none"> <li>• The host name or port number specified in the client environment definition contains an error.</li> <li>• The host name or port number specified in the system definition contains an error.</li> </ul>	Review the following definitions, and revise as necessary: <ul style="list-style-type: none"> <li>• Client environment definitions:               <ul style="list-style-type: none"> <li>PDHOST</li> <li>PDFESHOST</li> <li>PDCLTRCVADDR</li> <li>PDNAMEPORT</li> <li>PDSERVICEPORT</li> <li>PDCLTRCVADDR</li> </ul> </li> <li>• System definitions:               <ul style="list-style-type: none"> <li>pd_name_port</li> <li>pd_service_port</li> </ul>               The -x, -c, and -p in the pdunit operand             </li> </ul>

No.	Error description	Meaning	Action
2	System resources shortage	<ol style="list-style-type: none"> <li>1. Not enough ports</li> <li>2. Not enough memory</li> <li>3. Not enough files that can be opened by the system</li> <li>4. Not enough files that can be opened by processes</li> <li>5. Message queue operation error</li> </ol>	<p>Take one of the following actions:</p> <ol style="list-style-type: none"> <li>1. Not enough ports: Take corrective action according to the contents of the preceding KFPS00349-E message.</li> <li>2. Not enough memory: There is not enough process-private area. Review the memory requirements. Terminate any unneeded processes.</li> <li>3. Not enough files that can be opened by the system (the limit on files that can be opened has been exceeded):  <b>UNIX version:</b>            Increase the maximum number (<code>nfile</code> for HP-UX, <code>maxuproc × nofiles × fixed number of licenses</code> for AIX 5L, or <code>NR_FILE</code> or <code>fs.file-max</code> for Linux) of files that can be opened by the system in terms of an OS parameter (kernel parameter). Also, terminate any unneeded processes and windows.  <b>Windows version:</b>            On the installation drive, allocate at least as much free space as is required for the shared memory size.</li> <li>4. Not enough files that can be opened by a process (the limit on the number of files that can be opened has been exceeded):  <b>UNIX version:</b>            Increase the maximum number (<code>maxfiles_lim</code> for HP-UX, <code>rlim_fd_max</code> for Solaris, <code>nofiles_hard</code> for AIX 5L, or <code>NR_OPEN</code> for Linux) of files that can be opened by a process, in terms of an OS parameter (kernel parameter). If the specification value for <code>pd_max_open_fds</code> is too small, it should be increased.  <b>Windows version:</b>            On the installation drive, allocate at least as much free space as is required for the shared memory size.</li> <li>5. Message queue manipulation error:  <b>UNIX version:</b>            Review message queue-related parameters in terms of OS parameters (kernel parameters).  <b>Windows version:</b>            On the installation drive, allocate at least as much free space as is required for the shared memory size. Or, assign the required number of resources to the system environment variable <code>PDUXPLMSGMNI</code> (number of message queue identifiers) or to the system environment variable <code>PDUXPLMSGTQL</code> (number of message queue tables). For making estimates, see the <i>HiRDB Version 8 Installation and Design Guide</i>.</li> </ol>

4. Error Detail Codes

No.	Error description	Meaning	Action
3	Unresolvable host name or IP address	In the <code>gethostbyname</code> or <code>gethostbyaddr</code> system call, a conversion failure occurred from host name to IP address or from IP address to host name.	<p>Check the following items and revise as necessary:</p> <ul style="list-style-type: none"> <li>• <code>hosts</code> file settings error</li> <li>• Invalid privilege for the <code>hosts</code> file</li> <li>• Settings errors on various DNS and NIS settings files (<code>nsswitch.conf</code>, <code>resolv.conf</code>, etc.)</li> <li>• Invalid privilege for various DNS and NIS settings files (<code>nsswitch.conf</code>, <code>resolv.conf</code>, etc.)</li> </ul> <p>Note that if DNS or NIS is used, errors can occur during communications with the DNS or NIS server. Also, an error can occur in a multiple-unit configuration if the host name used by HiRDB is given the loopback address (127.0.0.1).</p>
4	Invalid <code>/dev/HiRDB/pth</code>	<p>The <code>/dev/HiRDB/pth</code> directory is invalid.</p> <ul style="list-style-type: none"> <li>• inode shortage</li> <li>• Directory not found</li> <li>• Invalid privilege</li> <li>• Other</li> </ul>	<p>Check to see if HiRDB is correctly installed. If HiRDB is correctly installed, terminate all copies of HiRDB running on the indicated unit, and take the following actions:</p> <ul style="list-style-type: none"> <li>• inode shortage: Delete the files under the path <code>/dev/HiRDB/pth</code>.</li> <li>• Directory not found, invalid privilege, etc.: Execute the <code>pdsetup -d</code> command, followed by the <code>pdsetup</code> command.</li> </ul>
5	Server or unit not running	The communication destination unit or server is not running.	Start the communication destination unit or the server. If the unit or the server has abnormally terminated, check the preceding message, resolve the cause of the error, and then restart the unit or server. If the online status can be maintained in this condition (such as during reduced operation), the problem can be ignored.
6	Network error	<p>A network error occurred.</p> <ol style="list-style-type: none"> <li>1. Hardware error</li> <li>2. Software error in a layer below the OS level</li> <li>3. Insufficient Listen queue</li> </ol>	<p>Take one of the following actions:</p> <ol style="list-style-type: none"> <li>1. Use the <code>ping</code> command of the OS to determine if the network for the host being used is operating normally.</li> <li>2. Refer to the OS manual to determine if there is a network error.</li> <li>3. It is possible that the Listen queue is full due to the occurrence of too many requests for connection to the HiRDB server. If that is the case, wait for a period of time and then re-execute. In UNIX, increase the value specified for the Listen queue.</li> </ol>

Table 4-2 shows the detail codes for RPC-related errors.



Table 4-2: Detail codes for RPC-related errors

Detail Code	Name	Explanation	Action
-301	PDRPCER_INVALID_ARGS	Argument is invalid	See <i>Table 4-1 Frequently occurring causes and required action for RPC-related errors</i> to determine if there are applicable errors. If there are no applicable errors, refer to the event logs (in UNIX, syslogfile) of all server units and the OS log files (such as the hard disk logs) to determine whether any error messages were output immediately before the error. If there is an error message, take corrective action according to the message. If no error messages were output and no corrective action can be taken, save the event logs (in UNIX, syslogfile) for all server units and the files under %PDDIR%\spool, and contact a customer engineer.
-302	PDRPCER_PROTO	Protocol error occurred (function sequence is invalid).	Take corrective action for detail code -301.
-303	PDRPCER_FATAL	The following are possible causes: (1) Not enough memory. (2) Invalid system definition. (3) Error in a system file. (4) Not enough communication resources. <ul style="list-style-type: none"> <li>• A shortage of ports</li> <li>• The number of files that can be opened in the system or process exceeds the limit.</li> </ul> (5) In UNIX, the volume (disk) where /dev/HiRDB/pth resides is invalid (insufficient inode, invalid privilege, or non-existing directory, etc.). (6) The number of activated processes exceeded the value specified in the pd_max_server_process operand. (7) Error in the host name or port number. (8) Unable to resolve the host name. For other than the above, a fatal or unexpected error occurred.	If the cause is (1), (4), (5), (7) (8), see <i>Table 4-1 Frequently occurring causes and required action for RPC-related errors</i> , and take corrective action. If the cause is (2), execute the pdconfchk command to revise the operand in error. If the cause is (6), either reduce the number of activate processes (pd_max_users, pd_process_count, etc.) or increase the maximum number of activate processes (pd_max_server_process). In other cases, see the corrective action for detail code -301.

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Detail Code	Name	Explanation	Action
-304	PDRPCER_NO_BUFS	<p>The following are possible causes:</p> <ol style="list-style-type: none"> <li>(1) Not enough memory.</li> <li>(2) The number of files that can be opened in the system exceeds the limit</li> <li>(3) The number of files that can be opened in the process exceeds the limit.</li> <li>(4) The server is terminating.</li> <li>(5) The service is not registered.</li> <li>(6) The number of ports is insufficient (in Windows only)</li> </ol>	<p>If the cause is (1), (2), (3), or (6), see <i>Table 4-1 Frequently occurring causes and required action for RPC-related errors</i>, and take corrective action.</p> <p>If the cause is (4), restart the server and rerun the command.</p> <p>If the cause is (5), it is possible that the value of the client environment definition <code>PDSEVICEGRP</code> is in error (a server name other than a single server or a front-end server is specified).</p> <p>In other cases, see the corrective action for detail code -301.</p>
-306	PDRPCER_NET_DOW N	<p>An error occurred during communication processing or communication resource allocation processing. The following are possible causes:</p> <ol style="list-style-type: none"> <li>(1) Not enough memory</li> <li>(2) Not enough communication resources. <ul style="list-style-type: none"> <li>• Not enough ports.</li> <li>• The number of files that can be opened in the system or process exceeds the limit.</li> </ul> </li> <li>(3) In UNIX, the volume (disk) where <code>/dev/HIRDE/ptn</code> resides is invalid (insufficient <code>inode</code>, invalid privilege, or non-existing directory, etc.).</li> <li>(4) Invalid host name or port number.</li> <li>(5) Unable to resolve the host name.</li> <li>(6) A network error occurred.</li> <li>(7) The communication destination unit or the server is not running.</li> </ol>	<p>See <i>Table 4-1 Frequently occurring causes and required action for RPC-related errors</i>, and take corrective action.</p>

Detail Code	Name	Explanation	Action
-307	PDRPCER_TIMED_OUT	Timeout occurred. If an error occurs in the UAP, command or utility, or an error occurs in the system server, preventing further online operations, the following possible causes should be suspected: (1) A network error occurred. (2) The communication destination unit or the server terminated abnormally.	This message can be ignored. However, if an error occurred in the UAP, command, or utility, or in the system server, preventing further execution of online operations, see <i>Table 4-1 Frequently occurring causes and required action for RPC-related errors</i> , and take corrective action.
-308	PDRPCER_MESSAGE_TOO_BIG	Input parameter length exceeds the limit.	See the corrective action for detail code -301.
-309	PDRPCER_REPLY_TOO_BIG	Reply length exceeds the length of the area provided by the calling source.	
-310	PDRPCER_NO_SUCH_SERVICE_GROUP	The communication destination unit or the server is not running.	See <i>Table 4-1 Frequently occurring causes and required action for RPC-related errors</i> , and take corrective action.
-311	PDRPCER_NO_SUCH_SERVICE	Service has not been registered.	It is possible that a server name other than a single server or a front-end server is specified in the client environment definition PDSERVICEGRP. In other cases, see the corrective action for detail code -301.
-312	PDRPCER_SERVICE_CLOSED	The communication destination unit or the server is not running.	See <i>Table 4-1 Frequently occurring causes and required action for RPC-related errors</i> , and take corrective action.
-313	PDRPCER_SERVICE_TERMINATING	Service is engaged in termination processing.	See the corrective action for detail code -301.

4. Error Detail Codes

Detail Code	Name	Explanation	Action
-314	PDRPCER_SERVICE_NOT_UP	An error occurred during communication processing or communication resource allocation processing. The following are possible causes: (1) Not enough memory. (2) Not enough communication resources. <ul style="list-style-type: none"> <li>• Not enough ports.</li> <li>• The number of files that can be opened in the system or process exceeds the limit.</li> </ul> (3) In UNIX, the volume (disk) where /dev/hiRDB/ptn resides is invalid (insufficient inode, invalid privilege, or non-existing directory, etc.). (4) Invalid host name or port number. (5) Unable to resolve the host name. (6) A network error occurred. (7) The communication destination unit or the server is not running.	See Table 4-1 <i>Frequently occurring causes and required action for RPC-related errors</i> , and take corrective action.
-315	PDRPCER_OLTF_NO_T_UP	The communication destination unit or the server is not running.	
-316	PDRPCER_SYSERR_AT_SERVER	A system error occurred.	See the corrective action for detail code -301.
-317	PDRPCER_NO_BUFS_AT_SERVER	The following are possible causes: (1) Not enough memory. (2) The number of files that can be opened by the system exceeded the limit. (3) The number of files that can be opened by the process exceeded the limit. (4) The server is terminating. (5) The service is not registered.	If the cause is (1), (2), or (3), see Table 4-1 <i>Frequently occurring causes and required action for RPC-related errors</i> , and take corrective action. If the cause is (4), restart the server and rerun the command. If the cause is (5), it is possible that the value of the client environment definition PDSERVICEGRP is in error (a server name other than a single server or a front-end server is specified). In other cases, see the corrective action for detail code -301.

Detail Code	Name	Explanation	Action
-318	PDRPCER_SYSERR	System error occurred.	See the corrective action for detail code -301.
-319	PDRPCER_INVALID_REPLY	Length of reply is invalid after execution of service function.	
-320	PDRPCER_OLTF_INITIALIZING	The communication destination unit or the server is not running.	See <i>Table 4-1 Frequently occurring causes and required action for RPC-related errors</i> , and take corrective action.
-321	PDRPCER_ALL_RECEIVED	All text has been received.	See the corrective action for detail code -301.
-323	PDRPCER_NO_BUFS_RB	The following are possible causes: (1) Not enough memory. (2) The number of files that can be opened in the system exceeds the limit. (3) The number of files that can be opened in the process exceeds the limit. (4) The server is terminating. (5) The service is not registered.	If the cause is (1), (2), or (3), see <i>Table 4-1 Frequently occurring causes and required action for RPC-related errors</i> , and take corrective action. If the cause is (4), restart the server and rerun the command. If the cause is (5), it is possible that the value of the client environment definition <code>PDSERVICEGRP</code> is in error (a server name other than a single server or a front-end server is specified). In other cases, see the corrective action for detail code -301.
-324	PDRPCER_SYSERR_RB	A system error occurred.	See the corrective action for detail code -301.
-325	PDRPCER_SYSERR_AT_SERVER_RB		
-326	PDRPCER_REPLY_TOO_BIG_RB		
-330	PDRPCER_NO_POOL_AT_SERVER	There is a shortage of buffer pools required in the HiRDB communications. The following are possible causes: (1) The <code>pdchprc</code> command was used to request service from the server for which the maximum number of activate processes had been set to 0. (2) There are too many concurrently running UAPs or utilities.	(1) The <code>pdchprc</code> command was used to request service from the server for which the maximum number of activate processes had been set to 0. (2) There are too many concurrently running UAPs or utilities.

4. Error Detail Codes

Detail Code	Name	Explanation	Action
-335	PDRPCER_ROLLBACK_INTR	An internal rollback request was received. This message is generated when the <code>pdstop</code> command is executed while a utility is running or when a process related to the transaction or utility goes down.	If a message indicating an internal rollback as the cause was output before this message, take corrective action according to that message. If there is no message, contact a customer engineer.
-344	PDRPCER_NO_DEVICE	Directory <code>/dev/HirDB/pt</code> is invalid.	See <i>Table 4-1 Frequently occurring causes and required action for RPC-related errors</i> , and take corrective action.
-350	PDRPCER_UNLOAD_FRAGMENT	Fragment was damaged.	See the corrective action for detail code -301.
-351	PDRPCER_NO_SUCH_TYPES	Representation format specified for type conversion is not supported.	
-352	PDRPCER_NO_SUCH_ADDR	The specified IP address is not defined, or the IP address cannot be converted.	See <i>Table 4-1 Frequently occurring causes and required action for RPC-related errors</i> , and take corrective action.
-353	PDRPCER_NO_SUCH_NODENAME	The specified host name is not defined, or the host name cannot be converted.	
-354	PDRPCER_TOO_MANY_HANDLERS	The number of handlers exceeded the permitted value per process.	See the corrective action for detail code -301.
-355	PDRPCER_NOT_FOUND	Specified thread was not found or is a control thread.	
-356	PDRPCER_SERVER_BUSY	The following are possible causes: (1) There is too much load on the server, making it unable to perform service. (2) A memory shortage occurred.	If the cause is (1), rerun the command after a period of time. If this does not resolve the problem, see the corrective action for detail code -301. If the cause is (2), see <i>Table 4-1 Frequently occurring causes and required action for RPC-related errors</i> , and take corrective action.
-357	PDRPCER_SERVICE_INITIALIZING	RPC environment has not been started.	See the corrective action for detail code -301.
-359	PDRPCER_ALREADY_REPLIED	A reply has already been issued.	If the UAP, command, or utility is not in error, ignore this message. If there is an error in the UAP, command, or utility, see the corrective action for detail code -301.

Detail Code	Name	Explanation	Action
-360	PDRPCER_NOT_UPP_STARTED	The <code>pd_i_upp_start</code> operand is not issued.	See the corrective action for detail code -301.
-361	PDRPCER_NO_SERVICE_CLAUSE	A service clause is not defined in the user service definition.	
-362	PDRPCER_WRONG_NUMBER	Data other than <code>nam</code> was specified when registering, deleting, or retrieving service information in <code>nam</code> .	
-363	PDRPCER_UPP_FAILED	Acquisition of the system definition failed. The following are possible causes: (1) The system definition contains an error. (2) A memory shortage occurred during the acquisition of the system definition.	If the cause is (1), revise the system definition. If the cause is (2), see <i>Table 4-1 Frequently occurring causes and required action for RPC-related errors</i> , and take corrective action.
-364	PDRPCER_ERROR_REPLIED	Error occurred at the server.	See the corrective action for detail code -301.
-365	PDRPCER_TRACE_FILE_EMPTY	Trace file contains no data.	
-371	PDRPCER_PROFILE	The value of the <code>pd_registered_port</code> operand is invalid.	Take corrective action according to the preceding KFPS00346-E and KFPS00348-E messages.
-372	PDRPCER_RETRY_CONNECT	Either the <code>pdchgcnf</code> command or the <code>pdprgnew</code> command is currently executing.	If the UAP has not generated a connection error, the message should be ignored. If the cause is (1), wait until the <code>pdchgcnf</code> and <code>pdprgnew</code> commands terminate, and then rerun the commands. If the cause is (2), resolve the cause of the error, restart HiRDB, and rerun the command.
-373	PDRPCER_RETRY_TRANSACTION	If the UAP generated a connection error, the following possible causes should be suspected:	
-374	PDRPCER_RETRY_STOPPING	(1) The client library being used is older than Version 07-01.	
-375	PDRPCER_RETRY_STARTING	(2) Either the <code>pdchgcnf</code> or <code>pdprgnew</code> command failed, preventing HiRDB from starting.	
-376	PDRPCER_TRNPAUSE	The new transaction scheduling suppressed status is on.	Use the <code>pdls -d svr</code> command to identify the server in a new transaction scheduling suppressed status and resolve the cause of the error. If there is no server in a new transaction scheduling suppressed status, rerun the UAP or the utility.

4. Error Detail Codes

<b>Detail Code</b>	<b>Name</b>	<b>Explanation</b>	<b>Action</b>
Other	—	—	See the corrective action for detail code -301.



## 4.2 Detail codes for system-related errors

Table 4-3 lists the detail codes for system-related errors.

Table 4-3: Detail codes for system-related errors

Detail Code	Description	Explanation
-104	Not enough process-private memory	In <i>Table 4-4</i> , see <i>System call</i> = <code>malloc</code> , <i>Mnemonic</i> = <code>ENOMEM</code> to check the cause of the error, and take corrective action.
-152	The number of shared memory segments is over the limit.	Increase the value specified in the <code>SHMMAX</code> and <code>SHMMAX</code> operands of the OS parameters.
-164 -201	Not enough process-private memory	In <i>Table 4-4</i> , see <i>System call</i> = <code>malloc</code> , <i>Mnemonic</i> = <code>ENOMEM</code> to check the cause of the error, and take corrective action.
-203 -206	The value specified for the operand is invalid	Refer to the messages output immediately before the error, identify the invalid operand, and specify a valid value.
-204	An error occurred in the HiRDB system definition	Consider the following causes: <ul style="list-style-type: none"> <li>A required HiRDB system definition was not created. Refer to the section on HiRDB system definition types in the manual <i>HiRDB Version 8 System Definition</i>, and create any uncreated HiRDB system definitions. Eliminate any errors due to required HiRDB system definitions that cannot be referenced by entering HiRDB system definitions that can be referenced.</li> <li>Files under <code>%PDDIR%\lib\sysconf</code> cannot be referenced. Make sure the files under <code>%PDDIR%\lib\sysconf</code> can be referenced.</li> </ul>
-205	An error occurred in the definition analysis files of the HiRDB system definition	The files under <code>%PDDIR%\lib\sysconf</code> cannot be referenced. Make sure the files under <code>%PDDIR%\lib\sysconf</code> can be referenced.
-202 -208 -209 -210	HiRDB system internal error	Contact the customer engineer.
-301 to -399	HiRDB internal communication error (See <i>4.1 Detail codes for RPC-related errors</i> .)	

#### 4. Error Detail Codes

Detail Code	Description	Explanation
-600	Internal error in the HiRDB system	If there is an error message, take corrective action according to the message. If there is no error message, contact a customer engineer.
-601	Communication destination server not found	
-604	Not enough process-private memory	In <i>Table 4-4</i> , see <i>System call</i> = <code>malloc</code> , <i>Mnemonic</i> = <code>ENOMEM</code> to check the cause of the error, and take corrective action.
-605	Version mismatch in service request test detected	Review the environment to determine whether the HiRDB client and the HiRDB server are in versions that can be interconnected and whether there are any invalid libraries on a mixed basis.
-632	Communication destination server not found	If there is an error message, take corrective action according to the message. If there is no error message, contact a customer engineer.
-640 -641	Communication error	
-642	Name service facility not started.	
-700	Process-to-process communication error	Check to see if either HiRDB or the process server has started.
-702	Invalid status	HiRDB is undergoing the following processing; if necessary, restart it, and then rerun the command: <ul style="list-style-type: none"> <li>• System termination processing</li> <li>• Abnormal termination processing</li> <li>• Forced termination processing</li> </ul>
-706	Server startup already reported	Contact the customer engineer.
-714	Maximum number of processes exceeded	The maximum number of active server processes per unit was exceeded. Re-execute the process after another command has terminated. Or, increase the value of the <code>pd_max_server_process</code> operand after terminating HiRDB.
-718	Undefined local domain name	Register the host name comprising the HiRDB system in the <code>hosts</code> file.
-723	Mismatch between command and server versions	Check to see, for example, if HiRDB files <code>%PDIR%\bin</code> of different versions are used through linking, and check the version of the entered command to ensure version consistency.
-724	Lock error	Contact the customer engineer.

Detail Code	Description	Explanation
-725	Server engaged in termination processing	HiRDB is undergoing termination processing. Start HiRDB, if necessary, and execute the command.
-726	Process not found	HiRDB is not active. Restart HiRDB, and then execute the command.
-727	Communication environment not started	Contact the customer engineer.
-734	Shared memory not allocated	
-816	Server startup failure	If the problem is on the server side, appropriate corrective action should be taken. If a problem has not occurred, contact a customer engineer.
-821	Server shut down	
-830	Not enough process-private memory	In <i>Table 4-4</i> , see <i>System call</i> = <code>malloc</code> , <i>Mnemonic</i> = <code>ENOMEM</code> to check the cause of the error, and take corrective action.
-832	Not enough memory	If there is a KFPS00854-W message from the server, take corrective action according to the message. If there is no error message, contact a customer engineer.
-839	HiRDB system server process terminating	After terminating HiRDB, start HiRDB.
-840	<ul style="list-style-type: none"> <li>• The service group specified in the client environment definition <code>PDSERVICEGRP</code> is in one of the following conditions: <ul style="list-style-type: none"> <li>• Not started</li> <li>• Starting</li> <li>• Stopped</li> </ul> </li> <li>• Error in the name of service group specified in the client environment definition <code>PDSERVICEGRP</code></li> </ul>	Review the status of the service group or the specification value in the <code>PDSERVICEGRP</code> operand, and take corrective action.
-856	Message queue manipulation ( <code>msgget</code> ) failure	If there is a KFPS00850-W message from the server, take corrective action according to the message.
-879	Error in server type specified in the client environment definition <code>PDSRVTYPE</code>	Start the HiRDB/Single Server, and then rerun the command. For a HiRDB/Parallel Server, start the front-end server at the connection destination, and then rerun the command.
-880	Message queue manipulation ( <code>msgget</code> ) failure	If there is a KFPS00850-W message from the server, take corrective action according to the message.

4. Error Detail Codes

Detail Code	Description	Explanation
-888	HiRDB server not started (startup process not completed)	Restart HiRDB after the server startup processing is complete.
-889	The single-server or the front-end server to connect to is not started	Start the HiRDB/Single Server, and then rerun the command. For a HiRDB/Parallel Server, start the front-end server at the connection destination, and then rerun the command.
-892	Limit on the number of concurrent connections exceeded	Either review the value of the <code>pd_max_users</code> operand or reduce the number of concurrent connections to the HiRDB server.
-893	HiRDB server undergoing termination processing	After terminating HiRDB, start HiRDB.
-894	Lock processing failed during connection	If the problem persists after the command is executed repeatedly, contact a customer engineer.
-895	Mismatch in service request text versions	Review the HiRDB client and HiRDB server environments.
-897	HiRDB system server process either starting or terminating	If HiRDB is being activated, wait until the activation process is complete, and then rerun the command. If HiRDB is undergoing termination processing, activate HiRDB after it has stopped. In addition, this message can be generated if HiRDB abnormally terminates or is aborted. If there is no abnormal termination or aborting, take corrective action according to the preceding error message. If there is no error message, save the information to be acquired in the event of an error, and then contact a customer engineer. The information to be acquired in the event of an error includes the files under <code>%PDDIR%\spool</code> , and the event log (in UNIX, syslogfile) of the system manager and the unit that output this detail code.
-902 -903 -904 -905 -906 -907 -908 -909 -910 -912 -915	HiRDB system internal error	If an error message was output before this message, take action appropriate to that message. If no error message was output, contact the customer engineer.
-916	Library version incompatible with daemon version	Check the media versions comprising the HiRDB system. Use matching versions and re-execute.

Detail Code	Description	Explanation
-917 -918 -919	HiRDB system internal error	If an error message was output before this message, take appropriate action according to that message. If no error message was output, contact the customer engineer.
-921	Transaction not settled	After the transaction undergoing recovery processing has been settled, rerun the error-flagged transaction or the command.
-943	Due to a recovery unnecessary front-end server, utility transactions cannot be generated.	Rerun the utility on a front-end server other than the recovery unnecessary front-end server.
-944	Connection is established to a recovery unnecessary front-end server from a UAP that uses the X/Open XA interface.	Reconnect to a front-end server other than the recovery unnecessary front-end server, and rerun the command.
-945 -946 -947	Either the <code>pdchgconf</code> command or the <code>pdprgnew</code> command is currently executing.	If the error occurred in a utility or operation command, terminate the <code>pdchgconf</code> or <code>pdprgnew</code> command, and re-execute the utility or operation command. If the error occurred in a UAP, check the following: <ul style="list-style-type: none"> <li>• If the client library is version 07-00 or later: The <code>pdchgconf</code> or <code>pdprgnew</code> command may have failed. Ask the system administrator to check HiRDB status, and re-execute the UAP once HiRDB is online.</li> <li>• If the client library version is earlier than 07-00: Terminate the <code>pdchgconf</code> or <code>pdprgnew</code> command, and re-execute the UAP.</li> </ul>
-948	Scheduling of new transactions is being suppressed.	Scheduling of new transactions is being suppressed. Using the <code>pdls -d svr</code> command, locate the server on which scheduling of new transactions is being suppressed, and eliminate the error. If no server is suppressing the scheduling of new transactions, re-execute the utility or UAP.
-949	HiRDB system engaged in termination processing	Rerun the command when HiRDB is active.
-1006	Error in status file input/output processing	Take corrective action in reference to the preceding KFPS01040-E message.
-1012	Not enough process-private memory	In <i>Table 4-4</i> , see <i>System call</i> = <code>malloc</code> , <i>Mnemonic</i> = <code>ENOMEM</code> to check the cause of the error, and take corrective action.
-1018	Status file size not large enough	Review the size of the status file and check to see if the required size is met.

4. Error Detail Codes

Detail Code	Description	Explanation
-1021	Input of required information from a server status file failed	This code is sometimes generated if all server status files are initialized before HiRDB is restarted. In this case, HiRDB cannot be restarted. If this problem occurs, cancel the restart process, and recover the database from a backup file.
-1024	Status file access failure	This code can be ignored if it is generated during the abnormal termination or aborting of HiRDB or a unit, or when HiRDB or a unit is stopped. If the message is generated in other cases, contact a customer engineer.
-1033	Communication error	See <i>Table 4-1 Frequently occurring causes and required action for RPC-related errors</i> and take appropriate corrective action. If corrective action cannot be taken, contact a customer engineer.
-1039	No swap-destination status file found (no backup file)	Either resolve the error in the status file that generated KFPS01040-E and KFPS01042-E messages, or create a backup file.

Detail Code	Description	Explanation
-1110	Invalid log point information detected	<p>For <code>pdi_jnl_show_recovery_fg()</code>:</p> <p>The following problems are suspected. Determine the cause of the error based on information output to the event log (in UNIX, <code>syslogfile</code>), and take corrective action.</p> <ul style="list-style-type: none"> <li>• Cause 1: The record length for the system log file is different from the value specified in the <code>pd_log_rec_leng</code> operand. The record length for the system log file can be determined by executing the <code>pdlogls -e</code> command. If this is the problem, make the record length for the system log file equal to the value specified in the <code>pd_log_rec_leng</code> operand.</li> <li>• Cause 2: The system log file indicated in the log point information file has been overwritten. In this case, the database cannot be recovered using the system log file. If this is the problem, restore the database to the condition that existed when a backup was made and re-execute the transactions that have occurred since the backup was made.</li> <li>• Cause 3: The system log file indicated in the log point information file is missing. Or, the user's access privilege to the system log file is invalid. In this case, check to see whether the system log file name specified in the <code>pdlogadpf</code> operand is the correct one. If the system log file created during the backup creation process has been removed from the <code>pdlogadpf</code> operand, add the file to the <code>pdlogadpf</code> operand and re-execute. Whether the user's access privilege is valid can be determined by executing the <code>pdf1s</code> command. Check to see whether the access privilege to HiRDB files has been improperly modified.</li> <li>• Cause 4: The log point information itself contains an error. If this is the case, contact the customer engineer.</li> </ul> <p>For other functions: Contact a customer engineer.</p>
-1113	Not enough process-private memory	<p>In <i>Table 4-4</i>, see <i>System call = malloc, Mnemonic = ENOMEM</i> to check the cause of the error, and take corrective action.</p>
-1117 -1118	Log input starting failure	<ul style="list-style-type: none"> <li>• For <code>pdi_jnl_org_get_start()</code>: Take corrective action by seeing the preceding KFPS01170-E and KFPS01171-E messages.</li> <li>• For other functions: Contact a customer engineer.</li> </ul>

4. Error Detail Codes

Detail Code	Description	Explanation
-1143	Log positioning failure	<ul style="list-style-type: none"> <li>For <code>pdi_jnl_org_point_set()</code>: If there is a preceding KFPS01040-E message, take corrective action according to the message. If there is no message, contact a customer engineer.</li> <li>For <code>pdi_jnl_org_get_block()</code>: If there are preceding KFPS01170-E or KFPS01171-E messages, take corrective action according to those messages. If there is no message output, updatable online reorganization cannot be continued. If the cause of the problem needs to be investigated, contact a customer engineer.</li> <li>For other functions: Contact a customer engineer.</li> </ul>
-1144	Log input failure	<ul style="list-style-type: none"> <li>For <code>pdi_jnl_org_get_block()</code>: If there are preceding KFPS01170-E or KFPS01171-E messages, take corrective action according to those messages. If there is no message output, updatable online reorganization cannot be continued. If the cause of the problem needs to be investigated, contact a customer engineer.</li> <li>For other functions: Contact a customer engineer.</li> </ul>
-1801	Internal error in the HiRDB system	Contact a customer engineer.
-1802	Definition analysis error	If there is a definition error message output before this message, revise the system definition according to the error message. If there is no error message, contact a customer engineer.
-1807 -1817	Not enough process-private memory	In <i>Table 4-4</i> , see <i>System call</i> = <code>malloc</code> , <i>Mnemonic</i> = <code>ENOMEM</code> to check the cause of the error, and take corrective action.
-1811	Internal error in the HiRDB system	Contact a customer engineer.
-1850	File I/O error	Check the file privilege and confirm that the disk can be accessed. If an error message was output immediately before the error, take the indicated corrective action. If no message was output, contact a customer engineer.
-1851	Inter-process communication error	<p>If there is an error message output, take corrective action according to the message.</p> <p>It is also possible that the process server has stopped. Verify whether the process server is active.</p> <p>In other cases, contact a customer engineer.</p>



Detail Code	Description	Explanation
-1852	Internal error in the HiRDB system	Contact a customer engineer.
-1854	Internal error in the HiRDB system	This message is sometimes generated when HiRDB terminates abnormally or it is aborted. If there is no abnormal termination or aborting, take corrective action according to the preceding error message. If there is no error message, save the information to be acquired in the event of an error, and then contact a customer engineer. The information to be acquired in the event of an error includes the files under %PDDIR%\spool, and the event log (in UNIX, syslogfile) of the system manager and the unit that output this detail code.
-1859	System call error	If an error message was output immediately before the error, take the indicated corrective action. If no message was output, contact a customer engineer.
-1900	HiRDB system internal error	Check to see if the unit containing the system manager has started normally. The problem is sometimes caused by an error in the unit containing the system manager. In other cases, contact a customer engineer.
-1901	HiRDB internal communication error	
-1902	Not enough process-private memory	In <i>Table 4-4</i> , see <i>System call</i> = malloc, <i>Mnemonic</i> = ENOMEM to check the cause of the error, and take corrective action.
-1903 -1904 -1905 -1906 -1907 -1908	Internal error in the HiRDB system	Check to see if the unit with the system manager has started normally. The problem can be caused by an error in the unit with the system manager. In other cases, contact a customer engineer.
-1909	File %PDDIR%\lib\msgtxt not found	<p>UNIX version: Recover the HiRDB execution environment according to the following procedures:</p> <ol style="list-style-type: none"> <li>1. Terminate HiRDB.</li> <li>2. Use the pdsetup -d command to release the HiRDB setup. In this operation, reply y to the KFPS00036-Q message.</li> <li>3. Use the pdsetup command to re-set up HiRDB.</li> </ol> <p>Windows version: Re-install HiRDB.</p>

4. Error Detail Codes

Detail Code	Description	Explanation
-1910	File %PDDIR%\lib\msgtxt corrupt	<p>UNIX version: Recover the HiRDB execution environment according to the following procedures:</p> <ol style="list-style-type: none"> <li>1. Terminate HiRDB.</li> <li>2. Use the <code>pdsetup -d</code> command to release the HiRDB setup. In this operation, reply <code>Y</code> to the KFPS00036-Q message.</li> <li>3. Use the <code>pdsetup</code> command to re-set up HiRDB.</li> </ol> <p>Windows version: Re-install HiRDB.</p>
-1911	File %PDDIR%\lib\msgtxt not accessible	<p>UNIX version: Check the access privilege for the file <code>\$PDDIR/lib/msgtxt</code> and grant the necessary access privilege to the HiRDB administrator. If the problem persists when the valid access privilege is in place, recover the HiRDB execution environment according to the following procedures:</p> <ol style="list-style-type: none"> <li>1. Terminate HiRDB.</li> <li>2. Use the <code>pdsetup -d</code> command to release the HiRDB setup. In this operation, reply <code>Y</code> to the KFPS00036-Q message.</li> <li>3. Use the <code>pdsetup</code> command to re-set up HiRDB.</li> </ol> <p>Windows version: Re-install HiRDB.</p>
-1912	Internal error in the HiRDB system	<p>Check to see if the unit with the system manager has started normally. The problem can be caused by an error in the unit with the system manager. In other cases, contact a customer engineer.</p>
-5100	HiRDB system internal error	Contact the customer engineer.
-5101	Communication error between servers within HiRDB	If HiRDB was aborted or has terminated abnormally, the command or utility may terminate due to this error. In this case, restart HiRDB, and then rerun the command or utility. In other cases, contact a customer engineer.
-5103	HiRDB system internal error	Contact the customer engineer.
-5105	Shared memory or temporary file access error	
-5108	HiRDB system engaged in termination processing	Execute the command when HiRDB is running.
-5110	Too many concurrently executing users	Wait until other users terminate. Or, increase the value of the <code>pd_max_users</code> operand. If the <code>pdchprc</code> command was used to change the maximum number of server processes for a single-server or front-end server, use the <code>pdchprc</code> command to increase the maximum value.

Detail Code	Description	Explanation
-5112	Lock timing error	Re-execute.
-5116	HiRDB is in start processing, or HiRDB is running as a log application site.	Re-execute after HiRDB start processing completes. If HiRDB is running as a log application site, convert the connection target HiRDB to a transaction execution site, and then re-execute.
-5125	Other utilities or operation commands cannot be executed because the pdvrrup command is executing or was requested.	Rerun the command after HiRDB startup processing is complete.
-5137	Invalid HiRDB status	This message is sometimes generated when HiRDB terminates abnormally or it is aborted. If there is no abnormal termination or aborting, take corrective action according to the preceding error message. If there is no error message, save the information to be acquired in the event of an error, and then contact a customer engineer. The information to be acquired in the event of an error includes the files under %PDDIR%\spool, and the event log (in UNIX, syslogfile) of the system manager and the unit that output this detail code.
-5142 -5143 -5144	Either the pdchgconf command or the pdprgrenew command is currently executing.	If the error occurred in a utility or operation command, terminate the pdchgconf or pdprgrenew command, and re-execute the utility or operation command. If the error occurred in a UAP, check the following: <ul style="list-style-type: none"> <li>If the client library is version 07-00 or later: The pdchgconf or pdprgrenew command may have failed. Ask the system administrator to check HiRDB status, and re-execute the UAP once HiRDB is online.</li> <li>If the client library version is earlier than 07-00: Terminate the pdchgconf or pdprgrenew command, and re-execute the UAP.</li> </ul>
-5301	HiRDB system internal error	Contact the customer engineer.
-5302	HiRDB not active (activation process being initialized)	Wait until completion of activation of HiRDB (completion of initialization), and then rerun the command.
-5303	HiRDB system internal error	Check the cause based on the error message that was output before this message and take appropriate action. If necessary, re-execute the command.
-5304	Definition file open error	<ol style="list-style-type: none"> <li>Check if the PDDIR or PDCONFPATH environment variable has been set.</li> <li>Check if the read privilege has been defined for %PDDIR%\conf\pdsys.</li> <li>If the error cannot be corrected by actions 1 and 2 above, contact a customer engineer.</li> </ol>

4. Error Detail Codes

Detail Code	Description	Explanation
-5305	Communication error	If HiRDB is operating normally, contact the customer engineer. If HiRDB has not started, wait until its activation is complete (completion of the activation-time process initialization), and then rerun the command.
-5324	Error acquiring the value of the PDDIR environment variable	The PDDIR environment variable is not set, or the directory cannot be referenced. Revise the setting of the PDDIR environment variable.
-5400	Internal error in the HiRDB system	Contact a customer engineer.
-5401	Communication error between HiRDB servers	If HiRDB is aborted or has terminated abnormally, this error can cause the command or utility to terminate. In this case, check the reasons for the communication error based on the preceding message, and take corrective action. If necessary, restart HiRDB, and then rerun the command or utility. If the condition in which HiRDB is unable to terminate persists due to the pdstop command causing this error, use the kill-6 command of the OS (in Windows, the pdkill command) to delete the pdrdmd process of HiRDB, forcibly terminate the unit. Save the data under the path %PDDIR%\spool, and then contact a customer engineer.
-5800	There is no HiRDB file system for audit trail files or there is no audit trail file.	Check if the audit trail file name specified in the control statement file used when the pdload command was executed is correct. If the problem occurs in command other than the pdload command, it is an indication of an internal HiRDB system error. If that is the case, contact a customer engineer.
-5801	HiRDB system internal error.	Save the files under %PDDIR%\spool, and the event log (in UNIX, syslogfile), and contact a customer engineer.
-5805		
-5810		
-5825		
-5802	HiRDB system internal communication error.	
-5803	There is no audit trail file that can be swapped.	Take the following corrective action to secure a file that can be swapped. <ul style="list-style-type: none"> <li>• Contact the auditor so that the file whose data is waiting to be loaded can be loaded into an audit trail table.</li> <li>• For details about how to handle errors that occur in audit trail files, see the <i>HiRDB Version 8 System Operation Guide</i>.</li> </ul>

Detail Code	Description	Explanation
-5806 -5807	An error occurred when an audit trail file was opened.	Data loading cannot be performed because the audit trail file specified in the control statement file used when the <code>pdload</code> command was executed is in one of the following states: <ul style="list-style-type: none"> <li>• Shutdown status</li> <li>• Current</li> <li>• Data loading completed</li> <li>• Not created</li> </ul> To resolve the error, correct the control statement file and re-execute the <code>pdload</code> command. If this method does not resolve the problem, save the files under <code>%PDDIR%\spool</code> , and the event log (in UNIX, <code>syslogfile</code> ), and contact a customer engineer.
-5809	Not enough process-private memory	In <i>Table 4-4</i> , see <i>System call</i> = <code>malloc</code> , <i>Mnemonic</i> = <code>ENOMEM</code> to check the cause of the error, and take corrective action.
-5817	Audit facility stopped; unable to acquire audit trail	If the audit facility was running, check the reason for its stoppage based on the preceding message. If necessary, use the <code>pdaudbegin</code> command to run the audit facility.
-20***: Any numeric character	System call error (The value obtained when the detail code is subtracted from -20000 is the system call <code>errno</code> .)	See <i>Table 4-4</i> to check the cause of the system call error, and take corrective action.
-20999	Other system call error	Contact the customer engineer.
Other	—	

—: Not applicable

### 4.3 System call return codes

Table 4-4 shows the causes and required actions for return codes from representative system calls. For errors that are not listed in Table 4-4, see the applicable OS manual.

#### UNIX version:

Unless otherwise noted, Table 4-4 shows the `errno` used in HP-UX. Because the table lists only the principal system calls, to determine the exact nature of the error, check the mnemonic associated with the value or `errno` indicated in the message in the `errno` definition file (the contents defined in `/usr/include/sys/errno.h` for HP-UX or Solaris) of the OS being used. Regarding a system call that has resulted in an error, check it in the manual and identify the cause of the error associated with the mnemonic.

#### Windows version:

Because Table 4-4 lists only the principal system calls, to determine the exact nature of the error, check the mnemonic associated with the value of `errno` indicated in the message in the `errno` definition file (for example, for Visual C++, the contents defined in `errno.h`) of the OS being used. If a system call has resulted in an error, refer to the manual to identify the cause of the error associated with the mnemonic.

Table 4-4: System call return codes

System Call	errno	Mnemonic	Possible Cause	Action
fork	11	EAGAIN	Either there are too many processes or a temporary memory shortage has occurred.	If this error occurs repeatedly when the command is rerun, terminate any unneeded processes.
	12	ENOMEM	One of the following problems is suspected: <ul style="list-style-type: none"> <li>The swap area (in Windows, virtual memory) is too small for the process to be newly created.</li> <li>There are too many processes or some processes are using too much memory.</li> </ul>	If the swap area (in Windows, virtual memory) is too small, increase it. If this is not possible, terminate the processes that are not needed. If some of the processes are using too much memory, determine whether they can be terminated.

System Call	errno	Mnemonic	Possible Cause	Action
malloc	12	ENOMEM	One of the following problems is suspected: <ul style="list-style-type: none"> <li>The swap area (in Windows, virtual memory) is too small for the process native area to be allocated.</li> <li>There are too many processes or some processes are using too much memory.</li> </ul>	If the swap area (in Windows, virtual memory) is too small, increase it. If this is not possible, terminate the processes that are not needed. If some of the processes are using too much memory, determine whether they can be terminated.
	22	EINVAL	Invalid memory management information was detected.	Contact the customer engineer.
mkdir	13	EACCESS	An access privilege is invalid.	Check if access privileges to files under the HiRDB directory are correct.
	28	ENOSPC	There is not enough free space for the file system.	Either delete files that are no longer needed from the file system or move files to a file system that has adequate free space.
msgget	28	ENOSPC	UNIX version: The value specified in <code>msgmni</code> (number of message queue identifiers) is too small. Windows version: The capacity of the installation drive or the number of resources in use is insufficient.	UNIX version: Estimate the memory requirements of all programs that are running on the server machine indicated by <code>msgmni</code> , change the specified value, and then reboot the applicable server machine. Windows version: On the installation drive, allocate at least as much free space as is required for the shared memory size. Or, specify the required number of resources (message queue identifiers) in the <code>PDUXPLMSGMNI</code> system environment variable. For the formula for determining the number of message queue identifiers, see the <i>HiRDB Version 8 Installation and Design Guide</i> . The default value of the <code>PDUXPLMSGMNI</code> system environment variable is 50.

4. Error Detail Codes

System Call	errno	Mnemonic	Possible Cause	Action
msgrcv	22 36	EINVAL EIDRM	<p><b>UNIX version:</b> The <code>ipcrm</code> command of the OS or the <code>pdsetup</code> command of HiRDB was incorrectly executed when HiRDB was running, which resulted in the deletion of the message queue used by HiRDB.</p> <p><b>Windows version:</b> It is possible that the work files in the HiRDB installation directory were deleted when HiRDB was running.</p>	<p>If HiRDB has not terminated abnormally, terminate it. After that, reboot the applicable server machine. (In the case of Windows, restart the HiRDB service.)</p>
msgsnd	11	EAGAIN	<p>The value specified in <code>msgmni</code> (number of message queue identifiers) or <code>msgtql</code> (number of messages) is too small.</p>	<p><b>UNIX version:</b> Estimate the memory requirements of all programs that are running on the server machines indicated by <code>msgmni</code> or <code>msgtql</code>, change the specified values, and then reboot the applicable server machine.</p> <p><b>Windows version:</b> Set the value for the number of required resources (number of message queue tables) in the <code>PDUXPLMSGTQL</code> system environment variable. For the formula for determining the number of message queue tables, see the <i>HiRDB Version 8 Installation and Design Guide</i>. The default for the <code>PDUXPLMSGTQL</code> system environment variable is 80.</p>
	22	EINVAL	<p>The <code>ipcrm</code> command of the OS or the <code>pdsetup</code> command of HiRDB was incorrectly executed when HiRDB was running, which resulted in the deletion of the message queue used by HiRDB.</p>	<p>If HiRDB has not terminated abnormally, terminate it. After that, reboot the applicable server machine.</p>



System Call	errno	Mnemonic	Possible Cause	Action
open	2	ENOENT	<p>The indicated file or directory is not found.</p> <p>If the file <code>logblib.c</code> is output to the calling module for a KFPO00107-E message, a message text file cannot be found. If that is the case, the cause is as follows:</p> <p>UNIX version: Consider one of the following:</p> <ol style="list-style-type: none"> <li>1. A HiRDB command was executed before the <code>pdsetup</code> command terminated normally.</li> <li>2. The <code>PDDIR</code> environment variable is not correctly set up.</li> <li>3. A HiRDB version that is not currently used is registered in the OS.</li> </ol> <p>Windows version: The <code>PDDIR</code> environment variable might not be set correctly.</p>	<p>UNIX version: Take the following actions according to the cause of the error:</p> <ol style="list-style-type: none"> <li>1. Execute the HiRDB command after confirming the normal return of the <code>pdsetup</code> command.</li> <li>2. Confirm that the <code>PDDIR</code> environment variable is correctly set up. For a user shell, use the <code>env</code> command to confirm that the value of <code>PDDIR</code> is correctly assigned. If the <code>PDDIR</code> environment variable is set when export is leaking or by using the <code>set</code> command, assigned values are not transferred to the HiRDB command process, which causes this error. If the OpenTP1, HA Monitor, Hitachi HA Toolkit Extension, cluster software, JP1, DBPARTNER, HiRDB Datareplicator, HiRDB CM, and other products are used, check to see if the <code>PDDIR</code> environment variable for those products is correctly set.</li> <li>3. Use the <code>pdsetup -d</code> command to delete from the OS the HiRDB version that is not being used. To delete all execution environments, specify <code>y</code> in response to the <code>pdsetup -d</code> command.</li> </ol> <p>Windows version: Ensure that the <code>PDDIR</code> environment variable is set correctly. If the command was executed from the command prompt, use the <code>set</code> command to determine whether the <code>PDDIR</code> environment variable was set correctly. If using a product such as OpenTP1, JP1, DBPARTNER, HiRDB Datareplicator, or HiRDB CM, confirm that the <code>PDDIR</code> environment variable has been set correctly for these products.</p>

4. Error Detail Codes

System Call	errno	Mnemonic	Possible Cause	Action
open	6	ENXIO	No access privilege for the file.	Confirm that the device exists and that the device is validated. If the device is not validated, validate it. If the error still cannot be resolved, refer to the manual for the OS in use and take corrective action.
	13	EACCES	No access privilege for the file.	<ul style="list-style-type: none"> <li>Review the privilege for the target file, directory, or HiRDB operation directory.</li> <li>Check to see if the person executing the command has the access privilege for the target file, directory, or HiRDB operation directory.</li> </ul>
	17	EEXIST	The file to be created already exists.	Either rerun the command by renaming the file or, if the existing file is not needed, delete the file, and then rerun the command.
	23	ENFILE	<p>UNIX version: The number of open files exceeds the maximum for the system.</p> <p>Windows version: There is insufficient capacity on the installation drive.</p>	<p>UNIX version: Increase the value specified for the maximum number of files that can be opened by the system, in terms of an operating system parameter (kernel parameter) (<code>nfile</code> for HP-UX, <code>maxuproc × nofiles × fixed number of licenses</code> for AIX 5L, or <code>NR_FILE</code> or <code>fs.file-max</code> for Linux). Stop any processes or windows that are not needed.</p> <p>Windows version: On the installation drive, allocate at least as much free space as is required for the shared memory size.</p>

System Call	errno	Mnemonic	Possible Cause	Action
	24	EMFILE	<p>UNIX version: Too many files are open in the indicated process.</p> <p>Windows version: There is insufficient capacity on the installation drive.</p>	<p>UNIX version: If this error occurs in a HiRDB command or utility process, increase the value of the maximum number of files that can be opened by a process, in terms of an operating system parameter (kernel parameter) (<code>maxfiles</code> for HP-UX, <code>rlim_fd_cur</code> for Solaris, <code>nofiles</code> for AIX 5L, or <code>INR_OPEN</code> for Linux). If this problem occurs in a HiRDB server process, contact the customer engineer.</p> <p>Windows version: On the installation drive, allocate at least as much free space as is required for the shared memory size.</p>

4. Error Detail Codes

System Call	errno	Mnemonic	Possible Cause	Action
open	999	ENOENT	For Windows, HiRDB work files may have been destroyed.	<p>After confirming that HiRDB has stopped, delete all the files listed below and then restore them.</p> <p>Note that the files from No. 4 on may not exist in all cases.</p> <ol style="list-style-type: none"> <li>1. %PDDIR%\uxpldir\spool\system\filmg.dat</li> <li>2. %PDDIR%\uxpldir\spool\system\flg.dat</li> <li>3. %PDDIR%\uxpldir\spool\system\shmmng.dat</li> <li>4. %PDDIR%\spool\...pdmode</li> <li>5. %PDDIR%\spool\...pdipcid</li> <li>6. %PDDIR%\spool\oslmqid</li> <li>7. %PDDIR%\spool\oslsmid</li> <li>8. %PDDIR%\spool\pdprcsts</li> <li>9. %PDDIR%\spool\scdqid1</li> <li>10. %PDDIR%\spool\scdqid2</li> <li>11. %PDDIR%\tmp\pdommenv</li> <li>12. All files under %PDDIR%\uxpldir\spool\sh</li> <li>13. %PDDIR%\uxpldir\spool\system\semmng.dat</li> <li>14. %PDDIR%\uxpldir\spool\system\msgmng.dat</li> </ol> <p>When starting HiRDB after deleting all these files, make sure other applications, such as Explorer, are not accessing %PDDIR%\tmp.</p>

System Call	errno	Mnemonic	Possible Cause	Action
semget	12	ENOMEM	Shortage occurred in the number of resources used.	Specify the number of resources required (the number of semaphore identifiers) in the <code>PDUXPLSEMMAX</code> system environment variable. For details on how to compute the number of semaphore identifiers, see the <i>HiRDB Version 8 Installation and Design Guide</i> . The default for the <code>PDUXPLSEMMAX</code> system environment variable is 64.
	28	ENOSPC	<p>UNIX version: The value specified in <code>semnmi</code> (number of semaphore identifiers) or <code>semmns</code> (number of semaphores in the system) is too small.</p> <p>Windows version: There is insufficient capacity on the installation drive.</p>	<p>UNIX version: Estimate the memory requirements of all programs that are running on the server machines indicated by <code>semnmi</code> or <code>semmns</code>, change the specified values, and then reboot the applicable server machine.</p> <p>Windows version: On the installation drive, allocate at least as much free space as is required for the shared memory size.</p>
semop	22	EINVAL	<p>UNIX version: The <code>ipcrm</code> command of the OS or the <code>pdsetup</code> command of HiRDB was incorrectly executed when HiRDB was running, which resulted in the deletion of the semaphore used by HiRDB.</p> <p>Windows version: It is possible that the work files in the HiRDB installation directory were deleted when HiRDB was running.</p>	If HiRDB has not terminated abnormally, forcibly terminate it. After that, reboot the applicable server machine (for Windows, restart the HiRDB service).

4. Error Detail Codes

System Call	errno	Mnemonic	Possible Cause	Action
shmat	12	ENOMEM	<p>Consider one of the following:</p> <ol style="list-style-type: none"> <li>1. The number of available resources is insufficient. This includes the case in which a contiguous free area cannot be allocated in the process space to which shared memory is to be attached.</li> <li>2. In Windows, an error occurred while referencing the Windows registry.</li> <li>3. In Windows, the HiRDB service is not started (when shared memory is allocated to the paging file).</li> </ol>	<ol style="list-style-type: none"> <li>1. For Windows, assign the number of required resources (size of required shared memory) in the system environment variable <code>PDUXPLSHMMAX</code>. For details on how to compute the size of the shared memory to be used, see the <i>HiRDB Version 8 Installation and Design Guide</i>. The <code>PDUXPLSHMMAX</code> default is 4096. If usable memory cannot be made available, change the HiRDB system definition (for example, by reducing the number of global buffers) to reduce the shared memory requirements.</li> <li>2. Check the value specified for the <code>pdntenv</code> command's <code>-shmfile</code> operand. If it is other than <code>regular</code>, <code>page</code>, or <code>blank</code>, the Windows registry might be corrupt. If that is the case, contact a customer engineer.</li> <li>3. If the shared memory is allocated to the paging file, confirm that the HiRDB service is started. If the HiRDB service is stopped, start the service.</li> </ol>
	22	EINVAL	<p>UNIX version: Shared memory for HiRDB is missing. It is possible that a HiRDB command was entered before the OS was fully started (during the execution of <code>/etc/rc</code>) or a HiRDB command was coded in an environment file, such as <code>/etc/localrc</code>, which is executed upon completion of the startup of the OS.</p> <p>Windows version: It is possible that the work files in the HiRDB installation directory were deleted when HiRDB was running. Or, it is possible that the command was executed before the activation of HiRDB was complete.</p>	<p>UNIX version: If a HiRDB command was entered before the OS was fully started, reenter the command after the startup of the OS is complete. Also, be careful not to code a HiRDB command in the <code>/etc/localrc</code> OS environment file. If activation of HiRDB is not complete, wait until HiRDB is complete, and then execute the command.</p> <p>Windows version: If HiRDB activation has not been completed, complete HiRDB activation and then re-execute. If HiRDB did not terminate abnormally, terminate it forcibly. After that, restart the HiRDB service.</p>

System Call	errno	Mnemonic	Possible Cause	Action
shmdt	12	ENOMEM	In Windows, consider one of the following causes: <ul style="list-style-type: none"> <li>An error occurred while referencing the Windows registry.</li> <li>The HiRDB service is not started (when shared memory is allocated to the paging file).</li> </ul>	<ul style="list-style-type: none"> <li>Check the value specified for the <code>pdntenv</code> command's <code>-shmfile</code> operand. If it is other than <code>regular</code>, <code>page</code>, or blank, the Windows registry might be corrupt. If that is the case, contact a customer engineer.</li> <li>If the shared memory is allocated to the paging file, confirm that the HiRDB service is started. If the HiRDB service is stopped, start the service.</li> </ul>
shmctl	1	EPERM	Because the user is not an owner, the shared memory cannot be processed.	If a KFPH23015-E or KFPO00107-E message is output, see that message.
	12	ENOMEM	In Windows, consider one of the following causes: <ul style="list-style-type: none"> <li>An error occurred while referencing the Windows registry.</li> <li>The HiRDB service is not started (when shared memory is allocated to the paging file).</li> </ul>	<ul style="list-style-type: none"> <li>Check the value specified for the <code>pdntenv</code> command's <code>-shmfile</code> operand. If it is other than <code>regular</code>, <code>page</code>, or blank, the Windows registry might be corrupt. If that is the case, contact a customer engineer.</li> <li>If the shared memory is allocated to the paging file, confirm that the HiRDB service is started. If the HiRDB service is stopped, start the service.</li> </ul>

4. Error Detail Codes

System Call	errno	Mnemonic	Possible Cause	Action
shmget	12	ENOMEM	<p>UNIX version: The required shared memory capacity is not available on the server unit.</p> <p>Windows version: Refer to Table 4-5.</p>	<p>UNIX version: Reduce memory usage on the server unit. Or, increase the real memory under the operating system.</p> <p>Windows version: Refer to Table 4-5.</p>
	22	EINVAL	<p>UNIX version: There was an attempt to acquire a shared memory volume that exceeds the value specified in the <code>shmmax</code> operating system parameter (kernel parameter).</p> <p>Windows version: It is possible that the work files in the HiRDB installation directory were deleted when HiRDB was running.</p>	<p>UNIX version: Increase the value specified in the <code>shmmax</code> operating system parameter (kernel parameter). After changing the specified value, reboot the server machine.</p> <p>Windows version: If HiRDB did not terminate abnormally, terminate it forcibly. After that, restart the HiRDB service.</p>
	28	ENOSPC	<p>UNIX version: The number of shared memory identifiers exceeds the OS limit.</p> <p>Windows version: There is insufficient capacity on the installation drive. Also, if the paging file is allocated as shared memory, the process native memory used by the HiRDB service to manage the shared memory might be insufficient.</p>	<p>UNIX version: Take one or more of the following actions: (1) Reduce the number of shared memory segments set up on the same machine. (2) Increase the specified value in the operating system parameter (kernel parameter) <code>shmmni</code>.</p> <p>Windows version: On the installation drive, allocate at least as much free space as is required for the shared memory size. Also, if the paging file is allocated as shared memory, check the maximum available memory for the entire system, and increase either the physical memory or the size of the paging file.</p>



<b>System Call</b>	<b>errno</b>	<b>Mnemonic</b>	<b>Possible Cause</b>	<b>Action</b>
write	5	EIO	An input/output error has occurred.	Take corrective action according to OS and hardware information.
	14	EFAULT	An attempt was made to write to an inaccessible area. It is possible that the disk on which a write operation was attempted has been detached.	The problem can be ignored if it occurred during disk switching associated with system switchover. If the disk was detached by mistake when HiRDB was still running, either back up or restore the affected file, and initialize it before using. In other cases, contact a customer engineer.
	27	EFBIG	The file is greater than the system-imposed limit.	Change the file size limit for the HiRDB administrator and the root user either to a size greater than required in HiRDB or to unlimited size. Alternatively, reduce the size of the file to be used.
	28	ENOSPC	The file system does not have enough area.	Either delete files that are not needed from the file system or move to a file system that has more space.

4. Error Detail Codes

System Call	errno	Mnemonic	Possible Cause	Action
abort, creat, execl, execlp, execl,execle, execlp, execv, execvp, fopen, fork, gethostbyadr, gethostbyname, gethostbyname, mmap, msgctl, msgget, msgrcv, msgsnd, open, read, readv, select, semctl, semget, semop, shmat, shmctl, shmdt, shmget, signal, sigrelse, sigset, sigsetmask, sigvector, stat, system, write, writev, etc.	22	EINVAL	For the Windows version, there may be insufficient memory.	For the Windows version, take corrective action from among the following options: <ul style="list-style-type: none"> <li>• Specify Y in the <code>pd_ntfs_cache_disable</code> operand.</li> <li>• Decrease the total size of the databases on the server machine.</li> <li>• Decrease the size of the global buffer.</li> <li>• Decrease the values specified in the following operands:  <code>pd_max_users</code>  <code>pd_process_count</code>  <code>pd_max_bes_process</code>  <code>pd_max_dic_process</code>  <code>pd_max_server_process</code>  <code>pd_max_rdarea_no</code>  <code>pd_max_file_no</code>  <code>pd_max_access_tables</code>  <code>pd_lck_pool_size</code>  <code>pd_fes_lck_pool_size</code></li> <li>• Set the default size and the maximum size of system virtual memory to the same value (a fixed size).</li> <li>• Do not collect statistical information and various trace information if you are currently doing so.</li> </ul>

Table 4-5: Corrective action when an error occurs in the shmget system call (in Windows)

Item	Location of shared memory allocation#	Cause	Determination	Action
1	Shared between files and the paging file	Insufficient memory	Check the value specified for the PDUXPLSHMMAX system environment variable.	Set the number of required resources (number of shared memories) in the PDUXPLSHMMAX system environment variable. For details about the formula for calculating the number of shared memories, see the manual <i>HiRDB Version 8 Installation and Design Guide</i> . If the PDUXPLSHMMAX system environment variable is omitted, 4,096 is assumed.
2	Files	Insufficient free space on the installation disk	Determine whether there is sufficient free space on the drive where HiRDB is installed.	If there is insufficient free space, delete unnecessary files.
3		Because the initial and maximum values specified for the virtual memory are different, there is no free space on the disk that allocated the disk paging file	Determine whether there is free space on the disk that allocated the disk paging file.	If there is no free space on the disk, re-allocate the virtual memory. When re-allocating the virtual memory, specify the same initial value and maximum value (fixed value), so as to be able to create a contiguous area on the drive.
4		There is insufficient memory	Check the memory usage.	Expand or re-allocate the virtual memory. When expanding or re-allocating the virtual memory, specify the same initial value and maximum value (fixed value), so as to be able to create a contiguous area on the drive.
5			Determine whether there is sufficient free space on the disk that holds the paging file.	If the virtual memory needs to be expanded, expand it. At this time, specify the same initial value and maximum value for the virtual memory.

4. Error Detail Codes

Item	Location of shared memory allocation <sup>#</sup>	Cause	Determination	Action
6		The installation information cannot be referenced correctly	Check the installation information. The installation information can be displayed using the <code>pdntenv</code> command. For details about the <code>pdntenv</code> command, see the manual <i>HiRDB Version 8 Command Reference</i> .	Use the <code>pdntenv</code> command to check the value of <code>ShmFile</code> . If the value of <code>ShmFile</code> is other than <code>regular</code> , <code>page</code> , or <code>blank</code> , the Windows registry might be corrupt. If that is the case, contact a customer engineer.
7	Paging file	There is insufficient free space on the installation drive	Determine whether there is sufficient free space on the drive where HiRDB was installed.	If there is insufficient space, delete any unnecessary files.
8		Because the initial and maximum values specified for the virtual memory are different, there is no free space on the disk that allocated the disk paging file	Determine whether there is free space on the disk that allocated the disk paging file.	If there is no free space on the disk, re-allocate the virtual memory. When re-allocating the virtual memory, specify the same initial value and maximum value (fixed value), so as to be able to create a contiguous area on the drive.
9		There is insufficient memory	Check the memory usage.	Expand or re-allocate the virtual memory. When expanding or re-allocating the virtual memory, specify the same initial value and maximum value (fixed value), so as to be able to create a contiguous area on the drive.
10			Determine whether there is sufficient free space on the disk that holds the paging file.	If the virtual memory needs to be expanded, expand it. At this time, specify the same initial value and maximum value for the virtual memory.

Item	Location of shared memory allocation <sup>#</sup>	Cause	Determination	Action
11		The installation information cannot be referenced correctly	Check the installation information. The installation information can be displayed using the <code>pdntenv</code> command. For details about the <code>pdntenv</code> command, see the manual <i>HiRDB Version 8 Command Reference</i> .	Use the <code>pdntenv</code> command to check the value of <code>ShmFile</code> . If the value of <code>ShmFile</code> is other than <code>regular</code> , <code>page</code> , or <code>blank</code> , the Windows registry might be corrupt. If that is the case, contact a customer engineer.
12		The HiRDB service is not started	Confirm that the HiRDB service is started.	If the HiRDB service is stopped, start it.

#

The location where the shared memory is allocated can be determined by referring to the value of `ShmFile` obtained by the `pdntenv` command. The following table shows where the shared memory is allocated for each value displayed using the `pdntenv` command.

Item	ShmFile value	Allocation location
1	regular	Files under the HiRDB directory
2	page	Paging file
3	blank	Files under the HiRDB directory



## Chapter

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# 5. HiRDB File System Error Codes

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This chapter explains the error codes output by the HiRDB file system.

This chapter contains the following sections:

- 5.1 Error codes returned from HiRDB file system access requests

## 5.1 Error codes returned from HiRDB file system access requests

Table 5-1 lists the error cause codes returned from HiRDB file system access requests.

*Table 5-1:* Error cause codes returned from HiRDB file system access requests

Error Code	Description	Action
-1511	Specified path name is invalid: <ul style="list-style-type: none"> <li>• The path name contains an invalid character.</li> <li>• The length of the path name exceeds the maximum (167 characters).</li> <li>• The length of the HiRDB file system area name exceeds the limit (165 characters).</li> <li>• The length of the HiRDB file name exceeds the maximum (30 characters).</li> </ul>	Review the path name specified in the control statement, command line, and system definition file. In a facility in which HiRDB automatically generates HiRDB files, in some cases the path length exceeds the limit, depending on the length of the HiRDB file system area length. HiRDB file system areas should be specified in conformance to the respective limits, as follows: <ul style="list-style-type: none"> <li>• Work table file (server definition <code>pdwork</code> operand): 141 characters maximum</li> <li>• Plug-in index delay batch updating (server definition <code>pd_plugin_ixmk_dir</code> operand): 136 characters maximum</li> </ul> If there are no problems in this regard, but the error persists, contact a customer engineer.
-1514	The sector length specification is invalid. <ul style="list-style-type: none"> <li>• The HiRDB file system area created with the specified sector length is not supported.</li> <li>• The RDAREA page length is not an integral multiple of the HiRDB file system area sector length.</li> </ul>	<ul style="list-style-type: none"> <li>• Use a HiRDB file system area created without specifying a sector length.</li> <li>• Correct the RDAREA page length.</li> </ul>
-1532	<ul style="list-style-type: none"> <li>• A file other than a regular file or a character-type special file (for Windows, direct disk access) was specified.</li> <li>• HiRDB file system area is not found.</li> </ul>	<ul style="list-style-type: none"> <li>• Review the path name specified in the control statement, command line, or system definition file to be sure that it is not in error.</li> <li>• Files other than a regular file or a character-type special file (direct disk access for Windows) cannot be used as a HiRDB file system area.</li> <li>• Check to see if the HiRDB file system area indicated in the message has been deleted or the symbolic link is broken.</li> </ul>



Error Code	Description	Action
-1534	Lock error occurred.	<ul style="list-style-type: none"> <li>• Execute the <code>pdfls -L</code> command on the HiRDB file system area or the HiRDB file indicated in the message to check for any process exercising lock control. If a process exercising lock control is identified, execute the affected command after that process has terminated. If a process exercising lock control is not identified, re-execute the command after a period of time.</li> <li>• If the HiRDB file system area indicated in the message is being used by a command, wait until that command terminates, and then re-execute the affected command.</li> <li>• If this error occurs because of the execution of a command, terminate HiRDB, and then re-execute the command (provided that the command can be executed while HiRDB is stopped).</li> <li>• If the above measures fail to resolve the problem, contact a customer engineer.</li> </ul>
-1535	<ul style="list-style-type: none"> <li>• There is not enough free space in the HiRDB file system area.</li> <li>• There is not enough free space on the disk on which the HiRDB file system area was created, and the disk is full.</li> </ul>	<ul style="list-style-type: none"> <li>• Use the <code>pdfstatfs</code> command to check the amount of free space in the HiRDB file system area that was specified in the control statement, the command line, and the system definition file. If there is not enough free space to accommodate the size of the file to be created, specify another HiRDB file system area.</li> <li>• If the disk became full when operations were performed on the HiRDB file system area for regular files, either delete other files or expand the disk to increase the amount of free space.</li> <li>• In UNIX, if a character special file HiRDB file system area is in use, the disk will not become full. However, if operations are performed using a symbolic link, check to see if a link is established to regular files.</li> </ul>
-1536	The limit on the number of files that can be created in the HiRDB file system area has been exceeded.	<ul style="list-style-type: none"> <li>• Increase the maximum number of files (specified in the <code>pdfmkfs -l</code> command) and recreate the HiRDB file system area.</li> <li>• In the control statement, the command line, and the system definition file, specify another HiRDB file system area that has more space for file creation.</li> </ul>
-1538	Specified area is not a HiRDB file system area.	<ul style="list-style-type: none"> <li>• Determine whether the file initialized as a HiRDB file system area is specified in the control statement, the command line, and the system definition file.</li> <li>• It is possible that the HiRDB file system area is corrupt. Execute the <code>pdfls</code> command on the indicated path to determine whether the HiRDB file system area has been destroyed.</li> </ul>

5. HiRDB File System Error Codes

Error Code	Description	Action
-1539	HiRDB file was not found.	<ul style="list-style-type: none"> <li>• Determine whether the correct HiRDB file is specified in the path name specified in the control statement, the command line, and the system definition file. HiRDB file names can be verified by using the <code>pdfls</code> command.</li> <li>• If an error occurred in a HiRDB file that is a part of the RDAREA during HiRDB operations, a possible cause of the problem may be that the RDAREA was recovered from a backup taken before RDAREA reorganization, or the HiRDB file was forcibly removed through the use of the <code>pdfrm</code> command. If this is the case, either recover the RDAREA using the proper recovery procedures or reinitialize the RDAREA.</li> </ul> <p>If neither possibility applies, contact a customer engineer.</p>
-1540	Access privilege is undefined.	<ul style="list-style-type: none"> <li>• Review the access privilege for the file specified in the control statement, the command line, and the system definition file.</li> <li>• For Windows, if the error occurred in an area on which direct disk access was used, check to see if a formatted disk was specified.</li> </ul>
-1541	HiRDB file has already been defined.	<p>The HiRDB file specified in the control statement, the command line, and the system definition file already exists. Specify a HiRDB file in a manner that avoids duplication.</p> <p>If there are no duplicate HiRDB files, but the error persists, contact a customer engineer.</p>
-1543	Versions do not match.	<ul style="list-style-type: none"> <li>• The version of HiRDB currently running is older than the version that created the HiRDB file system area. Areas created using a new version of HiRDB cannot be used with an older version of HiRDB.</li> <li>• If HiRDB with more than one version is installed, review the absolute path name specified in command execution.</li> </ul>
-1544	I/O error occurred.	<p>Take corrective action corresponding to <code>errno</code> in the <code>KFPO00107-E</code> message in the event log (in UNIX, <code>syslogfile</code>).</p> <p>If there is no <code>KFPO00107-E</code> message, contact a customer engineer.</p>
-1548	There are not enough lock segments.	<p>Take corrective action corresponding to <code>errno</code> in the <code>KFPO00107-E</code> message in the event log (in UNIX, <code>syslogfile</code>). If the <code>errno</code> is 46 (<code>ENOLCK</code>), it is an indication that there are not enough OS lock segments. In the <i>HiRDB Version 8 Installation and Design Guide</i>, see the section on how to estimate operating system parameters, and increase the upper limit.</p> <p>For HP-UX, review the <code>nflck</code> operand.</p> <p>If any other OS is being used, wait for the other process that is using the lock to terminate, and then reexecute.</p> <p>If the above measures fail to resolve the problem, contact a customer engineer.</p>

Error Code	Description	Action
-1549	The system open count exceeds the limit. Or the process open count exceeds the limit.	<p>Take corrective action corresponding to <code>errno</code> in the <code>KFP000107-E</code> message in the event log (in UNIX, <code>syslogfile</code>).</p> <p>In UNIX, refer to estimating operating system parameters in the manual <i>HiRDB Version 8 Installation and Design Guide</i>, and if insufficient, increase the limit.</p> <p>Review the following values:</p> <ul style="list-style-type: none"> <li>• HP-UX: <code>nfile</code>, <code>maxfiles_lim</code></li> <li>• Solaris: <code>rlim_fd_max</code></li> <li>• AIX 5L: <code>nofiles_hard</code></li> <li>• Linux: <code>NR_FILE</code>, <code>NR_OPEN</code></li> </ul>
-1550	Memory is insufficient.	<p>Review the memory requirements. If there is a problem, take corrective action such as increasing the memory or reducing the number of resident processes.</p> <p>If the corrective action fails to resolve the problem, contact a customer engineer.</p>
-1555	There are insufficient log segments, the number of open files exceeded the limit, or there is insufficient memory.	<p>Take the corrective action indicated in error codes -1548, -1549, and -1550.</p> <p>If these actions do not solve the problem, contact a customer engineer.</p>

Error Code	Description	Action
-1556	<p>During creation of an RDAREA</p> <ul style="list-style-type: none"> <li>An attempt was made to allocate multiple, fragmented free spaces to a file; however, allocation failed either because of the lack of a specification for a maximum increment count (<code>pdfmkfs -e</code>) for the HiRDB file system area or the specified value is too low.</li> <li>The number of HiRDB file allocation extents is greater than the limit of 24; extents cannot be allocated.</li> </ul> <p>During expansion of an RDAREA</p> <ul style="list-style-type: none"> <li>An attempt was made to allocate a new free space to files. However, either there is no specification for a maximum increment count (<code>pdfmkfs -e</code>) for the HiRDB file system area or the specified value is too low. Therefore, space cannot be allocated.</li> <li>The number of HiRDB file allocation extents is greater than the limit of 24; extents cannot be allocated.</li> </ul>	<p>HiRDB file for RDAREA</p> <p>Take one of the following actions:</p> <p>(1) Follow the procedures outlined below to consolidate the extents and the fragmented free spaces in the HiRDB file system area:</p> <ol style="list-style-type: none"> <li>Normally terminate HiRDB*.</li> <li>Use the <code>pdfbkup</code> command to back up the area.</li> <li>Use the <code>pdfmkfs</code> command to initialize the area. Before taking these actions, execute the <code>pdfstatfs</code> command on the area that generated the error to check the difference between the total increment count (<code>current expand count</code>) and the increment count limit (<code>available expand count</code>). If the difference is less than 23, it is an indication that the maximum increment count is too low. If this is the case, increase the maximum increment count (the <code>-e</code> option) when the area is initialized.</li> <li>Use the <code>pdfrstr</code> command to recover the area.</li> <li>Normally start HiRDB*.</li> </ol> <p>* Items 1 and 5 can also be accomplished by the following procedures:</p> <ol style="list-style-type: none"> <li>Put the RDAREA allocated to the area in command shutdown and closed states, and then refresh (<code>pdfrefresh</code>) the corresponding server process.</li> <li>Put the RDAREA allocated to the area in shutdown release and open states.</li> </ol> <p>(2) When creating an RDAREA, allocate the files that compose the RDAREA to another HiRDB file system area. When expanding an RDAREA, specify a HiRDB file in another file system area, and expand the RDAREA using that file.</p> <p>HiRDB file for work tables</p> <p>Execute the <code>pdfstatfs -d</code> command on the HiRDB file system area for work tables, and check the value of the maximum user area (<code>peak capacity</code>). If there is adequate space in the total capacity (<code>user area capacity</code>) of the area, increase the specified value in the maximum increment count (the <code>-e</code> option), and initialize the area using the <code>pdfmkfs</code> command. If the maximum user area is close to the total capacity, increase the size of the HiRDB file system area (the <code>-n</code> option), and reinitialize the area using the <code>pdfmkfs</code> command.</p> <p>HiRDB file for utilities</p> <p>Take one of the following actions:</p> <ol style="list-style-type: none"> <li>Increase the specified value in the maximum increment count (the <code>-e</code> option), and reinitialize the area using the <code>pdfmkfs</code> command.</li> <li>For a utility in which an initial allocation size and an increment size can be specified, increase the initial allocation size and the increment size.</li> </ol>

Error Code	Description	Action
-1562	The purpose of the file being created does not match the purpose of the HiRDB file system area.	<ul style="list-style-type: none"> <li>• Check to see if the purpose of use of the HiRDB file system area specified in the control statement, the command line, and the system definition file is correct. The <code>pdstatfs</code> command can be used to verify the purpose of use of the HiRDB file system area.</li> <li>• For a Linux version, there are HiRDB files that cannot be created on a character-type special file. In this case, the HiRDB file system area set up on a regular file should be used.</li> <li>• An attempt was made to create a shared RDAREA in a HiRDB file system area for which the purpose is not SDB. When using a shared RDAREA, specify <code>SDB</code> as the purpose, and create the shared RDAREA in an initialized HiRDB file system area.</li> </ul>
-1565	A large file is being used (in Windows, files exceeding 2 GB), but <code>pd_large_file_use</code> is not specified.	Specify <code>Y</code> in the <code>pd_large_file_use</code> operand.
Other	—	Contact the customer engineer.

— : Not applicable



## Chapter

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# 6. Lock Control Errors

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This chapter describes resource types, resource names, and resource information output for lock control errors.

- 6.1 Resource types, resource names, and resource information for lock control errors

## 6.1 Resource types, resource names, and resource information for lock control errors

Table 6-1 lists the resource types, resource names, and resource information for lock control errors. For details about how to refer to the resource information, see the *HiRDB Version 8 System Operation Guide*.

*Table 6-1:* Resource types, resource names, and resource information for lock control errors

Resource Type	Type Name	Resource Name 1	Resource Name 2	Resource Information	Description
0001	RDAR	RDAREA name	—	Digits 1-8: RDAREA number Digits 9-28: Fixed at 00	RDAREA
0002	TABL	Table name	—	Digits 1-8: Table number Digits 9-16: Generation number Digits 17-28: Fixed at 00	Table
0003	INDX	Index name	RDAREA name	Digits 1-8: Index number Digits 9-16: RDAREA number Digits 17-28: Fixed at 00	Index
0004	PAGE	Table name or index name	RDAREA name	Digits 1-6: RDAREA number Digits 7-8: File number Digits 9-16: Page number Digits 17-24: Table number or index number Digits 25-28: Fixed at 00	Page
0007	ROW	Table name	RDAREA name	Digits 1-6: RDAREA number Digits 7-8: File number Digits 9-14: Page number Digits 15-16: Slot number Digits 17-24: Table number Digits 25-28: Fixed at 00	Row
0008	NWROW	Table name	RDAREA name	Digits 1-6: RDAREA number Digits 7-8: File number Digits 9-14: Page number Digits 15-16: Slot number Digits 17-24: Table number Digits 25-28: Fixed at 00	Row (WITHOUT LOCK NOWAIT retrieval control)
000B	TABN	Table name	—	Digits 1-8: Table number Digits 9-16: Generation number Digits 17-28: Fixed at 00	Table (for NO WAIT search)



Resource Type	Type Name	Resource Name 1	Resource Name 2	Resource Information	Description
000C	NKEY	Index name	—	Digits 1-8: Index number Digits 9-28: Fixed at 00	Key value (NULL)
000D	DKEY	Index name	—	Digits 1-8: Index number Digits 9-8: Key value or encoded key value	Key value (non-NULL)
000E	LFID	RDAREA name	Logical file number	Digits 1-8: RDAREA number Digits 9-16: Logical file number Digits 17-28: Fixed at 00	Logical file
000F	IXIF	Index name	RDAREA name	Digits 1-8: Index number Digits 9-16: RDAREA number Digits 17-28: Fixed at 00	Index information file
0010	TRWT	Table name	RDAREA name for index	Digits 1-8: Table number Digits 9-16: RDAREA name for index Digits 17-28: Fixed at 00	Transaction completion standby
0011	SHWT	Table name (if waiting for completion of RDAREA update, "****" is output)	RDAREA name	Digits 1-6: RDAREA number Digits 7-8: File number Digits 9-14: Page number Digits 15-16: Slot number Digits 17-24: Table number Digits 25-28: Fixed at 00 If waiting for completion of RDAREA update, all other than the RDAREA number are 0.	Shared RDAREA transaction settlement pending
0102	RRAMB	RDAREA name	—	Digits 1-8: RDAREA number Digits 9-28: Fixed at 00	RDAREA management information
0111	MFCB	—	—	Digits 1-8: Page number Digits 9-12: File number Digits 13-28: Fixed at 00	Master directory segment information
0112	MTCB	Table name	—	Digits 1-8: Table number Digits 9-28: Fixed at 00	Master directory table information
0113	MICB	Index name	—	Digits 1-8: Index number Digits 9-28: Fixed at 00	Master directory index information
0121	RATM	Table name	RDAREA name	Digits 1-8: RDAREA number Digits 9-16: Table number or table management number Digits 17-28: Fixed at 00	Dictionary table information or user directory table information

## 6. Lock Control Errors

Resource Type	Type Name	Resource Name 1	Resource Name 2	Resource Information	Description
0122	RAIM	RDAREA name	—	Digits 1-8: RDAREA number Digits 9-16: Index number or index management number Digits 17-28: Fixed at 00	Dictionary index information or user directory index information
0132	SBMB	RDAREA name	—	Digits 1-8: RDAREA number Digits 9-16: Segment number Digits 17-20: File number Digits 21-28: Fixed at 00	Dictionary segment information or user directory segment information
0143	RDLF	RDAREA name	Last file number	Digits 1-8: RDAREA number Digits 9-12: Last file number Digits 13-28: Fixed at 00	RDAREA extension
0152	SGMB	RDAREA name	—	Digits 1-8: RDAREA number Digits 9-16: Page number Digits 17-20: File number Digits 21-28: Fixed at 00	Database copy utility
0300	MENT	RDAREA name	—	Digits 1-8: RDAREA number Digits 9-16: Page number Digits 17-20: File number Digits 21-24: Entry number Digits 25-28: Fixed at 00	User LOB RDAREA management information
0301	LOBID	RDAREA name	—	Digits 1-8: RDAREA number Digits 9-16: LOB number Digits 17-28: Fixed at 00	User LOB RDAREA management information
0601	RDAS	RDAREA name	—	Digits 1-8: RDAREA number Digits 9-28: Fixed at 00	Database condition analysis utility
0602	HOLD	RDAREA name	—	Digits 1-8: RDAREA number Digits 9-28: Fixed at 00	Backup hold RDAREA
0603	INRP	Server name	—	The first 8 bytes are reserved for the server name. If the server name is less than 8 bytes, the remaining bytes are padded with NULL codes.	Configuration management information for the inner replica facility
0604	RPGP	Original RDAREA name	—	Digits 1-8: RDAREA number Digits 9-28: Fixed at 00	Replica group configuration management information

Resource Type	Type Name	Resource Name 1	Resource Name 2	Resource Information	Description
0900	PLGR	—	—	Digits 1-8: Plug-in ID Digits 9-28: Plug-in's unique resource number	Plug-in resource number
2002	ROMB	—	—	Digits 1-14: SQL object number Digits 15-28: Fixed at 00	SQL object management information
2003	SPCH	—	—	Fixed to SPCH Remainder is zero-filled.	SQL object cache
3001	PTBL	Table name	—	Digits 1-8: Table number Digits 9-28: Fixed to 00	Preprocessing table
3005	DICT	—	—	Fixed to DICT Remainder is zero-filled.	Dictionary table
3006	VIEW	View name	—	Digits 1-8: View table number Digits 9-28: Fixed to 00	View table
3008	TBPL	—	—	First 5 bytes <sup>1</sup> are an authorization identifier. Bytes 6-14 <sup>2</sup> are a table identifier.	Table definition information buffer
3009	ALAS	Table alias	—	First 5 bytes <sup>1</sup> are an authorization identifier. Bytes 6-14 <sup>2</sup> are a table alias.	Table alias definition information buffer
3010	AUTH	—	—	First 14 bytes are an authorization identifier.	User privilege information buffer
3011	POBJ	Routine name	—	Routine object number	Routine object
3012	DTYP	Data type definition name	—	Fixed to DTYP Remainder is zero-filled.	Data type definition information
3013	RTPL	—	—	First 12 bytes are a routine identifier. Bytes 13-14 are a parameters count.	Routine definition information buffer
3014	TPPL	—	—	First 5 bytes <sup>1</sup> are an authorization identifier. Bytes 6-14 <sup>2</sup> are a data type identifier.	User definition type information buffer

Resource Type	Type Name	Resource Name 1	Resource Name 2	Resource Information	Description
5001	DICU	—	—	Fixed to DICTMODUTL Remainder is zero-filled.	Database structure modification utility
5002	LCBF	RDAREA name	—	Digits 1-8: RDAREA number Digits 9-28: Fixed to 00	—
5003	EXP1	—	—	Fixed to EXPIMPMDL Remainder is zero-filled.	Database export/import utility
5004	RBAL	Table name	—	Digits 1-8: Table number Digits 9-28: Fixed to 00	Rebalancing utility
5005	RRAMB	Server name	—	Digits 1-16: Server name Digits 17-28: Fixed at 00	ZRRAMB update
5006	RCLM	RDAREA name	Table or index name	Digits 1-8: RDAREA number Digits 9-16: Table or index number Digits 17-28: Fixed at 00	Free page release utility

— : Not Applicable

#### Notes

- The resource type is output in hexadecimal (4 digits)
- The resource information is output in hexadecimal (28 digits).
- In UNIX, the RDAREA name that corresponds to the RDAREA number can be determined using the `pdsqls` command.
- The generation number is displayed when a table is duplicated using the inner replica facility.

<sup>1</sup> An authorization identifier of 6 or more bytes is output in the following format:  
*first-3-bytes-of-authorization-identifier* +  
*last-2-bytes-of-authorization-identifier*

For example, if the authorization identifier is `k87m341`, `k8741` is output. Note that the output is in ASCII code and 1 byte is output as 2 digits.

<sup>2</sup> A table identifier, table alias, or data type identifier of 10 or more bytes is output in the following format:

*first-5-bytes-of-table-identifier* or *table-alias* + *last-4-bytes-of-table-identifier* or *table-alias*

TABLE002498TABLE2498

Note that the output is in ASCII code and 1 byte is expressed as 2 digits.



## Chapter

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# 7. Messages Related to Sort Processing

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This chapter explains messages related to sort processing.

- 7.1 Messages related to sort processing (Windows version)
- 7.2 Messages related to sort processing (UNIX version)

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## 7.1 Messages related to sort processing (Windows version)

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This section explains messages related to sort processing in the Windows version.

### 7.1.1 Message format

#### (1) Message types

Two types of messages are output:

1. Messages at normal termination

If the sorting, selection, or summing terminates normally, these messages are displayed.

2. Messages at abnormal termination

If an error occurs during the sorting, selection, or summing, these messages are displayed.

#### (2) Format of message explanations

Messages are described in the following format.

##### Message ID

Message text

Message explanation

S: System operation

O: Indicates the user or operator operation.

If any of the following messages are output, contact a customer engineer:

KBLS201-E, KBLS203-E, KBLS204-E, KBLS205-E, KBLS206-E, KBLS207-E,  
KBLS208-E, KBLS212-E, KBLS215-E

(Description of message ID)

The message ID is shown in the KBLSnnn-x format.

KBLS: Program identification code

nnn: Message number

x: Message types

I: Message when processing ends normally

E: Message when an error occurs

#### (3) End code types

Besides the two types of messages, the following three end codes are used to indicate



the status of the end of sorting, selection, or summing. Table 7.1-1 lists the end code types.

Table 7-1: End code types

End status		End code
Normal end		0
Abend	When messages other than KBL300-E are output	1
	When the KBL300-E message is output or there is no message of the SORT program	The abend code of the system is set.

## 7.1.2 Messages

### KBLS201-E

invalid key data for sort.

*xx...x yy...y zz*

The key data format of a numeric item is invalid.

*xx...x* indicates the name of the file that contains an error, *yy...y* indicates an error record number, and *zz* indicates the number of the key that contains an error.

S: Closes all open files, cancels processing and generates debugging information files (*sortdmp* and *sortrdmp*) under the current directory.

O: Check whether the key option is correct. If it is incorrect, correct it, and then re-execute the command. Alternatively, correct the format of the key, and re-execute the command.

### KBLS202-E

cannot obtain memory of this size.

cannot obtain memory of this size.

S: Closes all open files, cancels processing and generates a debugging information file (*sortdmp*).

O: Correct the memory size, and re-execute the command.

### KBLS203-E

invalid number of keys.

The number of keys is less than 1 or more than 64.

S: Closes all open files, cancels processing and generates a debugging information file (*sortdmp*).

O: Correct the number of keys, and re-execute the command.

### KBLS204-E

invalid key item attribute specification.

An invalid key item attribute is specified.

S: Closes all open files, cancels processing and generates a debugging information file (sortdmp).

O: Correct the key item attribute, and re-execute the command.

**KBLS205-E**

invalid starting byte position of key.

The position of the start byte of a key is invalid. For example, a smaller value than the minimum record length of an input file is specified.

S: Closes all open files, and cancels processing. If the I/O file is a variable-length file, the system generates a debugging information file (sortdmp).

O: Correct the position of the start byte of the key, and re-execute the command.

**KBLS206-E**

invalid byte length for key.

The key byte length is invalid. For example, a larger value than the record length was specified.

S: Closes all open files, and cancels processing. If the I/O file is a variable-length file, the system generates a debugging information file (sortdmp).

O: Correct the key byte length, and re-execute the command.

**KBLS207-E**

sum of key position and length is greater than record length.

The length of the key position plus the key length exceeds the minimum record length of an input file. Alternatively, the input file contains too short data.

S: Closes all open files, cancels processing and generates a debugging information file (sortdmp).

O: Correct the position of the start byte of the key and the key byte length, and re-execute the command. Alternatively, correct the data in the input file, and re-execute the command.

**KBLS208-E**

total key length exceeds 4096 bytes.

Total key length exceeds 4096 bytes.

S: Closes all open files, cancels processing and generates a debugging information file (sortdmp).

O: Correct the number of keys and the byte length, and re-execute the command.

**KBLS209-E**

I/O error on input file.

*xx...x yy...y zz...z*

An I/O error occurred in the input file.

*xx...x* indicates the name of the file that contains an error. *yy...y* indicates an error record number, and *zz...z* indicates a system error code.

S: Closes all open files, cancels processing and generates a debugging information file (`sortdmp`).

O: Correct the error, and re-execute the command.

**KBLS210-E**

I/O error on temporary file.

*ee...e*

An I/O error occurred in the temporary file.

*ee...e* indicates a system error code.

S: Closes all open files, cancels processing and generates a debugging information file (`sortdmp`).

O: Correct the error, and re-execute the command.

**KBLS211-E**

I/O error on output file.

*xx...x zz...z*

An I/O error occurred in the output file.

*xx...x* indicates the name of the file that contains an error. *zz...z* indicates a system error code.

S: Closes all open files, cancels processing and generates a debugging information file (`sortdmp`).

O: Correct the error, and re-execute the command.

**KBLS212-E**

cannot input because data is shorter than record length.

When an input file is a standard input file, input data is shorter than the specified record length.

S: Closes all open files, cancels processing and generates a debugging information file (`sortdmp`).

O: Make the length of the input data an integer multiple of the record length, and re-execute the command.

**KBLS213-E**

invalid organized file or corrupted file.

*xx...x*

## 7. Messages Related to Sort Processing

The input file organization and the specified file organization (`/gs`, `/gv`, `/gr`, `/gw`, `/gi`, `/gx`, `/ga`, or `file_org=`) do not match. Alternatively, the record length area of an input file is destroyed.

`xx...x` indicates the name of the file that contains an error.

S: Closes all open files, cancels processing and generates a debugging information file (`sortdmp`).

O: Correct the input file organization and re-execute the command. If the error persists, re-create an input file and re-execute the command.

### **KBLS214-E**

I/O error on debugging information file.

An I/O error occurred in the debugging information file.

O: Contact maintenance personnel.

### **KBLS215-E**

old version of `libnsort.dll` was executed.

The SORT program cannot be executed because its version is old. If the COBOL85 Sort/Merge function is being used, the SORT version is probably older than the SORT version prerequisite to COBOL85.

S: Cancels processing and generates a debugging information file (`sortdmp`).

O: Install the correct version of SORT program and re-execute the command.

### **KBLS216-E**

file name is specified in directory of temporary file.

In the `/w` parameter, a file name was specified as a directory for allocating a temporary file.

S: Cancels processing and generates a debugging information file (`sortdmp`).

O: Correct the directory name, and re-execute the command.

### **KBLS217-E**

cannot open input file: already in use.

The input file cannot be opened because another process is using it. For example, the file may be opened by the SORT program in another process.

S: Closes all open files, cancels processing and generates a debugging information file (`sortdmp`).

O: Wait for the other process to terminate, and re-execute the command.

### **KBL218-E**

cannot open output file: already in use.

The output file cannot be opened because another process is using it. For example, the

file may be opened by the SORT program in another process.

S: Closes all open files, cancels processing and generates a debugging information file (`sortdmp`).

O: Wait for the other process to terminate, and re-execute the command.

**KBLS219-E**

output file already exists.

When existing files were prevented from being overwritten by using the `/i` sort option, the file name that already exists was specified as an output file name.

S: Cancels processing.

O: Specify an output file name that does not exist, and re-execute the command.

**KBLS220-E**

cannot find input file.

`xx...x`

The specified file name does not exist. `xx...x` indicates the entered file name.

O: Specify a file name that exists, and re-execute the command.

**KBLS221-E**

insufficient memory to create output file.

Because there is insufficient disk space, an output file cannot be allocated.

O: Increase the free space, and re-execute the command.

**KBLS222-E**

I/O error on ISAM file.

`xx...x zz...z`

An I/O error occurred in the indexed file. `xx...x` indicates the name of the file that contains an error, and `zz...z` indicates a system error code.

S: Closes all open files, cancels processing and generates a debugging information file (`sortdmp`).

O: Correct the error, and re-execute the command.

**KBLS225-E**

drive is not ready.

A floppy disk is not mounted in the disk drive.

O: Mount the floppy disk, and re-execute the command.

**KBLS226-E**

drive is not ready.

A floppy disk is not mounted in the disk drive.

O: Mount the floppy disk, and re-execute the command.

**KBLS227-E**

drive is not ready.

A floppy disk is not mounted in the disk drive.

O: Mount the floppy disk, and re-execute the command.

**KBLS228-E**

media is read only.

The floppy disk may be write-protected.

O: Unlock the disk, and re-execute the command.

**KBLS229-E**

media is read only.

The floppy disk may be write-protected.

O: Unlock the disk, and re-execute the command.

**KBLS230-E**

insufficient memory to create temporary file.

The area for a temporary file cannot be allocated.

S: Closes all open files, cancels processing and generates a debugging information file (sortdmp).

O: Change the directory to allocate the temporary file, and re-execute the command.

**KBLS300-E**

invalid programming logic.

xxx

The program error indicated by the detail code xxx occurred.

S: Closes all open files, cancels processing, generates a debugging information file (sortdmp), and generates a core dump (core) under the current directory.

O: Contact maintenance personnel to report the detail code.

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## 7.2 Messages related to sort processing (UNIX version)

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This section explains messages related to sort processing in the UNIX version.

### 7.2.1 Message format

#### (1) Message types

Three types of messages are output:

1. Messages at normal termination

If the sorting, merging, selection, or summing terminates normally, these messages are displayed.

2. Messages at abnormal termination

If the sorting, merging, selection, or summing terminates abnormally, these messages are displayed.

3. Messages at system error

If an error by a system call occurs, these messages are displayed.

#### (2) Format of message explanations

Messages are described in the following format.

##### Message ID

Message text

Message explanation

S: System operation

O: Indicates the user or operator operation.

If any of the following messages are output, contact a customer engineer:

KBLS201-E, KBLS203-E, KBLS204-E, KBLS205-E, KBLS206-E, KBLS207-E,  
KBLS208-E, KBLS212-E, KBLS215-E

(Description of message ID)

The message ID is shown in the KBLSnnn-x format.

KBLS: Program identification code

nnn: Message number

x: Message types

I: Message when processing ends normally

E: Message when an error occurs

**(3) End code types**

Besides the three types of messages, the following three end codes are used to indicate the status of the end of sorting, merging, selection, or summing. Table 7.2-1 shows the end code types.

Table 7-2: End code types

End status		End code
Normal end		0
Abend	When messages other than KBLS300-E are output	1
	When the KBLS300-E message is output or there is no message of the SORT program	The abend code of the UNIX system is set.

**7.2.2 Messages****KBLS201-E**

invalid key data for sort.  
xx...x yy...y zz

The key data format of a numeric item is invalid.

xx...x indicates the name of the file that contains an error, yy...y indicates an error record number, and zz indicates the number of the key that contains an error.

S: Closes all open files, cancels processing, and generates a debugging information file (sortdmp and sortrdmp) under /usr/tmp, /tmp or the current directory.

O: Check whether the key option is correct. If it is incorrect, correct it, and then re-execute the command. Alternatively, correct the format of the key, and re-execute the command.

**KBLS202-E**

cannot obtain memory of this size.

The specified memory size cannot be reserved.

S: Closes all open files, cancels processing, and generates a debugging information file (sortdmp) under /usr/tmp or /tmp.

O: Correct the memory size, and re-execute the command.

**KBLS203-E**

invalid number of keys.

The number of keys is less than 1 or more than 64.

S: Closes all open files, cancels processing, and generates a debugging information file (sortdmp) under /usr/tmp or /tmp.

O: Correct the number of keys, and re-execute the command.



**KBLS204-E**

invalid key item attribute specification.

An invalid key item attribute is specified.

S: Closes all open files, cancels processing, and generates a debugging information file (`sortdmp`) under `/usr/tmp` or `/tmp`.

O: Correct the key item attribute, and re-execute the command.

**KBLS205-E**

invalid starting byte position of key.

The position of the start byte of a key is invalid. For example, a smaller value than the minimum record length of an input file is specified.

S: Closes all open files, and cancels processing. If the I/O file is a variable-length file, generates a debugging information file (`sortdmp`) under `/usr/tmp` or `/tmp`.

O: Correct the position of the start byte of the key, and re-execute the command.

**KBLS206-E**

invalid byte length for key.

The key byte length is invalid. For example, a larger value than a record length was specified.

S: Closes all open files, and cancels processing. If the I/O file is a variable-length file, generates a debugging information file (`sortdmp`) under `/usr/tmp` or `/tmp`.

O: Correct the key byte length, and re-execute the command.

**KBLS207-E**

sum of key position and length is greater than record length.

The length of the key position plus the key length exceeds the minimum record length of an input file.

S: Closes all open files, and cancels processing. If the I/O file is a variable-length file, generates a debugging information file (`sortdmp`) under `/usr/tmp` or `/tmp`.

O: Correct the position of the start byte of the key and the key byte length, and re-execute the command.

**KBLS208-E**

total key length exceeds 4096 bytes.

Total key length exceeds 4096 bytes.

S: Closes all open files, cancels processing, and generates a debugging information file (`sortdmp`) under `/usr/tmp` or `/tmp`.

O: Correct the number of keys and the byte length, and re-execute the command.

**KBLS209-E**

I/O error on input file.  
xx...x yy...y

An I/O error occurred in the input file.

xx...x indicates the name of the file that contains an error. yy...y indicates an error record number.

S: Closes all open files, cancels processing, and generates a debugging information file (sortdmp) under /usr/tmp or /tmp.

O: Correct the error, and re-execute the command.

**KBLS210-E**

I/O error on temporary file.

An I/O error occurred in the temporary file.

S: Closes all open files, cancels processing, and generates a debugging information file (sortdmp) under /usr/tmp or /tmp.

O: Correct the error, and re-execute the command.

**KBLS211-E**

I/O error on output file.  
xx...x

An I/O error occurred in the output file.

xx...x indicates the name of the file that contains an error.

S: Closes all open files, cancels processing, and generates a debugging information file (sortdmp) under /usr/tmp or /tmp.

O: Correct the error, and re-execute the command.

**KBLS212-E**

cannot input because data is shorter than record length.

When an input file is a standard input file, input data specified is shorter than the record length.

S: Closes all open files, cancels processing, and generates a debugging information file (sortdmp) under /usr/tmp or /tmp.

O: Make the length of the input data an integer multiple of the record length, and re-execute the command.

**KBLS213-E**

invalid organized file or corrupted file.  
xx...x

The input file organization and the specified file organization (-S, -V, -R, -W, -I, -X,

or -A) do not match. Alternatively, the record length area of an input file is destroyed.

xx...x indicates the name of the file that contains an error.

S: Closes all open files, cancels processing, and generates a debugging information file (sortdmp) under /usr/tmp or /tmp.

O: Correct the input file organization and re-execute the command. If the error persists, re-create an input file and re-execute the command.

**KBLS214-E**

I/O error on debugging information file.

An I/O error occurred in the debugging information file.

O: Contact maintenance personnel.

**KBLS215-E**

old version librsort.sl was executed.

The SORT program cannot be executed, because its version is old.

If the COBOL85 Sort/Merge function is being used, the SORT version is probably older than the SORT version prerequisite to COBOL85.

S: Cancels processing and generates a debugging information file (sortdmp) in /usr/tmp or /tmp.

O: Install the correct version of the SORT program and re-execute the command.

**KBLS216-E**

file name is specified in directory of temporary file.

In the -T or -T2 option, a file name was specified as a directory for allocating a temporary file.

S: Cancels processing and generates a debugging information file (sortdmp) under /usr/tmp or /tmp.

O: Correct the directory name, and re-execute the command.

**KBLS217-E**

cannot open input file: already in use.

The input file cannot be opened because another process is using it. For example, the file may be opened by the SORT program in the locked mode in another process.

S: Closes all open files, cancels processing, and generates a debugging information file (sortdmp) under /usr/tmp or /tmp.

O: Wait for the other process to terminate, and re-execute the command.

**KBLS218-E**

cannot open output file: already in use.

## 7. Messages Related to Sort Processing

The output file cannot be opened because another process is using it. For example, the file may be opened by the SORT program in the locked mode in another process.

S: Closes all open files, cancels processing, and generates a debugging information file (`sortdmp`) under `/usr/tmp` or `/tmp`.

O: Wait for the other process to terminate, and re-execute the command. Alternatively, rename the output file, and re-execute the command.

### **KBLS219-E**

`output file already exists.`

When existing files were prevented from being overwritten by using the `-i` sort or merge option, the file name that already exists was specified as an output file name.

S: Cancels processing.

O: Specify an output file name that does not exist, and re-execute the command.

### **KBLS300-E**

`invalid programming logic.`  
`xxxx`

The program error indicated by the error code `xxxx` occurred.

S: Closes all open files, cancels processing, generates a debugging information file (`sortdmp`) under `/usr/tmp` or `/tmp`, and generates a core dump (`core`) under the current directory.

O: Contact maintenance personnel to report the error code.

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# Reader's Comment Form

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We would appreciate your comments and suggestions on this manual. We will use these comments to improve our manuals. When you send a comment or suggestion, please include the manual name and manual number. You can send your comments by any of the following methods:

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