
Scalable Database Server

HiRDB Version 8

Messages Part I

3020-6-358(E)

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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Preface

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.

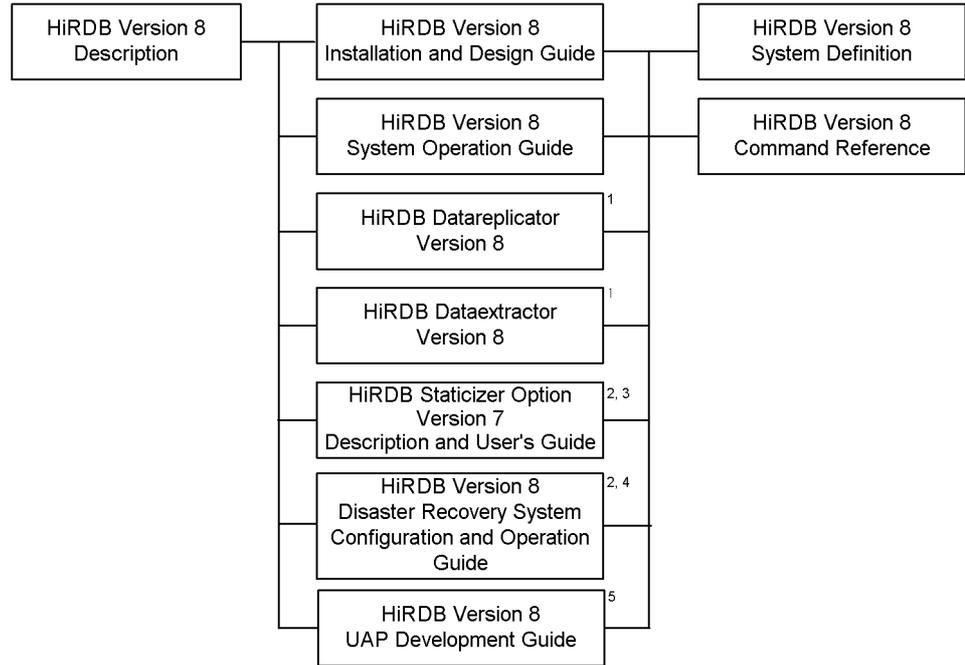
Others

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

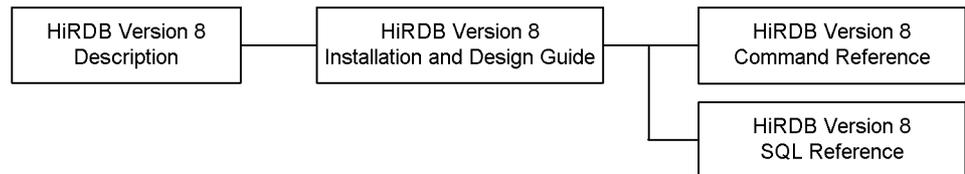
Organization of HiRDB manuals

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.

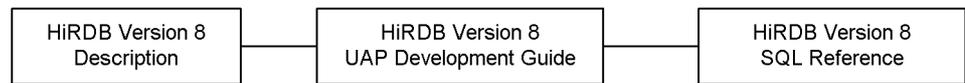
Manuals for system administrators:



Manuals for users who create tables:



Manuals for users who create or execute UAPs:



- ¹ Read if you use the replication facility to link data.
- ² Published for UNIX only. There is no corresponding Windows manual.
- ³ Read if you use the inner replica facility.
- ⁴ Read if you are configuring a disaster recovery system.
- ⁵ 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 _(R) Excel	Microsoft Excel or Excel	
Microsoft _(R) Visual C++ _(R)	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)	Linux (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 _(R) Windows NT _(R) Workstation Operating System Version 4.0	Windows NT	
Microsoft _(R) Windows NT _(R) Server Network Operating System Version 4.0		
Microsoft _(R) Windows _(R) 2000 Professional Operating System	Windows 2000	
Microsoft _(R) Windows _(R) 2000 Server Operating System		
Microsoft _(R) Windows _(R) 2000 Datacenter Server Operating System		
Microsoft _(R) Windows _(R) 2000 Advanced Server Operating System	Windows 2000 or Windows 2000 Advanced Server	
Microsoft _(R) Windows Server TM 2003, Standard Edition	Windows Server 2003	
Microsoft _(R) Windows Server TM 2003, Enterprise Edition		
Microsoft _(R) Windows Server TM 2003 R2, Standard Edition	Windows Server 2003 R2 or Windows Server 2003	
Microsoft _(R) Windows Server TM 2003 R2, Enterprise Edition		
64 bit Version Microsoft _(R) Windows Server TM 2003, Enterprise Edition (IPF)	Windows Server 2003 (IPF) or Windows Server 2003	
Microsoft _(R) Windows Server TM 2003, Standard x64 Edition	Windows Server 2003 or Windows Server 2003 x64 Editions	Windows (x64)
Microsoft _(R) Windows Server TM 2003, Enterprise x64 Edition		
Microsoft _(R) Windows Server TM 2003 R2, Standard x64 Edition	Windows Server 2003, Windows Server 2003 R2 or Windows Server 2003 x64 Editions	
Microsoft _(R) Windows Server TM 2003 R2, Enterprise x64 Edition		
Microsoft _(R) Windows _(R) XP Professional x64 Edition	Windows XP or Windows XP x64 Edition	
Microsoft _(R) Windows _(R) XP Professional Operating System	Windows XP Professional	Windows XP
Microsoft _(R) Windows _(R) 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

Abbreviation	Full name or meaning
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

Abbreviation	Full name or meaning
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

Abbreviation	Full name or meaning
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

Abbreviation	Full name or meaning
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
Bold	<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"> • From the File menu, choose Open. • Click the Cancel button. • In the Enter name entry box, type your name.
<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"> • Write the command as follows: <code>copy source-file target-file</code> • Do <i>not</i> delete the configuration file.

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"> • At the prompt, enter <code>dir</code>. • Use the <code>send</code> command to send mail. • The following message is displayed: <code>The password is incorrect.</code>

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.
SD	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 $1,024^2$ 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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Chapter

1. Overview of Messages

This chapter explains the message output formats and the notations used in this manual to explain the messages.

This chapter contains the following sections:

- 1.1 Message output formats
- 1.2 Descriptive notation

1.1 Message output formats

(1) Messages output to standard error output or standard output

The following subsections describe the format of messages output by the HiRDB system.

(a) Output format of HiRDB messages

AAAAA hh:mm:ss BBBB CCCCCCCC KFPA00000-E XX...XX

or

KFPA00000-E xx...xx

AAAAA: Process ID (5-digit decimal number)

hh:mm:ss: time (in *hours:minutes:seconds* format) (8-digit decimal number)

BBBB: Unit identifier (4 alphanumeric characters)

CCCCCCCC: Name of the server that requested that the message be output (8 alphanumeric characters)

KFPA00000-E: Message ID (11 alphanumeric characters)

xx...xx: Message text (maximum of 243 characters)

Note that the unit identifier and the name of the server that requested that the message be output may not appear.

(b) Output format of pre-processor messages

pdcpp: filename, line-number: error-number: text

pdcpp:

Identifier of a message output by the C language preprocessor; for COBOL, the identifier is *pdcb1*.

filename:

Name of the UAP source file resulting in the error

line-number:

Line number in the UAP source file resulting in the error

error-number:

Message ID

text:

Message text

(2) Messages output to the standard output by the `pdcat` command

This type of message includes supplemental information, in addition to a message ID and message text. Whether or not the supplemental information is to be omitted is specified with the `pdcat` command's option flag. When this option flag is not specified, the additional information, message ID, and message text are all output.

Following is the format of a message with supplemental information that is output to the standard output:

```
AAAAAAA BB...BB CCCCCC DDDD yyyy/mm/dd hh:mm:ss
EEEEEEEE FFFF GGGGGGGG HHH KFP00000-E xx...xx
```

Additional information:

AAAAAAA:

Message serial number (7 decimal digits)

BB...BB:

Process ID (On AIX, this is a 10-digit decimal number. On all other systems, this is a 5-digit decimal number.)

CCCCCC:

Serial number of the message within the process (server) (7 decimal digits)

DDDD:

HiRDB identifier (4 alphanumeric characters)

yyyy/mm/dd:

Date (10 decimal digits in the format *year/month/date*)

hh:mm:ss:

Time (8 decimal digits in the format *hour:minute:second*)

EEEEEEEE:

Request source host name (first 8 characters)

FFFF:

Unit identifier (4 alphanumeric characters)

GGGGGGGG:

Name of the server requesting the message output (8 alphanumeric)

characters)

HHH:

Internal information used by the system (3 alphanumeric characters)

Fixed part of message:

KFPA00000-E:

Message ID (11 decimal digits)

xx...xx:

Message text (up to 223 characters)

Some messages do not contain the request source unit identifier or request source server name.

(3) Messages output to an event log (in UNIX, syslogfile)

Messages that are output to an event log (in UNIX, syslogfile) include optional information in addition to a message ID and message text. Following is the format of messages issued by the HiRDB system:

```
mmm dd hh:mm:ss AA...AA HiRDB[nn...nn] : KFPA00000-E BBBB CCCC  
xx...xx (DD...DD)
```

Supplemental information:

mmm:

Month (3 alphabetic characters)

dd:

Date (2 decimal digits)

hh:mm:ss:

Time (8 decimal digits in the format *hour:minute:second*)

AA...AA:

Standard host name of the message output request source (up to 63 alphanumeric characters)

nn...nn:

Process ID (On AIX, this is a 10-digit decimal number. On all other systems, this is a 5-digit decimal number.)

KFPA00000-E:

Message ID (11 alphanumeric characters)

BBBB:

HiRDB identifier (4 alphanumeric characters)

CCCC:

HiRDB unit identifier (4 alphanumeric characters)

xx...xx:

Message text^{*}

DD....DD:

Process ID of the message output request source^{*}

^{*} The message text and the process ID of the source that requested that the message be output must total no more than 233 characters (including spaces between characters). Text exceeding 233 characters is discarded.

Some messages do not contain a HiRDB identifier, HiRDB unit identifier, or process ID of the message output request source; in such cases, this supplemental information either is displayed as spaces or is omitted altogether (i.e., only the message text is displayed).

1.2 Descriptive notation

(1) Format

This manual explains messages in the following format:

KFPX₁ n₁ n₂ n₃ n₄ n₅ -I Y TYPEx

message-text

Explanation of the message:

S: Action taken by HiRDB once the message has been issued.

P: Action that should be taken by the programmer.

O: Action that should be taken by the operator.

Action

Action that should be taken by the HiRDB administrator.

Note

"Contact the customer engineer" in a message explanation means that the user should contact a Hitachi employee or customer service representative.

(2) Message ID codes

The following explains the codes used in the message ID:

KFP: Code indicating that the message was issued by the HiRDB system.

X₁: Code identifying the message management source:

A: Message concerning an SQL statement (this message is also output following the execution of a utility or command)

B: Distributed database message

C: Windows-specific message

D: Dictionary manager message

H: Database-related message

I: HiRDB file system message

J: JDBC drive message

K: Utility-related message (statistics analysis utility or database condition analysis utility)

L: Utility-related message (database load utility or database reorganization utility)

M: MIB-related message

N: Utility-related message (optimizing information collection utility)

O: OS library message

R: Utility-related message (database recovery utility)

S: System manager message

T: Updatable online reorganization messages

U: Utility-related message (any utility)

W: HiRDB External Data Access-related messages

X: Utility-related message (environment definition)

Y: Plug-in related message

Z: Client message

n_1 to n_5 : Message number

i: Message severity code:

E: Error message (indicates that the error disabled a function)

w: Warning message (indicates a warning concerning resource utilization status, etc., or indicates that a command specification error was detected but processing continued using the default value)

I: Information message (indicates an operating status that does not apply to E or W)

Q: Response request message (indicates that the system is waiting for the user's response to the displayed message)

Y: Message output destination

If a message has multiple output destinations, all the destinations to which output may be directed are shown, separated by the plus sign (+). "L" denotes output to the standard output device when the `pdcat` command or the real-time output function is used.

KFPJ messages are collected into `getMessage ()`, which is an `SQLException` object of JDBC driver.

A: SQLCA (SQL communication area)

D: Message dialog

E: Standard error output

J: JP1 event database^{#1}

L: Message log file and event log (in UNIX, syslogfile)^{#2}

R: Error log file

S: Standard output

#1

This is output when the system is linked to JP1.

#2

In the following situations, either no message is output or a message is output to the event log in the host where the message output source unit is located (in UNIX, to syslogfile).

- When an error occurs on a single server or on a unit with a system manager
- After abnormal termination and before restart of the message log server
- When a standby system is used

Note:

Message KFPA, which is output when any of the utilities listed below is executed, is not output to the destination listed in the message. In these cases, the destination for message KFPA will be (E+L).

- Database load utility
- Database reorganization utility
- Rebalancing utility

TYPEx:

Message KFPJ can include two types of messages sharing the same message ID: Type2 JDBC driver messages and Type4 JDBC driver messages. If a message contains both Type2 and Type4 messages, both messages are listed. When two types of messages exist, and only when two types exist, the messages are represented as follows so that they can be distinguished:

TYPE2: Indicates a Type2 JDBC driver message.

TYPE4: Indicates a Type4 JDBC driver message.

In a Type4 JDBC driver message, the message text can be followed by the name of the class that generated the message, and the name of the method by which the message was generated, in the following format:

KFPxn₁n₂n₃n₄n₅-i *message-text* [aa....aa.bb....bb]

- *aa...aa*: Name of the class that generated the message
- *bb...bb*: Name of the method by which the message was output

(3) Explanation of message text

The message text explains the message or event, as well as embedded characters.

The following notations are used in message text:

{ } : Only one of the text items enclosed in braces is displayed; the text items are delimited by the vertical bar (|).

Example: {authorization-identifier |password}

[] : A text item enclosed in square brackets may not be displayed.

The following shows the relationships between message IDs and the `SQLCODE` contents in the SQL Communications Area (SQLCA):

Message ID	SQLCODE
KFPA11 <i>nnn</i>	- <i>nnn</i>
KFPA19 <i>nnn</i>	-1 <i>nnn</i>
KFPA12 <i>nnn</i>	+ <i>nnn</i>

■ Notes on the UNIX version

For the following return code, the HiRDB system does not output a message; only the error code is returned to `SQLCODE`:

- `SQLCODE=-849`

The `SQLCODE` description is set at the message ID location.

Chapter

2. Messages

This chapter identifies messages that are generated by the system, explains their meanings, and shows action to be taken by a user.

- 2.1 KFPA messages
- 2.2 KFPB messages
- 2.3 KFPC messages
- 2.4 KFPD messages
- 2.5 KFPH messages
- 2.6 KFPI messages
- 2.7 KFPJ messages
- 2.8 KFPK messages
- 2.9 KFPL messages
- 2.10 KFPM messages
- 2.11 KFPN messages
- 2.12 KFPO messages
- 2.13 KFPR messages
- 2.14 KFPS messages
- 2.15 KFPT messages
- 2.16 KFPU messages
- 2.17 KFPW messages
- 2.18 KFPX messages
- 2.19 KFPY messages
- 2.20 KFPZ messages

2.1 KFPA messages

KFPA11101-E A

More than 255 nested operations, or implementation restriction exists

The operation contains more than 255 nesting levels, or an SQL statement cannot be executed due to restrictions on the system processing.

S: Ignores this SQL statement.

P: Take one of the following actions:

- Reduce the nesting levels to no more than 255 and re-execute. There are cases in which the nesting levels in the SQL that specifies a named derived table are 255 or less. In such cases, decrease the number of nesting levels in the SQL or in the query that derives the named derived table.
- Either simplify the SQL statement (by reducing the number of tables or columns, etc.) or reduce the number of table indexes the applicable SQL statement references, and then re-execute.
- If a large number of SQL statements that create work tables are being executed in a transaction, revise the SQL statements so that the number of work tables created is 255 or less, and then re-execute the SQL statements. For a description of how to estimate the number of work tables that are created, see the manual *HiRDB Version 8 Installation and Design Guide*.

KFPA11102-E A

More than *aa....aa* bytes in character string literal

One of the following values exceeds the maximum specifiable number (*aa....aa*):

- Number of bytes specified for a character string literal
- Number of bytes in the result of a concatenation operation between character string literals
- Number of bytes in the result of a scalar function (HEX) for which a literal is specified in its argument

The following maximum specifiable numbers apply:

- When specified in the `SQLSTATE` value: 5
- When specified in the `CREATE TABLE` or `ALTER TABLE` boundary values and storage conditions: 255
- All other cases: 32,000

aa....aa:

{ 5|255|32000 }

S: Ignores this SQL statement.

P: Reduce the length of the character string literal to no more than *aa....aa* bytes and re-execute.

KFPA11103-E A

Invalid floating point numeric literal *aa....aa*

The format of a specified floating-point numeric literal is invalid.

aa....aa: Invalid floating-point numeric literal

S: Ignores this SQL statement.

P: Correct the floating-point numeric literal and re-execute.

KFPA11104-E A

Invalid part "*aa....aa*" in SQL

The SQL statement contains an error, such as one of the following:

- The SQL statement is followed by a superfluous character string.
- A syntactically invalid character or keyword is specified.
- The first keyword in the SQL statement is invalid.
- A name does not begin with an alphabetic character.

aa....aa: Invalid part of the SQL statement

If the SQL statement contains a syntactically invalid character, the character is displayed with its hexadecimal representation enclosed in parentheses.

S: Ignores this SQL statement.

P: Correct the error and re-execute.

KFPA11105-E A

Invalid token "*bb....bb*" after token "*aa....aa*"

Syntactically, "*bb....bb*" cannot follow "*aa....aa*" in an SQL statement.

aa....aa: Last characters satisfying the syntax rules

bb....bb: Syntactically invalid characters

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute. Possible errors are as follows:

- The specification contains a syntax error.
- The order of clauses is invalid.

KFPA111106-E A

Incomplete SQL

An SQL statement is not complete.

S: Ignores this SQL statement.

P: Complete the SQL statement and re-execute.

KFPA111107-E A

More than 30 characters in identifier "*aa....aa*"

The name is longer than 30 characters. Another possibility is that an invalid keyword is specified.

aa....aa: The first 30 characters of the name.

S: Ignores this SQL statement.

P: If the name is longer than 30 characters, revise it so that it is 30 characters or less, and then re-execute. Revise any authorization identifier to 8 characters or less. If a keyword is specified incorrectly, revise the SQL statement, and re-execute it.

KFPA111112-E A

Invalid argument of set function "*aa....aa*"

One of the following errors exists in an argument of the set function "*aa....aa*":

- No column was specified in the argument.
- A FLAT specification was specified for an argument in a set function other than MAX or MIN.
- A column other than a repetition column was specified for the FLAT specification in the set function MAX or MIN.
- A set function with FLAT specified in an argument was specified in a GROUP BY clause query in which a value expression other than a column was specified.

aa....aa: Set function:

{ AVG | COUNT | MAX | MIN | SUM }

S: Ignores this SQL statement.

P: Specify the argument correctly in the set function and re-execute.

KFPA111113-E A

aa....aa function "*bb....bb*" is specified in argument of set function, query-no=*ccc*

Set function "*bb....bb*" is specified as an argument of a set function.

aa....aa: Specified function

Set

bb...bb: Set function:
 { AVG | COUNT | MAX | MIN | SUM }

ccc: Query number

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11114-E A

Invalid specification in predicate "*aa...aa*", query-no=*bbb*

There is an error in the specification of a NULL, LIKE, XLIKE, SIMILAR, BETWEEN, or Boolean predicate.

- NULL predicate contains information other than the item specification.
- A constant, USER, CURRENT_DATE, CURRENT_TIME, CURRENT_TIMESTAMP, ? parameter, or embedded variable was specified in the LIKE predicate, the XLIKE predicate value expression, or in the *row-value-constructor-1* of the BETWEEN predicate.
- CURRENT_DATE, CURRENT_TIME, CURRENT_TIMESTAMP, a ? parameter, or an embedded function is specified in a value expression in the SIMILAR predicate.
- A row value constructor was specified in the value expression of a LIKE, XLIKE, SIMILAR, or Boolean predicate.

aa...aa: Predicate whose operand is invalid:
 { NULL | LIKE | XLIKE | SIMILAR | BETWEEN | BOOL }

bbb: Number of the query that specified the predicate

S: Ignores this SQL statement. Alternatively, rolls back if the SQL statement is a definition SQL.

P: Correct the SQL statement as follows and re-execute:

KFPA11116-E A

Invalid search condition in "HAVING" clause, query-no=*aaa*

One of the following errors was found:

- Invalid LIKE, XLIKE, or NULL predicate was specified as a search condition in a HAVING clause
- Structured repetition predicate was specified in the search condition in a HAVING clause

aaa: Number of the query that specified the predicate

S: Ignores this SQL statement.

P: Correct the search condition in the HAVING clause and re-execute.

KFPA11117-E A

Number of *aa...aa* not equal to number of *bb...bb*

The number of *aa...aa* does not match the number of *bb...bb*.

aa...aa

{*insert-values* | *update-values-specified-by-subquery* | *left-side-row-value-structor-elements* | *derived-column-list*}

bb...bb

{*insert-columns* | *update-columns* | *right-side-row-value-structor-elements* | *derived-columns*}

S: Ignores this SQL statement. Rollback occurs in the case of a definition SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11118-E A

Invalid use of update table in update value

The following error occurred in the use of a table subject to updating:

- When the table to be updated is specified in the FROM clause of a subquery specified in the SET or ADD clause of the UPDATE statement, and the columns of the table to be updated are referenced externally, value expressions with the following attributes cannot be specified in the selection expression of the subquery:
 - BLOB
 - BINARY with a maximum length of 32,001 bytes or larger
 - Repetition column
 - Abstract data type
- When the UPDATE statement uses a cursor, a subquery that specifies the table to be updated in the FROM clause cannot be specified in the SET clause.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11119-E A

Column "*aa...aa*" in *bb...bb* clause must be either group column or within set function, query-no=(*ccc,ddd*)

In a query specifying a GROUP BY clause or a set function, the column specification in the SELECT, HAVING, or ORDER BY clause must satisfy either of the following conditions:

- The column specification must be a grouping column.

- The column specification must be specified in the argument of a set function.

If a value expression other than a column specification is specified in the `GROUP BY` clause, a grouping column cannot be referenced from a scalar subquery specified in the query's selection expression.

aa....aa: Name of the column whose specification is invalid

bb....bb: Name of the clause specifying "*aa....aa*"

{`SELECT|HAVING|ORDER BY|subquery in SELECT`}

ccc: Number of the innermost query specifying the column

ddd: Number of the query specifying the clause

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11120-E A

Cannot specify "*aa....aa*" function in "*bb....bb*" query-no=(*ccc*, *ddd*)

A set function or window function is specified at an invalid location.

aa....aa: {`set|window|only window`}

bb....bb: Name of the clause or statement in which a set function or window function is specified

{`"WHERE" clause|"SET" clause|"ADD" clause`

|`"ON" clause|"GROUP BY" clause|"IF" statement`

|`"WHILE" statement|"SET" statement`

|`"RETURN" statement|"VALUES" clause`

|`"CALL" statement|"WRITE LINE" statement`

|`"HAVING" clause|insert statement|subquery|derived table|select list`

|`select list with set function|value expression|set operation`

|`select list with group by clause|select list with having clause`}

ccc: Query number in which a set function or window function is specified

ddd: Query number in which the clause or statement is specified

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11121-E A

Duplicate update items or insert columns

In an INSERT statement, a column to be inserted cannot be specified more than once.

In an UPDATE statement, a column or attribute cannot be specified more than once as a column to be updated or as an update attribute. An element in a repetition column cannot be specified more than once.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11122-E A

More than 255 value expressions in "GROUP BY" clause

More than 255 value expressions were specified in the GROUP BY clause.

S: Ignores this SQL statement.

P: Reduce the number of value expressions in the GROUP BY clause to no more than 255 and re-execute.

KFPA11123-E A

Duplicate columns "*aa...aa*" in "*bb...bb*" clause

The same column cannot be specified more than once in the GROUP BY, ORDER BY, or FOR UPDATE clause, or in a derived column list.

aa...aa: Name of the column specified more than once, or the sort item specification number

bb...bb: Name of the clause specifying "*aa...aa*"

{GROUP BY|ORDER BY|FOR UPDATE OF|derived column list}

S: Ignores this SQL statement.

P: If the specified column name is invalid, correct the column name and re-execute. If the specified column name is correct, delete the invalid specification and re-execute.

KFPA11124-E A

More than 255 columns in "ORDER BY" clause

More than 255 columns were specified in the ORDER BY clause.

S: Ignores this SQL statement.

P: Reduce the number of columns in the ORDER BY clause to no more than 255 and re-execute.

KFPA11125-E A

Invalid integer *aa...aa* in "ORDER BY" clause

The following error was detected in the sort item specification number specified in the

ORDER BY clause:

- The sort item specification number exceeds the number of derived columns.

aa...aa: The erroneous sort item specification number

S: Ignores this SQL statement.

P: For the sort item specification number, specify the number indicating the location of the derived column in the SELECT clause of the selection expression, and then re-execute.

KFPA11126-E A

"ROW" can not be specified in "ORDER BY" clause using sort item number

A sort item specification number cannot be specified in the ORDER BY clause of an SQL statement specifying ROW.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11127-E A

Keyword "DISTINCT" already specified in query specification, query-no=*aaa*

DISTINCT cannot be specified more than once in one query specification.

aaa: Number of the query specifying DISTINCT more than one time.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11128-E A

Invalid use of keyword "NULL", query-no=*aaa*

One of the following errors was detected in the usage of NULL:

- NULL was specified as a value other than the NULL predicate in a search condition
- NULL was specified in the SELECT clause
- NULL was specified as the object of an arithmetic operation or concatenation operation
- NULL was specified as the argument of a scalar function

aaa: Number of the query that specified NULL.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11129-E A

More than *aa....aa* *bb...bb*

The number of *bb....bb* specified in an SQL statement exceeds the maximum number *aa....aa*.

aa....aa: Permitted maximum value:

{ 16 |64 |65|255|1023 |30000 }

bb....bb: Specification exceeding the permitted maximum:

{ tables|select columns|update columns
|columns in "INTO" clause
|variables or parameters
|columns in "FOR UPDATE OF" clause
|insert columns|values in "VALUES" clause
|view columns|"WITH" query columns
|"java.sql.ResultSet[]" in EXTERNAL NAME clause
|attributes in type definition|data types
|function invocation
|multi value columns in column name
|list of ARRAY predicate
|SQL variables and SQL parameters
|row value constructor elements
|derived columns|correlation names }

S: Ignores this SQL statement.

P: Reduce the number of *bb....bb* to no more than *aa....aa* and re-execute.

KFPA11131-E A

Invalid precision or scale in scalar function "DECIMAL"

Invalid precision or scale was specified in the DECIMAL scalar function.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11132-E A

Invalid use of *aa....aa* *dd...dd* "*bb...bb*", query-no=*ccc*

A column, SQL variable, or SQL parameter of the *aa....aa* type is used incorrectly, an attribute of the *aa....aa* type is used incorrectly, or a function invocation of the *aa....aa* type is used incorrectly as a data type for a function return value.

aa....aa: Incorrectly used data type

{ BLOB |BINARY |abstract |BOOLEAN }

bb....bb: Name of the incorrectly used column, SQL variable, SQL parameter, attribute, or function

ccc: Number of the innermost query that specified an incorrectly used column, SQL

variable, SQL parameter, attribute, or function

dd....dd: Type of the incorrectly used name
 { column, SQL variable or SQL parameter
 |attribute|function invocation }

S: Ignores this SQL statement (unless it is a definition SQL statement, in which case rollback is executed).

P: Correct the SQL statement and re-execute.

KFPA11133-E A

Invalid specification of update value for *aa....aa* column or attribute

When updating or inserting an abstract data type column or attribute, neither an embedded variable nor the ? parameter can be specified as the insertion value or update value.

aa....aa: Invalid data type (abstract)

S: Ignores this SQL statement (unless it is a definition SQL statement, in which case rollback is executed).

P: Correct the SQL statement and re-execute.

KFPA11134-E A

Invalid use of long data *cc....cc* "*aa....aa*", query-no=*bbb*

One of the following items was used incorrectly:

- A column of long data, an SQL variable, or an SQL parameter
- An attribute of long data
- A function invocation with a long data data type for its function return value

Long data refers to any of the following data types:

- CHAR, VARCHAR, MCHAR, MVARCHAR, or BINARY with a definition length of 256 bytes or greater
- NCHAR or NVARCHAR with a definition length of 128 characters or greater

aa....aa: Name of the incorrectly used column, SQL variable, SQL parameter, attribute, or function

bbb: Number of the innermost query that specified an incorrectly used column, SQL variable, SQL parameter, attribute, or function

cc....cc: Type of the incorrectly used name
 { column, SQL variable or SQL parameter
 |attribute|function invocation }

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11136-E A

Invalid use of ? parameter in *aa...aa* statement

The ? parameter is used in a procedure definition, in a procedure body in a type definition, in a function definition, or in a function body in a type definition modification.

aa...aa: CREATE PROCEDURE, PROCEDURE definition in CREATE TYPE, CREATE FUNCTION, FUNCTION definition in CREATE TYPE

S: Ignores this SQL statement

P: Correct the SQL statement and re-execute.

KFPA11137-E A

More than 255 *aa...aa* in *bb...bb*

The number of items specified in the descriptor shown in *bb...bb* exceeds the maximum (255).

aa...aa: {value expressions|row value constructors}

bb...bb: Invalid specification in SQL statement:

```
{ "IN" predicate
  | scalar function "VALUE"
  | case abbreviation "COALESCE" }
```

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11138-E A

Invalid use of derived table

The correlation name for the derived table was not specified. The correlation name for the derived table can be omitted only when the outermost query is specified in the following format:

- SELECT COUNT(*) FROM *derived-table*

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11139-E A

More than 30000 elements in multi-value specification

The number of elements in a repetition value expression is greater than the maximum allowable value (30000). *Repetition value expression* refers to ARRAY [*element-value*, ...].

S: Ignores this SQL statement (unless it is a definition SQL statement, in which case rollback is executed).

P: Reduce the number of element values, and then rerun the program.

KFPA11140-E A

Invalid national character string literal

Specified national character string literal contains a syntax error.

S: Ignores this SQL statement.

P: Correct the national character string literal in the SQL statement and re-execute.

KFPA11141-E A

More than *aa....aa* characters in national character string literal

One of the following numbers is greater than the maximum specifiable number (*aa....aa*):

- Number of characters specified in a national character string literal
- Number of characters in the result of a concatenation operation between national character string literals

The following maximum specifiable numbers apply:

- Number when specified in the `CREATE TABLE` or `ALTER TABLE` boundary values and storage conditions: 127
- All other cases: 16,000

aa....aa: 16000 or 127

S: Ignores this SQL statement.

P: Correct the national character string literal so that its length does not exceed *aa....aa* characters, then re-execute.

KFPA11144-E A

Invalid *aa....aa* string literal

There is a syntax error in the hexadecimal character string literal specification.

aa....aa: {usage of hex|hex}

For usage of hex:

The hexadecimal character string literal is specified in the following locations:

- `COMMENT` statement
- Plug-in option
- `CREATE TABLE` or `ALTER TABLE` boundary values and storage

conditions

For hex:

- The hexadecimal character length specified in the hexadecimal character string literal is not a multiple of 2.
- A character other than 0-9, a-f, or A-F was specified in the hexadecimal character string literal.

S: Ignores this SQL statement.

P:

When *aa....aa* is usage of hex:

Use a character string literal instead of a hexadecimal character string literal.

When *aa....aa* is hex:

Take one of the following actions, and then re-execute:

- In the hexadecimal character string literal, specify a hexadecimal character length that is a multiple of 2.
- Delete any characters other than 0-9, a-f, or A-F that are specified in the hexadecimal character string literal.

KFPA11145-E A

More than 64000 bytes in hex string literal

The hexadecimal character length specified in the hexadecimal character string literal is more than 64,000 characters.

S: Ignores this SQL statement.

P: Reduce the hexadecimal character length of the hexadecimal character literal to a maximum of 64,000 characters.

KFPA11146-E A

More than 255 compound(BEGIN) statements and FOR statement nested

There are more than 255 nesting levels in the compound statement and FOR statement.

S: Ignores this SQL statement.

P: Reduce the nesting level count of the compound statement and FOR statement to 255 or less and re-execute.

KFPA11148-E A

Invalid use of holdable cursor

The specified holdable cursor is invalid for one of the following reasons:

- When a holdable cursor is specified, none of the following can be specified:

- Table for another RD-node (for remote database access)
- A holdable cursor cannot be specified for a single-line retrieval.
- A holdable cursor cannot be specified in a search specifying columns of the abstract data type provided by a plug-in.
- A holdable cursor cannot be specified in a search specifying a function call provided by a plug-in.
- A holdable cursor cannot be specified in a search of a named derived table specified in a function call provided by a plug-in.
- A holdable cursor cannot be specified in a search using a list.
- A holdable cursor cannot be specified when searching using an external table or a view table based on an external table.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11149-E A

Invalid use of keyword "ROW"

One of the following errors was detected in the usage of ROW:

- ROW cannot be specified in a query specifying the GROUP BY clause, HAVING clause, or a set function.
- ROW cannot be specified in a subquery (including derived tables in the FROM clause).
- ROW cannot be specified in a query using UNION.
- ROW cannot be specified in a view definition query or in a WITH clause.
- ROW cannot be specified in a derived table of a FOR statement cursor specification.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11154-E A

Invalid use of SQL parameter or SQL variable "aa....aa"

Either an SQL parameter or an SQL variable is specified in an SQL statement other than CREATE PROCEDURE, CREATE TRIGGER, CREATE FUNCTION, or CREATE TYPE.

aa....aa: Name of the specified SQL variable or SQL parameter

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11155-E A

Invalid use of "aa...aa" clause

A FOR UPDATE OF or FOR READ ONLY clause cannot be specified in any location other than a cursor declaration.

aa...aa: Name of the invalid clause:

{ FOR UPDATE OF|FOR READ ONLY }

S: Ignores this SQL statement.

P: Correct the SQL statement or update option and re-execute.

KFPA11156-E A

Invalid query for "UPDATE" or "DELETE" statement with cursor

None of the following can be specified in a query that updates or deletes data using a cursor, or in a query that specifies the FOR UPDATE clause:

- Joining tables
- FROM clause derived table
- Grouping
- Set function
- Duplicate elimination
- Specification, in the FROM clause of a subquery, of a table specified in a FROM clause of the outermost query specification
- Read-only view table
- UNION [ALL] or EXCEPT [ALL]
- WITHOUT LOCK NOWAIT
- Query name specified in a FROM clause of the outermost query specification in the query expression body that specified a WITH clause
- External table, or a view table based on an external table
- Result set returned from a procedure
- Window function

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11157-E A

Invalid use of "UPDATE" or "DELETE" statement with cursor

One of the following errors occurred in the UPDATE or DELETE statement using a cursor:

- The UPDATE or DELETE statement using a statically declared cursor cannot be preprocessed by the PREPARE statement.
- The UPDATE or DELETE statement using a cursor that can be preprocessed cannot be statically executed.
- The cursor is incorrectly declared or is not assigned.

S: Ignores this SQL statement.

P: Take one of the following actions:

- If the SQL statement is executed dynamically, revise the SQL statement to an UPDATE or DELETE statement that uses a preprocessable cursor, and re-execute.
- If the SQL statement is executed statically, revise the SQL statement to an UPDATE or DELETE statement that uses a statically declared cursor, and re-execute.
- Revise the cursor declaration or assignment and re-execute.

KFPA11158-E S

Invalid SQL statement for pdddef utility

The specified SQL statement cannot be executed by the database definition utility (pdddef).

S: Ignores this SQL statement.

P: Specify an SQL statement that can be executed by the database definition utility and re-execute.

KFPA11159-E A

Unable to specify *aa....aa* in *bb....bb* SQL

An ASSIGN LIST statement, DROP LIST statement, or a search using a list cannot be embedded directly in the host program for execution. Also, GET DIAGNOSTICS cannot be dynamically executed.

aa....aa:

```
{ ASSIGN LIST|DROP LIST|
  query using LIST|GET DIAGNOSTICS }
```

bb....bb: {dynamic|static}

S: Ignores this SQL statement.

P: Take one of the following actions:

- Specify the ASSIGN LIST statement or DROP LIST statement in the PREPARE statement or EXECUTE IMMEDIATE statement.
- In a PREPARE statement, specify a search that uses a list.

- Do not specify GET DIAGNOSTICS in a PREPARE statement or an EXECUTE IMMEDIATE statement.

KFPA11161-E A

Zero divisor specified

Zero was specified as the divisor.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11162-E A

Ending label name must be the same name as beginning label name, beginning-label=*aa....aa*, ending-label=*bb....bb*

The beginning label does not match the ending label.

aa....aa: Specified beginning label

bb....bb: Specified ending label

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11163-E A

Invalid search condition in IF statement or WHILE statement

The following error was detected in the search condition specified in the IF or WHILE statement:

- A subquery is specified.
- A structured repetition predicate was specified.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11164-E A

Missing cursor name after "where current of"

The cursor name or extended cursor name is missing in an UPDATE or DELETE statement that uses a cursor.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11165-E A

Invalid value "*aa....aa*" of *cc....cc* "*bb....bb*"

One of the following errors exists in the SQL statement:

- A value or an identifier in a specified compile option is invalid.

- The option value specified in CREATE FOREIGN TABLE is invalid.
- The option value of OPTIONS specified in CREATE SERVER is invalid.
- The option value of OPTIONS specified in CREATE USER MAPPING is invalid.
- USER was not specified in OPTIONS for CREATE USER MAPPING.

aa...aa: Specified compile option, or the value or identifier of the option

If the option is longer than 30 characters, and then the first 30 characters are displayed. Also, the option becomes `*****` if the option value is a null character string.

bb...bb: Invalid compile option or other option

{ ISOLATION | OPTIMIZE LEVEL | ADD OPTIMIZE LEVEL | SUBSTR
LENGTH | COLLATING_SEQUENCE | TRAILING_SPACE | NULLABLE_SCHEMA | TA
BLE | USING_BES | USER | PASSWD }

cc...cc: Error location:

{ compile option | OPTIONS }

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11167-E A

More than 255 WHEN clauses in CASE expression, query_no=*aaa*

More than 255 WHEN clauses were specified in one CASE expression or in an outermost CASE expression that included nested CASE expressions.

aaa: Number of the query that specified a CASE expression

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11168-E A

Invalid search condition in CASE expression, query_no=*aaa*

The search condition in a CASE expression contains the following error:

- A structured repetition predicate was specified.

aaa: Number of the query that specified a CASE expression

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11169-E A

Unable to specify joined table in view definition, "WITH" query or query expression body with "WITH" clause

A joined table cannot be specified in a view-definition-derived query expression, a derived query expression in a WITH clause, or in a query expression body for a query expression containing a WITH clause specification.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11170-E A

Unable to specify national character or mixed character in environment using single-byte character code set or Unicode (UTF-8) character code set

While using Unicode (UTF-8), one of the following errors was detected:

- A national character literal was used.
- A column with the national character data type was defined.

While one-byte character codes were being used, one of the following errors was detected:

- A national character or mixed character string literal was used.
- A column with the national character or mixed character data type was defined.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11171-E A

Duplicate value expressions in "GROUP BY" clause

Only one value expression of the same type can be specified in the GROUP BY clause.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11172-E A

Unable to specify outer reference "*aa...aa*". "*bb...bb*" in query with grouping by expression, query-no=*ccc*

If a value expression other than the column specification is used in the GROUP BY clause contained in a subquery, a column that makes an external reference cannot be specified in the WHERE clause or ON clause for the same subquery.

aa...aa: Table identifier or correlation name

bb...bb: Name of column that makes an external reference

ccc: Number of the query specifying a column that makes an external reference

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11173-E A

Invalid value expression in "GROUP BY" clause, query-no=aaa

One of the following errors was detected in the GROUP BY clause:

- A value expression other than a column specification is specified in a view definition or in the GROUP BY clause of a derived query expression containing a WITH clause.
- A value expression other than a column specification is specified in the GROUP BY clause of a subquery contained in a WHERE clause for a query specification in which a value expression other than a column specification is specified in the GROUP BY clause.
- A ? parameter or embedded variable was specified in the value expression in the GROUP BY clause.
- A component specification is specified in a value expression in a GROUP BY clause.
- A subquery is specified in a value expression in a GROUP BY clause.

aaa: Number of the query specifying an invalid GROUP BY clause

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11174-E A

RETURN statement not specified in function definition

The RETURN statement is not specified in the function definition.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11175-E A

Unable to specify component specification in derived table

Component specifications are not allowed in a derived table.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11176-E A

Specify only routine control statement except FOR statement in function definition

Only routine control SQL statements other than the FOR statement are allowed in a function definition.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11177-E A

Invalid specification of argument in *aa...aa*

The argument specification in the function invocation contains the following errors:

- Either a ? parameter or embedded variable was specified in an argument without specifying *AS data-type*.
- A data type other than a predefined data type was specified in *AS data-type*.
- *AS data-type* was specified in an argument other than a ? parameter or an embedded variable.
- A unary operation using a ? parameter or an embedded variable was specified for an argument.

One of the following errors occurred in the value expression specified in the argument of a scalar function (LENGTH, SUBSTR, POSITION) or in the assignment value of an assignment statement:

- *AS data-type* was not specified, and a ? parameter or an embedded variable was specified in an argument
- *AS data-type*, for which a data-type other than BLOB or BINARY was specified
- *AS data-type* was specified in the value expression of other than a ? parameter or an embedded variable
- A unary operation using a ? parameter or an embedded variable was specified in an argument

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11179-E A

Unable to specify *aa...aa* in search condition of ARRAY predicate, query-no=*bbb*

The following specifications are not allowed in a search condition in a structured repetition predicate:

1. A structured repetition predicate
2. A subquery
3. A column other than those specified in ARRAY (*repetition-column* [, *repetition-column*]).
4. One of the following specifications made in a predicate comparison condition:
 - System-defined scalar function, function invocation, and predicate that includes IS_USER_CONTAINED_IN_HDS_GROUP.

- Predicate that does not include a column specification

aa....aa:

```
{ ARRAY predicate |subquery
|except columns in column name list of ARRAY predicate
|function invocation |predicate without column }
```

bbb: Number of the query specifying a predicate

S: Ignores this SQL statement (unless it is a definition SQL statement, in which case rollback is executed).

P: Correct the SQL statement and re-execute.

KFPA11180-E A

Subscript specified for single-value column, SQL variable, or SQL parameter "*aa....aa*", query-no=*bbb*

Subscripts cannot be specified in a non-repetition column, an SQL variable, or the SQL parameter "*aa....aa*".

aa....aa: Item for which an incorrect subscript was specified

bbb: Number of the innermost query specifying "*aa....aa*".

S: Ignores this SQL statement (unless it is a definition SQL statement, in which case rollback is executed).

P: Correct the SQL statement and re-execute.

KFPA11181-E A

Invalid use of multi-value column "*aa....aa*" without subscript, query-no=*bbb*

A repetition column that omitted subscripts is specified at an invalid location.

aa....aa: Column name of the column from which subscripts are omitted

bbb: Number of the innermost query specifying "*aa....aa*".

S: Ignores this SQL statement (unless it is a definition SQL statement, in which case rollback is executed).

P: Correct the SQL statement and re-execute.

KFPA11182-E A

Invalid use of multi-value column "*aa....aa*" with subscript, query-no=*bbb*

A repetition column with a subscript specification is specified at an invalid location.

aa....aa: Column name of the repetition column with a subscript specification

bbb: Number of the innermost query specifying "*aa....aa*".

S: Ignores this SQL statement (unless it is a definition SQL statement, in which case rollback is executed).

P: Correct the SQL statement and re-execute.

KFPA11183-E A

Invalid use of multi-value column "*aa...aa*", query-no=*bbb*

A repetition column is specified at an invalid location.

aa...aa: Name of the incorrectly specified column. However, if this incorrectly specified column is a column of a named derived table that was derived from a set function that has a repetition column as an argument, the column name of the base table of the applicable named derived table is displayed.

bbb: Number of the innermost query specifying "*aa...aa*".

S: Ignores this SQL statement (unless it is a definition SQL statement, in which case rollback is executed).

P: Correct the SQL statement and re-execute.

KFPA11184-E A

Subscript of multi-value column "*aa...aa*" exceeds maximum number of elements, query-no=*bbb*

The subscript specified in a repetition column exceeds the maximum number of elements.

aa...aa: Column name of the repetition column

bbb: Number of the innermost query specifying "*aa...aa*".

S: Ignores this SQL statement (unless it is a definition SQL statement, in which case rollback is executed).

P: Correct the SQL statement and re-execute.

KFPA11185-E A

Invalid specification of update or insert value for column "*aa...aa*"

The insert or update value contains one of the following errors:

Insert value:

- A non-NULL simple structure value is specified for a repetition column that omitted subscripts.
- A repetition structure value is specified for a column in a simple structure.

Update value in a SET clause:

- A non-NULL simple structure value is specified for a repetition column that omitted subscripts.

- A repetition structure value is specified in a component specification, a column of a simple structure, or a repetition column with a subscript specification.

Update value in `ADD` clause:

- A simple structure value is specified.
- A subquery is specified for the element value of a repetition column.

aa....aa: The column name with an insert or update value specification error, or the column name in a component specification

S: Ignores this SQL statement (unless it is a definition SQL statement, in which case rollback is executed).

P: Correct the SQL statement and re-execute.

KFPA11186-E A

Invalid subscript for multi-value column "*aa....aa*", query-no=*bbb*

The subscript specified for a repetition column contains an error.

aa....aa: Column name of the repetition column

bbb: Number of the innermost query specifying "*aa....aa*".

S: Ignores this SQL statement (unless it is a definition SQL statement, in which case rollback is executed).

P: Correct the SQL statement and re-execute.

KFPA11187-E A

`DISTINCT` specified for multi-value column, query-no=*aaa*

`DISTINCT` cannot be specified for a repetition column.

aaa: Number of the innermost query specifying a repetition column

S: Ignores this SQL statement (unless it is a definition SQL statement, in which case rollback is executed).

P: Correct the SQL statement and re-execute.

KFPA11188-E A

Invalid query with `FLAT` specification

The following error occurred in a query with `FLAT` specified in the `FROM` clause:

- A column other than the column specified by `FLAT` is specified.
- The number of columns specified in `FLAT` exceeds 16.
- The indexes included for all columns specified in `FLAT` are not defined.
- The columns specified in `FLAT` do not include any repetition columns.

- A view table, query name, external table, or table name is specified in the FROM clause.
- FLAT is specified in the SELECT clause of INSERT SELECT, a view definition, the WITH clause, a FROM clause derived table, or a subquery.
- The following items are specified:
 - FOR READ ONLY
 - FOR UPDATE clause
 - LIMIT clause
 - GROUP BY clause that specifies a value expression other than a column specification
 - Component specification
 - Set function containing a FLAT specification
 - Function call
 - Subquery
 - Set operation
 - Table join
 - Column that specifies a subscript
- The following item is specified in a search condition:
 - Structured repetition predicate

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11189-E A

Invalid subscript for multi-value column "*aa....aa*"

The maximum number of elements in the repetition column "*aa....aa*" specified in the CREATE TABLE or ALTER TABLE statement is invalid.

aa....aa: Column name of the repetition column

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11191-E A

Subquery specified in ASSIGN LIST statement

A subquery (excluding subqueries in an IN predicate without a NOT specification that do not make an external reference) is specified in an ASSIGN LIST statement.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11192-E A

Two or more selection items specified in scalar subquery,
query-no=*aaa*

More than one scalar subquery or retrieval item is specified.

aaa: Number of the subquery in which more than one retrieval item is specified

However, if a set operation is specified in a subquery, this becomes the number of the first specified query specification among the query specifications of the set operation.

S: Ignores this SQL statement.

P: Correct the SQL statement so that only one retrieval item is specified and re-execute.

KFPA11194-E A

Unable to specify qualified column name in ORDER BY clause in query using set operation

A qualified column name has been specified in the ORDER BY clause of a query using a set operation.

S: Ignores this SQL statement.

P: Correct the SQL statement as follows and re-execute:

- If AS *column-name* is specified in the SELECT clause specified in the first query, specify the column name specified in AS *column-name*.
- If there is no AS *column-name* specification, delete the table specification.
- Specify a sort item specification number.
- If no sorting is to be performed, delete the ORDER BY clause.

KFPA11195-E A

Derived tables for SET operation must have same number of columns

The number of derived columns does not match the number specified for a set operation.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11196-E A

Precision exceeds 29 in *aa....aa*, result data type decimal,
column-no=*bbbb*, query-no=*ccc*

The data type of the execution result of the scalar function VALUE, the result of a CASE

expression, the execution result of a set operation, or the result of a function invocation, is the DECIMAL data type. Or, the resulting precision exceeded 29.

aa...aa: SQL statement containing the error

```
{ scalar function |SET operation |CASE expression  
  |function invocation }
```

bbbb: The column number indicating which element in the derived table exceeded 29 in precision (the value 0 indicates a scalar function, a CASE expression, or a function invocation)

ccc: Number of the query specifying the error-causing scalar function, CASE expression, set operation, or function invocation

S: Ignores this SQL statement (unless it is a definition SQL statement, in which case rollback is executed).

P:

Correct the decimal data specified in the VALUE scalar function, the CASE expression, or the set operation, and then re-execute.

For a function invocation, correct the data type in the RETURNS clause in the function definition, and then re-execute.

KFPA11197-E A

Inconvertible data type in SET operation, column-no=*aaaaa*, query-no=*bbb*

A set operation was specified, but the data type of the corresponding column cannot be converted.

aaaaa: Number of the column of the derived table resulting in the error

bbb: Number of the query resulting in an error

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11198-E A

Invalid specification of SET clause in UPDATE statement

One of the following error corrections must be made to the UPDATE statement:

- If only one update target item is specified as the assignment target for the SET clause, omit the parentheses enclosing the update target's name.
- If multiple update target items are specified as the assignment targets for the SET clause, enclose all the update target names in parentheses. In this case, specify a subquery for the assignment source.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11200-E A

Invalid table specification in CREATE ALIAS statement

The CREATE ALIAS statement contains an invalid table specification.

The RD-node name, authorization identifier, or table identifier format must be specified for a table in the CREATE ALIAS statement.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11201-E A

Invalid item specification, authorization identifier *aa...aa*, table identifier *aa...aa*, table identifier, correlation name, query name, statement label or routine identifier "*bb...bb*", query-no=*ccc*

In the SQL statement, the table specification that qualifies a column name is not a valid name. Or, a qualifier of the SQL parameter or the SQL variable is not a valid name specified in the SQL statement.

The invalid qualifier is *aa...aa.bb...bb* or "*bb...bb*".

aa...aa: Authorization identifier specified in the table specification

bb...bb: Table identifier, correlation name, query name, statement label name, or routine name

ccc: Number of the innermost query specifying the invalid qualifier

S: Ignores this SQL statement (unless it is a definition SQL statement, in which case rollback is executed).

P: Correct the SQL statement and re-execute.

KFPA11202-E A

Column, SQL variable, or SQL parameter "*aa...aa*" not found in any tables, query names, statement label, or routines, query-no=*bbb*

Column "*aa...aa*" cannot be found in any table of the SQL statement or query, or in a query name. Or, the SQL variable or SQL parameter "*aa...aa*" is not declared in the routine.

aa...aa: SQL variable, SQL parameter, or column name that could not be found in the SQL statement

bbb: Number of the query specifying the column, SQL variable, or SQL parameter.

S: Ignores this SQL statement (unless it is a definition SQL statement, in which case rollback is executed).

P: Correct the SQL statement, and then re-execute.

KFPA11203-E A

Column "*aa....aa*" ambiguous, query-no=*bbb*

Because column "*aa....aa*" was found in more than one table in this query or in more than one query name, the table or query name column corresponding to column "*aa....aa*" cannot be determined.

aa....aa: Name of the column that was found more than once in the query

bbb: Number of the query specifying the column

S: Ignores this SQL statement.

P: Modify the column name with the correct table name, correlation name, or query name, and then re-execute.

KFPA11204-E A

Table/index/trigger *aa....aa*. "*bb....bb*" not found in system

A table, table alias, index, or trigger *aa....aa*. "*bb....bb*" was not found in the HiRDB system.

In the case of a data manipulation SQL that has a WITH clause specified, table *aa....aa*. "*bb....bb*" was not found in the HiRDB system. Or, query name "*bb....bb*" was not found in the WITH clause.

aa....aa: Authorization identifier

bb....bb: Table identifier, table alias, index identifier, query name, or trigger identifier

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11205-E A

Column "*aa....aa*" not found in table *bb....bb*. "*cc....cc*"

Column *aa....aa* was not found in table *bb....bb*. "*cc....cc*", in the correlation name of a derived table of the FROM clause, or in query name "*cc....cc*" in a query of the WITH clause.

aa....aa: Column name

bb....bb: Authorization identifier

cc....cc: Table identifier (for a derived table, the correlation name) or query name

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11206-E A

Invalid *aa....aa* type

One of the following errors was detected in the table or the index specification:

Table:

- DROP TABLE cannot be used to delete a view table definition or external table definition.
- DROP VIEW cannot be used to delete a base table or external table definition.
- DROP FOREIGN TABLE cannot be used to delete a base table or view table.

Index:

- DROP INDEX cannot be used to delete an external index definition.
- DROP FOREIGN INDEX cannot be used to delete an index definition.

aa....aa: { table | index }

S: Ignores this SQL statement.

P:

table:

If DROP TABLE was executed, specify a base table and re-execute. If DROP VIEW was executed, specify a view table and re-execute. If DROP FOREIGN TABLE was executed, specify an external table and re-execute.

index:

If DROP INDEX was executed, specify an index and re-execute. If DROP FOREIGN INDEX was executed, specify an external index and re-execute.

KFPA11207-E A

cc....cc not found in table *aa....aa*. "*bb....bb*"

No *cc....cc* is defined for table *aa....aa*. "*bb....bb*".

aa....aa: Authorization identifier

bb....bb: Table identifier

cc....cc:

{ CLUSTER KEY | PRIMARY KEY | PRIMARY CLUSTER KEY }

S: Ignores this SQL statement.

P: Delete this SQL statement.

KFPA11208-E A

Sort column "*aa....aa*" must be selected column

Column "*aa....aa*" specified in the ORDER BY clause is not specified in the SELECT clause of the outermost query.

aa....aa: Name of the sort column

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11209-E A

Column cannot be updated

An attempt was made to update a column that cannot be updated. The following columns cannot be updated:

- Column specifying a storage condition
- Column specifying a cluster key
- Column of a table with the `WITHOUT ROLLBACK` specification that specifies the index

S: Invalidates this transaction.

P: Correct the SQL statement and re-execute.

KFPA11210-E A

"NOT NULL" constraint violation

An attempt was made to set the `NULL` value in a column where the `NULL` value cannot be set, or in an argument passed to a Java stored procedure.

- A `NULL` value cannot be set in a column defined as `NOT NULL`.
- A `NULL` value cannot be set in a table column or `ROW` that has the `FIX` attribute.
- A `NULL` value cannot be set in a cluster key or for configuring a primary key.
- If a Java stored procedure is defined where a `NULL` value data type cannot be set as the argument for a Java method specified as an external routine, a `NULL` value cannot be set for the argument used when the Java stored procedure is called.

S: Ignores this SQL statement.

P: Set a value other than the `NULL` value in the column that cannot accept `NULL` values or in the argument of the Java stored procedure, and then re-execute. Or, redefine the Java stored procedure by changing the argument of the Java method to a data type that can be set to a `NULL` value, and re-execute.

KFPA11211-E A

Duplicate identifier "*aa....aa*" in "FROM" clause, query-no=*bbb*

Name "*aa....aa*" is duplicated in the `FROM` clause. The same correlation name cannot be used for more than one table. Or, the correlation name cannot be the same as the table identifier or query name.

aa....aa: Name

bbb: Number of the query specifying a duplicate name

S: Ignores this SQL statement (unless it is a definition SQL statement, in which case rollback is executed).

P: Correct the SQL statement and re-execute.

KFPA11212-E A

"NULL" predicate cannot be specified in column "*aa...aa*" with "NOT NULL", query-no=*bbb*

The NULL predicate was specified for a column for which the null value cannot be specified:

- A NULL predicate cannot be specified for a column defined as NOT NULL.
- A NULL predicate cannot be specified for a column or ROW that has the FIX attribute.
- A NULL predicate cannot be specified for a column configured as a cluster key.

aa...aa: Name of the column for which the invalid NULL predicate was specified

bbb: Number of the innermost query specifying the invalid column

S: Ignores this SQL statement.

P: Correct the search condition and re-execute.

KFPA11213-E A

"ROW" specification ambiguous

Because there is more than one applicable table in a query specifying ROW, the table corresponding to the ROW specification cannot be determined.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11214-E A

"ROW" can be specified only for "FIX" table

ROW cannot be specified for a table other than a table that has the FIX attribute.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11215-E A

Invalid update VALUE for "ROW" specification

When specifying ROW and inserting or updating data, specify an embedded variable, ? parameter, SQL variable, or SQL parameter was specified as the update value.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11216-E A

"ROW" cannot be specified for inner table

ROW cannot be specified for an inner table specified for an outer join of a joined table.

S: Ignores this SQL statement; executes a rollback in the case of a definition SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11217-E A

Invalid use of SQLCODE or SQLCOUNT

Either SQLCODE or SQLCOUNT is used in a condition in an IF or WHILE statement, in an assignment value in a SET statement, or in a non-return value in a RETURN statement.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11218-E A

Duplicate column "aa...aa" in derived table

A duplicate column, "aa...aa", is present in the derived table of the FROM clause.

aa...aa: Duplicate column name

S: Ignores this SQL statement. However, if this SQL statement is a definition SQL statement, it is rolled back.

P: Correct the SQL statement and re-execute.

KFPA11220-E A

Sort column "aa...aa" found more than once in derived table

Column "aa...aa" specified in the ORDER BY clause was detected more than once in the table derived as the result of a query.

aa...aa: Column name specified in the ORDER BY clause

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11223-E A

Invalid type, aa...aa must be specified

An invalid data type is specified.

If aa...aa is abstract data, a subtype cannot be defined by specifying a plug-in-supplied data type in the under clause.

aa...aa: Type of the data type that needs to be specified

abstract data: Abstract data type

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11224-E A

aa....aa type "*bb....bb*". "*cc....cc*" not found in system

The user-defined type "*bb....bb*" or "*cc....cc*" of the type *aa....aa* is not in the HiRDB system.

aa....aa: Data type
{Data | Index}

bb....bb: Authorization identifier (owner of the type)

cc....cc: Data type identifier or index type identifier

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11227-E A

Column "*aa....aa*" in "ON" condition not found in any tables,
query-no=*bbb*

The column name "*aa....aa*" specified in the ON condition is not found in any of the following tables:

- Table joined in a joined table containing the ON condition
- Table that can make an external reference

aa....aa: Column name

bbb: Query number

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11228-E A

Attribute "*aa....aa*" not found in data type "*bb....bb*". "*cc....cc*"

The attribute "*aa....aa*" is not in the data type "*bb....bb*". "*cc....cc*".

aa....aa: Attribute name

bb....bb: Authorization identifier (owner of the user-defined type)

cc....cc: Data type identifier

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11230-E A

Unable to specify other RDNODE in "CREATE PROCEDURE" or "ALTER PROCEDURE"

SQL for accessing another RD-node cannot be specified in the CREATE PROCEDURE statement. Or, SQL for accessing another RD-node was specified from the procedure to be re-created by the ALTER PROCEDURE statement.

S: Ignores this SQL statement.

P:

When the CREATE PROCEDURE statement was executed:

Correct the definition statement so that no other RD-node is accessed, and then re-execute.

When the ALTER PROCEDURE statement was executed:

Execute the DROP PROCEDURE statement, correct the definition statement so that no other RD-node is accessed, then re-create with the CREATE PROCEDURE statement. Or, execute the DROP PROCEDURE statement and modify the UAP so that this procedure will not be used.

KFP11231-E A

SQL variable "aa...aa" already defined

The specified SQL variable "aa...aa" is already defined.

aa...aa: SQL variable

S: Ignores this SQL statement and executes rollback.

P: Correct the SQL statement and re-execute.

KFPA11232-E A

Cursor "aa...aa" already defined

The specified cursor is already defined.

aa...aa: Cursor name

S: Ignores this SQL statement and executes rollback.

P: Correct the SQL statement and re-execute.

KFPA11233-E A

DECLARE CURSOR statement missing for cursor "aa...aa"

The specified cursor "aa...aa" is not declared as a cursor.

aa...aa: Cursor name

S: Ignores this SQL statement and executes rollback.

P: Correct the SQL statement and re-execute.

KFPA11234-E A

Invalid statement label "*aa....aa*" in LEAVE statement

One of the following errors was found in statement label "*aa....aa*" of the LEAVE statement.

- The statement label specified in the LEAVE statement was not found.
- The statement label specified in the LEAVE statement is not a statement label of a compound statement that includes that LEAVE statement, or a statement label of a WHILE statement.
- A LEAVE statement that omits the label name is not included in the compound statement or WHILE statement.
- A LEAVE statement to exit handler operation was specified while the handler was running.
- A FOR statement loop variable name, which cannot be specified.

aa....aa: Statement label (***** when the label name is omitted)

S: Ignores this SQL statement and executes rollback.

P: Correct the SQL statement and re-execute.

KFPA11235-E A

Number of call parameters not equal to number of SQL parameters

The number of arguments specified in the CALL statement does not match the number of SQL parameters of the procedure to be called.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11236-E A

Invalid use of SQL parameter or column "*aa....aa*", due to in/out parameter mode or qualification by old row value correlation

One of the following usage errors was found in SQL parameter "*aa....aa*" that the SQL parameter or old correlation name qualified:

- An input parameter or column qualified by an old correlation name was specified in a FETCH statement, in the INTO clause of a single-row SELECT statement, or in the assignment target of an assignment statement.
- An argument definition of a routine subject to the CALL statement specifies an input parameter or column qualified by the old correlation name in the OUT or INOUT argument.
- An output parameter was specified in a location other than the FETCH statement, the INTO clause in a single-row SELECT statement, the assignment target in an assignment statement, or the value expression in a WRITE LINE statement.

- An output parameter was specified in the `IN` argument of the argument definition for a routine that is subject to the `CALL` statement.

aa...aa: SQL parameter

S: Ignores this SQL statement and executes rollback.

P: Correct the SQL statement and re-execute.

KFPA11237-E A

Unable to specified column "*aa...aa*", query-no=*bbb*

Column "*aa...aa*" is specified in a specification-disabled location.

A specification-disabled location is either of the following:

- Pattern character string or escape character in the `LIKE` predicate
- Pattern character string or escape character in the `SIMILAR` predicate
- The right-hand value of the `IN` predicate

aa...aa: Column that was specified incorrectly

bbb: Number of the query incorrectly specifying the column

S: Ignores this SQL statement (unless it is a definition SQL statement, in which case rollback is executed).

P:

Correct the SQL statement and re-execute.

If the same column name as the SQL variable or SQL parameter exists in the SQL statements table, qualify the SQL variable or SQL parameter with a statement label and procedure name.

KFPA11238-E A

Invalid parameter mode of argument in call statement for SQL parameter definition of procedure

The argument specification (`IN`, `OUT`, `INOUT`) specified in the `CALL` statement does not match the SQL parameter specification (`IN`, `OUT`, `INOUT`) of the procedure to be called.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11240-E A

Duplicate statement label or loop variable "*aa...aa*" appeared in the scope of statement label or loop variable

The same statement label or loop variable is specified more than once in statement labels or loop variables contained in a compound statement or in a `WHILE` or `FOR` statement.

aa...aa: Statement label name or loop variable name

S: Ignores this SQL statement and executes rollback.

P: Correct the SQL statement and re-execute.

KFPA11241-E A

Invalid table specification, as qualiifier, authorization identifier *aa...aa*, table identifier or correlation name or query name "*bb...bb*", query-no=*ccc*

The specified column name or table specification that qualifies * or ROW is not the valid name specified in the SQL statement.

The invalid qualifier is *aa...aa.bb...bb* or "*bb...bb*".

aa...aa: Authorization identifier specified in the table specification

bb...bb: Table identifier, correlation name, or query name

ccc: Number of the innermost query specifying the invalid qualifier

S: Ignores this SQL statement (unless it is a definition SQL statement, in which case rollback is executed).

P: Correct the SQL statement and re-execute.

KFPA11242-E A

Column "*aa...aa*" not found in any tables or query names, query-no=*bbb*

Column "*aa...aa*" cannot be found in any SQL statement, table with a query specification, or query name.

aa...aa: Name of the column that is not in the SQL statement, query specification table, or query name

bbb: Number of the query specifying a column name not listed in the table

S: Ignores this SQL statement (unless it is a definition SQL statement, in which case rollback is executed).

P: Correct the SQL statement and re-execute.

KFPA11243-E A

Table *aa...aa."**bb...bb*" with multi-value column in joined table

The following tables cannot be specified in a joined table:

- Tables containing a repetition column
- Tables derived from a table containing a repetition column

aa...aa: Authorization identifier for a table containing a repetition column, or for a table derived from a table containing a repetition column

bb...bb: Table identifier for a table containing a repetition column, or for a table derived from a table containing a repetition column

S: Ignores this SQL statement (unless it is a definition SQL statement, in which case rollback is executed).

P: Correct the SQL statement and re-execute.

KFPA11245-E A

Invalid part "*aa...aa*" in EXTERNAL NAME

One of the following errors was found in the external routine name:

- An extraneous character string was detected at the end.
- A letter or keyword that is syntactically invalid was detected.
- A JAR file name or class name does not begin with an alphabetic character.
- A JAR file name exceeds 255 bytes.
- A class name, including the package name, exceeds 255 bytes.
- A method name exceeds 255 bytes.

aa...aa: Area with an invalid external routine name. If a character that is syntactically invalid was detected, that character and its hexadecimal representation will be shown in parentheses.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11246-E A

Incomplete EXTERNAL NAME

The external routine name is incomplete.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11247-E A

Invalid Java method argument "*aa...aa*" in EXTERNAL NAME

One of the following errors was found in the JavaTM method argument of the external routine name:

- Another data type was specified following the `java.sql.ResultSet` type.
- The `java.sql.ResultSet` type was not specified as an array.
- A multi-dimensional array was specified for the `java.sql.ResultSet` type.
- The `byte` type was not specified for an array.

- A multi-dimensional array was specified for the `byte` type.
- A multi-dimensional array was specified for a data type that is not the `byte` type.
- The `java.sql.ResultSet` type was specified in `CREATE FUNCTION`.

aa...aa: Argument of the Java method containing the error

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11248-E A

Invalid Java method return data type "*aa...aa*" in `EXTERNAL NAME`

One of the following errors was found in the Java method return portion of the external routine name:

- The `java.sql.ResultSet` type was specified.
- An array was specified for a data type that is not the `byte` type.
- The `byte` type was not specified for an array
- A multi-dimensional array was specified for the `byte` type.

aa...aa: Java method return portion containing the error

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11249-E A

Invalid specification of `style` in `PARAMETER STYLE`

One of the following errors was detected in the parameter style:

- `JAVA` was specified for the `LANGUAGE` clause, but a parameter style other than `JAVA` was specified for the `PARAMETER STYLE` clause.
- `SQL` was specified for the `LANGUAGE` clause, but a parameter style other than `SQL` was specified for the `PARAMETER STYLE` clause.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11250-E A

Invalid number of `DYNAMIC RESULT SETS`

One of the following errors has occurred:

- The number of result sets specified in the `DYNAMIC RESULT SETS` clause was a negative value or exceeded the maximum value.
- The number of result sets specified in the `DYNAMIC RESULT SETS` clause was smaller than the number of result sets specified in the Java signature with external

routine specification.

- A cursor that specifies `WITH RETURN` was declared in an SQL procedure, and 0 was specified in the `DYNAMIC RESULT SETS` clause, or the `DYNAMIC RESULT SETS` clause was not specified.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11251-E A

Invalid item specification, authorization identifier *aa...aa*, statement label or routine identifier or loop variable "*bb...bb*", query-no=*ccc*

The qualifier specification for the SQL parameter or an SQL variable is invalid in SQL statements, or a column is specified in an incorrect location.

The invalid qualifier is *aa...aa.bb...bb* or "*bb...bb*".

aa...aa: The authorization identifier specified in the item specification

bb...bb: Statement label name, routine name, loop variable name, or table identifier

ccc: Number of the innermost query specifying an invalid qualifier

S: Ignores this SQL statement (unless it is a definition SQL statement, in which case rollback is executed).

P: Correct the SQL statement and re-execute.

KFPA11252-E A

SQL variable or SQL parameter "*aa...aa*" not found in any statement label or routines, query-no=*bbb*

Either the SQL variable or the SQL parameter "*aa...aa*" is not declared in the routine, or a column name is specified in an incorrect location.

aa...aa: The SQL variable, SQL parameter, or column name that is not in the routine

bbb: Number of the innermost query specifying an SQL variable, SQL parameter, or column name not found in the routine

S: Ignores this SQL statement (unless it is a definition SQL statement, in which case rollback is executed).

P: Correct the SQL statement and re-execute.

KFPA11254-E A

Invalid specification *aa...aa*-th argument in `CALL` statement, reason=parameter mode "*bb...bb*"

One of the following errors was found in the *aa...aa*th argument of the `CALL` statement.

- The argument is a value expression, but a parameter mode other than `IN` was

specified.

- The argument is a value expression, but the call procedure was a parameter mode other than IN.

aa....aa: Argument number containing the error

bb....bb: Parameter mode of the CALL statement argument, or parameter mode of the calling procedure

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11255-E A

SQL variable "*aa....aa*" not found in statement label or loop variable "*bb....bb*"

SQL variable "*aa....aa*" is not in statement label or loop variable "*bb....bb*".

aa....aa: SQL variable that does not exist

bb....bb: Statement label name or loop variable name

S: Ignores this SQL statement (unless it is a definition SQL statement, in which case rollback is executed).

P: Correct the SQL statement and re-execute.

KFPA11256-E A

SQL parameter "*aa....aa*" not found in routine *bb....bb*."*cc....cc*"

SQL parameter "*aa....aa*" is not in routine *bb....bb*."*cc....cc*".

aa....aa: SQL parameter that does not exist

bb....bb: Authorization identifier

cc....cc: Routine name

S: Ignores this SQL statement (unless it is a definition SQL statement, in which case rollback is executed).

P: Correct the SQL statement and re-execute.

KFPA11259-E A

Unable to specify invocation of *aa....aa* "*bb....bb*."*cc....cc*" in definition of *dd....dd* with same name

You cannot specify the routine "*bb....bb*."*cc....cc*" whose authorization identifier, routine identifier, or the number of arguments matches the function or procedure being defined in a routine definition.

aa....aa:
 { function |procedure }

bb...bb: Authorization identifier

cc...cc: Routine identifier

dd...dd:

{ function | procedure }

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11260-E A

Attribute "*aa...aa*" not defined in abstract data *bb...bb* "*cc...cc*"

"*aa...aa*" is not defined as an attribute of "*cc...cc*", which is a column of the abstract data type, an SQL variable, an SQL parameter, or an attribute.

aa...aa: Name of the undefined attribute

bb...bb:

{ column, SQL variable or SQL parameter | attribute }

cc...cc: Name of the column, SQL variable, SQL parameter, or attribute for which "*aa...aa*" is specified as an attribute

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11262-E A

aa...aa "*bb...bb*" not defined as abstract data

The column *bb...bb*, the SQL variable, the SQL parameter, or the attribute that is a qualifier in a component specification is not defined as an abstract data type.

aa...aa:

{ column, SQL variable or SQL parameter | attribute }

bb...bb: Name of the column, SQL variable, SQL parameter, or attribute

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11263-E A

Unable to access attribute "*aa...aa*" because of encapsulation level *bb...bb*

When *bb...bb* is PRIVATE:

Because the encapsulation level for the attribute "*aa...aa*" is PRIVATE, this attribute can be accessed only in the CREATE TYPE statement that defines it.

When *bb...bb* is PROTECTED:

Because the encapsulation level for the attribute "*aa...aa*" is `PROTECTED`, this attribute can be accessed only in the `CREATE TYPE` statement that defines it, or in a subtype `CREATE TYPE` statement.

aa...aa: Name of the attribute

bb...bb: Encapsulation level
 { `PRIVATE` | `PROTECTED` }

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11266-E A

Unable to specify component specification in argument of set function

Component specifications cannot be specified in an argument in a set function.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11267-E A

Unable to specify component specification in "SELECT" clause in INSERT statement

Component specifications cannot be specified in the `SELECT` clause of an `INSERT` statement (except for a `SELECT` clause in a subquery).

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11273-E A

Invalid use of `WRITE` specification

One of the following errors was found in the usage of the `WRITE` specification:

- Duplicate locking cannot be specified for a query in which a `WRITE` specification is specified.
- A `WRITE` specification cannot be used as a sort key.
- When a `BLOB` column is specified for the output `BLOB` value of a `WRITE` specification, the same column cannot be specified by itself in the selection expression or in the output `BLOB` value of another `WRITE` specification.
- When the output `BLOB` value of a `WRITE` specification is not a column, `FOR READ ONLY` cannot be specified for the query.
- A `WRITE` specification cannot be specified in a routine.
- A set operation cannot be specified for a query in which a `WRITE` specification is specified.

2. Messages

- A `WRITE` specification cannot be specified in the selection expression of a query specification of an `INSERT` statement.
- A `WRITE` specification cannot be specified in the selection expression of a subquery (including the derived table of a `FROM` clause).

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11274-E A

Invalid use of `GET_JAVA_STORED_ROUTINE_SOURCE` specification

One of the following errors was detected in the use of a `GET_JAVA_STORED_ROUTINE_SOURCE` specification:

- Duplicate locking cannot be specified in a query in which a `GET_JAVA_STORED_ROUTINE_SOURCE` specification is specified.
- A `GET_JAVA_STORED_ROUTINE_SOURCE` specification cannot be specified as a sort key.
- When a `GET_JAVA_STORED_ROUTINE_SOURCE` specification is specified, `FOR READ ONLY` cannot be specified in the query.
- A set operation cannot be specified for a query in which a `GET_JAVA_STORED_ROUTINE_SOURCE` specification is specified.
- A `GET_JAVA_STORED_ROUTINE_SOURCE` specification cannot be specified for the selection expression of a query specification of an `INSERT` statement.
- A `GET_JAVA_STORED_ROUTINE_SOURCE` specification cannot be specified for a selection expression inside a subquery (including the derived table of a `FROM` clause).

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11276-E A

Unable to specify outer reference column of abstract data type

An abstract data type column that makes an external reference cannot be specified.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11277-E A

Unable to specify outer reference column of `BLOB` data type in argument of function invocation

`BLOB` columns that make an external reference cannot be specified in an argument for a user-defined function.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11280-E A

PLUGIN not installed for abstract data type "*aa....aa*". "*bb....bb*"

A plug-in for the abstract data type "*aa....aa*". "*bb....bb*" is not installed.

aa....aa: Authorization identifier

bb....bb: Name of the abstract data type

S: Ignores this SQL statement.

P: Ask the HiRDB administrator to install the required plug-in.

Action

Install the required plug-in.

KFPA11281-E A

PLUGIN "*aa....aa*" not installed

The plug-in "*aa....aa*" is not installed.

aa....aa: Name of the plug-in

S: Ignores this SQL statement.

P: Ask the HiRDB administrator to install the required plug-in.

Action

Install the required plug-in.

KFPA11282-E A

Receiving function for inter-function value passing can be specified only in "SELECT" or "SET" clause

The receiving function for inter-function value passing can be specified only in an update value in the SELECT or SET clause (it cannot be specified in a routine control statement).

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11283-E A

Sending function for inter-function value passing can be specified only in "WHERE" clause or "ON" condition in query specification without view or "WITH" clause

The sending function for inter-function value passing can be specified only in a WHERE clause or an ON search condition (it cannot be specified in the routine control statement). However, if you specify the sending function for inter-function value

passing in the ON search conditions of a joined table specifying an outer join, you cannot specify a column of the outer table in the first argument.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11284-E A

Sending function for inter-function value passing cannot be specified in "OR" condition

The sending function for inter-function value passing can be specified in the OR condition only when the index can be used (when specified following a NOT condition, an OR condition is converted into an AND condition and an AND condition is converted into an OR condition).

The index can be used when all of the following conditions are met:

1. A plug-in index is defined in the first argument of the sending function for inter-function value passing.
2. The first argument of the sending function for inter-function value passing is a column specification in a base table that does not make an external reference.
3. Arguments including the following expressions are not specified in arguments other than the first argument of the sending function for inter-function value passing:
 - Column specifications other than those that make an external reference
 - Component specification in a column
4. A predicate including IS FALSE, IS UNKNOWN, or NOT was not specified in the sending function for inter-function value passing.
5. No sending function for inter-function value passing was specified in CAST.
6. When the FROM clause specifies more than one table, the table column that differs from the first argument of the sending function for inter-function value passing was not specified in the search conditions of the OR operand.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11285-E A

Function for inter-function value passing cannot be specified in "CASE" expression or scalar function "VALUE"

The receiving or sending function for inter-function value passing cannot be specified in a CASE expression or the scalar function VALUE.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11286-E A

Receiving function for inter-function value passing without sending function

The receiving function for inter-function value passing cannot be specified unless there is a corresponding sending function for inter-function value passing in the same query specification. For details about the corresponding send function for passing inter-function values, see the plug-in manual. If a table is being searched via a list, the cause is that the receive function for passing inter-function values does not correspond to the inter-function values collected from the list.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute. For a table search via a list, the plug-in version is old, which may cause the receive function for passing inter-function values not to correspond to the inter-function values collected from the list. In this case, contact the HiRDB administrator.

Action

For a table search via a list, obtain the plug-in version, and refer to the manual that corresponds to that version. Check that the receive function for passing inter-function values corresponds to the inter-function values collected from the list, and upgrade the plug-in version if necessary.

KFPA11287-E A

Invalid specification of first argument in receiving function for inter-function value passing

The first argument in the receiving function for inter-function value passing is invalid. The first argument must satisfy the following conditions:

- Its data type must be an abstract data type.
- It must be specified in a column specification, an SQL parameter, or an SQL variable.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11288-E A

Unable to specify receiving function for inter-function value passing except in set function in query with grouping or set function

In a query specifying a GROUP BY clause, a HAVING clause, or a set function, a receiving function for inter-function value passing cannot be specified in locations other than an argument for a set function.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11289-E A

More than one sending function for inter-function value passing with same first arguments

Two or more receiving functions for inter-function value passing with identical first arguments cannot be specified.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11291-E A

No available index for ARRAY predicate

An index for the evaluation of a structured repetition predicate is missing.

S: Ignores this SQL statement.

P: Correct the SQL statement or review the index definition, and then re-execute.

KFPA11292-E A

Unable to specify ARRAY predicate in operand of boolean operator "NOT"

A structured repetition predicate cannot be negated by using the NOT operator.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11294-E A

Unable to specify ARRAY predicate with columns of *aa...aa* of outer join in *bb...bb*, query-no=*ccc*

A structured repetition predicate cannot be specified for the following columns:

- Column in an outer table in an ON search condition of a query specification that includes an outer join
- Column in an inner table in a WHERE clause of a query specification that includes an outer join

aa...aa: Table type:

inner table: Inner table

outer table: Outer table

bb...bb: Condition type:

ON condition: In an ON search condition

WHERE clause: In a WHERE clause

ccc: Query number in which the predicate is specified

S: Ignores the SQL statement and continues processing. Rollback occurs in the case of a definition SQL statement.

P: Correct the SQL statement as explained below and re-execute:

- When specifying a structured repetition predicate for a column of an outer table of a joined table in a query specification that includes an outer join, specify the predicate in a `WHERE` clause.
- When specifying a structured repetition predicate for a column of an inner table of a joined table in a query specification that includes an outer join, specify the predicate in an `ON` search condition.

KFPA11295-E A

Unable to *aa....aa* rebalancing table *bb...bb."**cc....cc**"* with unique constraint

When table *bb...bb."**cc....cc**"* is being rebalanced and an index with `UNIQUE` specified is being defined for the table, *aa....aa* cannot be executed for that table.

aa....aa:
{ `INSERT INTO` | `UPDATE` }

bb...bb: Authorization identifier

cc....cc: Table identifier

S: Ignores this SQL statement.

P: Re-execute the SQL statement after the rebalancing has finished.

KFPA11296-E A

Unable to *aa....aa* shared table without `LOCK TABLE IN EXCLUSIVE MODE`

Without executing the `LOCK` statement with the `IN EXCLUSIVE MODE` specification, the following SQL statements cannot be executed for a shared table:

- `INSERT` statement
- `UPDATE` statement accompanying index updates
- `UPDATE` statement specifying `DEFAULT` in the update value for a `TIMESTAMP` column with the `USING BES` specification defined in the `DEFAULT` clause
- `DELETE` statement

aa....aa: {`INSERT` | `UPDATE` | `DELETE`}

S: Ignores this SQL statement.

P: Execute the `LOCK` statement with the `IN EXCLUSIVE MODE` specification on the table corresponding to the `INSERT`, `UPDATE`, or `DELETE` statement, and re-execute

the SQL statement.

KFPA11299-E A

Duplicate LIST name "*aa...aa*" in ASSIGN LIST statement

List name "*aa...aa*" is already specified in the ASSIGN LIST statement. The same name cannot be specified more than once in an ASSIGN LIST statement.

aa...aa: Duplicated list name

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11301-E A

Inconvertible data type of input variable *aa...aa*

The data type of input variable *aaaaa* cannot be converted. Or, the input variable has an inconvertible structure (a simple structure or a repetition structure).

aa...aa: Sequence number of input variable

S: Ignores this SQL statement.

P: Change the input variable into a convertible data type with the correct structure, and then re-execute.

KFPA11302-E A

Input data too large for column or assignment target *aa...aa*

One of the following errors was detected:

- The input data is outside the range of values permitted for the data type of the column.
- The number of elements in the input data is greater than the maximum number of elements for a repetition column.
- In a call-out of a user-defined function or system-defined scalar function, the input arguments exceed the range of values permitted for the data type of the parameter.
- The argument of the input variable for the scalar function VALUE exceeds the range of values permitted for the data type.

aa...aa: One of the following characters:

- Sequential number of the `in variable` variable
When independently specifying an input variable or when independently specifying an input variable in an argument for the scalar function VALUE
- One-byte space
In all other cases

S: Ignores this SQL statement.

P: If the input data is invalid, correct it and re-execute.

KFPA11303-E A

Inconvertible data type of output variable *aaaaa*

The data type of output variable *aaaaa* cannot be converted. Or, the input variable has an inconvertible structure (a simple structure or a repetition structure).

aaaaa: Sequence number of the output variable

S: Ignores this SQL statement.

P: Change the output variable into a convertible data type with the correct structure, and then re-execute.

KFPA11304-E A

Output data too large for variable *aa....aa*

The data length to be output exceeds the value permitted for the variable attribute.

aa....aa: Sequential number of the invalid output variable

S: Ignores this SQL statement.

P: Change the attribute of the variable and re-execute.

KFPA11305-E A

Indicator must be specified for null value in variable *aa....aa*

Because no indicator variable was specified, null-value output data cannot be returned.

aa....aa: Sequential number of the invalid output variable

S: Terminates processing.

P: Specify an indicator variable and re-execute the UAP.

KFPA11306-E A

Invalid data *aa....aa* variable *bbbb*

An error was detected in the following data (the data's length may be an odd number of bytes):

- Data in the *bbbb*th input variable, or data to be set in the *bbbb*th output variable
- Data to be set in the *bbbb*th SQL parameter whose parameter mode is OUT or INOUT
- Data to be returned as a return value of a function

aa....aa: Variable type:

{ in input | to output }

bbbb: One of the following:

2. Messages

- Serial number of an input variable or output variable
- Serial number of an SQL parameter whose parameter mode is OUT or INOUT.
***** is displayed for the return value of a function.

S: Ignores this SQL statement.

P: Correct the data and re-execute the SQL.

KFPA11307-E A

No RDAREA for specified divided Key VALUES

The RDAREA for storing the specified values was not specified in the table definition.

S: Ignores this SQL statement.

P: Modify the specification so that the specified values satisfy the storage condition.
Or, re-evaluate the specified storage condition.

KFPA11308-E A

Unexpected request, SQLNAME or TYPE option necessary in PREPARE

The DESCRIBE statement or the DESCRIBE TYPE statement cannot be executed for the following reasons:

1. In the PREPARE statement, the receipt (Column Name Descriptor Area (SQLCNDA)) of either a column name or an attribute name is specified in either the DESCRIBE or DESCRIBE TYPE statement without the specification of the WITH SQLNAME OPTION.
2. In the PREPARE statement, the receipt (Type Name Descriptor Area (SQLTNDA)) of a data type name of a user-defined type is specified in the DESCRIBE statement without the specification of the WITH TYPE OPTION.
3. In the PREPARE statement, the DESCRIBE TYPE statement is specified without the specification of the WITH ALL TYPE OPTION.

S: Ignores this SQL statement.

P:

1. In the PREPARE statement, specify the WITH SQLNAME OPTION and re-execute. Or, re-execute without specifying the Column Name Descriptor Area (SQLCNDA) in either the DESCRIBE or DESCRIBE TYPE statement.
2. In the PREPARE statement, specify the WITH TYPE OPTION and re-execute. Or, re-execute without specifying the Type Name Descriptor Area (SQLTNDA) in either the DESCRIBE or DESCRIBE TYPE statement.
3. In the PREPARE statement, specify the WITH ALL TYPE OPTION and re-execute. Or, re-execute without specifying the Type Name Descriptor Area in the DESCRIBE TYPE statement.

KFPA11310-E A

Invalid number of variables

The value of either SQLN or SQLD specified in the SQL descriptor area is invalid.

S: Ignores this SQL statement.

P: Correct the value specified for either SQLN or SQLD to satisfy the conditions $0 \leq \text{SQLD} \leq 30000$ and $\text{SQLD} \leq \text{SQLN} \leq 30000$ and re-execute.

KFPA11311-E A

Invalid data type or length of variable *aa....aa*

Embedded variable *aa....aa* or parameter variable declaration is invalid. Or, the maximum number of elements, the data type, or the length of the *aa....aa*th variable specified in the SQL descriptor area is invalid.

aa....aa: Sequence number of variable

S: Ignores this SQL statement.

P: Correct the embedded variable or parameter variable declaration and re-execute. Or, correct the maximum number of elements, the data type, or the length of the *aa....aa* variable specified in the SQL descriptor area and re-execute. When using UTF-8 as the character code, specify all data types other than national character data in the embedded variables and re-execute.

KFPA11312-E A

Sum of *aa....aa* variable length exceeds 2GB

The total length of variable *aa....aa* exceeds 2 GB.

aa....aa: Variable resulting in the error:

INPUT: Input variable

OUTPUT: Output variable

S: Ignores this SQL statement.

P: Correct the specification in the SQL Data Area and re-execute.

KFPA11313-E A

Number of variables not equal to number of parameters

The number of embedded variables or parameters in the DECLARE CURSOR statement is not the same as the number of embedded variables specified in the OPEN statement or the number of parameters specified in the OPEN statement procedure (SQL Data Area). Or, the number of ? parameters in the SQL statement is not the same as the number specified for SQLD in the SQL Data Area.

S: Ignores this SQL statement.

P: Correct the SQL Data Area or the SQL statement so that the numbers of embedded

variables or parameters are the same, then re-execute. Or, correct the value specified in the SQL Data Area and re-execute.

KFPA11314-E A

Invalid data type name specified in DESCRIBE TYPE

A data type name (owner name and data type identifier) not associated with the SQL statement preprocessed by the PREPARE statement was specified in the DESCRIBE TYPE statement. Only data type names of the user-defined type can be specified in selection item in the SQL statement preprocessed by the PREPARE statement.

S: Ignores this SQL statement.

P: Correct the specified data type name specification and re-execute.

KFPA11315-E A

Unable to use multi value columns on this client library or application

An attempt was made to reference or update a repetition column by using a version of a client library that does not support repetition columns.

S: Continues processing.

P: When not using a repetition column, revise the UAP so that the value 1 is explicitly assigned to the SQLXDIM of the SQL descriptor area. When using a repetition column, use a version of a client library that supports repetition columns, and then re-execute the preprocessing and execution steps.

KFPA11316-E R+A

Invalid number of elements of array variable

The size specified for an array is 0, a negative value, or is greater than the maximum value.

S: Ignores this SQL statement.

P: Correct the program so that the dynamic size value specified in the FETCH or INSERT statement that uses the array is a value less than the maximum value, and re-execute.

KFPA11326-E A

Length, precision, or number of elements of input variable "aa....aa" conflicts with SQLDA

The data in input variable "aa....aa" contradicts the specification in an embedded variable, parameter variable declaration, or SQL Data Area:

- If the input variable is variable-length data, its length either exceeds the maximum value or is 0 or less.
- If the input variable is decimal data, either the data format is invalid or the precision is invalid.

- If the input variable is a repetition column, either the number of elements is greater than the maximum allowable number or is less than or equal to 0.

aa....aa: Sequence number of input variable

S: Ignores this SQL statement.

P: Correct the input data, variable declaration, or specification in the SQL Data Area and re-execute.

KFPA11329-E A

Invalid SQL for query in "*aa....aa*"

One of the following errors has occurred:

- An SQL statement using the cursor is invalid for the query specified in the cursor declaration.
- For a query specified by a cursor allocation, an SQL statement using the cursor is incorrect.
- A query specifying a table can be executed only by the UPDATE or DELETE statement for the table.

aa....aa: {DECLARE CURSOR|ALLOCATE CURSOR}

S: Ignores this SQL statement.

P: Correct the SQL statement, recompile the module, then execute it.

KFPA11330-E A

CURSOR not opened or not positioned on any ROW

One of the following errors was detected:

- The cursor has not been opened.
- Row retrieval was not executed.

The row cannot be updated or deleted using the cursor.

S: Ignores this SQL statement.

P: Define the cursor, open it, modify the UAP so that the row can be updated or deleted, then re-execute.

KFPA11331-E A

Specified table different from that in cursor specification

The table specified in the cursor specification is not the same as the table specified in this SQL statement. Therefore, the UPDATE or DELETE statement cannot be executed using the cursor.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11332-E A

Fetch of all ROWs completed, or an error occurred during fetch

Because row fetch was completed or an error occurred during row fetch processing, the cursor specified in the UPDATE or DELETE statement cannot be executed.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11340-E A

Invalid address for variable *aaaaa* in SQLDATA or SQLIND

The value specified in SQLDATA or SQLIND in the SQL Data Area is invalid or has not been set.

aaaaa: Sequence number of variable

S: Ignores this SQL statement.

P: Set the variable correctly and re-execute.

KFPA11342-E A

Insufficient data area in client, *size=aa....aa*

Retrieval result cannot be transferred to the client, because the output buffer is too small.

aa....aa: Length (in bytes) of the data area requested by the client (the size of the data area includes the length of the SQL Data Area)

S: Ignores this SQL statement.

P:

1. Check the type of embedded variable for receiving the retrieval result as to whether it correctly corresponds to the data type of the column.
2. If the SQL Data Area is used directly, check if the value of SQLLEN is set correctly according to the data type of the corresponding column.
3. If an indicator variable is used, check if the length of the receive area is correct.
4. If a Column Name Descriptor Area (SQLCNDA) or a Type Name Descriptor Area (SQLTNDA) is used, check to verify the length of the receive area is correct.

KFPA11343-E A

Invalid condition number in "GET DIAGNOSTICS" statement

The following values cannot be specified as a condition number:

- Value smaller than zero

- Value greater than the number of errors in the diagnostic area

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11351-E A

Unable to specify column or value expression for update value of ADD clause in UPDATE statement with cursor

The following items cannot be specified as an update value in the ADD clause of the UPDATE statement using a cursor:

- Columns
- Scalar operations
- Component specifications
- Function invocations

S: Ignores this SQL statement (unless it is a definition SQL statement, in which case rollback is executed).

P: Correct the SQL statement and re-execute.

KFPA11355-E A

Unable to FETCH from LIST using arrays

A FETCH that uses an array cannot be used for a search via a list.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11356-E A

File "*aa....aa*" *bb...bb* error occurred in processing for WRITE specification, code=*cc....cc*

An error occurred during a file operation for the processing of a WRITE specification.

aa....aa: Name of the file in which the error occurred:

If the file name consists of no more than 126 bytes, the entire file name is displayed; if it exceeds 126 bytes, the excess is truncated, and 2 bytes of periods (..) are displayed following the first 126 bytes.

bb...bb: Operation in which the error occurred:

OPEN: Error occurred in open system call in BLOB data file

CLOSE: Error occurred in close system call in BLOB data file

WRITE: Error occurred in write system call in BLOB data file

cc....cc: Detail code for system-related error

See 4.2 *Detail codes for system-related errors.*

S: Ignores this SQL statement.

P: Remove the error cause and re-execute the SQL statement.

KFPA11358-E A

RDAREA *aa...aa* freezed

RDAREA *aa...aa* is in frozen update status.

aa...aa: Name of the RDAREA

S: Ignores this SQL statement.

Action

To handle a frozen area:

1. Check to be sure your work flow did not incorrectly issue a request to update an RDAREA in frozen update status.
2. Use the `pddbfrz -d` command to release the frozen update status of the RDAREA, and re-execute. In such cases, perform maintenance on the RDAREA, and then back up the entire RDAREA.

KFPA11359-E A

Unable to delete row in delete prohibition period

The process cannot delete a row in the falsification prevented table during the deletion prevented period.

S:

- Deleting using the cursor:
The process continues without deleting the row indicated by the cursor.
- In all other cases:
The process ignores this SQL statement and rolls back.

P: Correct the deletion conditions and re-execute.

KFPA11360-E A

Invalid format specification in scalar function "*aa...aa*",
pos=bbb, *query-no=ccc*, *format="dd...dd"*

The format specified by the scalar function "*aa...aa*" is invalid.

aa...aa: Name of the scalar function that specified the invalid format:
{ VARCHAR_FORMAT | DATE | TIME | TIMESTAMP_FORMAT }

bbb: Location where the error was detected (byte *bbb*)

ccc: Query number

dd...dd: Invalid format:

"*dd...dd*" displays a pound sign (#) at byte 100 when the format exceeds 100 bytes.

S: Ignores this SQL statement (unless it is a definition SQL statement, in which case rollback is executed).

P: Check the available format elements, correct the format, and re-execute.

KFPA11361-E A

Character representation unmatched specified format in scalar function "*aa...aa*", *pos=bbb*, *query-no=ccc*, *format="dd...dd"*

The character string representation in scalar function "*aa...aa*" does not match the specified format.

aa...aa: Scalar function specifying a value expression that does not match the format {DATE | TIME | TIMESTAMP_FORMAT}

bbb: Location of character string representation that does not match the specified format (byte *bbb* of the format)

ccc: Query number

dd...dd:

Specified format:

"*dd...dd*" displays a pound sign (#) at byte 100 when the format exceeds 100 bytes. Also, when the query specifies a value expression not using a literal and specifies the format using a literal, the following character strings indicate format elements other than the character strings and the delimiting characters:

Year: *YYYY*

Month: *MM*

Abbreviations for month: *MON, Mon, mon**

Name of a month: *MONTH, Month, month**

Day: *DD*

Hour: *HH*

Minute: *MI*

Second: *SS*

Fractional second: *NN...N* (the specified number of digits)

* Follows the upper case or lower case convention described in the format (in the first or second character).

S: Ignores this SQL statement (unless it is a definition SQL statement, in which case rollback is executed).

P: Either make the specified format and the character string match or correct the format and re-execute.

KFPA11362-E A

No format element *aa...aa* in format specification in scalar function "*bb...bb*", query-no=*ccc*

The format specified by scalar function "*bb...bb*" does not contain the required format element *aa...aa*.

aa...aa: The missing format element:

{DD|HH|MI|MM, MON or MONTH|SS|YYYY}

bb...bb: Scalar function:

{DATE|TIME|TIMESTAMP_FORMAT}

ccc: Query number

S: Ignores this SQL statement (unless it is a definition SQL statement, in which case rollback is executed).

P: Check the correlation between the scalar function and the required format elements, add the required format elements, and re-execute.

KFPA11364-E A

Invalid LOCATOR specified, pos=*aaaaa*

An invalid locator was specified.

aaaaa: Sequence number of the embedded variable or ? parameter

S: Performs one of the following processing functions:

- For the FREE LOCATOR statement
Invalidates all valid locators.
- For all else
Ignores this SQL statement.

P: Correct the SQL statement to specify a valid locator, and re-execute.

KFPA11366-E A

Indicator must be specified for null value assigned to LOCATOR in variable *aa...aa*

The data value assigned to the locator is a null value, and there is no indicator variable.

aa...aa: Sequence number of the embedded variable or ? parameter

S: Ignores this SQL statement.

P: Specify an indicator variable in the locator, and re-execute the UAP.

KFPA11367-E A

Unable to update non null valued column with "UPDATE ONLY FROM NULL"

Because the value stored in the column with UPDATE ONLY FROM NULL specified is not a null value, this column cannot be updated.

S: Ignores this SQL statement.

P: Correct the UAP so that it does not update a column that contains a non-null value that is specified with UPDATE ONLY FROM NULL, and re-execute.

KFPA11369-E A

Unable to specify RDNODE name "*aa....aa*" for table specification in *bb...bb* statement

A qualification with an RD node name is found in either a procedure definition or a procedure body for a type definition.

Remote access using the distributed database function cannot be performed from a procedure.

aa....aa: Specified RD node name.

bb...bb: {CREATE PROCEDURE | CREATE TRIGGER | PROCEDURE definition in CREATE TYPE}

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11371-E A

Invalid RDNODE name *aa....aa*

The specified RD-node name is invalid.

aa....aa: RD-node name

S: Ignores this SQL statement or invalidates this transaction.

P: Revise the RD node name specified in HiRDB or the RD node name specified in the DF/UX environment definition.

KFPA11381-E A

Overflow in converting floating point numeric, type=*aa....aa*

Overflow occurred during conversion of data to floating-point data.

aa....aa: Error cause:
{ INPUT | OUTPUT }

S: Ignores this SQL statement.

P: Change the data type so that overflow does not occur.

KFPA11382-E A

Invalid use of "CURRENT OF" clause

CURRENT OF *cursor-name* or extended cursor name was specified during batch retrieval.

S: Ignores this SQL statement.

P: Correct the SQL statement so that CURRENT OF *cursor-name* or an extended cursor name is not specified. Or, correct the environment definition so that batch retrieval is not executed.

KFPA11383-E A

Failure occurred in remote access, reason code=*aa*, process ID=*bb...bb*, connection ID=*cc...cc*, RMID=*dd...dd*

An error occurred during remote access processing.

aa: Reason code

bb...bb: Process ID of the single server or front-end server.

cc...cc: Connection ID between HiRDB and DF/UX. If the connection ID cannot be displayed, the asterisk (*) is displayed instead.

dd...dd: RMID to be passed from HiRDB to DF/UX. If the RMID cannot be displayed, the asterisk (*) is displayed instead.

S: Ignores this SQL statement.

Action

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

Reason code	Explanation	Action
1	DF/UX has not been started or has terminated abnormally.	If DF/UX has not been started, start DF/UX and re-execute the UAP. If DF/UX has terminated abnormally, refer to the message that was output by DF/UX to check the cause of the abnormal termination. See the <i>Distributed Database System DF/UX</i> for details. Contact a customer engineer, if necessary.
2	Maximum number of DF/UX users was exceeded.	Reduce the number of concurrent users. Or, change the maximum number of DF/UX users. See the <i>Distributed Database System DF/UX</i> for details.

Reason code	Explanation	Action
3	Timeout was detected by DF/UX.	Re-execute the UAP. Or, change the DF/UX abort time. See the <i>Distributed Database System DF/UX</i> for details.
4	Communication error was detected by DF/UX.	Refer to the message that was output by DF/UX to determine the cause of the communication error, eliminate the cause, and re-execute the UAP. See the <i>Distributed Database System DF/UX</i> for details. Contact a customer engineer, if necessary.
5	DF/UX version is invalid.	Check the DF/UX version. If it is not the correct version, replace it with the correct version.
31	NOUSE is set in the <code>dfux_extension_func</code> clause of the DF/UX environment definition, or the DF/UX Extension has not been installed.	Install DF/UX Extension and set USE in the <code>dfux_extension_func</code> clause of the DF/UX environment definition.

KFPA11384-E A

Invalid response from server system in remote access, reason code=*aa*

Invalid response from the server was detected during remote access.

aa: Reason code

S: Ignores this SQL statement.

Action

Contact a customer engineer.

Reason code	Explanation
01	Data type of response information is invalid.
02	Error type of error response information is invalid.
03	A value other than 1 was returned as the SQL DBL RESULT VALUES count in an SQL statement other than the FETCH statement.

KFPA11388-E A

DF/UX error detected in remote access, process ID=*aa....aa*, connection ID=*bb....bb*, RMID=*cc....cc*, *dd....dd*

An error occurred in DF/UX during remote access processing.

2. Messages

aa...aa: Process ID of the single server or front-end server

bb...bb: Connection ID between HiRDB and DF/UX. If the connection ID cannot be displayed, the asterisk (*) is displayed instead.

cc...cc: RMID to be passed from HiRDB to DF/UX. If the RMID cannot be displayed, the asterisk (*) is displayed instead.

dd...dd: Maintenance information

S: Ignores this SQL statement.

Action

If a DF/UX message is output, refer to that message to determine the cause of the error. If the error cannot be identified, contact a customer engineer.

KFPA11390-E A

Permanent error occurred in remote access

An error occurred during remote access processing and remote access became disabled.

S: Ignores this SQL statement.

Action

Refer to the HiRDB message that was output before this message or the message that was output by DF/UX to eliminate the cause of the error, then re-execute the UAP. For information on DF/UX messages, see the *Distributed Database System DF/UX*.

KFPA11395-E A

Unable to execute SQL for foreign server *aa...aa* (*b*), reason=*cc...cc*

The SQL to the external server cannot be executed for reason *cc...cc*.

aa...aa: External server name

b: Server type

P: HiRDB

R: XDM/RD E2

O: ORACLE

I: DB2

cc...cc: Reason:

COMMUNICATION ERROR: Communication error

TIME OVER: Time-out

MEMORY EXCEEDS THE LIMIT: Memory limit exceeded

S: Terminates the process. Aborts SQL execution if this message is output.

P: Solve the problem according to the reason code.

MEMORY EXCEEDS THE LIMIT:

Reduce the sum of the column lengths to be searched in the external table or the value of the `pd_hb_ary_fec_num` operand (the number of array `FETCH` statements issued to the foreign server) in the foreign server information definition. Re-execute SQL. For details about the amount of memory required when SQL code is being executed on a foreign table, see the *HiRDB Version 8 Installation and Design Guide*.

In all other cases:

Check the error information for the previous SQL executed on the target foreign server and resolve the error.

KFPA11396-E A

Unable to access foreign server because External Data Access is reduced mode

The external server cannot be accessed because the HiRDB External Data Access facility is unavailable.

S: Terminates the process.

Action

Refer to the KFPW05039-E message that was output when the dictionary server was started to eliminate the cause of the error. If the KFPW05039-E message was not output, normally terminate HiRDB, and then start it normally. Contact a customer engineer if this error message is output again and the KFPW05039-E message is not.

KFPA11401-E A

Inconvertible data type in "*aa....aa*" predicate, query-no=*bbb*

The data types specified in the operands on both sides of predicate "*aa....aa*" are not valid for comparison or conversion.

aa....aa: Predicate specifying the invalid data types:

{ COMPARISON | IN | LIKE | BETWEEN | XLIKE | SIMILAR }

bbb: Number of the query specifying the predicate

S: Ignores this SQL statement.

P: Correct the predicate and re-execute.

KFPA11402-E A

Argument of "AVG" or "SUM" must be numeric, query-no=*aaa*

The argument of a set function (AVG or SUM) is not numeric data.

aaa: Number of the query specifying a set function

S: Ignores this SQL statement.

P: Correct the set function and re-execute.

KFPA11403-E A

Unable to specify "*aa...aa*". "*bb...bb*" in SET function "*cc...cc*",
query-no=*ddd*

If arguments of a set function specify values other than columns, they must not include rows that make an external reference.

aa...aa: Table identifier or correlation name

bb...bb: Name of column that makes an external reference

cc...cc: Name of the set function

ddd: Query number

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11404-E A

Input data too long for column or assignment target *aa...aa*

One of the following errors was detected:

- A column of the input data is longer than the defined column.
- The assignment value data in the SET statement is longer than the assignment destination.
- In a call-out of a user-defined function or system-defined scalar function, the argument is too long for the parameter.
- An argument is longer than the data in the result of the scalar function VALUE.
- The default value specified in the DEFAULT clause of the SQL variable declaration is too long for the SQL variable.
- The input data is too long for the AS data type specification.

aa...aa: One of the following characters:

- Sequential number of the `in variable` variable

When independently specifying an input variable or when independently specifying an input variable in an argument for the scalar function VALUE

- One-byte space

In all other cases

S: Ignores this SQL statement.

P: Correct the input data and re-execute.

KFPA11405-E A

Numeric literal out of range

Specified numeric literal is outside the following permitted value range:

Integer literal:

-2,147,483,648 to 2,147,483,647

Decimal literal[#]:

$\pm 10^{29}$ to $\pm (10^{30} - 1)$

Floating point numeric literal:

$\pm 4.9 \times 10^{-324}$ to $\pm 1.7 \times 10^{308}$

Integer literal specified for a labeled duration:

YEAR (S) : -9,998 to +9,998

MONTH (S) : -119,987 to +119,987

DAY (S) : -3,652,058 to +3,652,058

HOUR (S) : -23 to +23

MINUTE (S) : -1,439 to +1,439

SECOND (S) : -86,399 to +86,399

Integer literal specified as the row count in the LIMIT clause: -1 to +2,147,483,647

Integer literal specified as the offset in the LIMIT clause: 0 to +2,147,483,647

[#]: The maximum number of specifiable digits is 29 (including the number of leading zeros).

S: Ignores this SQL statement.

P: Correct the specification of the numeric literal and re-execute.

KFPA11406-E A

Arithmetic operation cannot be specified for string, binary, timestamp, abstract, or Boolean data, query-no=*aaa*

An arithmetic operation cannot be specified for character string data, national character string data, mixed character string data, large object data (BLOB), binary data (BINARY), timestamp data, abstract data, or Boolean data (BOOLEAN).

aaa: Number of the query specifying character string data, national character string

data, mixed character string data, large object data, binary data, timestamp data, abstract data, or Boolean data.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11407-E A

aa...aa predicate can be specified for string data only,
query-no=*bbb*

The LIKE, XLIKE, or SIMILAR predicate cannot be specified in any of the following data types:

- Numeric data
- Date data
- Date interval data
- Time data
- Time interval data
- Timestamp data
- Large object data
- Binary data (however, binary data with a maximum length of 32,000 bytes can be specified in a LIKE or SIMILAR predicate)

aa...aa: error-containing predicate {LIKE |XLIKE |SIMILAR}

bbb: The query number in which an invalid LIKE, XLIKE, or SIMILAR predicate is specified

S: Ignores this SQL statement.

P: Revise the LIKE, XLIKE, or SIMILAR predicate, and re-execute.

KFPA11408-E A

Inconvertible data type for update or insert value

Conversion is not applicable to the data type of the specified update or insert value.

When an insertion or update is performed on an abstract data type, the insert or update value must be the same abstract data type as the target of the insertion or update, or a subtype of the target of the insertion or update.

S: Ignores this SQL statement.

P: Correct the update or insert value and re-execute.

KFPA11410-E A

Invalid numeric literal *aa...aa*

Specified numeric literal contains a syntax error.

aa...aa: Erroneous numeric literal

S: Ignores this SQL statement.

P: Correct the numeric literal and re-execute.

KFPA11411-E A

Inconvertible data type in concatenation operation, query-no=*aaa*

The data types specified in the operands on both sides of a concatenation operation are not valid for comparison or conversion.

aaa: Number of the query specifying a nonconvertable data type in a data type of a concatenation operation

S: Ignores this SQL statement.

P: Correct the specification of the concatenation operation and re-execute.

KFPA11412-E A

Concatenation operation can be specified for string data except large object, query-no=*aaa*

The following data types cannot be specified for concatenation operations:

- Numeric data
- Date data
- Year-to-day data
- Time data
- Hour-to-second data
- Timestamp data
- Large object data (BLOB)
- Abstract data
- Logical data (BOOLEAN)

However, the concatenation operation of large object data (BLOB) cannot be specified in the update value of the UPDATE statement.

aaa: Number of the query specifying an invalid data type

S: Ignores this SQL statement.

P: Correct the specification of the concatenation operation and re-execute.

KFPA11413-E A

Invalid operation specified in date/time arithmetic operation, query-no=*aaa*

A data type not permitted for a date or time operation was used in an arithmetic operation (such as date data plus date data or year-to-day data minus integer data). Or, a monomial operation is used for date data, time data, or labeled duration.

aaa: Number of the query specifying an invalid date or time operation

S: Ignores this SQL statement.

P: Correct the specification of the arithmetic operation and re-execute.

KFPA11414-E A

Invalid use of labeled duration, query-no=*aaa*

A labeled duration can be specified only for an addition or subtraction operation on date or time data.

aaa: Query number specifying the invalid labeled duration

S: Ignores this SQL statement.

P: Correct the specification of the labeled duration and re-execute.

KFPA11415-E A

aa....aa can be specified for integer or smallint data only, query-no=*bbb*

Only INTEGER or SMALLINT data types can be specified for *aa....aa*.

aa....aa: The value expression or predicate that caused an error

{Labeled duration|Row count in "LIMIT" clause}

bbb: Query number

S: Ignores this SQL statement.

P: For a labeled duration, correct the specified value expression and re-execute. For LIMIT, correct the specified row count or offset, and re-execute.

KFPA11416-E A

Invalid character representation for data type *aa....aa*

One of the following errors was detected in the character string representation that the data type *aa....aa* indicates:

- A character other than a numeral or hyphen (-) was used in the character string representation of the date data.
- Three or more hyphens (-) were used in the character string representation of the date data or the time data.
- The character string representation of the date data or the time data does not meet one of the following conditions:

$0001 \leq \text{year} \leq 9999$

$01 \leq \text{month} \leq 12$

$01 \leq \text{day} \leq \text{last day of month}$

- A character other than a numeral or colon (:) was used in the character string representation of the timestamp data.
- Three or more colons (:) were used in the character string representation of the timestamp data.
- The character string representation of the time data or the timestamp data does not meet one of the following conditions:

$00 \leq \text{hour} \leq 23$

$00 \leq \text{minute} \leq 59$

$00 \leq \text{second} \leq 59$

- A character other than a numeral, hyphen (-), colon (:), space, or period (.) was used in the character string representation of the timestamp data.
- Two or more spaces or periods (.) were used in the character string representation of the timestamp data.
- The character string representation of the timestamp data does not meet the following condition:

$000000 \leq \text{fractional second} \leq 999999$

- A digit count other than 0, 2, 4, or 6 was specified for the fractional second precision in the character string representation of the timestamp data.
- A character other than a sign (+ or -) or a numeral was used in the character representation of the integer.
- A character other than a sign (+ or -), a decimal point (.) or a numeral was used in the decimal character representation.
- No decimal was used in the decimal character representation.
- A character other than a sign (+ or -), a numeral, E, or e was used in the floating-point character string representation.
- Neither E nor e was used in the floating-point character string representation.

aa...aa: Data in which an invalid character string representation is specified
 { TIME | DATE | TIMESTAMP | INTEGER | DECIMAL | FLOAT }

S: Ignores this SQL statement.

P: Correct the data with character string representation and re-execute.

KFPA11417-E A

Value specifications cannot be specified for both operands of compare operation or left-hand side operand in predicate "IN", query-no=*aaa*

A value (literal, USER, CURRENT_DATE, CURRENT_TIME, CURRENT_TIMESTAMP, ? parameter) cannot be specified in both operands of a comparison predicate or in the left operand of the IN predicate.

aaa: Number of the query specifying the comparison predicate or the IN predicate

S: Ignores this SQL statement.

P: Correct the specification of the comparison predicate or the IN predicate and re-execute.

KFPA11418-E A

Parameter cannot be specified in "SELECT" clause, query-no=*aaa*

The ? parameter cannot be specified in the SELECT clause.

aaa: Number of the query specifying the ? parameter

S: Ignores this SQL statement.

P: Correct the SELECT clause and re-execute.

KFPA11419-E A

Parameters cannot be specified for both operands of arithmetic operation or concatenation operation, query-no=*aaa*

The ? parameter cannot be specified in both operands of an arithmetic or concatenation operation.

aaa: Number of the query specifying the arithmetic operation or concatenation operation

S: Ignores this SQL statement.

P: Correct the specification of the arithmetic or concatenation operation and re-execute.

KFPA11420-E A

Result string of *aa...aa* too long or result type invalid, query-no=*bbb*

One of the following errors was detected:

- The character string length of the result of value expression *aa...aa* exceeded one of the following maximums:

CHAR, VARCHAR, MCHAR, or MVARCHAR: 32,000 bytes

NCHAR or NVARCHAR: 16,000 characters

BINARY: 32,000 bytes

- Because the character string length of the result of value expression *aa....aa* exceeded one of the following maximums, this result cannot be specified in the value expression of a HEX scalar function.

CHAR, VARCHAR, MCHAR, and MVARCHAR: 16,000 bytes

NCHAR and NVARCHAR: 8,000 characters

BINARY: 16,000 bytes

- The result of the value expression *aa....aa* cannot be specified in a value expression in the scalar function HEX because it is one of the following data types:

BOOLEAN

BLOB

- Because the value expression result of *aa....aa* is one of the following data types, the result cannot be specified in the value expression of a predicate or set function. However, the BOOLEAN type can be specified in a Boolean predicate.

BOOLEAN

BLOB

BINARY 32,001 bytes or larger

- Because the data type of the value expression result of *aa....aa* is BLOB or is BINARY and is 32,001 bytes or larger, the result cannot be specified in a CALL statement, function call, or system definition scalar function argument.

aa....aa: Name of operation

```
{ concatenation | scalar function "SUBSTR"
  | scalar function "HEX" | scalar function "UPPER"
  | scalar function "LOWER" | scalar function "VALUE"
  | scalar function "IS_USER_CONTAINED_IN HDS_GROUP"
  | scalar function "BIT_AND_TEST"
  | simple CASE | searched CASE | case abbreviation
  | cast specification | scalar subquery }
```

bbb: Query number specifying *aa....aa*

S: Ignores this SQL statement; executes rollback in the case of a definition SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11421-E A

Invalid operation specified for arithmetic operation or concatenation operation, query-no=*aaa*

A concatenation operation was specified in an arithmetic operation. Or, an arithmetic

operation was specified in a concatenation operation.

aaa: Number of the query specifying the invalid concatenation operation or arithmetic operation

S: Ignores this SQL statement.

P: Correct the concatenation or arithmetic operation and re-execute.

KFPA11422-E A

Variable or parameter cannot be specified for concatenation operation or date/time arithmetic operation, query-no=*aaa*

An embedded variable or ? parameter cannot be specified for the following operations:

- Concatenation operation
- Date or time operation

aaa: Number of the query specifying an embedded variable or the ? parameter

S: Ignores this SQL statement.

P: Correct the concatenation operation or time operation specifying the embedded variable or ? parameter and re-execute.

KFPA11424-E A

Invalid *aa...aa* in *bb...bb* predicate

The value expression *aa...aa* specified in the LIKE, XLIKE, or SIMILAR predicate contains an error.

aa...aa: Invalid SQL statement specification:

{ PATTERN | ESCAPE CHARACTER }

PATTERN:

If *bb...bb* is either LIKE or XLIKE, the character following the escape character in the pattern character string cannot be an underscore (`_`), percent sign (`%`), or an escape character.

If *bb...bb* is SIMILAR, the pattern character string is specified incorrectly. For a description of conditions in which pattern character strings can be invalid, see the section on the SIMILAR predicate in the manual *HiRDB Version 8 SQL Reference*.

ESCAPE CHARACTER:

The length of the escape character is not one character.

bb...bb: Predicate containing an error

{ LIKE | XLIKE | SIMILAR }

S: Ignores this SQL statement (unless it is a definition SQL statement, in which case

rollback is executed).

P: Correct the SQL statement and re-execute.

KFPA11425-E A

Invalid data type for operand *aaa* in scalar function "*bb...bb*",
query-no=*ccc*

The data type of value expression specified at *aaa* or type expression is invalid in
scalar function "*bb...bb*".

aaa: Number assigned to the invalid value expression

bb...bb: Name of the scalar function:

```
{ ABS | CHARACTER | DATE | DAY | DAYS | DECIMAL
  | DIGITS | FLOAT | HEX | HOUR | INTEGER | LENGTH
  | LOWER | MINUTE | MOD | MONTH | SECOND | SUBSTR
  | TIME | TIMESTAMP | UPPER | VALUE | YEAR
  | VARCHAR_FORMAT | TIMESTAMP_FORMAT
  | IS_USER_CONTAINED_IN_HDS_GROUP | BIT_AND_TEST
  | MICROSECOND | POSITION }
```

ccc: Query number

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11426-E A

Operand *aaa* incompatible with first operand in *bb...bb*,
query-no=*ccc*

The data types of the first value expression and the number *aaa* value expression of a
scalar function (VALUE, BIT_AND_TEST, POSITION) or a CASE abbreviation
(NULLIF, COALESCE) are not compatible.

aaa: Number assigned to the value expression whose data type is not compatible with
the data type of the first value expression

bb...bb: Erroneous function or expression:

```
{ scalar function "VALUE" | scalar function "BIT_AND_TEST"
  | scalar function "POSITION"
  | case abbreviation "NULLIF" | case abbreviation "COALESCE" }
```

ccc: Query number

S: Ignores this SQL statement; executes rollback in the case of a definition SQL
statement.

P: Correct the SQL statement and re-execute.

KFPA11427-E A

Operand *a* out of range in scalar function "*bb...bb*", query-no=*ccc*

Value expression *a* in scalar function "*bb...bb*" does not satisfy the following conditions:

Scalar function SUBSTR

- $1 \leq \text{value-expression-2} \leq \text{length of value-expression-1}$
- $0 \leq \text{value-expression-3} \leq \text{length of value-expression-1} - \text{value-expression-2} + 1$

Note that 0 cannot be specified if a literal is specified in *a*.

Scalar function POSITION

- $1 \leq \text{value-expression-3} \leq \text{length-of-value-expression-2}$

a: Number assigned to the value expression:

{2|3}

bb...bb: Scalar function name {SUBSTR|POSITION}

ccc: Query number

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11428-E A

Variable or parameter cannot be specified in *aa...aa*, query-no=*bbb*

One of the following errors was detected in a scalar function (VALUE, HEX, or BIT_AND_TEST), in an embedded variable stored in the CASE expression, or the ? parameter.

- An embedded variable or ? parameter was specified in the first operand of the scalar function (VALUE).
- An embedded variable or ? parameter was specified as the value expression of the scalar function (HEX).
- An embedded variable or the ? parameter was specified in both operands of the scalar operation (BIT_AND_TEST).
- An embedded variable or ? parameter was specified in the first operand of the CASE abbreviation (COALESCE).
- An embedded variable or ? parameter was specified in both operands of the CASE abbreviation (NULLIF).
- An embedded variable or ? parameter was specified in the first WHEN clause of the simple CASE expression.
- An embedded variable or ? parameter was specified in the THEN or ELSE clause of the simple CASE expression or searched CASE expression.

- An embedded variable or ? parameter was specified in the CASE clause of the simple CASE expression.

aa....aa: Erroneous function or expression:

```
{ scalar function "VALUE" | scalar function "HEX"
  | case abbreviation "COALESCE"
  | case abbreviation "NULLIF"
  | simple CASE | searched CASE
  | scalar function "BIT_AND_TEST" }
```

bbb: Query number

S: Ignores this SQL statement; executes rollback in the case of a definition SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11430-E A

Invalid data type specified in select list

A data type of a selection expression is invalid.

Invalid data type:

- BOOLEAN

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11431-E A

aa....aa error occurred, code=*bbbb*

An error occurred during execution of an internal system function.

aa....aa: Name of the internal function resulting in the error

bbbb: Detail error code

S: Ignores this SQL statement.

P: Contact the HiRDB administrator.

Action

Contact a customer engineer.

KFPA11432-E A

Unable to specify local RDNODE name in CONNECT, DISCONNECT or SET CONNECTION statement

The RD-node name of the specified RD-node cannot be specified in the CONNECT, DISCONNECT, or SET CONNECTION statement.

S: Ignores this SQL statement.

P:

1. To connect to HiRDB at the specified RD-node, use the `CONNECT` statement without specifying the RD-node.
2. To disconnect a UAP from HiRDB at the specified RD-node, use the `DISCONNECT` statement without specifying the RD-node.
3. To use the specified RD-node as the current RD-node, use the `SET CONNECTION` statement with `DEFAULT` specified.

KFPA11440-E A

Inconvertible data type in assignment statement

The data types of the assignment destination and assignment value in the `SET` statement are not convertible. For an abstract data type, either the source and the destination of an assignment must have the same abstract data type, or the abstract data type for the source must be a subtype of that target.

S: Ignores this SQL statement and executes rollback.

P: Correct the SQL statement and re-execute.

KFPA11441-E A

Invalid use of data type in "SELECT" clause,
select-list-no=*aaaaa*, query-no=*bbb*

When the literal, operation, component specification, or function invocation result specified in a selection expression is one of the following data types, the `FOR READ ONLY` predicate definition, view table definition, or query name cannot be derived.

- BLOB
- Abstract data type
- BOOLEAN

If the result of a scalar subquery specified in a selection expression is one of the following data types, view tables cannot be defined and query names cannot be derived.

- BLOB
- BINARY 32,001 bytes or larger

In the selection expression of the derived table of a `FROM` clause, the following data type operators cannot be specified in the operational result.

- BLOB
- BINARY with a maximum length of 32,001 bytes or more

aaaaa: The number in the selection expression with an invalid data type or data length

bbb: Query number

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11442-E A

Invalid use of BLOB in scalar function "LENGTH", query-no=*aa*

Usage of the LENGTH scalar function with a BLOB data column specified is incorrect. The LENGTH scalar function with a BLOB data column specified can be specified only in a selection expression or update value as a single-unit LENGTH function.

aa: Number of the query specifying an invalid LENGTH function

S: Ignores this SQL statement (unless it is a definition SQL statement, in which case rollback is executed).

P: Correct the SQL statement and re-execute.

KFPA11443-E A

Inconvertible data type of target specification "*aa....aa*" in FETCH or SELECT statement

The target specification for the FETCH statement or the single-row SELECT statement is not a convertible data type.

For an abstract data type, one of the following conditions must be satisfied:

- The FETCH statement and the target specification for the FETCH statement must be of the same abstract data type.
- The single-row SELECT statement and the target specification for the single-row SELECT statement must be of the same abstract data type.
- The abstract data type of the FETCH statement must be a subtype of the abstract data type of the target specification for the FETCH statement.
- The abstract data type of the single-row SELECT statement must be a subtype of the abstract data type of the target specification for the single-row SELECT statement.

aa....aa: Name of the target

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11444-E A

Invalid data type for operand *aaa* in *bb....bb*, query-no=*ccc*

The data type or format specified in a CASE expression is invalid for the following reason:

- The result of the value expression is the BLOB type, BINARY type of 32,001 bytes or larger, abstract data type, or BOOLEAN type.

This error was detected in the following value expression:

- Value expression *aaa* in the CASE abbreviation
- Value expression in CASE *aaa*, WHEN *aaa*, or THEN *aaa*, or ELSE *aaa* of the simple CASE expression
- Value expression in THEN *aaa* or ELSE *aaa* of the searched CASE expression

aaa: Number of the operand containing the erroneous value expression or the number of the erroneous value expression

bb...bb: Erroneous CASE expression or the operand of the erroneous CASE expression:

```
{ case abbreviation "COALESCE"
  | case abbreviation "NULLIF"
  | "CASE" in simple CASE | "WHEN" in simple CASE
  | "THEN" in simple CASE | "ELSE" in simple CASE
  | "THEN" in searched CASE | "ELSE" in searched CASE }
```

ccc: Query number

S: Ignores this SQL statement; executes rollback in the case of a definition SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11445-E A

Variables or parameters cannot be specified in argument of set function "*aa...aa*", query-no=*bbb*

An embedded variable, SQL parameter, or ? parameter cannot be specified in the argument of a set function.

aa...aa: Name of the set function specifying an embedded variable or ? parameter in its argument

bbb: Query number

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11446-E A

CASE operand is incompatible with WHEN operand *aaa* in simple CASE, query-no=*bbb*

The data type of the value expression in CASE does not match the data type of value expression *aaa* in WHEN in a simple CASE expression.

aaa: Number of value expression in WHEN that does not match the data type of the value expression in CASE

bbb: Query number

S: Ignores this SQL statement; executes rollback in the case of a definition SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11447-E A

THEN operand *aaa* is incompatible with THEN or ELSE operand *bbb* in simple CASE or searched CASE, query-no=*ccc*

The data type of the value expression in THEN *aaa* does not match the data type of the value expression in THEN *bbb* or ELSE *bbb* in a simple CASE expression or searched CASE expression.

aaa: Number of the value expression to become the basis for checking data type compatibility

bbb: Number of the value expression whose data type does not match the data type of value expression *aaa*

ccc: Query number

S: Ignores this SQL statement; executes rollback in the case of a definition SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11448-E A

At least one THEN operand in simple CASE or searched CASE must be value expression, query-no=*aaa*

NULL was specified in all THEN operands. In a simple CASE expression or searched CASE expression, a value expression must be specified in at least one THEN operand.

aaa: Query number

S: Ignores this SQL statement; executes rollback in the case of a definition SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11449-E A

Cardinality violation in single row select

The result of a single-row SELECT statement is two or more rows.

S: Ignores this SQL statement.

P: Either specify a query whose selection result becomes one row or less or use the cursor for selection.

KFPA11450-E A

Cardinality violation at *aaa*-th subquery. Two or more rows found

The result of a subquery of one of the following types consists of at least two rows:

- Scalar subquery specified with a comparison predicate or the `SET` clause of an `UPDATE` statement
- Row subquery

aaa: Position from the beginning of the subquery that resulted in the base error. However, when a set operation is specified in a subquery, this is the number of the first specified query in the set operation query specification. Also, if the cause of the error is the contents of the view table definition, this is the number of the query that specified the view table.

S: Ignores this SQL statement.

P: Correct the SQL statement so that the subquery result is one row or less and re-execute.

KFPA11451-E A

aa....aa constraint "*bb...bb*" violation at *cc....cc*

There is a violation of a referential constraint or a check constraint.

aa....aa: Type of constraint

{Referential|Check}

bb...bb: Name of the constraint involved in the constraint violation

cc....cc: SQL statement involved in the constraint violation

{INSERT|UPDATE|DELETE}

aa....aa: Referential (referential constraint violation)

- For a primary key update of a referenced table, the value of the primary key configuration column before update and the value of the row that holds the equivalent foreign key configuration column are in the referencing table.
- For a primary key deletion of a referenced table, the value of the primary key configuration column of the row to be deleted and the value of the row that holds the equivalent foreign key configuration column are in the referencing table.
- For a foreign key insertion of a referencing table, the value of the primary key configuration column of the row to be inserted and the value of the row that holds the equivalent foreign key configuration column are not in the referencing table.
- For a foreign key update of a referencing table, the value of the primary key configuration column after the update and the value of the row that holds the equivalent foreign key configuration column are not in the referencing table.
- The same primary key has already been referenced within a table, and there are multiple definitions of referential constraints that include the `ON UPDATE`

CASCADE specification in the specified referential constraint operation.

aa....aa: Check (check constraint violation)

- The update value or the insert value does not satisfy the conditions defined for the check constraint.
- The same primary key has already been referenced within a table, and there are multiple definitions of referential constraints that include the `ON UPDATE CASCADE` specification in the specified referential constraint operation.

S: Ignores this SQL statement. If this is a definition SQL statement, it is rolled back.

P:

aa....aa: Referential

- If an `UPDATE` statement is for a referenced table, take one of the following actions:
 - Change the update conditions.
 - Delete from the referencing table the row that holds the foreign key value that is equivalent to the value of the primary key before update, or update the value of the foreign key of the referencing table to the value of another primary key in the referenced table.
- If a `DELETE` statement is for a referenced table, take one of the following actions:
 - Change the deletion conditions.
 - Delete from the referencing table the row that holds the foreign key value that is equivalent to the value of the primary key to be deleted, or update the value of the foreign key of the referencing table to the value of another primary key in the referenced table.
- If an `INSERT` statement is for a referenced table, take one of the following actions:
 - Change the value of the foreign key to be inserted to an appropriate value.
 - Add to the referenced table the row that holds the insert value of the foreign key of the referencing table as the primary key.
- If an `UPDATE` statement is for a referenced table, take one of the following actions:
 - Change the update conditions.
 - Change the update value of the foreign key to an appropriate value.
 - Add to the referenced table the row that holds the update value of the

foreign key of the referencing table as the primary key.

If an error occurs after taking the above actions, change the specification to one referential constraint that includes the `ON UPDATE CASCADE` specification in the referential constraint operation, which references the same primary key, and re-define the table.

aa...aa: Check

- Correct the update or insertion value to satisfy the conditions of the check constraint definition.

If an error occurs even after taking the above action, change the specification to one referential constraint that includes the `ON UPDATE CASCADE` specification in the referential constraint operation, which references the same primary key, and re-define the table.

KFPA11453-E A

CAST error occurred, reason=*aa...aa*, query-no=*bbb*

The method of specifying `CAST` or the data content is invalid.

aa...aa: Error cause

COMBINATION:

An error occurred when combining the data type and data length of the value expression result with the data type and data length after conversion.

(Example) `CAST (TIME-type AS INT)`

FORMAT:

The format of a character string literal in the conversion source data is invalid.

(Example) `CAST ('ABC' AS INT)`

VALUE:

A value in the conversion source data is invalid.

(Example) `CAST ('1999-99-99' AS DATE)`

TRUNCATION:

Characters were truncated.

(Example) `CAST (DATE-type AS CHAR(1))`

OVERFLOW:

An overflow occurred.

(Example) `CAST (99999 AS DEC(1,1))`

INVALID CAST OPERAND:

An invalid specification exists in the conversion source.

(Example) `CAST (BLOB-type AS data-type)`

DATA TYPE:

A data type that cannot be used is specified as a conversion data type.

(Example) `CAST (C1 AS BLOB)`

bbb: Number of the query specifying CAST specification that caused the error.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11455-E A

Unable to specify *aa....aa* in view definition or in "WITH" query

Value expressions of an abstract data type cannot be specified in a view definition or in a derived query expression for a query in a WITH clause. If a CASE expression is specified in a selection expression in the outermost query, a repetition column cannot be specified in its search condition.

aa....aa:

```
{ abstract data |multi-value column in
  search condition of CASE expression }
```

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11456-E A

Outer reference specified for column derived from set function with argument of operation

When a set function in which an operation is an argument is specified in either a selection expression for a view definition or a selection expression in a derived query expression for a query in a WITH clause, the applicable column cannot be specified in a subquery as an outer reference column.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11458-E A

Duplicate query name "*aa....aa*" in "WITH" clause

Query name "*aa....aa*" is duplicated in the WITH clause. The same query name cannot be specified more than once in the WITH clause.

aa....aa: Duplicated query name

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11459-E A

Duplicate column name "*aa....aa*" in derived table "*bb...bb*" in view definition or "WITH" query

The column name "*aa....aa*" in the query name "*bb...bb*" in the view table or the WITH clause is duplicated. A column name can be specified only once in a view table or in a query name in a WITH clause.

aa....aa: Duplicate column name

bb...bb: Name of the view table or the query name containing duplicate column names

S: Ignores this SQL statement.

P:

- If a column name is specified, correct the column name to eliminate duplication.
- If a column name is omitted, the column name in the query selection expression must be duplicated, resulting in duplicate column names in the view table or in the query in the WITH clause. In this case, explicitly specify a unique column name.

KFPA11460-E A

No name for derived column in view definition or "WITH" query

If a table derived by a view definition or a derived query expression in a WITH clause contains an unnamed column, a column name cannot be omitted from the name of the view table or the query name.

S: Ignores this SQL statement.

P: Specify a column name.

KFPA11461-E A

Unable to derive internal table for view or "WITH" query having long data column or multi-value column

A query to create an internal derived table cannot be specified for a named derived table specified in one of the following selection expressions:

- BLOB
- BINARY 32,001 bytes or larger
- Repetition column

The conditions for creating an internal derived table are as follows:

1. In a query for a named derived table, derived by specifying `SELECT DISTINCT`,

the named derived table is included in a subquery or directly includes one of the following:

- GROUP BY clause, HAVING clause, or set function
 - SELECT DISTINCT
 - Table join (including outer join and inner join)
 - A value expression other than a column specification is specified in the selection expression.
 - None of the columns of the named derived table specified in the FROM clause is specified singularly in the selection expression.
2. A query for a named derived table, derived by specifying a GROUP BY clause, HAVING clause, or a set function, directly includes one of the following:
 - GROUP BY clause, HAVING clause, or set function
 - Table join (including outer join and inner join)
 - Window function
 3. One of the following is directly included in the query for a named derived table specified by a selection expression that is a value expression other than a column specification:
 - GROUP BY clause, HAVING clause, or set function
 - Window function
 - Joined table
 4. A query on a named derived table derived by directly specifying a set function with DISTINCT contains one of the following:
 - GROUP BY clause, HAVING clause, or set function
 - SELECT DISTINCT
 - Window function
 5. A query for a named derived table derived by specifying a table join (including outer join and inner join) directly includes a table join (including outer join and inner join), and one of the specified table joins specifies a joined table.
 6. A query on a named derived table derived by directly specifying a scalar subquery as a selection expression contains one of the following:
 - SELECT DISTINCT
 - GROUP BY clause, HAVING clause, or set function
 - Table join (including outer join and inner join)

- A value expression other than a column specification specified in a selection expression
 - A scalar subquery specified in a selection expression
 - The same column derived from a value expression containing a subquery, specified more than once in the selection expression for a named derived table
 - A column derived from a value expression containing a subquery, specified as an external reference column in the selection expression for a named derived table
 - A viewed table defined before HiRDB version 07-02
7. A query for a named derived table derived from a set operation, which satisfies one of the following conditions:
- One of the operators of the set operation includes an internal derived table query, a query that specifies a derived table, or a query that specifies a subquery in a selection expression.
 - One of the operators of the set operation and the query for the named derived table satisfy one of the conditions of 1 through 6 above.
8. A query for a named derived table derived from a set operation that includes clauses other than UNION ALL, which directly includes one of the following:
- GROUP BY clause, HAVING clause, or a set function
 - SELECT DISTINCT
 - Table join (including external or internal joins)
 - WHERE clause
 - Subquery
 - Value expression other than a column specification in a selection expression
 - In a selection expression, the columns of a named derived table specified in the FROM clause are not specified once each
9. A query for a named derived table derived from a set operation that includes only UNION ALL, which directly includes one of the following:
- GROUP BY clause, HAVING clause, or a set function
 - Window function
 - WHERE clause or subquery (however, a subquery, a set operation operator, or an INSERT statement query only)
 - Function call or system definition scalar function

- Component specification
 - WRITE specification
 - GET_JAVA_STORED_ROUTINE_SOURCE specification
 - Sort specification with items not in the selection expression
 - Subquery for a named derived table derived from a set operation specified in the FROM clause
 - Subquery that specifies a derived table
 - Subquery specified in a value expression other than a column specification in the GROUP BY clause
 - A data type of an SQL variable specified in a selection expression or an SQL parameter that is one of the following:
 - BLOB type
 - BINARY type 32,001 bytes or larger
 - Abstract data type
 - BOOLEAN type
10. The query specification specified for the table-joining of named derived tables derived by a set operation consisting solely of UNION ALL specifies one of the following:
- A named derived table in a table reference other than at the leftmost outer table for an outer join
 - The FROM clause specifying a named derived table, which specifies a comma join (that is, specifies a different table reference than the joined table for which a derived table is specified)
 - A subquery or a derived table
 - A query specification contained either in a subquery or in the operation term for a set operation
 - A set operation term that derives named derived tables and contains one of the following:
 - Table join
 - GROUP BY clause, HAVING clause, or a set function
 - SELECT DISTINCT
 - A value expression in a selection expression other than a column specification

- A query that creates an inner derived table
- A query specifying a derived table
- A named derived table derived by specifying a set operation (in addition to a named derived table)
- One of the following, in the table reference to a joined table specifying a named derived table:
 - A named derived table derived by specifying the joining of tables
 - A named derived table derived by specifying a GROUP BY clause, a HAVING clause, or a set function
 - A named derived table derived by specifying SELECT DISTINCT
 - A named derived table derived by specifying a value expression other than a column specification in a selection expression
 - A named derived table derived by specifying a query that creates an inner derived table
 - A named derived table derived by specifying a subquery
- The total number of tables obtained by the following expression is greater than 65:

$$\text{Total number of tables} = a + b \times c + d$$

a: Total number of tables from which named derived tables are derived

b: Number of set operations from which named derived tables are derived + 1

c: Total number of tables specified on the right side of an outer join

d: If a query other than a query for which a named derived table is specified is also specified, the total number of tables specified in the query

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11462-E A

Unable to specify "*aa....aa*" "*bb....bb*" in view definition or "WITH" clause or "WITH" query expression body

A table alias defined for access to a table in another RD node, or table name qualified by another RD node, cannot be specified in a derived query expression of a view definition statement, or in a derived query expression or the query expression body in a query expression in a WITH clause.

aa....aa: ALIAS OR OTHER RDNODE

bb....bb: Table alias or another RD-node name

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11463-E A

Unable to specify long, large object, abstract, or boolean data in "*bb...bb*" clause, query-no=*aaa*

A value expression with a result of abstract data, BOOLEAN data, BLOB data, or BINARY data with a maximum length of 32,001 bytes or larger cannot be specified in a GROUP BY clause value expression or an ORDER BY clause sort key.

aaa: Query number

bb...bb:

```
{GROUP BY|ORDER BY}
```

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11465-E A

Data type must be BOOLEAN in "BOOLEAN" predicate, query-no=*aaa*

A non-BOOLEAN data type cannot be specified in a logical predicate.

aaa: Query number for the logical predicate specifying an invalid data type

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11467-E A

Unable to specify *aa....aa* in view definition or in "WITH" query

The following items cannot be specified in a view definition or in a query specification in a query in a WITH clause:

- Component specifications
- Functions provided by a plug-in
- Logical predicates
- WRITE specifications
- GET_JAVA_STORED_ROUTINE_SOURCE specifications

aa....aa:

```
{ component specification
| PLUGIN function
| boolean predicate
| WRITE specification
| GET_JAVA_STORED_ROUTINE_SOURCE specification }
```

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11468-E A

Inconvertible data type in "RETURN" statement with "RETURNS" clause

The RETURN statement and the RETURNS clause do not have convertible data types.

For an abstract data type, either the abstract data type for the RETURNS clause and the RETURN statement must be the same, or the abstract data type for the RETURN statement must be a subtype of that in the RETURNS clause.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11469-E A

Return data in "RETURN" statement too long for "RETURNS" clause

The length of the return value data in the RETURN statement is too long for the RETURNS clause.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11470-E A

Unable to specify *aa...aa* in column-name list of ARRAY predicate, query-no=*bbb*

The column specification for the structured repetition predicate contains one of the following errors:

- The specified repetition columns do not belong to the same table or are not columns derived from the same table.
- A repetition column is an outer reference column.
- The same column is specified as a repetition column.
- A non-repetition column, an SQL variable, or an SQL parameter is specified.

aa...aa:

```
{ columns in different tables |outer reference column
|same columns |single-value column,
SQL variable or SQL parameter
|derived columns from different tables }
```

bbb: Number of the query specifying the predicate

S: Ignores this SQL statement (unless it is a definition SQL statement, in which case rollback is executed).

P: Correct the SQL statement and re-execute.

KFPA11471-E A

Unable to specify columns in different tables in OR condition includes ARRAY predicate

The following columns (excluding outer reference columns) cannot be specified in the search condition of the OR operand that includes a structured repetition predicate:

- Columns from different tables
- Columns derived from different tables

Different tables also includes tables that have the same base table but different correlation names.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11472-E A

Unable to specify both DISTINCT for selected row or distinct view and set operation in view definition or "WITH" query

The following items cannot be specified in a query specification that is the object of a set operation when a view definition is specified, or when a set operation (UNION ALL) is specified in a derived query expression for a query in a WITH clause:

- SELECT DISTINCT
- View tables defined by specifying SELECT DISTINCT in the outermost query specification

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11473-E A

Unable to specify "aa....aa" in query for table derived from set operation

The following items cannot be specified in a query for a table that is derived by specifying a set operation (UNION ALL):

- A GROUP BY clause, a HAVING clause, or a set operation
- Joining of tables
- Set operations
- Subqueries specifying a joined table
- Subqueries specifying a value expression other than a column specification in a GROUP BY clause

- Queries specifying, in a sort key, a column that is not included in a column specification
- Function invocations
- Component specifications

aa...aa:

```
{ grouping or set function |join |set operation
  |subquery with joined table
  |subquery with grouping by expression
  |sorting by unselected column
  |function invocation |component specification }
```

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11474-E A

Unable to specify table derived from "*bb...bb*" in "*aa...aa*"

One of the following errors was detected:

1. A table derived by specifying a set operation (UNION ALL) cannot be specified in the FROM clause of the following types of query specification:
 - Query specification of an INSERT statement
 - Subquery
 - Derived query expression in a view definition
 - Derived query expression of a query that uses a WITH clause
2. A table derived by specifying a joined table cannot be specified in the FROM clause of the following types of query specification:
 - Derived query expression in a view definition
 - Derived query expression of a query that uses a WITH clause
3. A table derived by specifying a joined table for the query, which is the target of a set operation (UNION ALL), cannot be specified in the FROM clause of a query that specifies a subquery.

aa...aa:

```
{ subquery |INSERT statement |view definition
  |"WITH" query |query in "FROM" clause
  |query with subquery }
```

bb...bb:

```
{ set operation |joined table
  |set operation with joined table }
```

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11475-E A

Invalid *a*-th operand in *bb...bb*

The *a*th operand in the *bb...bb* specification is invalid:

- A value expression that is not allowed was specified.
- A data type that is not allowed was specified.

a: Operand number containing the error

bb...bb: Name of the specification containing the error:

```
{ WRITE specification |WRITE LINE statement
  |GET_JAVA_STORED_ROUTINE_SOURCE }
```

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11476-E A

Error occurred during execution of system defined scalar function in *aa...aa*, query-no=*bbb*, detail="*cc...cc*"

An error occurred during execution of a system-defined scalar function.

aa...aa: Name of the clause or statement that specified the function:

```
{ "WHERE" clause |"SET" clause |"ADD" clause
  |"SELECT" clause |"ON" condition |"GROUP BY" clause
  |"HAVING" clause |"ORDER BY"clause |"IF" statement
  |"WHILE" statement |"SET" statement |"RETURN" statement
  |"VALUES" statement |"CALL" statement
  |"WRITE LINE" statement |triggered action condition }
```

bbb: Query number that specified the clause or statement

cc...cc: Error detail message

S: Ignores this SQL statement.

P: Take action appropriate to the error detail message:

2. Messages

Error detail message (cc....cc)	Function name	Explanation	Action to be taken
Invalid value of 1st argument for function <i>function-name</i>	ADD_INTERNAL DATETIME DAYNAME DAYOFWEEK DAYOFYEAR INTERVAL_DATETIME S ISDIGITS LAST_DAY MONTHNAME MONTHS_BETWEEN NEXT_DAY STRTONUM YEARSBETWEEN TRUNCYEAR ROUNDMONTH QUARTER HALF WEEK WEEKOFMONTH CENTURY MIDNIGHTSECONDES STRTONUM	Argument 1 value is invalid.	Modify the SQL by considering the following: <ul style="list-style-type: none"> • If a date, time, or date and time character string expression is specified for the argument, is the format correct? • If a numerical value character string expression is specified for the argument, is the format correct? • If the data type of the argument is variable-length character string, is the length appropriate? For details about specifying this argument, see the description of the relevant scalar function in the manual <i>HiRDB Version 8 SQL Reference</i> .
Invalid value of 2nd argument for function <i>function-name</i>	DATETIME INTERVAL_DATETIME S LTRIM MONTHS_BETWEEN NEXT_DAY NUMEDIT REPLACE REPLACE_LONG ROUND RTRIM TRUNC YEARSBETWEEN INSERTSTR INSERTSTR_LONG LEFTSTR RIGHTSTR TRUNCYEAR ROUNDMONTH QUARTER HALF	Argument 2 value is invalid.	

Error detail message (cc....cc)	Function name	Explanation	Action to be taken
Invalid value of 3rd argument for function <i>function-name</i>	REPLACE REPLACE_LONG ROUND INSERTSTR INSERTSTR_LONG POSSTR TRUNCYEAR QUARTER HALF	Argument 3 value is invalid.	
Invalid value of 4th argument for function <i>function-name</i>	POSSTR TRANSL TRANSL_LONG	Argument 4 value is invalid.	
Result data too long for returned data type in function <i>function-name</i>	REPLACE REPLACE_LONG INSERTSTR INSERTSTR_LONG TRANSL TRANSL_LONG	Results length exceeded the maximum permissible length for the results data type.	Ensure that the results length does not exceed the maximum permissible length for the results data type. For details about the length of the results data type, see the description of the relevant scalar function in the manual <i>HiRDB Version 8 SQL Reference</i> .
Domain error in function <i>function-name</i>	ACOS ASIN LN LOG10 SQRT	Value outside the definition range of the function was passed.	Ensure that a value outside the definition range of the function is not passed. For details about the definition range of the function, see the description of the relevant scalar function in the manual <i>HiRDB Version 8 SQL Reference</i> .
Division by zero in function <i>function-name</i>	POWER	Division by 0 occurred.	Ensure that division by 0 does not occur. For details about conditions that cause this error, see the description of the relevant scalar function in the manual <i>HiRDB Version 8 SQL Reference</i> .

Error detail message (cc....cc)	Function name	Explanation	Action to be taken
Overflow error in function <i>function-name</i>	ADD_INTERNAL CEIL COSH DEGREES EXP FLOOR GREATEST LEAST NEXT_DAY NUMEDIT POWER ROUND ROUNDMONTH SINH STRTONUM TAN TRUNCYEAR	Overflow occurred.	Ensure that the function results can be expressed in the results data type.

KFPA11477-E A

Data type of *aa....aa*-th argument in CALL statement inconvertible with parameter data type "*bb...bb*"

The data type of the *aa....aa*th argument of the CALL statement is not convertible to the data type of the "*bb...bb*"th parameter of the procedure to be called.

aa....aa: Argument number of the inconvertible data type

bb...bb: Data type of the parameter to which the procedure corresponds:

```
{ INTEGER | SMALLINT | DECIMAL(m, n)
  | FLOAT | SMALLFLT | CHARACTER(l)
  | VARCHAR(l) | NCHAR(l) | NVARCHAR(l)
  | MCHAR(l) | MVARCHAR(l) | DATE | TIME | TIMESTAMP(p)
  | INTERVAL YEAR TO DAY
  | INTERVAL HOUR TO SECOND
  | BLOB(l) | BINARY(l) | ABSTRACT DATA TYPE }
```

m,n indicates the DECIMAL precision and scaling, respectively. *l* indicates the character string length. *p* indicates the precision in seconds.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11478-E A

Invalid *aa....aa* '*bb...bb*'

One of the following errors was detected in the server type or server version of CREATE

SERVER:

- Server type specification exceeds 30 characters in length.
- Server version specification exceeds 30 characters in length.
- Server type that can be accessed was not specified.
- Server version that can be accessed was not specified.

aa....aa: {TYPE|VERSION}

bb....bb: Invalid server type or server version

Displays the first 30 characters when the server type or server version is 30 characters or more in length.

S: Ignores this SQL statement.

P: When '*bb....bb*' is incorrect, correct the SQL statement and re-execute. When '*bb....bb*' is correct, contact the HiRDB administrator.

Action

When *aa....aa* is TYPE and '*bb....bb*' is correct:

HiRDB External Data Access Adapter for '*bb....bb*' is not installed. Check which HiRDB External Data Access Adapter is installed.

When *aa....aa* is VERSION and '*bb....bb*' is correct:

The HiRDB External Data Access Adapter does not support the '*bb....bb*' server version. Check which HiRDB External Data Access Adapter is installed.

KFPA11479-E A

Invalid concatenation operation for "*aa....aa*" in UPDATE statement

One of the following errors was detected when updating a BLOB string or BINARY string whose length is 32,001 bytes or more using a concatenation operation:

- An item other than a column was specified in the first operation item of the concatenation operation.
- An item other than the ? parameter, SQL variable, or SQL parameter was specified in the second operation item of the concatenation operation.
- The column to be updated differs from the column in the first operation item of the concatenation operation.
- A concatenation operation was specified for the result of the concatenation operation.
- A BLOB column specified in the search condition of a check constraint or a BINARY column with a maximum length of 32,001 bytes or larger is specified as

the column to be updated.

aa....aa: {BLOB|BINARY}

S: Ignores this SQL statement (unless it is a definition SQL statement, in which case rollback is executed).

P: Correct the SQL statement and re-execute.

KFPA11481-E A+L

Error occurred in foreign server *aa....aa* (*b*), SQLCODE=*cc....cc*,
inf=*dd....dd*

The external server returned an error when the HiRDB External Data Access facility was being used.

aa....aa: External server name

b: Server type

P: HiRDB

R: XDM/RD E2

O: ORACLE

I: DB2

cc....cc: SQLCODE returned from the external server

dd....dd: Message returned from the external server

When the message is 76 characters or more in length, the first 74 characters are output, followed by two periods (..).

S: Terminates the process. Aborts execution of the SQL statement if this message was output during SQL statement execution.

P: Confirm the type of the external server and refer to the SQLCODE and error message based on the applicable DBMS manual. After removing the cause of the error, re-execute the UAP.

KFPA11482-E A+L

Error occurred in External Data Access Adapter *aa....aa* (*b*),
kind=*cc*, inf=*dd....dd*

The HiRDB External Data Access Adapter returned an error when the HiRDB External Data Access facility was being used.

aa....aa: External server name

b: Server type

P: HiRDB

R: XDM/RD E2

o: ORACLE

i: DB2

cc: Type of error returned from the HiRDB External Data Access Adapter

dd....dd:

Message returned from the external server

When the message is 76 characters or more in length, the first 74 characters are output followed by two periods (..).

S: Terminates the process. Aborts execution of the SQL statement if this message was output during SQL statement execution.

P: Take an action according to the error type.

Error type cc	Description	Action
1	Initialization error of the DB client	Confirm that the DB client can operate in the current environment and re-execute UAP.
2	There is no indicator variable even though the data is a null value.	Use CREATE FOREIGN TABLE to specify the column general option NULLABLE 'YES' in the column causing the error.
3	An overflow occurred when converting the output format into the DECIMAL type.	Use CREATE FOREIGN TABLE to confirm the specified data type.
4	A data type that cannot be used was specified.	
5	Data conversion error	
Other than the above	Does not apply.	Contact a customer engineer.

KFPA11483-E A+L

External Data Access Adapter not installed for foreign server *aa....aa*, type=*bb....bb*, version=*cc....cc*

When the HiRDB External Data Access facility was being used, the HiRDB External Data Access Adapter corresponding to the foreign server is not installed.

aa....aa: External server name

bb....bb: Server type (server type specified by CREATE SERVER)

cc....cc: Server version (server version specified by CREATE SERVER)

S: Terminates the process. Aborts execution of the SQL statement if this message was

output during SQL statement execution.

P: Request the HiRDB administrator to install the HiRDB External Data Access Adapter that corresponds to the server type and server version specified by `CREATE SERVER`.

Action

Install the HiRDB External Data Access Adapter that corresponds to the server type and server version specified by `CREATE SERVER`.

KFPA11484-E A+L

Fail to load External Data Access Adapter.

Loading of the HiRDB External Data Access Adapter failed.

S: Terminates the process.

Action

Follow the instructions in the KFPW message output before this message was output.

KFPA11485-E A+L

Fail to get symbol External Data Access Adapter.

An attempt to acquire a symbol for the common library of the HiRDB External Data Access Adapter failed.

S: Terminates the process.

Action

Follow the instructions in the KFPW message output before this message was output.

KFPA11486-E A+L

Unable to connect foreign server *aa...aa* (*b*), reason=*cc...cc*

When the HiRDB External Data Access facility was being used, an attempt to connect to the foreign server failed for the following reason:

- User mapping for the foreign server was not defined.

aa...aa: External server name

b: Server type

E: HiRDB

R: XDM/RD E2

O: ORACLE

I: DB2

cc....cc: Reason (USER_MAPPING)

S: Terminates the process. Aborts execution of the SQL statement or invalidates the transaction if this message was output during SQL statement execution.

O: Define user mapping to the foreign server and re-execute the UAP.

KFPA11487-E A

Status of dynamic result set invalid

An object was returned as an invalid dynamic results set for the following reason:

- The object returned as a dynamic results set from a method defined as a Java stored procedure is not the object for which a results set was determined by the query.

S: Invalidates the transaction.

P: Specify an object that performs a query as the object to be returned as a dynamic results set from the method defined as a Java stored procedure. (Use the SQL statement specified by JDBC's `prepareStatement` method as the `SELECT` statement.). Also execute a query of this object (execute JDBC's `executeQuery` method).

KFPA11488-E A

Duplicate dynamic result set

The object returned as a dynamic results set from a method defined as a Java stored procedure is specified by multiple parameters.

S: Invalidates the transaction.

P: Correct so that the object returned as a dynamic results set from the method defined as a Java stored procedure is not set by multiple parameters.

KFPA11489-E A

System function *dd....dd* error, code=*ee....ee*, in copying JAR file "*aa....aa*" to "*bb....bb*" for *cc....cc*

An error occurred in a system function during JAR file registration, re-registration, or deletion.

aa....aa: JAR file name (first 80 characters only if the name exceeds 80 characters)

bb....bb: Temporary file name

cc....cc

{ install |replace |remove }

dd....dd: System function name

ee....ee: System-related error detail code

See 4.2 *Detail codes for system-related errors*.

S: Invalidates the transaction.

P: Remove the error cause and re-execute the transaction.

KFPA11490-E A

aa....aa JAR "*bb...bb*" failed, because *cc...cc*

JAR file registration, re-registration, or deletion failed.

aa....aa

{ install |replace |remove }

bb...bb: JAR file name (first 80 characters only if the name exceeds 80 characters)

cc...cc: Cause:

transaction already begin:

The transaction has already begun.

JAR file already installed:

JAR file has already been registered.

JAR file not found:

JAR file cannot be found.

JAR file synchronization failed:

An error occurred in the `pdjarsync` command.

S: Invalidates the transaction.

P:

- When *cc...cc* is transaction already begin
Before registration, re-registration, or deletion, commit the transaction (COMMIT or ROLLBACK).
- When *cc...cc* is JAR file already installed
If the existing JAR file may be overwritten, execute `REPLACE JAR`.
- When *cc...cc* is JAR file not found
Correct the specified JAR file name and re-execute.
- When *cc...cc* is JAR file synchronization failed
Use the `pdjarsync` command to display a list of JAR files, then check the contents of this JAR file. If necessary, re-execute registration, re-registration, or deletion with the `pdjarsync` command.

KFPA11491-E A

Error occurred on JavaVM, message=*aa....aa*

An error occurred in the Java Virtual Machine.

aa....aa: Error detail and type:

INIT

Error occurred during startup.

exception or error message

Error occurred at a time other than during startup. If the number of characters exceeds 208, # is displayed as the 208th character.

Error occurred in the Java Virtual Machine.

S: Ignores this SQL statement.

P: Re-execute the Java stored procedure or Java stored function. If the same error occurs again, contact the HiRDB administrator.

O:

- When *aa....aa* is INIT

Ensure that the following system definition operands are correct:

pd_java_option, pd_java_archive_directory,
pd_java_classpath, pd_java_libpath, pd_java_stdout_file,
pd_java_runtimepath

- When *aa....aa* is exception or error message

Refer to the JDK documentation and take appropriate action.

- When *aa....aa* is *****

Restart the HiRDB server.

KFPA11492-E A

Exception raised, in java method=*cc....cc* for ROUTINE
aa....aa. "*bb....bb*", message=*dd....dd*

An exception error occurred during execution of a Java method defined as a Java stored procedure or Java stored function.

aa....aa: Owner name

bb....bb: Name of Java stored procedure or Java stored function

cc....cc: Java method name (if the name exceeds 64 characters, # is displayed as the 64th character)

dd....dd: One of the following (if the item exceeds 65 characters, # is displayed as the

65th character):

- Detailed message that is set for the exception error object caused by the Java method
- Class name of the exception error object (this is displayed when no detailed message has been set)

S: Ignores this SQL statement.

P: Take one of the following actions:

- Re-create the Java method by referring to the exception error message.
- Remove the cause of the exception error by referring to standard output or standard error from the Java method, which is output to the file specified in the `pd_java_stdout_file` system definition operand.

O: Specify the `pd_java_stdout_file` operand to make it possible to obtain standard output or standard error from the Java method.

KFPA11493-E A

Unable to execute Java method ROUTINE *aa....aa*. "*bb....bb*",
reason_code=*cc*, message=*dd....dd*

Java stored procedure or Java stored function could not be executed for reason *cc*.

aa....aa: Owner name

bb....bb: Name of Java stored procedure or Java stored function

cc: Reason code:

02: Specified method was not found.

03: Class loading failed.

04: Specified method caused a security violation exception.

05: JAR file I/O processing failed.

06: Specified JAR file was not found.

07: Specified class was not found.

08: Specified method has no static qualifier.

09: Return value type specified by `EXTERNAL NAME` in the definition of the Java stored procedure or Java stored function is different from the return value type of the Java method.

dd....dd: Message (if the message exceeds 109 characters, # is displayed as the 109th character):

- Method name when *cc* is 02, 04, or 08

- Class name when *cc* is 03 or 07
- JAR file name when *cc* is 05 or 06
- Return value type name specified by `EXTERNAL NAME` and return value type name of the Java method when *cc* is 09

S: Ignores this SQL statement.

P: Take one of the following actions:

- Check the following in `EXTERNAL NAME` in the definition of the Java stored procedure or Java stored function:
 - Method name when *cc* is 02 or 04
 - Class name when *cc* is 03 or 07
 - JAR file name when *cc* is 05 or 06
 - Java class source file (whether or not the static qualifier is present in the method) when *cc* is 08
 - Return value type and Java method's return value type when *cc* is 09
- Check whether the specified JAR file is registered correctly.

KFPA11494-E A

Unable to use JAVA procedure or function

Java stored procedure or Java stored function cannot be used for the following reason:

- The HiRDB being used is not a POSIX library version.

S: Ignores this SQL statement. The transaction is invalidated in the case of a definition SQL statement.

Action

To use Java stored procedures or Java stored functions, execute the `pdsetup -l` command.

KFPA11495-E A

Unable to execute SQL in function *aa...aa*. "*bb...bb*" (*cc...cc*)

A database manipulation SQL statement is being executed from the *aa...aa*. "*bb...bb*" function.

aa...aa: Owner name

bb...bb: Function name

cc...cc: Identifying name

S: Ignores this SQL statement.

P:

Correct so that the SQL statement is not executed from the *aa....aa*. "*bb....bb*" function, and then re-execute.

If the function body is a Java method, correct so that the Java method does not manipulate the database, and then re-execute.

KFPA11496-E A

Unable to specify subquery in SQL using foreign table

A subquery cannot be specified to an SQL that accesses a foreign table. Also, the view table including subqueries cannot mix specifications with a foreign table.

S: Ignores this SQL statement (unless it is a definition SQL statement, in which case rollback is executed).

P: Correct the SQL statement and re-execute.

KFPA11500-E A

Unable to open holdable cursor

A holdable cursor cannot be opened for the following reason:

- The maximum number of simultaneously open holdable cursors during non-runtime of the LOCK statement with UNTIL DISCONNECT specified that is specified in the `pd_max_open_holdable_cursors` operand of the server common definition, back-end server definition, dictionary server definition, or single server definition, was exceeded.

S: Ignores this SQL statement.

P: Correct the UAP or SQL and re-execute.

Action

Revise the maximum number of simultaneously open holdable cursors during non-runtime of a LOCK statement with UNTIL DISCONNECT specified that is specified in the `pd_max_open_holdable_cursors` operand of the server common definition, back-end server definition, dictionary server definition, or single server definition. If necessary, change the specified value and re-start HiRDB.

KFPA11501-E A

Cursor not opened

The cursor specified in the FETCH or CLOSE statement has not been opened.

S: Ignores this SQL statement.

P: Modify the UAP so that the cursor is opened before fetching a row and then is closed, then re-execute.

KFPA11502-E A

Cursor already opened

An attempt was made to open an already open cursor.

S: Ignores this SQL statement.

P: Modify the UAP so that the cursor is closed before reopening it, then re-execute.

KFPA11504-E A

Invalid data type specified in routine definition

One of the following errors was detected in a data type specification in the routine definition:

- The data type of the parameter of the routine that specifies Java in the `LANGUAGE` clause is not convertible to the data type specified in the `EXTERNAL NAME` clause.
- The data type of the `RETURN` clause of the routine that specifies Java in the `LANGUAGE` clause is not convertible to the data type specified in the `EXTERNAL NAME` clause.
- The number of data types for the parameter of the routine that specifies Java in the `LANGUAGE` clause is different from the number of data types specified in the `EXTERNAL NAME` clause.
- `*` is specified for the data size of the parameter data type or the data size of the return value data type.
- `void` is not specified as the `returns` type name in the `EXTERNAL NAME` clause of the procedure that specifies Java in the `LANGUAGE` clause.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11505-E A

aa....aa requested for query with opened cursor

Preprocessing or preprocessing invalidation was requested for a query while a cursor was open. Or, preprocessing or preprocessing invalidation was requested for a query open for reference by another cursor.

aa....aa: The SQL statement that requested execution

`PREPARE`: Preprocessing has been requested.

`DEALLOCATE PREPARE`: Preprocessing invalidation has been requested.

S: Ignores this SQL statement.

P: Revise the UAP so that the cursor is closed before preprocessing or preprocessing invalidation, and re-execute. Or, revise the UAP so that another cursor that is referencing is closed before preprocessing or preprocessing invalidation, and

re-execute.

KFPA11506-E A

Invalid request for executing of query

A query for which preprocessing was executed with the `PREPARE` statement cannot be executed by the `EXECUTE` statement. Or, a query cannot be executed by the `EXECUTE IMMEDIATE` statement.

S: Ignores this SQL statement.

P: Modify the UAP so that the SQL statements are executed in the following order, then re-execute:

1. Cursor declaration or cursor assignment
2. `OPEN` statement
3. `FETCH` statement
4. `CLOSE` statement

KFPA11507-E A

aa....aa cursor for SQL except query

aa....aa: {Declare|Allocate}

aa....aa is Declare:

There is a cursor declaration (`DECLARE CURSOR`) for an SQL statement that is not a query.

aa....aa is Allocate:

There is a cursor assignment (`ALLOCATE CURSOR`) for an SQL statement that is not a query.

S: Ignores this SQL statement.

P:

aa....aa is Declare:

Revise the UAP to change the SQL statement that declares a cursor into a query, or delete the cursor declaration from the non-query SQL statement, and re-execute.

aa....aa is Allocate:

Revise the UAP to change the SQL statement that assigns a cursor into a query, or delete the cursor declaration from the non-query SQL statement, and re-execute.

KFPA11508-E A

Invalid use of "*aa....aa*" statement

An attempt was made to execute an SQL statement other than CALL or one row SELECT with an EXECUTE or EXECUTE IMMEDIATE statement that has an INTO clause.

aa...aa: {EXECUTE | EXECUTE IMMEDIATE}

S: Ignores this SQL statement.

P: Revise the usage of the EXECUTE or EXECUTE IMMEDIATE statement, and re-execute. If an SQL statement other than CALL or a one row SELECT statement is executed by the EXECUTE or EXECUTE IMMEDIATE statement, revise it into an EXECUTE or EXECUTE IMMEDIATE statement without INTO, and re-execute.

KFPA11511-E A

Unmatched RDAREA status or generation number between number "*aa*" of "*bbbb*" RDAREA "*cc...cc*" and number "*dd*" of table RDAREA "*ee...ee*"

The statuses of RDAREA "*cc...cc*" for storing "*bbbb*" and RDAREA "*ee...ee*" for storing tables do not match. Or, generation "*aa*" and generation "*dd*" do not match.

aa: Generation number of the RDAREA for user LOB or the RDAREA for index storage

bbbb: Storage data type of the RDAREA:

{ INDEX | LOB }

cc...cc: Name of the original RDAREA for the user LOB or the name of the original RDAREA for storing indexes

dd: Generation number of the RDAREA for storing tables

ee...ee: Name of the original RDAREA for storing tables

S: Ignores the transaction.

O: Contact the HiRDB administrator.

Actions

Perform one of the following actions to solve the problem:

- If the generations of the RDAREA for storing tables and the RDAREA for user LOB, or the RDAREA for storing indexes, do not match during the current access:

Execute the `pddbchg` command and match up the generation numbers of the RDAREA for user LOB or the RDAREA for storing indexes and the RDAREA for storing tables.

- If the replica RDAREA of the specified generation is not created in the applicable RDAREA:

Execute the `pdmmod` command to create a replica RDAREA.

- If the generation numbers of the RDAREA for storing tables and the RDAREA for user LOB do not match:

The statuses of the RDAREA for displaying tables and the RDAREA for user LOB do not match. Execute the `pddbchg` command and change the status of the RDAREA for storing tables and the RDAREA for user LOB to the current status or another status.

KFPA11512-E A

Invalid request for executing of SQL except query

A non-query SQL statement for which preprocessing was executed with the `PREPARE` statement cannot be executed by the `OPEN`, `FETCH`, or `CLOSE` statement.

S: Ignores this SQL statement.

P: Modify the UAP so that the SQL statement is executed with the `EXECUTE` statement, then re-execute. If the specified cursor is invalid, correct the cursor name and re-execute.

KFPA11513-E A

Unable to execute definition SQL due to *aa....aa bb....bb*. "*cc....cc*" using replicated RDAREA *dd....dd*

The following definition SQLs cannot be executed because the RDAREA for storing tables or indexes is using the inner replica function:

- ALTER TABLE
- CREATE INDEX
- DROP INDEX
- DROP SCHEMA
- DROP TABLE

aa....aa: {TABLE | INDEX}

bb....bb: Authorization identifier

cc....cc: Table identifier when *aa....aa* is TABLE, or index identifier when *aa....aa* is INDEX

dd....dd: The RDAREA name

S: Ignores this SQL statement.

P: Cancel application of the inner replica function and re-execute.

KFPA11514-E A

Unable to execute "SET SESSION AUTHORIZATION" statement, due to *aa....aa*

The user cannot be changed for one of the following reasons:

- Transaction has already started.
- A holdable cursor is open.
- A lock is applied using the LOCK statement with the UNTIL DISCONNECT specification.
- Connected to a distributed RD node.
- This is not executed first in a transaction.

aa....aa: One of the following:

```
{ ACTIVE TRANSACTION | HOLDABLE CURSOR
  | LOCK WITH UNTIL DISCONNECT
  | DISTRIBUTED DATABASE ACCESS | NON-FIRST EXECUTION }
```

S: Ignores this SQL statement.

P: Correct the UAP and re-execute.

KFPA11528-E A

aa....aa bb....bb.cc....cc (dd....dd) not executable due to invalid SQL OBJECT
The SQL object is invalid; the routine cannot be executed.

aa....aa: Routine type

```
{ Procedure | Function }
```

bb....bb: Authorization identifier

cc....cc: Routine identifier

dd....dd: Special name

S: Ignores this SQL statement or invalidates the transaction.

P: Resolve the cause of the error (table, index, or definition changes), redefine the procedure, and then re-execute.

KFPA11529-E A

aa....aa bb....bb.cc....cc invokable for specified arguments not found in system

The procedure specified in any of the following SQL statements was not found in the HiRDB system, or a callable routine did not exist:

- DROP PROCEDURE
- DROP FUNCTION
- ALTER PROCEDURE
- CALL statement
- Function invocation (user-defined function, system-defined function)

- CREATE INDEX TYPE

The CALL statement or function invocations cannot call encapsulated routines.

A routine cannot be called if the number of arguments in the CALL statement and the function invocation does not match the number of parameters in the routine. A function cannot be called that has as a corresponding parameter a data type that is higher in priority than the data type of the argument.

For rules about determining the function to be called, see the *HiRDB Version 8 SQL Reference*.

For a CALL statement, a routine cannot be called if the data type of the argument of the statement is incompatible with the data type of the parameter of the routine.

aa...aa: Routine type
{ Procedure |Function }

bb...bb: Authorization identifier

cc...cc: Routine identifier

S: Ignores this SQL statement or invalidates the transaction.

P:

Execution of a CALL statement or a function invocation (user-defined function):

Check that there are no errors in any of the specifications listed as follows:

- Authorization identifier
- Routine identifier
- Number of arguments
- Data types of arguments

If there are no errors, redefine the procedure by using CREATE PROCEDURE or CREATE FUNCTION, as appropriate, and then re-execute.

If there is an encapsulation level error in part of the routine definition, use CREATE TYPE to redefine the routine, and then re-execute.

Function invocation (system-defined function):

Check that the following specifications are correct:

- Authorization identifier
- Routine identifier
- Argument count
- Argument data type

During execution of `DROP PROCEDURE`:

Check that there are no errors in the specified authorization identifier or the routine identifier.

During execution of `ALTER PROCEDURE`:

Check that there are no errors in the specified authorization identifier or the routine identifier. If there are no errors, use `CREATE PROCEDURE` to redefine the procedure.

During execution of `DROP FUNCTION`:

Check that there are no errors in the specified authorization identifier, the routine identifier, the number of arguments, or the data types of the arguments.

During execution of `CREATE INDEX TYPE`:

Check there are no errors in any of the following specifications:

- Authorization identifier
- Routine identifier
- Number of arguments
- Data types of arguments

If there are no errors, redefine the function by using the `CREATE FUNCTION` or `CREATE DATA TYPE` statement as appropriate.

KFPA11530-E A

SQL OBJECT not executable *aa...aa*, size=*bb...bb*

The specified SQL object cannot be executed because the transfer size of that SQL object exceeds 1 MB.

aa...aa: Reason the SQL object cannot be executed:

TRANSFER MAX SIZE: Transfer size of SQL object exceeds the maximum.

bb...bb: Transfer size that exceeds 1 MB

S: Invalidates the transaction.

P: Correct the SQL so that the SQL object transfer size is within 1 MB and re-execute.

KFPA11531-E A

SQL OBJECT CACHE currently full, server=*aa...aa*, info=*bb...bb*

The buffer for the SQL object is full; the SQL object cannot be executed.

aa...aa: Name of the server that has a buffer space shortage

bb...bb: Information about shortage resources

```
{ Numeric value, "SQL OBJECT MANAGEMENT", "ACTIVE LIST" }
```

S: Does not execute the SQL object, or invalidates the transaction.

P: Notify the HiRDB administrator to increase the value of `pd_sql_object_cache_size`. Or, based on shortage resources information, take the following actions:

If resources information is a numeric value:

Revise the SQL so that the SQL object length is less than the SQL object buffer size. (When calling a procedure or a function, re-create the procedure or the function to reduce its SQL object length.)

If resources information is "SQL OBJECT MANAGEMENT":

Reduce the number of UAPs that are concurrently executed. Alternatively, reduce the number of SQL statements, procedures, or functions that are executed per transaction.

If resources information is `ACTIVE LIST`:

Reduce the number of SQL statements, procedures, or functions that are executed per transaction. Or, increase the value of `pd_max_access_tables`.

Action

Estimate the required size for the SQL object buffer, and then increase the `pd_sql_object_cache_size` value for the affected server or system.

KFPA11537-E A

Unable to execute specified ROUTINE due to invalid SQL OBJECT

The specified routine does not contain the information necessary for delayed batch creation of a plug-in index. Therefore, the delayed batch creation of the plug-in index cannot be performed.

S: Invalidates the transaction.

P: If the delayed batch creation of a plug-in index is not required, specify `PDPLGIXMK=NO` in the client environment definition.

Action

If the delayed batch creation of a plug-in index is required, execute either `ALTER ROUTINE` or `ALTER PROCEDURE` on all routines that update the plug-in index.

KFPA11546-E A

Unable to assign LIST due to executing "pdmod"

List creation or retrieval cannot be executed because the RDAREA storing the base table from which the list to be created is being initialized by the database structure

modification utility.

S: Ignores this SQL statement.

O: Re-execute after the processing by the database structure modification utility has finished.

KFPA11547-E A

Unable to define view from "SQL_USERS"

A view table cannot be defined using the SQL_USERS table of the dictionary table as a base.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11548-E A

Unable to execute *aa....aa*:no *dd....dd* privilege for table *bb....bb.cc....cc*

One of the following errors has occurred:

- There is no *dd....dd* privilege for the applicable table; SQL statement *aa....aa* cannot be executed.
- If CREATE VIEW is displayed in *aa....aa* when the Directory Server linkage facility is being used, CREATE VIEW cannot be executed because of the lack of the SELECT privilege on the base table for the work table. Even if the user has the SELECT privilege for the group or role in which he belongs, a viewed table cannot be defined using the privilege.

If the optimizing information collection utility (pdgetcst) is being used, the user does not have the SELECT privilege for the table to be processed.

aa....aa: SQL statement to be executed

bb....bb: Authorization identifier

cc....cc: Table identifier

dd....dd: Required access privilege

If the user attempted to execute LOCK TABLE with EXCLUSIVE specified and does not have the DELETE, INSERT, or UPDATE privilege, UPDATE is displayed for *dd....dd*.

S: Ignores this SQL statement.

P:

Acquire the required access privilege and re-execute.

When using the Directory Server linkage facility and CREATE VIEW is displayed in *aa....aa*, request the owner of the view table base table to grant base table

SELECT privileges.

O: If the optimizing information collection utility (`pdgetcst`) is being executed, make sure the user has the SELECT privilege for the table that is to be processed.

KFPA11549-E A

Invalid authorization identifier *aa...aa*

PUBLIC, MASTER, HiRDB, or ALL is specified as the authorization identifier, group ID, or role name. The following are examples of incorrect use of the authorization identifier:

- An attempt was made to connect to the HiRDB server by specifying one of these character strings as the authorization identifier.
- An attempt was made to create (or delete) a base table or view table identified by an authorization identifier consisting of one of these character strings.
- An attempt was made to delete a table identified by an authorization identifier consisting of one of these character strings.
- An attempt was made to update a table identified by an authorization identifier consisting of one of these character strings.
- An attempt was made to create (or delete) a procedure of a function identified by an authorization identifier consisting of one of these character strings.
- An attempt was made to re-create a procedure of a function identified by an authorization identifier consisting of one of these character strings.
- An attempt was made to create (or delete) a data type or index type identified by an authorization identifier consisting of one of these character strings.
- An attempt was made to update a data type or index type identified by an authorization identifier consisting of one of these character strings.
- An attempt was made to search a table whose authorization identifier is HiRDB.
- One of these character strings was specified as the user's authorization identifier to define a privilege (GRANT) or revoke a privilege (REVOKE).

aa...aa: PUBLIC, MASTER, HiRDB, or ALL

S: Ignores this SQL statement.

P: Correct the authorization identifier and re-execute.

KFPA11550-E A

Unable to access MASTER.*aa...aa* without DBA or Auditor privilege

Only users with DBA privileges or auditor privileges can access dictionary table *aa...aa*.

aa...aa: Table identifier of the dictionary table to be accessed

S: Ignores this SQL statement.

P: Check the table identifier of the dictionary to be accessed for an error. If there is an error, correct the error and re-execute. If there is no error, contact the HiRDB administrator and request DBA privileges or auditor privileges as necessary.

KFPA11551-E A

Unable to execute *aa....aa* due to lack of privilege for table *bb....bb*. "*cc....cc*"

The SQL statement indicated by *aa....aa* cannot be executed because the executor is not the table owner.

Or, a privilege that has not been granted to the executor cannot be granted to other users.

aa....aa: SQL statement that cannot be executed:

- grant table access privilege: Grant access privilege for a table.
- revoke table access privilege: Revoke access privilege for a table.

bb....bb: Authorization identifier

cc....cc: Table identifier

S: Ignores this SQL statement.

Action

In the case of a GRANT or REVOKE statement, execute this SQL statement for a table the user owns. In addition, correct the SQL statement so that only the SELECT privilege is added to the read-only view table.

KFPA11552-E A

Unable to execute "*aa....aa*" due to lack of privilege

SQL statement *aa....aa* cannot be executed, because the user does not have the DBA privilege.

Or, the SQL statement displayed in "*aa....aa*" cannot be executed because the password of the DBA privilege holder is not registered in HiRDB.

aa....aa: SQL statement that cannot be executed:

- CREATE ALIAS
- DROP ALIAS
- GRANT DBA
- GRANT CONNECT
- GRANT RDAREA
- GRANT SCHEMA

2. Messages

- REVOKE DBA
- REVOKE CONNECT
- REVOKE RDAREA
- REVOKE SCHEMA
- CREATE SERVER
- CREATE USER MAPPING
- DROP SERVER
- DROP USER MAPPING

S: Ignores this SQL statement.

P:

To execute this SQL statement, acquire the DBA privilege and re-execute.

Or, register the password of the DBA privilege holder in HiRDB and then execute this SQL statement.

KFPA11553-E A

Unable to execute function IS_USER_CONTAINED_IN_HDS_GROUP

The IS_USER_CONTAINED_IN_HDS_GROUP scalar function cannot be executed.

Following are possible explanations for this error:

1. When specifying columns in a value expression, columns other than dictionary table columns cannot be specified.
2. Multiple table columns were specified in the value expression. When performing an OR operation for the predicate in which this scalar function is specified, you cannot specify multiple table columns in the OR operation. Here, an AND operation negated by NOT is also considered to be an OR operation.
3. This scalar function cannot be specified in a search that uses a list.
4. This scalar function cannot be specified in a selection expression or HAVING clause.
5. When specifying this scalar function as the ON search condition for a joined table with an outer join, columns of the outer table cannot be specified in the value expression.
6. When a joined table with an outer join is specified in a FROM clause and this scalar function is specified in a WHERE clause, columns of the inner table with an outer join cannot be specified.
7. The following cannot be specified when no dictionary table column is specified in the value expression:

- Multiple tables in the FROM clause
- ORDER BY
- DISTINCT
- GROUP BY
- Set function
- FOR UPDATE
- FOR READ ONLY

8. More than one dictionary table was specified in the FROM clause.

9. The length of the group ID or role name exceeded the limit.

S: Ignores this SQL statement.

P: Determine the reason for the error; if applicable, correct the SQL statement and re-execute.

KFPA11554-E A

Unable to grant privilege to yourself

The user cannot grant a privilege to himself/herself.

S: Ignores this SQL statement.

Action

Change the user's authorization identifier specified in the TO clause and re-execute.

KFPA11555-E A

Unable to revoke privilege from yourself

The user cannot revoke his/her own privilege.

S: Ignores this SQL statement.

Action

Change the user's authorization identifier specified in the FROM clause and re-execute.

KFPA11556-E A

Unable to execute *aa...aa* table access privilege *bb...bb* table owner

The list of authorization identifiers specified in the GRANT statement (privilege definition) or REVOKE statement (privilege revocation) contains the table owner's authorization identifier.

aa...aa: Erroneous SQL statement:

```
{ GRANT | REVOKE }
```

bb...bb: Erroneous specification in SQL statement:
{ TO | FROM }

S: Ignores this SQL statement.

Action

A table owner cannot grant a privilege to himself/herself or revoke his/her own privilege. Therefore, delete the table owner's authorization identifier from the TO or FROM clause and re-execute.

KFPA11558-E A

pdvtrup command not executed

An attempt was made to upgrade the HiRDB version, but a UAP or utility could not be executed because the *pdvtrup* command had not been executed.

S: Causes an error for this SQL statement.

O: Execute the *pdvtrup* command.

KFPA11559-E A

Unable to grant privilege to unauthorized user *aa...aa*

The schema definition privilege cannot be granted to a user who does not have the CONNECT privilege.

When using the Directory Server linkage facility, DBA privileges or schema definition privileges cannot be granted to a user who is not registered in the directory server.

aa...aa:

- Authorization identifier of the user who does not have the CONNECT privilege
- Authorization identifier of user who is not registered in the Directory Server

S: Ignores this SQL statement.

Action

Check if the specified authorization identifier *aa...aa* is correct. If it is not correct, correct it and re-execute the SQL statement.

If the authorization identifier is correct, grant CONNECT privileges to authorization identifier *aa...aa* and re-execute. When using the Directory Server linkage facility, register the user of authorization identifier *aa...aa* on the Directory Server and re-execute.

KFPA11560-E A

Invalid password for authorization identifier *aa...aa*

The specified password is not the correct password for authorization identifier *aa...aa*.

When using the Directory Server linkage facility, the specified password either differs from the password registered in the Directory Server, or the password has expired. If this message is output when accessing the table, either the password attribute in the user information on the Directory Server has been modified since the user previously connected to HiRDB, or the password has expired.

aa....aa: Authorization identifier for which an invalid password was specified

S: Ignores this SQL statement.

However, if a utility is being executed, processing is terminated.

P:

When this message is output during an attempt to connect to HiRDB, specify the correct password and re-execute.

In the Windows version of HiRDB

When executing a utility with *-u authorization-identifier* specified, note the following point:

- To enter a password as a response, there is no need to enclose the character string in backslashes (\). Enclosing it in backslashes is correct for the command line entry, but it is not necessary in the response format.

When using the Directory Server linkage facility

If the password registered in the Directory Server has expired, reset the password on the Directory Server and re-execute.

If this message is output when accessing a table, first disconnect from HiRDB. Then, specify the authorization identifier and password currently registered on the Directory Server and re-execute.

KFPA11561-E A

Specified authorization identifier *aa....aa* has no connect privilege

Specified authorization identifier *aa....aa* does not have the CONNECT privilege.

When using the Directory Server linkage facility, the user is not registered on the Directory Server. If this message is output when accessing a table, the user information was deleted from the Directory Server since the user previously connected to HiRDB.

aa....aa: Authorization identifier without the CONNECT privilege

S: Ignores this SQL statement; however, if a utility is being executed, processing is terminated.

Action

Ask a user who has the DBA privilege to grant you the `CONNECT` privilege, and re-execute.

Also, when a utility in which `-u authorization-identifier` is specified is executed, also check the following:

- If `-u` was omitted, as well as the `PDUSER` environment variable, the user ID entered at the time of logging in is assumed as the authorization identifier. Check this user ID for any error.
- When an authorization identifier or password is entered in lower case letters to specify a utility or command option, it must be enclosed in double quotes. In this case, to ensure that the shell or other interpreter does not remove the quotes before passing the specified value to the utility, attach `\` or `'`.

Examples

```
pddbst -u \"hitachi\" -p \"hitachi\"
pddbst -u 'hitachi' -p 'hitachi'
```

To use the Directory Server linkage facility, request the system administrator for the Directory Server to register the user.

KFPA11562-E A

Unable to *bb...bb* connect privilege due to *aa...aa*

The `CONNECT` privilege cannot be revoked due to *aa...aa*.

`CONNECT` privileges are not granted when the Directory Server linkage facility is being used.

aa...aa:

DBA privilege: DBA privilege

schema: Schema

using directory server: Directory Server linkage facility

bb...bb: revoke or grant

S: Ignores this SQL statement.

Action

Take one of the following actions:

- When *bb...bb* is revoke
Delete the DBA privilege or schema privilege and re-execute.
- When *bb...bb* is grant
Register the user on the Directory Server.

KFPA11563-E A

Unable to execute SQL before CONNECT

An SQL statement was executed before executing the CONNECT statement.

S: Terminates processing.

P: Check the program for an error in the SQL statement issuance order, correct the error, then re-execute.

If there is no error in the order in which SQL statements are issued, it is possible that the HiRDB server was disconnected during the execution of the SQL statement before the message was output. Determine whether an error message was returned during the execution of the SQL statement before the message was output.

KFPA11564-E A

Invalid authorization identifier *aa....aa*

Authorization identifier *aa....aa* contains a syntax error. Or, the length of the authorization identifier exceeds 8 characters.

If the specified authorization identifier contains a non-display character, *aa....aa* may not be displayed correctly.

aa....aa: Authorization identifier containing a syntactical error or authorization identifier that is longer than 8 characters

S: Ignores this SQL statement.

P:

Correct the authorization identifier and re-execute.

In the Windows version of HiRDB

When executing a utility with a *-u authorization-identifier* specified, note the following point:

- If *-u* was omitted as well as the *PDUSER* environment variable at the utility prompt, the user ID entered at the time of logging into Windows is assumed as the authorization identifier. Check this user ID for any error.

KFPA11565-E A

aa....aa bbbb call parameter *cc....cc*

If *aa....aa* is Invalid

cc....cc required for the processing requested by operation code *bbbb* is not set correctly.

If *aa....aa* is Unexpected

Requested data cannot be set in the area specified by parameter *cc....cc*.

Data cannot be requested by the DESCRIBE call unless it was requested during preprocessing call. Data cannot be set if it was already set by the DESCRIBE call during preprocessing.

aa....aa: Type of preprocessing:
 { Invalid | Unexpected }

bbbb: Operation code (4 characters):
 { AUX | AUXI | AUXO | DESC | DEST | FETC | HVAR | OPEN | OPNR | RSDC
 | RSFT }

cc....cc: Name of the SQL Data Area field

S: Ignores this request.

P:

aa....aa is Invalid

Perform the following action, and then re-execute the UAP:

- *cc....cc* is SQLIASDA or sqliasda

Take one of the following actions depending on the value of the operation code (*bbbb*):

Operation code (bbbb)	Action
FETC or RSFT	Specify the SQL descriptor area name that sets the information required for retrieval.
DESC, DEST, HVAR, or RSDC	Specify the SQL descriptor area name that receives the information.
OPEN, OPNR, AUX, AUXI, or AUXO	Specify the SQL descriptor area name that sets the input ? parameter information.

- *cc....cc* is SQLIASDA2

Specify the SQL descriptor area name that sets the output ? parameter or the information required for retrieval.

aa....aa is Unexpected

If the data is required, request it by a preprocessing call. If the data has already been acquired, set 0 in SQL Data Area *cc....cc* and re-execute the UAP.

KFPA11569-E A

Directory server error occurred on *aa....aa*, func=*bb....bb*
 errno=*cc....cc*, *dd....dd*

During *aa....aa* processing, an error was returned from the HiRDB LDAP Option API used by the Directory Server linkage facility.

aa....aa: Name of process in which the error occurred

bb....bb: API name when the error occurred

cc....cc: Detailed error code

- 10: User is not registered.
- 11: Duplicate user names are registered on the Sun Java System Directory Server.
- 20: The role name is not registered.
- 21: Duplicate role names are registered on the Sun Java System Directory Server.
- 30: The specified user does not belong to the specified role.
- 40: There is no HiRDB LDAP Option environment definition file.
- 41: There are no access privileges to the HiRDB LDAP Option environment definition file.
- 42: Failed to open or close the HiRDB LDAP Option environment definition file (for details, see message KFPD00027-E).
- 43: Error occurred when reading the HiRDB LDAP Option environment definition file (for details, see message KFPD00027-E).
- 44: Operand required in the HiRDB LDAP Option environment definition was not specified.
- 50: There is no Runtime library in the specified path.
- 51: An error occurred when loading the Runtime library (for details, see message KFPD00027-E).
- 60: Insufficient memory.
- 90: The value (maximum wait time) of the NETWORKTIMELIMIT operand of the HiRDB LDAP Option environment definition was exceeded.
- 92: An unexpected error occurred.
- 99: Other error (for details, see message KFPD00027-E).

dd....dd: Role name

- When *bb....bb* is `p_f_dic_ismatchrulebyid`, the role name for where the error occurred is output.
`roleid=role-name`
- Blank in all other cases.

S: Ignores this SQL statement.

P: Take the following action according to the detailed error code. Also, see message KFPD00027-E.

Action

When the API name is `ldap_XXXXXX`, see the Sun Java System Directory Server documents, and take the action appropriate for the detailed error code.

For detailed error code 42, 43, 51, 60 or 99, follow the instructions in message KFPD00027-E.

Contact a customer engineer when the detailed error code is 92.

KFPA11570-E A

More than 1600 authorization identifiers in "*aa...aa*" statement

More than 1600 authorization identifiers were specified in the GRANT statement (privilege definition) or REVOKE statement (privilege revocation) (maximum of 1600 authorization identifiers can be specified).

aa...aa: Invalid SQL statement:
{ GRANT | REVOKE }

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11571-E A

Password not specified for *aa...aa*

No password was specified for the authorization identifier to which DBA privilege is to be granted. Or, an attempt was made without specifying the correct password to change the password for the authorization identifier to which DBA privilege has been granted.

aa...aa: Authorization identifier for which no password was specified or that is to be changed

S: Ignores this SQL statement.

P: Specify the password and re-execute.

KFPA11572-E A

Duplicate access privilege "*aaaaaa*" in "*bb...bb*" statement

A duplicate access privilege was specified in the GRANT or REVOKE statement.

aaaaaa: Duplicate access privilege:
{ SELECT | UPDATE | INSERT | DELETE }

bb...bb: SQL statement to be executed:
{ GRANT | REVOKE }

S: Ignores this SQL statement.

P: Delete the duplicate access privilege and re-execute.

KFPA11573-E A

Privilege error

For the reasons given below, none of the following actions can be performed on another user: creating a schema, deleting a schema, re-creating a procedure, or re-creating a trigger SQL object.

- The executing user does not have the DBA privilege.
- The user who is to create a schema does not have the DBA or CONNECT privilege.
- The password of the DBA privilege holder is not registered in HiRDB.

S: Ignores this SQL statement.

Action

Take one of the following actions:

- Have a user with DBA privilege grant the DBA privilege, and re-execute the SQL statement.
- Grant the DBA or CONNECT privilege to the user who will create a schema, and re-execute the SQL statement.
- Register the password of the DBA privilege holder in HiRDB.

KFPA11574-E A

Duplicate RDAREA "aa....aa"

One of the following errors was detected:

- The same RDAREA name is specified more than once in the primary key definition of CREATE TABLE cluster key definition for the table storage RDAREAs, LOB column storage RDAREAs, or LOB attribute storage RDAREAs.
- The same RDAREA name is specified more than once in CREATE INDEX.
- An attempt was made with ALTER TABLE to add the RDAREA in which this table is already stored.
- An attempt was made with ALTER TABLE ADD RDAREA to add the RDAREA in which is already stored an index, primary key, or cluster key that is defined for this table.

aa....aa: Duplicate RDAREA name

S: Ignores this statement.

P: Delete or correct the duplicate RDAREA name and re-execute. Or, for ALTER

TABLE, specify another RDAREA name and re-execute.

KFPA11576-E A

Unable to revoke RDAREA use privilege for "*aa...aa*" due to *bbbb*
cc...cc. "*dd...dd*"

The RDAREA usage privilege cannot be revoked, because the specified RDAREA contains a table or index.

aa...aa: RDAREA name

bbbb: Object of processing:
{ table |index }

cc...cc: Authorization identifier of the table or index in the RDAREA

dd...dd: Table identifier or index identifier in the RDAREA

S: Ignores this SQL statement.

Action

Delete the table or index from the RDAREA and re-execute.

KFPA11577-E A

Unable to revoke schema privilege due to table/routine existence

Because a table or routine is defined in a schema, the schema definition privilege cannot be revoked.

S: Ignores this SQL statement.

P: Delete the table, routine, or schema, then re-execute.

KFPA11578-E A

Unable to have two attributes (public,private) for RDAREA "*aa...aa*"

An attempt was made with GRANT RDAREA to change an RDAREA to be both a public and a private user RDAREA.

aa...aa: Name of the RDAREA resulting in the error

S: Ignores this SQL statement.

Action

To change a public user RDAREA to a private user RDAREA, execute REVOKE RDAREA *RDAREA-name* FROM PUBLIC and re-execute.

To change a private user RDAREA to a public user RDAREA, execute REVOKE RDAREA *RDAREA-name* FROM *authorization-identifier* and re-execute.

KFPA11579-E A

Unable to create *aa...aa* without schema privilege

A schema or table alias cannot be defined because the user does not have the schema

definition privilege.

aa....aa: Invalid SQL statement
 { schema | alias }

S: Ignores this SQL statement.

P: Ask a user with the DBA privilege to grant the schema definition privilege to this user, then re-execute.

KFPA11580-E A

Unable to drop *aa....aa."bb....bb"*

The routine *aa....aa."bb....bb"* defined in the create type statement, cannot be deleted by itself.

aa....aa: Authorization identifier

bb....bb: Routine identifier

S: Ignores this SQL statement.

P: If there is an error in the specification of the routine, correct the specification and re-execute. Or, execute the SQL that deletes the abstract data type definition that includes the specified routine.

KFPA11583-E A

Specified ROUTINE *aa....aa."bb....bb"* not available for index

A plug-in index cannot be applied to the routine *aa....aa."bb....bb"*. Functions to which a plug-in index can be applied are those that are installed in a plug-in for which SCAN TYPE is specified in the operation qualifier for the plug-in IDL.

aa....aa: Authorization identifier

bb....bb: Routine identifier

S: Ignores this SQL statement.

P: Correct the specification of the applied function (FOR clause), and re-execute the index definition statement.

KFPA11584-E A

aa....aa "bb....bb" not available for index

The *aa....aa "bb....bb"* specified as an object of indexing does not match the index type.

aa....aa: Type of the target item
 { COLUMN }

bb....bb: Column or attribute name

S: Ignores this SQL statement.

P: Either change the target column specification or the specification for the index type to be used. Revise the SQL statement so that the target column and the index type are correctly associated, and then re-execute.

KFPA11585-E A

More than 16 RDAREAs in "aa...aa" RDAREA statement

More than 16 RDAREA names were specified in the GRANT RDAREA or REVOKE RDAREA statement (a maximum of 16 RDAREA names can be specified).

aa...aa: Invalid SQL statement:
{ GRANT | REVOKE }

S: Ignores this SQL statement.

Action

Correct the SQL statement and re-execute.

KFPA11590-E A

Number of specified authorization identifiers not equal to number of password in "GRANT" statement

The number of authorization identifiers specified in the GRANT statement does not match the number of passwords.

S: Ignores this SQL statement.

Action

Correct the SQL statement and re-execute.

KFPA11591-E A

Unable to specify "NULL" for "FIX" table

NULL cannot be specified in the column definition for a table for which FIX is specified.

S: Ignores this SQL statement.

Action

Either delete the FIX specification or delete the NULL specification from the column definition, then re-execute.

KFPA11592-E A

Unable to specify "NULL" for cluster key column or primary key column

NULL cannot be specified in the column definition for a column for which the single-column or multicolumn uniqueness constraint is specified.

S: Ignores this SQL statement.

Action

Delete the column for which NULL was specified from the single-column or multicolumn uniqueness constraint definition or delete the NULL specification from the column definition, then re-execute.

KFPA11595-E A

Duplicate parameter name "*aa....aa*"

Duplicate parameter names are specified in CREATE PROCEDURE, CREATE FUNCTION, or CREATE TYPE.

aa....aa: Duplicated parameter name

S: Invalidates this transaction.

P: Change the parameter name and re-execute.

KFPA11596-E A

No RDAREA for routine definition

A data dictionary LOB RDAREA is not defined; therefore, the following SQL statements cannot be executed:

- ALTER PROCEDURE
- ALTER ROUTINE
- ALTER TRIGGER
- CALL statement
- CREATE FUNCTION
- CREATE PROCEDURE
- CREATE TRIGGER
- CREATE TYPE
- DROP FUNCTION
- DROP PROCEDURE
- Function invocation

S: Ignores this SQL statement.

P: Allocate a data dictionary LOB RDAREA with the database initialization utility (pdinit) or the database structure modification utility (pdmod) and re-execute the SQL.

KFPA11597-E A

Unable to alter table for "*aa....aa*" column

In ALTER TABLE, columns for which data type *aa....aa* is specified cannot be deleted.

aa....aa:

2. Messages

- BLOB
- abstract data (abstract data type)

S: Ignores this SQL statement.

P: To modify the definition of the table, delete the table with `DROP TABLE`, then create a new table with `CREATE TABLE`.

KFPA11599-E A

Specified RDAREA not for "LOB"

The specified RDAREA is not user LOB RDAREA.

S: Ignores this SQL statement.

P: Specify a user LOB RDAREA and re-execute.

KFPA11600-E A

Routine *aa...aa.bb...bb* already specified for another index

Another plug-in index is already applied to the routine *aa...aa.bb...bb*.

aa...aa: Authorization identifier

bb...bb: Routine identifier

S: Ignores this SQL statement.

P: Either change the specification for the applied function or specify the target function, delete the defined index, and then re-execute.

KFPA11601-E A

Duplicate *aa...aa.bb...bb.cc...cc*

The following table identifier, index identifier, routine identifier, trigger identifier, constraint name, data type identifier, index type identifier, or table alias specified in the SQL statement is already defined:

- ALTER TABLE
- CREATE ALIAS
- CREATE FOREIGN INDEX
- CREATE FOREIGN TABLE
- CREATE FUNCTION
- CREATE INDEX
- CREATE INDEX TYPE
- CREATE PROCEDURE
- CREATE TABLE

- CREATE TRIGGER
- CREATE TYPE
- CREATE VIEW

aa....aa: The SQL statement to be executed
 {alias |constraint|datatype |index
 |indextype |routine |table |trigger}

bb....bb: Authorization identifier

cc....cc: Table identifier, index identifier, routine identifier, table alias, trigger identifier, constraint name, data type identifier, or index type identifier

S: Ignores this SQL statement.

P: Change the table identifier, index identifier, routine identifier, table alias, trigger identifier, constraint name, data type identifier, or index type identifier, and re-execute.

KFPA11602-E A

Over 30000 defined columns in table

The total number of columns for a table exceeded the maximum (30,000).

S: Ignores this SQL statement.

P: If there is an error in the specified SQL statement, correct the error and re-execute. Or, redesign the table so that the number of columns does not exceed 30,000.

KFPA11603-E A

Duplicate key value detected in unique index while creating index

An attempt was made to create an index with `UNIQUE` specified, but a duplicate column value was found in the table data.

S: Disables this transaction.

P: Correct the duplicate column value in the table and re-create the index with `UNIQUE` specified. Or, delete the `UNIQUE` specification, if possible, and create the index by the batch method.

KFPA11604-E A

Invalid length, precision or scale in column definition, column=
aa....aa "*bb....bb*" *cc....cc*

The data type length, precision, or scaling factor specified in one of the following locations contains an error:

- In a column, SQL parameter, SQL variable, or attribute definition
- In a function specification in `DROP FUNCTION`
- In the `RETURNS` clause of `CREATE FUNCTION`

2. Messages

- In the AS clause in an argument in a function invocation
- The AS clause of a CAST specification
- CURRENT_TIMESTAMP
- AS clause for the ? parameter or embedded variable

aa....aa: See below.

bb....bb: See below.

cc....cc: See below.

S: Ignores this SQL statement.

P:

Correct the length, precision, or scale and re-execute.

Following is the correspondence between the invalid data type specification locations and items *aa....aa*, "*bb....bb*", and *cc....cc*:

Data type specification location	<i>aa....aa</i>	" <i>bb....bb</i> "	<i>cc....cc</i>
Column definition	definition of column	Column name	—
SQL parameter declaration	declaration of SQL parameter	SQL parameter name	—
SQL variable declaration	declaration of SQL variable	SQL variable name	—
Attribute definition	definition of attribute	Attribute name	—
In a DROP FUNCTION function specification	function specification	function name	(<i>n</i> th argument)
RETURNS clause of the function body	RETURNS clause in function definition	function name	—
AS clause in an argument for the function invocation	function invocation	function name	(<i>n</i> th argument)
AS clause of a CAST specification	AS clause in CAST specification	*****	—
CURRENT_TIMESTAMP	CURRENT_TIMESTAMP	*****	—
AS clause specified for the ? parameter or embedded variable	AS clause for ? parameter or embedded variable	*****	—

— : Not applicable

KFPA11605-E A

Unable to specify "SUPPRESS" for "FIX" table
 SUPPRESS cannot be specified for a table with the FIX attribute.

S: Ignores this SQL statement.

P: Delete the specification of SUPPRESS or the specification of FIX, then re-execute.

KFPA11606-E A

Unable to specify ALIAS for table in local RDNODE
 A table alias cannot be defined for a table or view of a local RD-node.

S: Ignores this SQL statement.

P: Change the RD-node name and re-execute.

KFPA11607-E A

Unable to use definition SQL on other user's *aa....aa*

The following processing cannot be executed:

- Creation of a base table, view table, external table, index, and external index to be owned by another user
- Deletion of a base table, view table, or index owned by another user
- Modification to the definition of a base table owned by another user
- Addition of a comment to a base table, view table, and external table owned by another user
- Creation or deletion of a procedure owned by another user
- Creation of a foreign table on a foreign server owned by another user
- Creation or deletion of a function owned by another user
- Creation or deletion of a data type owned by another user
- Creation or deletion of an index type owned by another user
- Modification of a data type owned by another user
- Modification of an index type owned by another user
- Definition or deletion of a trigger owned by another user

In the Windows version of HiRDB, this message is also output if the authorization identifier specified in a table in a definition SQL is different from the authorization identifier that was used for connecting. In the case of a utility, such as the database definition utility (*pddef*), that does not require entry of an authorization identifier for connection, check the PDUSER value of the client environment definition (*hirdb.ini*). The entire PDUSER value must be enclosed in apostrophes (') in the environment definition (*hirdb.ini*).

Example

```
PDUSER=' "root"/"root" '
```

aa...aa: {table|index|procedure|foreign
server|trigger|function|datatype|indextype}

S: Ignores this SQL statement.

P: Delete this SQL statement.

KFPA11608-E A

Unable to create table/index without privilege for specified
RDAREA "*aa...aa*"

The user does not have the RDAREA usage privilege for the specified RDAREA;
therefore, the user cannot create a table or index.

aa...aa: RDAREA name

S: Ignores this SQL statement.

P: Either specify the RDAREA for which you have usage privilege, or have the
RDAREA usage privilege granted for the RDAREA, and then re-execute.

KFPA11609-E A

Unable to define *aa...aa* column in "FIX" table

A column *aa...aa* cannot be defined for a table with a FIX attribute.

aa...aa:

variable length: variable length

user data type: user-defined data type

multi-value: repetition column

S: Ignores this SQL statement.

P:

In the case of CREATE TABLE, change the specification for a variable-length
column, a user-defined type column, or a repetition column. Or, delete the
specification for the FIX attribute, and then re-execute.

In the case of ALTER TABLE, re-execute the SQL statement without specifying a
variable-length column, user-defined column, or repetition column.

KFPA11610-E A

No more available public user RDAREA

There is no available public user RDAREA. Or, there is an available public user
RDAREA, but it cannot be used for one of the following reasons, and the table cannot
be defined. Furthermore, an unshared RDAREA is required for a HiRDB/Parallel

server to define an unshared table, and a shared RDAREA is required to define a shared table. For a HiRDB/Single server, an unshared RDAREA is required to define both unshared tables and shared tables.

- The number of tables defined per RDAREA has reached the maximum (500).
- If a primary key or a cluster key is specified, the number of indexes defined per RDAREA has reached the maximum (500).
- For a table with the `FIX` attribute, the page length is not sufficient for the specified row length.
- The RDAREA is on shutdown status.
- A table using the rebalancing facility is defined (applicable only for defining unshared tables).
- An inner replica facility was used in the RDAREA.
- If the cluster key or primary key is specified, the key length of the index relative to the RDAREA page length has exceeded the maximum length. Calculate the key length as follows:

$$key-length \leq \text{MIN}((page-length-of-RDAREA-for-index-storage \div 2) - 1242, 4036)$$

For details about how to calculate key lengths, see the description of `CREATE INDEX` in the manual *HiRDB Version 8 SQL Reference*.

S: Ignores this SQL statement.

P: Define a public RDAREA that can be used, and then re-execute. Or, specify a private user RDAREA that can be used, and then re-execute. A usable RDAREA is an RDAREA that does not match the conditions of the previously described unusable RDAREA.

KFPA11611-E A

Unable to *aa....aa bb....bb*

Hash function change or RDAREA addition is not possible because the table is not a hash partitioned table.

aa....aa: Processing to be executed
{ change | add }

bb....bb: Operation target {HASH|RDAREA}

S: Ignores this SQL statement.

P: Delete this SQL statement.

KFPA11612-E A

Duplicate column name "*aa....aa*"

A column with the same name cannot be defined more than once for the same table.

aa....aa: Column name resulting in the error

S: Ignores this SQL statement.

P: Correct the SQL statement so that the column name is not duplicated and re-execute.

KFPA11613-E A

Unable to *aa....aa* for not empty table

Operation *aa....aa* cannot be performed on a table containing data.

aa....aa: Invalid specification:

add column:

Addition of a column with a NOT NULL specification or DEFAULT clause specification, or addition of a column in the FIX table.

add rdarea:

Addition of an RDAREA to a table with FIX hash partitioning that does not use the rebalancing facility

change no split:

Change in the no-split option

change split:

Change in the no-split option

change set default:

Set or change the default

change drop default:

Delete the default

change cluster key:

Modification of the cluster key attribute

change hash:

Modification of the hash function for a table with FIX hash partitioning

drop column:

Deletion of a column

change insert only:

Change of a non-falsification-prevented table to a falsification-prevented table

S: Ignores this SQL statement.

P: Specify a table containing no data and re-execute. Or, with the `PURGE TABLE` statement, delete all data from the table and re-execute (create a backup copy before executing the `PURGE TABLE` statement in case an error occurs).

KFPA11614-E A

Unable to `bb...bb` on column "`aa...aa`"

When `bb...bb` is `create index` or `define foreign key`:

A column with one of the following data types cannot be specified for an index, primary key, cluster key, or foreign key component column:

- DECIMAL with a length of at least 20 digits
- BLOB
- User-defined type
- BINARY

When `bb...bb` is `create foreign index`:

A BINARY type column cannot be specified in a column comprising a foreign index.

`aa...aa`: Name of the column with the invalid data type

`bb...bb`: {`create index`|`define foreign key`|`create foreign index`}

S: Ignores this SQL statement.

P: Delete this SQL statement.

KFPA11615-E A

Unable to create multi column index on column "`aa...aa`"

A column with one of the following data types cannot be specified for a multicolumn index, multicolumn primary key, or multicolumn cluster key:

- FLOAT
- SMALLFLT

`aa...aa`: Name of the column with the invalid data type

S: Ignores this SQL statement.

P: Delete this SQL statement.

KFPA11616-E A

Index key length is too long

The index key exceeds the maximum length. Calculate the key length as follows:

$key-length \leq \text{MIN}((page-length-of-RDAREA-for-index-storage \div 2) - 1242, 4036)$

For details about how to calculate key lengths, see the description of `CREATE INDEX` in the manual *HiRDB Version 8 SQL Reference*.

S: Ignores this SQL statement.

P: For a single-column index, delete this SQL statement because it cannot be executed. For a multicolumn index, correct the key length to not exceed maximum and re-execute.

KFPA11617-E A

More than 16 columns specified for index

The number of `CREATE INDEX` or `CREATE FOREIGN INDEX` columns or the number of values comprising the exception key value exceeded the maximum specifiable number of 16.

S: Ignores this SQL statement.

P: Correct the number of columns comprising an index or the number of values that comprise exclusion key values to less than or equal to 16 and re-execute.

KFPA11619-E A

Duplicate column name "*aa....aa*" in constructed index columns

The column name specified by `CREATE INDEX` or `CREATE FOREIGN INDEX`, the column name comprising the primary key, or the column name comprising the cluster key is duplicated.

aa....aa: Duplicated column name

S: Ignores this SQL statement.

P: Correct the SQL statement so that the names of the index component columns are not duplicated, then re-execute.

KFPA11620-E A

Unable to specify "*aa....aa*" for flexible HASH partitioning table
`UNIQUE` or `PRIMARY KEY` cannot be specified for a table with flexible hash partitioning or a matrix partitioning table using flexible hash partitioning.

aa....aa:

`UNIQUE`: Unique

`PRIMARY KEY`: Primary key

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute the job.

KFPA11621-E A

Unable to define unique index for multi-value column "*aa....aa*"
An index with a `UNIQUE` specification cannot be defined on the repetition column

"aa....aa".

aa....aa: Name of the repetition column

S: Ignores this SQL statement.

P: Correct the SQL statement or delete the SQL statement and re-execute.

KFPA11622-E A

Invalid HASH function name "aa....aa"

One of the following errors was found in the hash function specification:

1. The specified hash function name could not be found.
2. The column length of the hash partitioning key is shorter than the key length of the specified hash function.

Following are the hash functions and the key length of each:

- HASH3: 2 bytes or more
 - HASH4: 4 bytes or more
 - HASH5: 3 bytes or more
 - HASHC: 2 bytes or more
 - HASHD: 4 bytes or more
 - HASHE: 3 bytes or more
3. The hash function of tables not using the rebalancing facility cannot be changed to HASHA, HASHB, HASHC, HASHD, HASHE, or HASHF.
 4. The hash function of tables using the rebalancing facility cannot be changed to HASH1, HASH2, HASH3, HASH4, HASH5, or HASH6.
 5. HASHA, HASHB, HASHC, HASHD, HASHE, or HASHF cannot be specified in a table hash function defining a cluster key or primary key.
 6. The SEGMENT REUSE option cannot be specified (the SEGMENT REUSE NO option can be specified) in a table specifying HASHA, HASHB, HASHC, HASHD, HASHE, or HASHF.
 7. In the following cases, HASH0 cannot be specified in a hash function:
 - The data type of the column specified for partitioning is not CHAR (6) , CHAR (8) , DATE, or TIMESTAMP.
 - Multiple columns are specified in a partitioning key.

aa....aa: Hash function name

Following are the hash function names and their minimum key lengths:

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HASH3: 2 bytes

HASH4: 4 bytes

HASH5: 3 bytes

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute the job.

KFPA11624-E A

aa....aa bb....bb."cc....cc" not found in system

Table alias *bb....bb* "*cc....cc*" cannot be found in the HiRDB system, or foreign server "*cc....cc*" is not in the HiRDB system.

aa....aa: { ALIAS | FOREIGN SERVER }

bb....bb: Authorization identifier (is not displayed when *aa....aa* is FOREIGN SERVER)

cc....cc: { table alias | foreign server name }

S: Ignores this SQL statement.

P: Check if the specified table alias or foreign server name is correct. If it is not correct, make the necessary correction and re-execute the SQL statement. If it is correct, delete this SQL statement.

KFPA11625-E A

Unable to define "*aa....aa*" on multi-value column

The table restriction definition "*aa....aa*" cannot be specified for a repetition column.

aa....aa:

CLUSTER KEY: cluster key

PRIMARY KEY: Primary key

FOREIGN KEY: Foreign key

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11628-E A

Unable to define "NOT NULL" constraint for multi-value column

When defining a table or modifying a table definition, NOT NULL (NOT NULL constraint) cannot be specified for a repetition column.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11631-E A

Unable to *aaaaaa* "*bb....bb*" column

When "*bb...bb*" is not abstract data, *aaaaaa* cannot process "*bb...bb*".

If "*bb...bb*" is an abstract data type, the processing *aaaaaa* cannot be performed on the tables that include "*bb...bb*".

aaaaaa: Processing that cannot be executed:

{ change | drop }

bb...bb: Type of column:

CLUSTER KEY: Column comprising the cluster key

FOREIGN KEY: Column comprising the foreign key

PRIMARY KEY: Column comprising the primary key

PARTITION KEY: Column comprising the partition key

REFERENCED PRIMARY KEY: Column comprising the primary key of a referenced table

TRIGGER: Column in the trigger definition that is qualified and referenced by the old or new correlation name values

CHECK: Check constraint definition

abstract data: abstract data type

S: Ignores this SQL statement.

P: Delete this SQL statement.

KFPA11632-E A

Unable to drop column from single column table

The specified column cannot be deleted, because it is the only column in the table.

S: Ignores this SQL statement.

P: Execute the DROP TABLE statement, not the ALTER TABLE statement.

KFPA11633-E A

Column for divided key must be "NOT NULL"

A storage condition column, boundary value partition column, or hash partitioning key column does not have the NOT NULL attribute.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11634-E A

More than *aaaa* partitions or *bbbb* RDAREA specifications in storage for *cc...cc*

The number of partitions for *cc...cc* storage exceeds *aaaa*. Or, the specifications of

RDAREA names for *cc....cc* storage exceed *bbbb*.

aaaa:
{ 1 | 1024 }

bbbb:
{ 1 | 3000 }

cc....cc: Storage processing type:
{ TABLE | COLUMN | CLUSTER KEY | PRIMARY KEY | INDEX }

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11636-E A

More than 15000 constants in partitioning condition

The total number of literals specified for the table storage conditions exceeds 15,000.

S: Ignores this SQL statement.

P: Correct the SQL statement so that specification of literals for the storage condition does not exceed 15,000 and re-execute.

KFPA11637-E A

More than 30000 SQL parameters defined in *aa....aa* definition

The number of SQL parameters defined in *aa....aa* is greater than 30,000.

aa....aa:
{ FUNCTION | PROCEDURE }

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11638-E A

Unable to specify self-join for view or "WITH" query which derives internal table

In a query specification for creating an internal derived table, joining of the same table is specified.

The conditions for creating an internal derived table are as follows:

1. In a query for a named derived table, derived by specifying `SELECT DISTINCT`, the named derived table is included in a subquery or directly includes one of the following:
 - `GROUP BY` clause, `HAVING` clause, or set function
 - `SELECT DISTINCT`

- Table join (including outer join and inner join)
 - Value expression other than a column specification was specified in the selection expression
 - None of the columns of the named derived table specified in the FROM clause is specified singularly in the selection expression.
2. A query for a named derived table, derived by specifying a GROUP BY clause, HAVING clause, or a set function, directly includes one of the following:
 - GROUP BY clause, HAVING clause, or set function
 - Table join (including outer join and inner join)
 - Window function
 3. A query for a named derived table, derived by specifying a value expression other than a column specification as a selection expression, directly includes one of the following:
 - GROUP BY clause, HAVING clause, or set function
 - Window function
 - Joined table
 4. A query on a named derived table derived by directly specifying a set function with DISTINCT contains one of the following:
 - GROUP BY clause, HAVING clause, or set function
 - SELECT DISTINCT
 - Window function
 5. A query for a named derived table, derived by specifying a table join (including outer join and inner join), directly includes a table join (including outer join and inner join) and one of the specified table join operations is a table join specification.
 6. A query on a named derived table derived by directly specifying a scalar subquery as a selection expression contains one of the following:
 - SELECT DISTINCT
 - GROUP BY clause, HAVING clause, or set function
 - Table join (including outer join and inner join)
 - A value expression other than a column specification specified in a selection expression.
 - A scalar subquery specified in a selection expression.

- The same column derived from a value expression containing a subquery, specified more than once in the selection expression for a named derived table.
 - A column derived from a value expression containing a subquery, specified as an external reference column in the selection expression for a named derived table.
 - A viewed table defined before HiRDB version 07-02.
7. A query for a named derived table derived from a set operation, which satisfies one of the following:
- One of the operators of the set operation includes an internal derived table query, a query that specifies a derived table, or a query that specifies a subquery in a selection expression.
 - One of the operators of the set operation and the query for the named derived table satisfy one of the conditions of 1 through 6 above.
8. A query for a named derived table derived from a set operation that includes other than `UNION ALL`, which directly includes one of the following:
- `GROUP BY` clause, `HAVING` clause, or a set function
 - `SELECT DISTINCT`
 - Table join (including external or internal joins)
 - `WHERE` clause
 - Subquery
 - Value expression other than a column specification in a selection expression
 - In a selection expression, the columns of a named derived table specified in the `FROM` clause are not specified once each
9. A query for a named derived table derived from a set operation that includes only `UNION ALL`, which directly includes one of the following:
- `GROUP BY` clause, `HAVING` clause, or a set function
 - Window function
 - `WHERE` clause or subquery (however, only a subquery, a set operation operator, or an `INSERT` statement query)
 - Function call or system definition scalar function
 - Component specification
 - `WRITE` specification
 - `GET_JAVA_STORED_ROUTINE_SOURCE` specification

- Sort specification with items not in the selection expression
 - Subquery for a named derived table derived from a set operation specified in the `FROM` clause
 - Subquery that specifies a derived table
 - Subquery specified in a value expression other than a column specification in the `GROUP BY` clause
 - The data type of an SQL variable specified in a selection expression or an SQL parameter is one of the following:
 - BLOB type
 - BINARY type 32,001 bytes or larger
 - Abstract data type
 - BOOLEAN type
10. The query specification specified for the table-joining of named derived tables derived by a set operation consisting solely of `UNION ALL` specifies one of the following:
- A named derived table in a table reference other than at the leftmost outer table for an outer join
 - The `FROM` clause specifying a named derived table, which specifies a comma join (that is, specifies a different table reference than the joined table for which a derived table is specified)
 - A subquery or a derived table
 - A query specification contained either in a subquery or in the operation term for a set operation
 - A set operation term that derives named derived tables and contains one of the following:
 - Table join
 - `GROUP BY` clause, `HAVING` clause, or a set function
 - `SELECT DISTINCT`
 - A value expression in a selection expression other than a column specification
 - A query that creates an inner derived table
 - A query specifying a derived table
 - A named derived table derived by specifying a set operation (in addition to a named derived table)

- One of the following, in the table reference to a joined table specifying a named derived table:
 - A named derived table derived by specifying the joining of tables
 - A named derived table derived by specifying a GROUP BY clause, a HAVING clause, or a set function
 - A named derived table derived by specifying SELECT DISTINCT
 - A named derived table derived by specifying a value expression other than a column specification in a selection expression
 - A named derived table derived by specifying a query that creates an inner derived table
 - A named derived table derived by specifying a subquery

- The total number of tables obtained by the following expression is greater than 65:

$$\text{Total number of tables} = a + b \times c + d$$

a: Total number of tables from which named derived tables are derived

b: Number of set operations from which named derived tables are derived + 1

c: Total number of tables specified on the right side of an outer join

d: If a query other than a query for which a named derived table is specified is also specified, the total number of tables specified in the query

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11639-E A

Distinct view specified in "FROM" clause of subquery in view definition, in "WITH" query, or in query with grouping by expression

A derived query in the view definition or the WITH clause or a query specifying a value expression (except for column specifications) in the GROUP BY clause specifies a named derived table that was derived by specifying a duplication elimination in the subquery's FROM clause.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11640-E A

Outer reference specified for column derived from "COUNT(*)" in view or "WITH" query

Outer reference was specified for the following column:

- Column in a view table defined from `COUNT (*)`
- A column derived from the `COUNT (*)` specified in a selection expression in a derived query expression in the `WITH` clause

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11641-E A

Unable to specify derived table in joined table

A named derived table derived under the following condition cannot be specified in a joined table:

- A named derived table was derived by specifying a set operation

Also, a view table cannot be specified in a derived query expression joined table if the view table or the base table comprising the view table is defined as follows:

- With subquery specified
- By specifying the joining of tables, `SELECT DISTINCT`, a `GROUP BY` clause, or a `HAVING` clause
- View table defined by specifying a value expression other than a column specification in the `SELECT` clause.

S: Ignores this SQL statement

P: Correct the SQL statement and re-execute.

KFPA11642-E A

Grouping specified for derived table having derived column in view definition, in "WITH" query, or in query with grouping by expression

A `GROUP BY` clause, a `HAVING` clause, or a set function is specified in a view definition query, in a derived query in the `WITH` clause query, or in a value expression (except when a column specifies a value expression) in the `GROUP BY` clause for a named derived table with columns derived by a value expression other than a column specification.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11643-E A

Join specified for group view in view definition, in "WITH" query, or in query with grouping by expression

A table join is specified in a query specifying a value expression (except when a column specifies a value expression) in a view definition, in a derived query for a query in the `WITH` clause, or in the `GROUP BY` clause for a named derived table that

was derived by specifying a `GROUP BY` clause, a `HAVING` clause, or a set function.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11644-E A

Grouping specified for group view in view definition, in "WITH" query, or in query with grouping by expression

One of the following specifications was made in a query specifying a value expression (except when a column specifies a value expression) in a view definition, or in a derived query expression in the `WITH` clause for a named derived table that was derived by a query specifying a `GROUP BY` clause, a `HAVING` clause, or a set function:

- `GROUP BY` clause
- `HAVING` clause
- Set function

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11645-E A

Constant or value expression in "SELECT" clause specified for distinct view in view definition or "WITH" query

A value expression other than a column specification was specified in a view definition or the `SELECT` clause in a derived query expression in a query in the `WITH` clause for a view table specifying a duplication elimination (`DISTINCT`).

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11646-E A

Join specified for distinct view in view definition or "WITH" query

A view table specifying duplication elimination (`DISTINCT`) was searched by specifying the joining of tables in either a view definition or a derived query expression in a query in the `WITH` clause.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11647-E A

Distinct specified for distinct view in view definition, in "WITH" query, or in query with grouping by expression

A value expression other than a column specification was specified in a view definition, a derived query expression in a query in the `WITH` clause, or in the `GROUP`

BY clause for a named derived table that was derived by specifying a duplication elimination (`DISTINCT`).

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11648-E A

Unable to derive internal table in query or in where subquery with grouping by expression

A query specification for creating an internal derived table cannot be specified in the following:

- A query in which a value expression other than a column specification is specified in a `GROUP BY` clause
- A subquery of a `WHERE` clause of a query in which a value expression other than a column specification is specified in a `GROUP BY` clause

The conditions for creating an internal derived table are as follows:

1. In a query in a named derived table that was derived by specifying `SELECT DISTINCT`, the named derived table is either included in a subquery or directly includes one of the following:
 - `GROUP BY` clause, `HAVING` clause, or set function
 - `SELECT DISTINCT`
 - Table join (including outer join and inner join)
 - Specification of a value expression other than a column specification in the selection expression
 - None of the columns of the named derived table specified in the `FROM` clause is specified singularly in the selection expression.
2. A query for a named derived table, derived by specifying a `GROUP BY` clause, `HAVING` clause, or a set function, directly includes one of the following:
 - `GROUP BY` clause
 - `HAVING` clause
 - Set function
 - Table join (including outer join and inner join)
3. A query for a named derived table, derived by specifying a value expression other than a column specification as a selection expression, directly includes one of the following:
 - `GROUP BY` clause

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- HAVING clause
 - Set function
 - Joined table
4. A query for a named derived table, derived by specifying a set function with DISTINCT specification, directly includes SELECT DISTINCT specification.
 5. A query for a named derived table, derived by specifying a joined table, directly includes one of the following:
 - Table join (including outer join and inner join)
 - Subquery
 6. A query for a named derived table, derived by specifying table join or a subquery, directly includes a joined table specification.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11649-E A

Grouping specified for distinct view in view definition, in "WITH" query, or in query with grouping by expression

A query specified by a value expression (except when the value expression is a column specification) in a view definition, a derived query expression in a query in the WITH clause, or in the GROUP BY clause, for a named derived table that was derived by specifying a duplication elimination (DISTINCT), directly specifies one of the following:

- GROUP BY clause
- HAVING clause
- Set function

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11650-E A

Number of view columns or "WITH" query columns not equal to number of select columns

The number of items to be retrieved in the SELECT clause does not match the following value:

- Number of columns comprising the view table
- Number of columns in the table specified in the query name of the WITH clause

S: Ignores this SQL statement.

P: Check that the number of columns comprising the view table or the number of columns in the table derived as the query name matches the number of items subject to retrieval in the SELECT clause, then re-execute.

KFPA11651-E A

Unable to specify *aa....aa* in view definition

The following items cannot be specified in a view definition:

- ? parameters or embedded variables
- Structured repetition predicates

aa....aa:

{ ? parameter or embedded variable |ARRAY predicate }

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11652-E A

Specified RDAREA "*aa....aa*" not defined

The RDAREA specified in one of the following SQL statements was not found:

- ALTER TABLE
- CREATE TABLE
- CREATE INDEX
- GRANT RDAREA

aa....aa: RDAREA name

S: Ignores this SQL statement.

P: Either specify a defined user RDAREA or correct the RDAREA name and re-execute.

KFPA11653-E A

Specified RDAREA *aa....aa bb....bb*

One of the following errors was detected:

When *bb....bb* is not for user:

The user cannot use *aa....aa*.

When *bb....bb* is replicated rdarea:

aa....aa is a replicated RDAREA.

When *bb....bb* is used by inner replica facility:

aa....aa, the RDAREA applying the inner replica facility, is not applicable to

falsification- prevented tables.

For these reasons, the following SQL statements cannot be executed:

- ALTER TABLE
- CREATE TABLE
- CREATE INDEX
- GRANT RDAREA
- DROP INDEX
- DROP TABLE
- DROP SCHEMA

aa....aa: RDAREA-name

bb....bb: {not for user|replicated rdarea|used by inner replica facility}

S: Ignores this SQL statement.

P:

bb....bb is not for user:

Specify the user RDAREA and re-execute.

bb....bb is replicated rdarea:

Specify the original RDAREA and re-execute.

bb....bb is used by inner replica facility:

Specify an RDAREA not applying the inner replica facility and re-execute.
Alternatively, cancel application of the inner replica facility and re-execute.

KFPA11654-E A

Number of *aa....aa* exceeds *bbb*

The number of tables or indexes in an RDAREA exceeds the maximum.

A maximum of 500 tables or indexes can be specified per RDAREA.

aa....aa: Object of processing:
{ tables |indexes }

bbb: 500

S: Ignores this SQL statement.

P: Specify another RDAREA and re-execute.

KFPA11656-E A

No schema for *aa....aa*

Because a schema is missing, the following SQL statements cannot be executed:

- ALTER PROCEDURE
- ALTER ROUTINE
- CREATE FUNCTION
- CREATE PROCEDURE
- CREATE TABLE
- CREATE TRIGGER
- CREATE TYPE
- CREATE VIEW
- DROP SCHEMA

aa....aa: Authorization identifier of the user without the schema

S: Ignores this SQL statement.

P:

To execute CREATE FUNCTION, CREATE PROCEDURE, CREATE TABLE, CREATE TRIGGER, CREATE TYPE, or CREATE VIEW, use the CREATE SCHEMA statement to create a schema before executing the desired statement.

You do not have to execute DROP SCHEMA, ALTER PROCEDURE, or ALTER ROUTINE, because no schema was defined.

KFPA11657-E A

Too small page size *aa....aa* for row length *bb....bb*

The page length of a specified RDAREA is insufficient.

aa....aa: Page length of the specified RDAREA

bb....bb: Row length (in bytes)

For national character data, the specified value times 2 is displayed in the message as the row length.

S: Ignores this SQL statement.

P: Either specify an RDAREA satisfying the condition shown below or reduce the row length, then re-execute:

Condition:

$$\text{Row length} \leq \frac{\text{Page length of RDAREA area} \downarrow}{1000} \downarrow \times 1000$$

Note

↓ ↓ means that the value is to be rounded down.

KFPA11658-E A

Unable to specify "ALL" as table identifier
ALL cannot be used as a table identifier.

S: Ignores this SQL statement.

P: Correct the table identifier and re-execute.

KFPA11659-E A

Invalid data type or data length

The data type or data length specified in the CHANGE clause is invalid for one of the following reasons:

- An attempt was made to reduce the data length.
- An attempt was made to change the length of fixed-length data.
- An attempt was made to change an unchangeable data type.

S: Ignores this SQL statement.

P: Correct the error and re-execute.

KFPA11660-E A

Unable to *aa....aa* on the *bb....bb*

One of the following errors was detected in the table manipulation:

- Index creation, trigger creation, or table definition change cannot be performed on a view table.
- Table definition change cannot be performed on an audit trail table.
- Foreign index cannot be created in a base table.
- Index creation, trigger creation, or table definition change cannot be performed on a foreign table.

aa....aa: One of the following items is displayed:

- alter table
- create foreign index

- create index
- create trigger

bb...bb: One of the following items is displayed:

- view
- table
- foreign table
- audit trail table

S: Ignores this SQL statement.

P: Delete this SQL statement.

KFPA11661-E A

Identical structure index *aa...aa."**bb...bb**"* already exists

The same structure as index *aa...aa."**bb...bb**"* already exists.

aa...aa: Authorization identifier

bb...bb: Index identifier

S: Ignores this SQL statement.

P: Delete this SQL statement.

KFPA11662-E A

Unable to *cc...cc* because of key length of index *aa...aa."**bb...bb**"* too long

Cannot *cc...cc* because the key length of index *aa...aa."**bb...bb**"* exceeded the maximum specifiable length. Calculate the correct key length in the following formula:

$$\textit{key-length} \leq \text{MIN} ((\textit{page-length-of-index-storage-RDAREA} \div 2) - 1242, 4037)$$

For details about how to calculate key lengths, see the description of CREATE INDEX in the manual *HiRDB Version 8 SQL Reference*.

aa...aa: Authorization identifier

bb...bb: Index identifier

cc...cc: {change data length|add rdarea}

S: Ignores this SQL statement.

P:

- When *cc...cc* is change data length:
To prevent the key length of the index key from exceeding the maximum

length, either modify `ALTER TABLE` or delete the index, and then re-execute.

- When `cc...cc` is `add rdarea`:
Change the `RDAREA` storing the index.

KFPA11663-E A

Unable to drop server "`aa...aa`" due to defined `bb...bb`

Foreign server `aa...aa` cannot be deleted because it defines `bb...bb`.

`aa...aa`: Foreign server name

`bb...bb`

{ foreign table | user mapping }

S: Ignores this SQL statement.

P: Delete the user mapping definition and external table of the specified foreign server, and re-execute the SQL statement.

KFPA11664-E A

Specified `aa...aa bb...bb` already exists

The specified schema or foreign server is already defined.

`aa...aa`: { schema | foreign server }

`bb...bb`: { authorization identifier | foreign server name }

S: Ignores this SQL statement.

P: Delete this SQL statement.

KFPA11665-E A

No available parameter found for "`ALTER TABLE`"

The contents (the maximum number of elements in a repetition column, the data type, the data size, the `WITH DEFAULT`, or the no-split option specification) specified in the `CHANGE` clause of `ALTER TABLE` have not changed from the previous contents.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11667-E A

Invalid maximum number of elements for "`ALTER TABLE`"

The maximum number of elements specified in the `CHANGE` clause of `ALTER TABLE` contains one of the following errors:

- An attempt was made to reduce the maximum number of elements.
- An attempt was made to change a repetition column into a non-repetition column or a non-repetition column into a repetition column.

- The symbol * was not specified, even when the maximum number of elements was not changed.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11669-E A

Invalid table name in view definition

The name of a base table for a view table or the name of the view table is invalid. Or, the name of a base table for a view table is the same as the name of the view table.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11670-E A

"UPDATE" specified for *aa....aa*

The error shown by *aa....aa* occurred during update processing of a read-only view table, foreign table, falsification-prevented table, or audit trail table.

aa....aa: {read only view|foreign table supplied by DB2 UDB OS/390 V6|view table derived from foreign table supplied by DB2 UDB OS/390 V6|foreign table supplied by ORACLE, using "WITH ROLLBACK"|view table derived from foreign table supplied by ORACLE, using "WITH ROLLBACK"|foreign table, with cursor|view table derived from foreign table, with cursor|foreign table, using ROWID|view table derived from foreign table, using ROWID|INSERT ONLY table|view table derived from INSERT ONLY table|UPDATE ONLY FROM NULL column|AUDIT TRAIL TABLE}

read only view:

INSERT, UPDATE, or DELETE was executed on a read-only view table.

foreign table supplied by DB2 UDB OS/390 V6, or view table derived from foreign table supplied by DB2 UDB OS/390 V6:

A foreign server is executing an INSERT, UPDATE, or DELETE statement on a foreign table of DB2 UDB OS/390 V6 or on a viewed table having a foreign table as a base table.

foreign table supplied by ORACLE, using "WITH ROLLBACK", or view table derived from foreign table supplied by ORACLE, using "WITH ROLLBACK":

A foreign server is executing an INSERT, UPDATE, or DELETE statement specifying WITH ROLLBACK on an ORACLE foreign table or on a viewed table having a foreign table as a base table.

foreign table, with cursor, or view table derived from

foreign table, with cursor:

A cursor-using UPDATE or DELETE statement is being executed on a foreign table or on a viewed table having a foreign table as a base table.

foreign table, using ROWID, or view table derived from foreign table, using ROWID:

An UPDATE or DELETE statement is being executed on a foreign table or on a viewed table having a foreign table as a base table.

INSERT ONLY table or view table derived from INSERT ONLY table:

- UPDATE was executed on a column for which update is not permitted on a falsification-prevented table or a view table using a falsification-prevented table as its base table.
- UPDATE was executed specifying ROW for a falsification-prevented table or a view table using a falsification-prevented table as its base table.
- A DELETE statement is being executed on a falsification-prevented duration for which a deletion-prevented duration is not specified, or on a viewed table having a falsification-prevented duration as a base table.

UPDATE ONLY FROM NULL column:

- UPDATE (element update, add, or delete) was executed with a subscript for a repetition column with the UPDATE ONLY FROM NULL attribute.
- UPDATE was executed using a component specification for an abstract data type column with the UPDATE ONLY FROM NULL attribute.

AUDIT TRAIL TABLE:

The INSERT or UPDATE statement was executed for an audit trail table.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11671-E A

As a result of changing data length, invalid use of variable length column occurred in view definition

The following columns in a view definition cannot be changed to BINARY with a length of 32,001 bytes or larger:

- A column specified in a comparison predicate, quantified predicate, IN predicate, BETWEEN predicate, NULL predicate, LIKE predicate, or SIMILAR predicate
- A column specified in a subquery in a comparison predicate, quantified predicate, or IN predicate
- A base table column specified in duplication elimination

- A column specified in a selection expression in a query that a set operation is to be performed on
- A base table column specified in a grouping or set function
- A column specified to define a view table developed as an internal derived table in a query specification that satisfies one of the conditions to create an internal derived table

The conditions for creating an internal derived table are as follows:

1. In a query for a named derived table, derived by specifying `SELECT DISTINCT`, the named derived table is included in a subquery or directly includes one of the following:
 - `GROUP BY` clause, `HAVING` clause, or set function
 - `SELECT DISTINCT`
 - Table join (including outer join and inner join)
 - A value expression other than a column specification specified in the selection expression
 - None of the columns of the named derived table specified in the `FROM` clause is specified singly in the selection expression
2. A query for a named derived table, derived by specifying a `GROUP BY` clause, `HAVING` clause, or set function, directly includes one of the following:
 - `GROUP BY` clause, `HAVING` clause, or set function
 - Table join (including outer join and inner join)
 - Window function
3. One of the following is directly included in the query for a named derived table specified by a selection expression that is a value expression other than a column specification:
 - `GROUP BY` clause, `HAVING` clause, or set function
 - Window function
 - Joined table
4. A query on a named derived table derived by directly specifying a set function with `DISTINCT` contains one of the following:
 - `GROUP BY` clause, `HAVING` clause, or set function
 - `SELECT DISTINCT`
 - Window function

5. A query for a named derived table derived by specifying a table join (including outer join and inner join) directly includes a table join (including outer join and inner join), and one of the specified table joins specifies a joined table.
6. A query on a named derived table derived by directly specifying a scalar subquery as a selection expression contains one of the following:
 - `SELECT DISTINCT`
 - `GROUP BY` clause, `HAVING` clause, or set function
 - Table join (including outer join and inner join)
 - A value expression other than a column specification specified in a selection expression
 - A scalar subquery specified in a selection expression
 - The same column derived from a value expression containing a subquery, specified more than once in the selection expression for a named derived table
 - A column derived from a value expression containing a subquery, specified as an external reference column in the selection expression for a named derived table
 - A viewed table defined before HiRDB version 07-02
7. A query for a named derived table derived from a set operation, which satisfies one of the following:
 - One of the operators of the set operation includes an internal derived table query, a query that specifies a derived table, or a query that specifies a subquery in a selection expression.
 - One of the operators of the set operation and the query for the named derived table satisfy one of the conditions of 1 through 6 above.
8. A query for a named derived table derived from a set operation that includes other than `UNION ALL`, which directly includes one of the following:
 - `GROUP BY` clause, `HAVING` clause, or a set function
 - `SELECT DISTINCT`
 - Table join (including external or internal joins)
 - `WHERE` clause
 - Subquery
 - Value expression other than a column specification in a selection expression
 - In a selection expression, the columns of a named derived table specified in

the `FROM` clause are not specified once each

9. A query for a named derived table derived from a set operation that includes only `UNION ALL`, which directly includes one of the following:
 - `GROUP BY` clause, `HAVING` clause, or a set function
 - Window function
 - `WHERE` clause or subquery (however, only a subquery, a set operation operator, or an `INSERT` statement query)
 - Function call or system definition scalar function
 - Component specification
 - `WRITE` specification
 - `GET_JAVA_STORED_ROUTINE_SOURCE` specification
 - Sort specification with items not in the selection expression
 - Subquery for a named derived table derived from a set operation specified in the `FROM` clause
 - Subquery that specifies a derived table
 - Subquery specified in a value expression other than a column specification in the `GROUP BY` clause
 - The data type of an SQL variable specified in a selection expression or an SQL parameter is one of the following:
 - BLOB type
 - BINARY type 32,001 bytes or larger
 - Abstract data type
 - BOOLEAN type
10. The query specification specified for the table-joining of named derived tables derived by a set operation consisting solely of `UNION ALL` specifies one of the following:
 - A named derived table in a table reference other than at the leftmost outer table for an outer join
 - The `FROM` clause specifying a named derived table, which specifies a comma join (that is, specifies a different table reference than the joined table for which a derived table is specified)
 - A subquery or a derived table
 - A query specification contained either in a subquery or in the operation term

for a set operation

- A set operation term that derives named derived tables and contains one of the following:
 - Table join
 - GROUP BY clause, HAVING clause, or a set function
 - SELECT DISTINCT
 - A value expression in a selection expression other than a column specification
 - A query that creates an inner derived table
 - A query specifying a derived table
- A named derived table derived by specifying a set operation (in addition to a named derived table)
- One of the following, in the table reference to a joined table specifying a named derived table:
 - A named derived table derived by specifying the joining of tables
 - A named derived table derived by specifying a GROUP BY clause, a HAVING clause, or a set function
 - A named derived table derived by specifying SELECT DISTINCT
 - A named derived table derived by specifying a value expression other than a column specification in a selection expression
 - A named derived table derived by specifying a query that creates an inner derived table
 - A named derived table derived by specifying a subquery
- The total number of tables obtained by the following expression is greater than 65:

$$\text{Total number of tables} = a + b \times c + d$$

a: Total number of tables from which named derived tables are derived

b: Number of set operations from which named derived tables are derived + 1

c: Total number of tables specified on the right side of an outer join

d: If a query other than a query for which a named derived table is specified is also specified, the total number of tables specified in the query

S: Ignores this SQL statement.

P: Correct the SQL statement or delete the view table, and then re-execute.

KFPA11672-E A

Each column of distinct view can be specified only once in "SELECT" clause in view definition, or in "WITH" query

One or more columns comprising the view table were not specified once each in the view definition or SELECT clause in the derived query expression in the WITH clause for a view table defined by specifying duplication elimination (DISTINCT).

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11673-E A

Duplicate "aa....aa" in "bb....bb" statement

"aa....aa" was specified more than once in "bb....bb".

aa....aa: Item specified two or more times

```
{ CLUSTER KEY | PRIMARY KEY | PCTFREE
| SUPPRESS | LOCK ROW/PAGE
| WITHOUT ROLLBACK | UNBALANCED SPLIT
| EMPTY | EXCEPT VALUES | INDEXLOCK
| ISOLATION LEVEL | OPTIMIZE LEVEL
| ADD OPTIMIZE LEVEL | SUBSTR LENGTH | OPTIONS SCHEMA
| OPTIONS TABLE | OPTIONS COLLATING_SEQUENCE
| OPTIONS TRAILING_SPACE | OPTIONS NULLABLE
| OPTIONS USING_BES | OPTIONS_USER | OPTIONS PASSWD
| SEGMENT REUSE | INSERT ONLY | NOT NULL | CONNECT
| PASSWORD }
```

bb....bb: Specified statement

```
{ CREATE TABLE | CREATE INDEX
| CREATE PROCEDURE | CREATE FOREIGN TABLE
| CREATE SERVER | CREATE USER MAPPING | CREATE FUNCTION
| PROCEDURE definition in CREATE TYPE
| FUNCTION definition in CREATE TYPE | ALTER TABLE
| ALTER PROCEDURE | ALTER ROUTINE
| CREATE TRIGGER | ALTER TRIGGER
| CREATE CONNECTION SECURITY | DROP CONNECTION SECURITY }
```

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11674-E A

Unable to specify more than 16 columns for "aa....aa"

The number of columns in "aa....aa" exceeds the maximum (16) in the CREATE TABLE statement.

aa....aa: Item exceeding the maximum number of columns:

CLUSTER KEY: Cluster key

FOREIGN KEY: Primary key

HASH KEY: Column subject to multicolumn hash partitioning

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11676-E A

"*aa....aa*" cannot be specified in ALTER TABLE statement

"*aa....aa*" cannot be specified in the ALTER TABLE statement for a column to be added or modified.

aa....aa: Nature of error:

{ CLUSTER KEY |NOT NULL }

Note that NOT NULL can be specified in the ADD clause.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11677-E A

Unable to purge *aa....aa*

The PURGE TABLE statement cannot be executed on a view table, foreign table, or falsification prevented table.

aa....aa: {view table|foreign table|INSERT ONLY table}

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11678-E A

No Column-definition in "CREATE TABLE" statement

There is no column definition in the CREATE TABLE statement.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11680-E A

Unable to *aa....aa* LIST due to executing same user *bb....bb*

A user having the same authorization identifier *bb....bb* is accessing the list; therefore, operation *aa....aa* cannot be performed on the list.

aa....aa: List processing:

{ assign |select |drop }

bb....bb: Authorization identifier

S: Ignores this SQL statement.

P: Re-execute the SQL statement after the active transaction has terminated.

KFPA11690-E A

Unable to drop referenced table

A referenced table with a referential constraint cannot be dropped.

S: Ignores this SQL statement.

P: Drop all referencing tables, and then re-execute.

KFPA11692-E A

Unable to execute due to table *aa....aa*. "*bb....bb*" in use

Because table *aa....aa*. "*bb....bb*" is being used by another user, the SQL statement or operation command cannot be executed.

aa....aa: Authorization identifier

bb....bb: Table identifier

S: Ignores this SQL statement.

P: Check the SQL to be executed for an error. If there is no error, execute the SQL statement or operation command after the other user finishes using the table. The following command can be used to determine whether or not a table is being used by another user:

```
pdls -d lck -a
```

KFPA11693-E A

Unable to define same columns construction for primary key and cluster key

A cluster key clause and a primary key clause with the same column structure cannot be specified simultaneously.

S: Ignores this SQL statement.

P: To define a cluster key and a primary key with the same column structure, define them in a PRIMARY CLUSTER KEY clause.

KFPA11694-E A

Unable to change cluster key because of invalid key attribute

One of the following errors was detected in attempting to change attributes of a cluster key:

- An attempt was made to change to UNIQUE a cluster key for which UNIQUE was already specified, or an attempt was made to change from UNIQUE a cluster key for which UNIQUE was not specified.
- An attempt was made to change a flexible hash partitioning table or a matrix

partitioning table using flexible hash partitioning to UNIQUE.

S: Ignores this SQL statement.

P: Delete this SQL statement.

KFPA11697-E A

Unable to specify "WITH DEFAULT" except for "NOT NULL"

When defining a table or modifying a table definition, "WITH DEFAULT" cannot be specified for a column without the "NOT NULL" value restriction.

S: Ignores this SQL statement.

P: Specify "NOT NULL" and re-execute.

KFPA11698-E A

Unable to specify "bb...bb" for "aa...aa" column

The item "bb...bb" cannot be specified for a column that comprises "aa...aa".

aa...aa: abstract data (abstract data type)

bb...bb: NOT NULL

S: Ignores this SQL statement.

P: Delete this SQL statement.

KFPA11699-E A

Unable to specify "WITH DEFAULT" because of column already "WITH DEFAULT"

WITH DEFAULT has already been specified for the specified column.

S: Ignores this SQL statement.

P: Delete this SQL statement.

KFPA11702-E A

Unable to create unique index, because unique key not include all partitioning key columns

An index with the UNIQUE specification could not be defined for one of the following reasons:

- In a table that is row-partitioned among multiple back-end servers, not all the columns specified as table-partitioning keys are included in the columns comprising the index.
- In a rebalancing table with FIX hash partitioning at a single server or at only one back-end server, not all the columns specified as table-partitioning keys are included in the columns comprising the index.

S: Ignores this SQL statement.

P: Correct so that all columns specified as table-partitioning keys are included in the columns comprising the index (in any sequence), and re-execute the SQL statement.

KFPA11703-E A

Unable to partition table more than 1024 servers

A table cannot be defined to be partitioned into more than 1,025 back-end servers.

S: Ignores this SQL statement.

P: Set the number of back-end servers for partitioning to no more than 1,024 and re-execute.

KFPA11704-E A

Unable to specify *aa....aa* for *bb....bb*

aa....aa cannot be specified for *bb....bb*.

When *bb....bb* is "FIX" table:

Cannot specify a data type BLOB statement or BINARY statement for a FIX attribute table.

When *bb....bb* is foreign table:

Cannot specify the following data types to a foreign table:

- CHAR, VARCHAR, MCHAR, or MVARCHAR data longer than 256 bytes
- NCHAR or NVARCHAR statements longer than 128 characters
- BINARY statements longer than 256 bytes

aa....aa: {"BLOB" | "BINARY" | long data}

bb....bb: {"FIX" table | foreign table}

S: Ignores this SQL statement.

P:

When *bb....bb* is "FIX" table:

Either do not specify the data type BLOB or BINARY, or delete the FIX attribute specification and re-execute.

When *bb....bb* is foreign table:

Respecify the data type and re-execute.

KFPA11705-E A

Invalid option "*aa....aa*" number *cc....cc* in "*bb....bb*" statement

The value of option "*aa....aa*" in statement "*bb....bb*" exceeds the permitted maximum.

aa....aa: Name of erroneous option:

```
{ PCTFREE |SEGMENT REUSE }
```

bb...bb: Name of erroneous SQL statement:

```
{ CREATE TABLE |CREATE INDEX |ALTER TABLE }
```

cc...cc: Erroneous value

S: Ignores this SQL statement.

P: Change the option specification and re-execute.

KFPA11706-E A

Number of defined indexes on table *aa...aa*. "*bb...bb*" exceeds 255

The number of indexes specified for a table exceeded the maximum (255).

aa...aa: Authorization identifier

bb...bb: Table identifier

S: Ignores this SQL statement.

P: If this SQL statement needs to be executed, delete the index. If this SQL statement need not be executed, delete it.

KFPA11707-E A

Invalid "LOB" RDAREA for table partitions

If the same table RDAREA is specified for multiple boundary values, during the boundary value partition of a table, the specification of the table RDAREA does not agree with the specification of one of the following items:

- LOB column storage RDAREA
- LOB attribute storage RDAREA

S: Ignores this SQL statement.

P: Make the LOB column storage RDAREA or the LOB attribute storage RDAREA consistent with the associated table RDAREA and re-execute.

KFPA11708-E A

Not specified "LOB" RDAREA "*aa...aa*" in same server as table RDAREA

The specified LOB RDAREA is not on the same server as the table storage RDAREA.

aa...aa: LOB RDAREA name

S: Ignores this SQL statement.

P: Specify a LOB RDAREA on the same server as the corresponding table storage RDAREA.

KFPA11709-E A

Specified RDAREA "*aa...aa*" already used

The specified LOB RDAREA is already being used for another table.

aa....aa: LOB RDAREA name

S: Ignores this SQL statement.

P: Specify a LOB RDAREA that is not being used for another table.

KFPA11710-E A

Specific name for *aa....aa*."bb...bb" conflict with another routine

The specific name for the routine *aa....aa*."bb...bb" is in conflict with another routine.

aa....aa: Authorization identifier

bb...bb: Routine identifier

S: Ignores this SQL statement.

P: Correct the routine identifier and re-execute.

KFPA11711-E A

Invalid update in execution of query with cursor

One of the following errors was detected:

- An attempt was made to update, delete, or insert data in a table being retrieved using a cursor that was declared or assigned without specifying the FOR UPDATE clause.
- An attempt was made to delete or insert data in a table being retrieved using a cursor that was declared or assigned with FOR UPDATE OF specified.
- An attempt was made to update a column for which FOR UPDATE OF is not specified in a table being retrieved using a cursor that was declared or assigned with FOR UPDATE OF specified.
- An attempt was made to update or delete data using a cursor that was declared or assigned with FOR READ ONLY specified.

S: Ignores this SQL statement.

P: Correct the UAP and re-execute.

KFPA11712-E A

Duplicate attribute name "*aa....aa*"

The name of an attribute comprising a data type must be unique for all the abstract data types that are in an inheritance relationship.

aa....aa: Attribute name that is duplicated

S: Ignores this SQL statement.

P: Correct the attribute name so that it is unique and re-execute.

KFPA11713-E A

Unable to *aaaaaa* work file due to insufficient HiRDB file system area *bb...bb*

During internal processing to create a work table file, a space shortage occurred in the HiRDB file system area specified in *pdwork* of the server definition.

aaaaaa: Type of operation on the work table HiRDB file:

create: Creation of work table HiRDB file

expand: Expansion of work table HiRDB file

bb...bb: Name of the HiRDB file system area resulting in the space shortage

If the path name of the HiRDB file system area exceeds 117 characters, the last 117 characters of the HiRDB file system area path name are output.

S: Invalidates this transaction.

P: Contact the HiRDB administrator.

Action

When creating a work table HiRDB file (*create*):

Add a HiRDB file system area using the *pdwork* operand of the server definition. Or, increase the size of the HiRDB file system area specified in the *pdwork* operand and start the server.

When expanding a work table HiRDB file (*expand*):

Increase the size of the HiRDB file system area specified in the server definition *pdwork* operand and start the server.

KFPA11714-E A

Number of "*aa...aa*" exceeds *bbbbb*

The value of "*aa...aa*" exceeds the system maximum value *bbbbb*.

aa...aa: Applicable item

{ ADT LEVEL (*number of generations of abstract data types*) }

bbbbb: System maximum value

{ 30000 }

S: Ignores this SQL statement.

P: This problem cannot be resolved due to a system limitation. This SQL statement cannot be executed. If the problem is with the SQL statement, correct the error and re-execute.

KFPA11716-E A

Unable to change definition of column specified in *aa...aa* operand in view definition

The data type or definition length of a column in a base table specified in one of the following items in the view definition cannot be changed:

- Concatenation operation
- Scalar function
- CASE function
- CAST specification
- Function invocation

If one of the following facilities is specified in a view definition statement, the data type and definition length of columns used by the view definition cannot be changed.

- Row subquery
- Scalar subquery that specified a set operation
- Table subquery that specified a set operation
- A table subquery with two or more results columns, other than with the EXISTS predicate
- Scalar subquery of a selection expression
- Scalar subquery in the left side row value constructor of a comparison predicate, IN predicate, or quantified predicate
- Scalar subquery in a BETWEEN predicate, LIKE predicate, XLIKE predicate, and SIMILAR predicate

aa...aa: Nature of error:

```
{ concatenation | scalar function | CASE expression
  | function invocation | CAST specification subquery }
```

S: Ignores this SQL statement.

P: Correct the SQL statement or delete the view table, then re-execute.

KFPA11717-E A

Unable to rename *aaaaaa* name on "*bb...bb*" due to *cc...cc*

Table or column name cannot be changed for the following reason:

- A view table has been created based on the table to be changed.
- A trigger is defined in the table to be changed.
- A check constraint is defined in the table to be changed.

- A column to be changed is used in the search condition of a check constraint.
- A referential constraint (foreign key) is defined in the table to be changed.
- A column to be changed is comprised of a foreign key.
- A table to be changed is a referenced table of a referential constraint.
- A column to be changed is comprised of the primary key of a referenced table of a referential constraint.
- The table to be changed is specified in a stored procedure or trigger SQL statement.
- An attempt was made to change a column name of a view table.
- An attempt was made to change the column name specified by the trigger execution event.
- An attempt was made to change the name of the referred column using the old or new values correlation name in the search conditions of the trigger operation.
- An attempt was made to change the name of the column referred to using the old or new values correlation name in the trigger SQL statement.
- An attempt was made to change the table name or column name of the falsification prevented table.

aaaaaa: Item to be changed:

COLUMN: Column name

TABLE: Table name

bb...bb: Table or view table name

cc...cc: Error:

used on view: View is defined

used on trigger: Trigger is defined.

check constraint: Check constraint is defined.

check column: Column name used in a check constraint search condition.

referential constraint: Referential constraint (foreign key) is defined.

foreign key column: Name of a column comprised of a foreign key.

referenced table: Referenced table of a referential constraint.

referenced primary key: Column comprised of the primary key of a referenced table of a referential constraint.

used on stored procedure: Used by a stored procedure or a trigger SQL

statement.

`view's column`: Column name to be changed is a column name in a view table

`trigger column`: Column name to be changed was defined in the trigger event.

`triggered action condition`: Column name to be changed referred to an old or new correlation name in the search condition of a trigger operation.

`triggered SQL statement`: Column name to be changed referred to an old or new correlation name in the trigger SQL statement.

`INSERT ONLY table`: Table to be changed is a falsification prevented table.

S: Ignores this SQL statement.

P:

`cc...cc` is used on stored procedure or used on view:

Delete the view table, stored procedure, or trigger that uses the table to be changed and re-execute the `ALTER TABLE` statement. Then, re-create the view table, stored procedure, or trigger.

`cc...cc` is view's column

Execute `DROP VIEW`, then execute `CREATE VIEW` using a different column name, then change the column name.

`cc...cc` is used on trigger:

Drop the trigger defined for the table to be changed, and re-execute `ALTER TABLE`. Then re-create the trigger.

`cc...cc` is check constraint:

Revise the table name, and re-execute.

`cc...cc` is check column:

Revise the column name, and re-execute.

`cc...cc` is referential constraint:

Revise the table name, and re-execute.

`cc...cc` is foreign key column:

Revise the column name, and re-execute.

`cc...cc` is referenced table:

Revise the table name, and re-execute.

`cc...cc` is referenced primary key:

Revise the column name, and re-execute.

cc...cc is trigger column, triggered action condition, or triggered SQL statement:

Delete the trigger using the column that attempted to change the column name and re-execute ALTER TABLE. Then re-create the trigger.

cc...cc is an INSERT ONLY table:

The falsification prevented table cannot change the table name or alias. Review the table name and re-execute.

KFPA11718-E A

Invalid use of column suppress specification

One of the following errors was detected in the definition of column data restriction:

- Specified for a FIX table
- Specified for a column whose data type is not CHAR, MCHAR, or NCHAR
- The column suppress specification is specified for a repetition column.

S: Ignores this SQL statement and terminates the transaction.

P: Correct the SQL statement and re-execute.

KFPA11720-E L+A

Error occurred in HiRDB/client, inf1=*aa...aa*, inf2=*bbb*

Internal conflict occurred in the client library of the HiRDB system.

The error may be due to either of the following factors:

- The host specified in the *pdstart* command and the host specified in *PDHOST* on one hand and the client-side system on the other hand are in a condition that prevents them from communicating with each other on the network
- The communications load is high

If an X/Open-compliant UAP is executed under the OLTP environment, a transaction was not started by using the *tx_begin* function.

aa...aa: Name of the source file in which the error was detected

bbb: Location of the error (line number)

S: Terminates processing.

Action

Make a backup of the error log file where the error was output, and contact a customer engineer.

If this message is output, the connection with the HiRDB server was disrupted. To execute the UAP, re-execute it beginning with the CONNECT statement.

KFPA11721-E A

User mapping for *aa....aa* on foreign server "*bb...bb*" *cc....cc*

User mapping definition for user *aa....aa* on foreign server *bb...bb* could not be created or deleted for one of the following reasons:

- If *cc....cc* is already exists, the specified user mapping definition is already defined.
- If *cc....cc* is not found in system, the specified user mapping definition was not found in the HiRDB.

aa....aa

```
{ authorization identifier |PUBLIC }
```

bb...bb

Foreign server name

cc....cc

```
{ already exists |not found in system }
```

S: Ignores this SQL statement.

Action

This SQL statement need not be executed.

KFPA11722-E A

Communication error occurred, reason=*aa....aa*

SQL processing was interrupted by a communication error.

aa....aa: Nature of error:

INVALID DATA: Invalid data was received from the server.

SERVER PROCESS DOWN: Server process was shut down.

S: Terminates processing and releases connection with the server.

P: Contact the HiRDB administrator.

Action

SERVER PROCESS DOWN:

- Check the cause of the server process shutdown, correct the error, then re-execute the UAP.
- If the high-speed connection feature (PDSERVICEPORT in the client environment definition) is used, the value specified for PDSERVICEPORT may be invalid. Check if the KFPS00860-W message was output during HiRDB startup or if the value of PDSERVICEPORT is the same as the value of `pd_service_port` (system common

definition or unit control information definition). If applicable, correct the value of the `PDSERVICEPORT` specification, and then re-execute the UAP.

If this message is output, the connection with the HiRDB server was disrupted. To execute the UAP, re-execute it beginning with the `CONNECT` statement.

INVALID DATA:

Back up the error log file and contact a customer engineer.

Do not specify the `pd_work_buff_expand_limit` operand.

KFPA11723-E L+A

Communication error occurred, reason=*aa...aa*

A communication error occurred between the HiRDB system or the HiRDB server. Or, the HiRDB system or HiRDB server is down.

aa...aa: Character string indicating the nature of the error:

CLIENT MEMORY:

A memory shortage occurred in the client library.

FES (SDS) CLOSE:

The server (SDS for HiRDB/Single Server, FES for HiRDB/Parallel Server) is engaged in termination processing.

FES (SDS) NOT UP:

The server (SDS for HiRDB/Single Server, FES for HiRDB/Parallel Server) is not running, is undergoing startup processing, or is running as a log application site.

HiRDB BUSY:

Connection cannot be established because HiRDB (server) is BUSY.

HiRDB DATA ERROR:

Communication data from the HiRDB system or HiRDB server is invalid.

HiRDB INITIALIZE:

The HiRDB system or HiRDB server is now initializing.

HiRDB NOT UP:

The HiRDB system or the HiRDB server is not running, or the Listen queue on the HiRDB server side is insufficient.

HiRDB SYSTEM ERROR:

A system error was detected in the HiRDB system or the HiRDB server.

HiRDB MEMORY:

Memory on the HiRDB system or HiRDB server is low.

INIT ERROR:

An error occurred in the initialization process of the communication.

INVALID SERVER TYPE:

The HiRDB (server) server type differs from the PDSRVTYPE (client environment definition).

NETWORK:

A network failure occurred, or the HiRDB server abnormally terminated and disconnected itself from the network.

S: Terminates processing.

P:

HiRDB BUSY displayed as *aa....aa*:

Wait a while, then re-execute. If the same message is reissued, contact the HiRDB administrator.

Other message displayed as *aa....aa*:

Report the nature of the error to the HiRDB administrator, correct the error, then re-execute.

Action

Check the error log file (created under PDCLTPATH) the HiRDB client outputs for the cause of the failure, eliminate the cause, and re-execute.

If this message (*aa....aa* is "HiRDB NOT UP") continues to be output when the UAP starts, even though the connection target HiRDB has started, review the value of the PDHOST or PDNAMEPORT operands in the client environment definition. Also, use the event log (in UNIX, syslogfile) to determine whether an error has occurred in the HiRDB server.

If the value of the PDHOST or PDNAMEPORT operand is correct and the KFPZ02444-E message (func=connect and the value indicated by *errno* is either ETIMEDOUT or ECONNREFUSED) is output to an error log file, there may be too many connection requests for the HiRDB server. In this case, wait for a short time and re-execute or increase the specification value of the Listen queue. For details about the Listen queue, see the *HiRDB Version 8 Installation and Design Guide*.

If the connection destination HiRDB is using Real Time SAN Replication with

the log-only synchronous method and *aa...aa* is "FES (SDS) NOT UP", it is possible that the HiRDB is running as a log application site. If that is the case, ask the HiRDB administrator about the condition. If necessary, change the connection destination to the application site HiRDB, and re-execute the command.

If this message is output, the connection with the HiRDB server was disrupted. It may be necessary to re-execute the command beginning with the CONNECT statement.

KFPA11724-E L+A

Environment definition error, variable=*aa...aa*, reason=*bb...bb*, identifier="*cc...cc*"

An environment variable is invalid.

aa...aa: Name of invalid environment variable

If the environment variable begins with PDPLUGIN, either the length of the plug-in environment variable is excessive or there are too many environment variables to be stored in the buffer.

bb...bb: Reason for the error:

INVALID CHAR: An invalid character was detected.

NET ENVIRONMENT: Specification does not match the network environment.

NO VALUE: A specification value is missing.

OUT OF RANGE: Specified value is outside the permitted range.

NOT ENVIRONMENT GROUP: The environment variable group specified in the registry does not exist.

INVALID IDENTIFIER: The identifier is invalid.

cc...cc:

Invalid identifier (first 30 bytes only if the identifier is longer than 30 bytes)

This is displayed if the cause is INVALID IDENTIFIER; it is not displayed in all other cases.

S: Terminates processing.

P: Correct the specification of the environment variable and re-execute.

KFPA11725-E L+A

Other SQL executing cannot execute next SQL

The next SQL statement is executed before the execution of the previous SQL statement was completed. Or, for a multi-threaded UAP, the same connection handle is being used by multiple threads, or the SQL statement is executing without a connection handle.

S: Terminates processing.

O: Wait for the processing of the first SQL to terminate, and then re-execute the next SQL.

KFPA11727-E L+A

Unable to execute SQL, for termination process HiRDB

An SQL statement cannot be executed, because the HiRDB system or server is engaged in termination processing.

S: Terminates processing.

P: Check that the HiRDB system or server is active, and re-execute the UAP.

KFPA11728-E L+A

Error occurred in HiRDB, reason=*aa....aa*

The HiRDB system or server made an error control return.

aa....aa: Character string indicating the reason:

FALSE:

Locking of a resource failed.

NO FES (SDS) :

Either an available server (single server (SDS) or front-end server (FES)) does not exist or an attempt was made to connect to a log application site.

SHUTDOWN:

The HiRDB system is engaged in shutdown processing.

S: Terminates processing.

P: If the reason code is FALSE

Retry the command.

If the reason code is either NO FES (SDS) or SHUTDOWN

Confirm that the HiRDB has started, and then re-execute the UAP. If this message is output, the connection with the HiRDB server was disrupted. It may be necessary to re-execute the UAP beginning with the CONNECT statement.

If the HiRDB is running in NO FES (SDS) as a log application site, specify a transaction execution site as a connection destination, and re-execute the UAP.

KFPA11729-E A

Insufficient memory on *aa....aa*, size=*bbbb*

There is not enough memory to execute an SQL statement.

aa....aa: Character string indicating the type of area that was to be allocated:

2. Messages

DYNAMIC_SHMPOOL: Dynamic shared memory

PROCESS: Process private area

STATIC_SHMPOOL: Static shared memory

bbbb: Size of the area that was to be allocated (in bytes)

S: Terminates processing.

Action

Allocate the memory required for execution and re-execute.

KFPA11731-E L+A

System call error, func=*aa...aa*, errno=*bbb*

System call *aa...aa* resulted in an error.

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

bbb: Error number returned from the system call

S: Terminates processing.

P: Check the meaning of the error indicator value, eliminate the cause of the error by referencing `errno.h` and the applicable OS manual, then re-execute.

KFPA11732-E L+A

Time over, no response from HiRDB[,WAITTIME=*aaaaa*]

Because the HiRDB server was shut down or HiRDB server processing was not completed within the timer monitoring interval, a query cannot be sent to the HiRDB server.

The [,WAITTIME=*aaaaa*] message can be output when the Type4 JDBC driver is being used.

aaaaa: The client's maximum wait time (value of the `PDCWAITTIME` operand of the client environment definition or the value of `Statement#setQueryTimeout`).

S: Terminates processing.

P:

If the HiRDB server was shut down, check that the HiRDB server is active, and re-execute. If the HiRDB server was not shut down, increase the client's maximum wait time (value of the `PDCWAITTIME` operand of the client environment definition or the value of `Statement#setQueryTimeout`), and re-execute the UAP.

If this message is output, the connection with the HiRDB server was disrupted. It may be necessary to re-execute the UAP beginning with the `CONNECT` statement.

This error can occur if an invalid IP address (an address that cannot be accessed

from the HiRDB server) or a host name is specified in the `PDCLTRCVADDR` variable in the client environment definition. From the host containing a single server or a front-end server for the HiRDB server, check whether the IP address specified in the `PDCLTRCVADDR` variable can be transmitted by means of the `ping` command.

This error can also occur if the address associated with the host name assigned to `PDCLTRCVADDR` differs between the host containing the HiRDB server and the host containing the UAP. Make sure that the address associated with the host name assigned to `PDCLTRCVADDR` is correct.

KFPA11733-E L+A

Error occurred in HiRDB, `inf1=aa....aa`, `inf2=bbbb`

Invalid data was received from the HiRDB server.

`aa....aa`: Name of source file in which the error was detected

`bbbb`: Location where the error was detected (line number)

S: Terminates processing.

Action

When the error log file is output, back up the error log file, eliminate the cause of the error in the server, then contact a customer engineer.

KFPA11734-E L

Unable to get IPaddr of FES(SDS) host, `hostname=aa....aa`

The IP address of the host name where the HiRDB/Single Server (SDS) or the HiRDB/Parallel Server (FES) is located cannot be obtained.

`aa....aa`: Name of the host whose IP address was to be obtained

S: Terminates processing.

P: Refer to the contents of the `hosts` file at the host where the UAP was executed, add the definition of the host name displayed in the message, and then re-execute the UAP.

KFPA11735-E L

FES(SDS) canceled

SQL execution was cancelled based on a cancellation request received from the UAP. Processing cannot continue.

S: Terminates processing.

P: Because the requested processing has been cancelled, re-execute the UAP if necessary.

KFPA11736-E A

`aa....aa bb....bb."cc....cc"` not convert to 64-bit

The specified *aa....aa bb....bb."cc....cc"* is not compatible with the 64-bit mode.

aa....aa: Type:

View: View table

Routine: Routine

Trigger: Trigger

bb....bb: Authorization identifier

cc....cc: Table identifier, routine identifier, or trigger identifier

S: Ignores this SQL statement.

Action

Use the `pdobjconv` command to make the viewed table or the routine 64-bit mode compatible. Then, re-execute the UAP statement.

KFPA11737-E A

RDAREA for specified *aa....aa* already removed, server=*bb....bb*

The RDAREA at server *bb....bb* for storage of *aa....aa*, as specified by the SQL statement, has already been deleted by the database structure modification utility (`pdmod`).

aa....aa: LIST (list)

bb....bb: Server name

S: Ignores this SQL statement.

P: First delete the list specified by the SQL statement, then re-create the list and re-execute.

KFPA11738-E A

No RDAREA for *aa....aa*, server=*bb....bb*

The SQL statement cannot be executed because no RDAREA for *aa....aa* exists at server *bb....bb*.

Or, the SQL statement cannot be executed because all RDAREAs for *aa....aa* at server *bb....bb* are on shutdown status.

aa....aa: LIST (list)

bb....bb: Server name

S: Ignores this SQL statement.

P:

Use the database structure modification utility (`pdmod`) to allocate an RDAREA, and then re-execute the SQL statement.

Or, release the RDAREAs from shutdown status by removing the error cause, and then re-execute the SQL statement.

If this message is output, the connection with the HiRDB server was disrupted. It may be necessary to re-execute the UAP beginning with the CONNECT statement.

KFPA11740-E A

Unable to execute SQL for definition due to *cc....cc aa....aa."bb....bb"*

1. The routine *aa....aa."bb....bb"* for the SQL object that uses the resource to be deleted or changed exists. Therefore, the following definition SQL statements that invalidate the SQL objects cannot be executed. Or, because the routine *aa....aa."bb....bb"* for the SQL object that uses the resource to be deleted or changed is being executed, the following definition SQL statements cannot be executed:
 - ALTER TABLE (change the table definition)
 - CREATE TABLE (define a table)
 - CREATE TRIGGER (define a trigger)
 - CREATE TYPE (define a data type (subtype))
 - DROP DATA TYPE (delete a data type)
 - DROP FOREIGN TABLE (delete a foreign table)
 - DROP FUNCTION (delete a function)
 - DROP INDEX (delete an index)
 - DROP PROCEDURE (delete a procedure)
 - DROP SCHEMA (delete a schema)
 - DROP TABLE (delete a table)
 - DROP TRIGGER (delete a trigger)
 - DROP VIEW (delete a view)
 - REVOKE access permission (delete access permission)
2. The view table *aa....aa."bb....bb"* that uses the resource to be deleted exists. Therefore, the following definition SQL statements cannot be executed:
 - DROP FUNCTION (delete a function)
 - DROP DATA TYPE (delete data type)
 - DROP SCHEMA (delete a schema)
3. Because the trigger *aa....aa."bb....bb"* used in the search conditions of a trigger operation exists for the deleted function, the following definition SQL statements

cannot be executed:

- DROP FUNCTION (delete a function)
- DROP SCHEMA (delete a schema)

aa....aa: Authorization identifier

bb....bb: Routing identifier, table identifier, or trigger identifier

cc....cc: {ROUTINE | TABLE | TRIGGER }

S: Invalidates this transaction.

P:

cc....cc is ROUTINE

If you can delete the SQL object, specify WITH PROGRAM and re-execute. If a routine is being executed, terminate the routine before re-executing.

cc....cc is TABLE

Re-execute after deleting view table *aa....aa*. "*bb....bb*".

cc....cc is TRIGGER

Delete trigger *aa....aa*. "*bb....bb*" and then re-execute. Alternatively, if you can invalidate a trigger for the DROP FUNCTION, specify WITH PROGRAM and re-execute.

KFPA11741-E A

Unable to drop datatype due to used by *aa....aa* *bb....bb*. "*cc....cc*"

The specified data type is used by *bb....bb*. "*cc....cc*" of *aa....aa*. Therefore, it cannot be deleted.

aa....aa: Resource using the data type

{TABLE, INDEX, DATATYPE, INDEXTYPE }

bb....bb: Authorization identifier (owner of the resource being used)

cc....cc: Name of the resource being used

S: Ignores this SQL statement.

P: Check whether the definition of the resource being used can be deleted. If it can be deleted, delete the definition and re-execute this SQL statement.

KFPA11743-E A

Foreign key *aa....aa*. "*bb....bb*" mismatch primary key code=*cc* (*dd....dd*)

Foreign key *aa....aa*. "*bb....bb*" does not match the primary key that the foreign key references.

aa....aa: Authorization identifier

bb....bb: Constraint name

cc: Reason code

dd....dd: Additional error information

S: Ignores this SQL statement.

P: The reason codes and the additional error information are listed below. Remove the cause of the error, and re-execute the SQL statement.

Reason code (cc)	Additional error information (dd....dd)	Explanation
01	number of columns	The number of columns that comprise the foreign key and the primary key are different.
02	data types	The data types of the columns that correspond to the foreign key and the primary key are different.
03	data length	The data lengths of the columns that correspond to the foreign key and the primary key are different.

KFPA11744-E A

Unable to define referential constraint *aa....aa*."*bb....bb*" for *ee....ee*."*ff....ff*" code=*cc* (*dd....dd*)

Unable to define referential constraint *aa....aa*."*bb....bb*" for referenced table *ee....ee*."*ff....ff*", for the reason shown in *cc*.

aa....aa: Authorization identifier

bb....bb: Constraint name

cc: Reason code

dd....dd: Additional error information

ee....ee: Authorization identifier

ff....ff: Table identifier

S: Ignores this SQL statement.

P: The reason codes and the additional error information are listed below. Remove the cause of the error, and re-execute the SQL statement.

Reason code (cc)	Additional error information (dd....dd)	Explanation
01	foreign table, view, or alias	A foreign table, view table and table alias cannot be specified in a referenced table.

Reason code (cc)	Additional error information (dd....dd)	Explanation
02	Primary key not defined	No primary key has been defined for the referenced table.
03	WITHOUT ROLLBACK table	In a referenced table, a table with the WITHOUT ROLLBACK specification cannot be specified.
04	own table	One's own table cannot be specified in a referenced table.
05	another user's table	The table of another user cannot be specified in a referenced table.

KFPA11745-E A

Unable to specify partitioning key on column "*aa...aa*"

A storage condition cannot be specified in a hash partitioning key or in the following attribute columns:

- CHAR, VARCHAR, MCHAR, or MVARCHAR with a definition length of 256 bytes or more
- NCHAR or NVARCHAR with a definition length of 128 characters or more
- For single column partitioning, a column that is not the first column comprising the cluster key

For multicolumn partitioning or matrix partitioning, a column for which the sequence of columns specified in the partitioning key is different from the sequence of columns specified in the cluster key

- BLOB
- A column duplicated in a multicolumn partition or the partitioning key of a matrix partition
- Repetition column
- BINARY
- TIMESTAMP with fractional second precision greater than 0
- Column that specifies CURRENT_TIMESTAMP USING BES as the default value

aa...aa: Column name where the error occurred

S: Ignores this SQL statement.

P: Specify the partitioning condition in an attribute column that can be used to specify partitioning conditions and re-execute.

If a cluster key is specified, specify the columns in the cluster key in the same

sequence as the columns specified in the partitioning key, starting from the beginning and including all of the columns, and re-execute.

KFPA11746-E A

Incompatible data type specified at partitioning condition *aaaa* for column "*bb...bb*"

One of the following errors was detected in the condition value of storage condition *aaaa* specified in the "*bb...bb*" column:

- The data type of the condition value cannot be converted into the data type of the column specified in the storage condition.
- The data length of the condition value exceeds the data length of the column specified in the storage condition.
- The condition value is logically invalid.
- The condition value data is invalid.

aaaa: Sequential number of the storage condition

bb...bb: Column name specifying the storage condition value that caused the error

S: Ignores this SQL statement.

P: Convert the storage condition value into a data type that can be converted and re-execute.

KFPA11747-E A

Invalid partitioning condition *aaaa* for column "*bb...bb*"

One of the following errors was detected in storage condition *aaaa* specified in partitioning key "*bb...bb*".

- When the storage conditions were evaluated in the specified order, there was no row to store according to storage condition *aaaa*.
- A storage condition was specified in more than one column.
- The length of a character strings in the storage condition is 0.

aaaa: Sequential number of the storage condition

bb...bb: The column name specifying the storage condition value that caused the error (***** is displayed when the column name specifying the partitioning condition cannot be determined)

S: Ignores this SQL statement.

P: Correct the value specified as the storage condition and re-execute.

KFPA11748-E A

Number of defined foreign keys referencing primary key in a table exceeds 255, table=*aa....aa*. "*bb...bb*"

The number of foreign keys that reference the primary key of referenced table *aa...aa.bb...bb* exceeds the maximum number (255).

aa...aa: Authorization identifier

bb...bb: Table identifier

S: Ignores this SQL statement.

P: Drop the table that defines the foreign key, and then re-execute the SQL statement.

KFPA11749-E A

Duplicate column name "*aa...aa*" in foreign key *bb...bb.cc...cc*

Column name "*aa...aa*" is duplicated in foreign key *bb...bb.cc...cc*.

aa...aa: Column name that comprises the foreign key

bb...bb: Authorization identifier

cc...cc: Constraint name

S: Ignores this SQL statement.

P: Revise the column names that comprise the foreign key to remove duplicates, and then re-execute.

KFPA11750-E A

Invalid ALLOCATE clause for column "*aa...aa*"

An error was detected in the ALLOCATE clause specified in the "*aa...aa*" column.

If the column data is an abstract data type, you have to specify an RDAREA for storing each LOB for all BLOB attributes included in the abstract data type. Or, the BLOB attribute is defined in the super type of the specified abstract data type.

aa...aa: Column name specifying the ALLOCATE clause

S: Ignores this SQL statement.

P: Correct the ALLOCATE clause of the SQL statement and re-execute. However, if the BLOB attribute is defined in the super type of the specified abstract data type, this SQL statement cannot be executed.

KFPA11752-E L+A

Already connected

The CONNECT statement was already issued. The CONNECT statement cannot be issued again after connecting to the HiRDB system.

S: Terminates the process.

P: Re-evaluate the program and check for errors in the order the SQL statements were issued. If necessary, either delete this CONNECT statement or add a DISCONNECT statement in front of this CONNECT statement.

KFPA11753-E A

Invalid option specified for column "*aa...aa*"

An error was detected in the option specification of column "*aa...aa*".

- The `with default` option cannot be specified in an abstract data type column.
- `PLUGIN` cannot be specified for columns other than abstract data type columns provided by the plug-in developer.

aa...aa: Column name with an invalid option specified

S: Ignores this SQL statement.

P: Correct the specification of the column definition in the SQL statement and re-execute.

KFPA11754-E A

Duplicate routine name *aa...aa."**bb...bb*"

The routine name specified by the `FOR` clause in the `CREATE INDEX` statement was duplicated.

aa...aa: Authorization identifier

bb...bb: Routine identifier

S: Ignores the SQL statement.

P: Correct the routine name and re-execute.

KFPA11756-E A

No available pages in RDAREA, RDAREA=*aa...aa*

A page shortage occurred in the RDAREA.

aa...aa: Name of the RDAREA with insufficient free space

S: Ignores this transaction.

Action

Perform one of the following actions, and then re-execute the SQL statement in this transaction:

- RDAREA expansion
Expand the capacity of the RDAREA with insufficient space using the `pdmod` utility.
- Table reorganization or batch index creation
Reorganize the table stored in the applicable RDAREA using the `pdroorg` utility. Alternatively, execute batch index creation.
- Release the free page

Use the `pddbst` utility to analyze the status of the applicable RDAREA and execute the `pdreclaim` utility on an index when necessary. Also, if variable length character string type, BINARY type, or abstract data type data with a definition length of 256 bytes or more or branching lines of a repetition column is stored, execute the `pdreclaim` utility on a table if necessary.

If this message is output during execution of `pdload` or `pdrorg`, execute one of the following processing functions, and then re-execute the command.

1. RDAREA extension

Use the database structure modification utility to expand the size of the insufficient RDAREA.

2. Change the storage format of variable length character column data

For tables with VARCHAR, NVARCHAR, or MVARCHAR columns with a defined length of 256 or more bytes, if the `no split` option can be specified, redefine the table using `CREATE TABLE`. The number of pages required for data storage can be deleted.

3. Change the percentage of unused area or percentage of empty pages (action when the RDAREA cannot be expanded immediately)

Change using one of the following methods:

- Reduce the value specified in the `PCTFREE` operand specified in `CREATE TABLE` and `CREATE INDEX`, and then redefine the table or index.
- Specify the `tblfree` or `idxfree` operand in the `option` control statement of the database load utility (`pdload`) or the database reorganization utility (`pdrorg`), and change the specified value to a value less than the value specified in the `PCTFREE` operand.

KFPA11758-E A

Invalid "EXCEPT VALUES" for *aa...aa*

One of the following errors was detected in the exception key value for the specified index:

- NULL was specified as a value comprising an exception key value in the column of a NOT NULL constraint.
- An exception key value was specified in the index of a repetition column.

aa...aa: {CREATE INDEX|CREATE FOREIGN INDEX}

S: Ignores this SQL statement.

P: Correct this SQL statement, and then re-execute it.

KFPA11761-E A

PLUGIN for *aa...aa."*bb...bb" not registered

This SQL cannot be executed because a plug-in is not registered.

Plug-ins must be registered in the index type specified by the plug-in index definition.

aa...aa: Authorization identifier

bb...bb: Data type or index type identifier

S: Ignores this SQL statement.

P: Register the plug-in, and then re-execute.

KFPA11764-E A

Number of index columns unequal to number of "EXCEPT VALUES" columns

The number of columns comprising the index and the number of values comprising the exception key value do not match.

S: Ignores this SQL statement.

P: Set the number of columns comprising the index and the number of values comprising the exception key value to the same value.

KFPA11766-E A

Unable to define *aa...aa cc...cc "bb...bb"* for specified data type
aa...aa cannot be defined in column "*bb...bb*".

The following columns cannot be specified when *aa...aa* is multi-value:

- BLOB column
- Abstract data type column
- BINARY type column

The following columns cannot be specified when *aa...aa* is no-split or split:

- Columns other than VARCHAR, MVARCHAR, or NVARCHAR

The following columns cannot be specified when *aa...aa* is collating-sequence:

- CHAR, VARCHAR, MCHAR, MVARCHAR, NCHAR or NVARCHAR

The following columns cannot be specified when *aa...aa* is trailing-space:

- VARCHAR, MVARCHAR, or NVARCHAR

If *aa...aa* is recovery, the following columns cannot be specified:

- BLOB and non-BLOB attribute columns

If *aa...aa* is with default, the following columns cannot be specified:

- Columns of the abstract data type

aa...aa:

multi-value: A repetition column

no-split: A column with the no-split option specified

split: A column without the no-split option specified

collating-sequence: A column with the COLLATING-SEQUENCE option specified

trailing-space: A column with the TRAILING-SPACE option specified

recovery: Columns with a RECOVERY specification

with default: Columns with a WITH DEFAULT clause specification

bb...bb: Column name

cc...cc:

column: The column name

attribute: The attribute

S: Ignores this SQL statement.

P: Correct the SQL statement then re-execute.

KFPA11769-E A

Unable to lock system table

LOCK statements cannot be executed on a system table or on a view table that is based on a system table.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11770-I A

aa...aa [*bb...bb cc...cc*] currently in use, resource id=*dd...dd*

An SQL statement or a utility cannot be executed because the resource indicated by resource ID *dd...dd* is occupied by another transaction.

aa...aa: Resource type alias

bb...bb: Resource name 1

cc...cc: Resource name 2

dd...dd: Resource information

For details on resource type names, resource names, and resource information, see the *HiRDB Version 8 System Operation Guide*.

S:

SQL statement

If `NO WAIT` is specified in the lock option, this SQL statement is ignored and processing continues. Otherwise, the transaction is rolled back. However, even if `NO WAIT` is specified, the transaction might be rolled back. For details, see the explanation of the `NO WAIT` operand in the manual *HiRDB Version 8 SQL Reference*.

Utility

Processing terminates.

P:

If this message is output frequently with this SQL statement, consider revising the SQL lock option and the UAP lock control. For details, see the lock option explanation in the manual *HiRDB Version 8 SQL Reference* and the explanation of UAP design in the *HiRDB Version 8 UAP Development Guide*.

O:

Re-execute. Depending on the timing, this might be successful. For details, see the explanation of measures for deadlocks and timeouts in the *HiRDB Version 8 System Operation Guide*.

If a shared table is used with a HiRDB/Parallel Server, verify that an updatable back-end server is active. If not, re-start the server, and then re-execute.

Action

If this message is output frequently for an SQL statement for which `NO WAIT` and `WITH ROLLBACK` are not specified in the lock option, consider changing the value of the `pd_lck_wait_timeout` operand.

KFPA11771-E A

Not specified index RDAREA in same server as table RDAREA

The specified index storage RDAREA was not found on the server. The index storage RDAREA includes an RDAREA for storing cluster key indexes and an RDAREA for storing a primary key index.

S: Ignores this SQL statement.

P: Specify the index storage RDAREA on the server containing the table storage RDAREA and re-execute the SQL statement.

KFPA11773-E A

Invalid specification of base tables for LIST

One of the following errors was detected in the specification of the tables on which to base the list to be created:

- A view table was specified.
- A table alias was specified.

2. Messages

- A table at another RD node was specified.
- A foreign table was specified.
- A shared table was specified.
- A table with `WITHOUT ROLLBACK` specified was specified.

S: Ignores this SQL statement.

P: Correct the specification of the tables on which to base the list.

KFPA11774-E A

Base tables for LIST conflict

A base table for a list used for performing a set operation in the `ASSIGN LIST` statement differs from the base tables of the other list.

S: Ignores this SQL statement.

P: Correct the specified list name if there is an error, and then re-execute the SQL statement.

KFPA11775-E A

Unable to define function "*aa....aa*". "*bb....bb*" because of same signature as system function

The specified function "*aa....aa*" . "*bb....bb*" cannot be defined because it has the same name and SQL parameter configuration as a function provided by the system.

aa....aa: Authorization identifier

bb....bb: Routine identifier

S: Ignores this SQL statement.

P: Change the routine identifier and re-execute this SQL statement.

KFPA11776-E A

Invalid specification in `ASSIGN LIST` statement

One of the following errors occurred in the `ASSIGN LIST` statement.

- An arithmetic operation, date operation, concatenation operation scalar function, `CASE` expression, `CAST` specification, or component specification is specified in a search condition.
- A column in a search condition is qualified by a table name or a correlation name.
- A column is specified on both sides of the comparison operator in a search condition.
- A column is specified in value expression 2 or 3 of the `BETWEEN` predicate in a search condition.
- A literal, `USER`, `CURRENT_DATE`, `CURRENT_TIME`, or `CURRENT_TIMESTAMP` is

specified on both sides of the comparison operator in a search condition.

- A literal, USER, CURRENT_DATE, CURRENT_TIME, or CURRENT_TIMESTAMP is specified on the left side of the IN predicate in a search condition.
- A literal, USER, CURRENT_DATE, CURRENT_TIME, or CURRENT_TIMESTAMP is specified in value expression 1 of the BETWEEN predicate in a search condition.
- A literal, USER, CURRENT_DATE, CURRENT_TIME, or CURRENT_TIMESTAMP is specified on the left side of the LIKE predicate or XLIKE predicate in a search condition.
- A literal, USER, CURRENT_DATE, CURRENT_TIME, or CURRENT_TIMESTAMP is specified on the left side of the SIMILAR predicate in a search condition.
- A user-defined function other than a plug-in function for packaging logic that uses an index is specified.
- No ANY subscript is specified in the repetition column in a search condition.
- A predicate for a repetition column is negated by NOT.
- A condition expression specifying ANDNOT is negated by NOT.
- An IS FALSE or IS UNKNOWN Boolean predicate is specified.
- An IN predicate specifying a subquery is negated by NOT.
- A Boolean predicate is negated by NOT.
- Two or more send functions for passing inter-function values that can store inter-function values were specified in a list.
- Set operations cannot be performed on a list that stores inter-function values (for details on set operations on lists that store inter-function values, see the *HiRDB Version 8 UAP Development Guide*).

S: This SQL statement is ignored.

P: Correct the SQL statement, and then re-execute it.

KFPA11777-E A

Unable to execute due to type *aa....aa*."bb...bb" in use

This SQL statement cannot be executed because the abstract data type *aa....aa* ."bb...bb" is being used by another user.

aa....aa: Authorization identifier

bb...bb: Data identifier

S: Ignores this SQL statement.

P: Re-execute this SQL statement.

KFPA11778-E A

Invalid specification in query with LIST

One of the following errors occurred in the specification in a query using a list.

- A set function was specified in the SELECT clause of the outermost query.
- A window function is specified in the SELECT clause in the outermost query.
- A subquery was specified in the SELECT clause of the outermost query.
- ROW was specified in the SELECT clause of the outermost query.
- *Table-specification* . * was specified in the SELECT clause of the outermost query.
- A column specification with a table qualifier was specified in the SELECT clause of the outermost query.
- A column name with a qualifier was specified in the ORDER BY clause.
- For a list that does not store inter-function values, a receive function for passing inter-function values was specified in a projection column.
- More receive functions for passing inter-function values were specified in the projection column than the number of inter-function values that were stored in the list.

S: Ignores this SQL statement.

P: Correct the SELECT statement using the list and re-execute.

KFPA11780-E A

No appropriate index on table *aa....aa* . "*bb....bb*"

One of the following indexes must be defined in table *aa....aa* . "*bb....bb*" when the ASSIGN LIST statement is executed:

- The column specified in the search condition requires an index (excluding an index that has an exception key value).
- When a structured repetition predicate is specified in the search condition, an index is required that includes the column specified in the search condition in the structured repetition predicate of the configuration column.
- A single column index is required in the column of the IN predicate specifying a subquery.
- When using an index that includes repetition columns and other columns in a configuration column and evaluating the predicate for a column that is not a repetition column, an index can be used if a condition is specified in one of the columns in the repetition column.
- One of the following indexes must be defined in the column of an IN predicate that specifies a subquery. Case (b) applies only when the SQL optimization mode

is set to optimizing mode 2 based on cost.

(a) Single column index

(b) Multicolumn index starting at the column in the `IN` predicate specifying a query:

Even when the column in the `IN` predicate that specifies a subquery is not the beginning of a multicolumn index, a comparison predicate (`=`), `NULL` predicate (`IS-NULL`) or `IN` predicate (`IN`) with a value specified for the right side, must be specified in the index configuration column in front of this column. However, this excludes indexes that include a repetition column in the index configuration column. For an `IN` predicate (`IN`) with a value specified for the right side, the number of values specified must meet one of the following conditions:

- When there is one `IN` column, there are no more than 5 values specified.
- When there are two or more `IN` columns, the total number of values specified in each column must be 5 or less.
- If a search condition is not specified, any column (excluding a repetition column) in the table requires an index (excluding an index with an exception key value or a plug-in index).

aa...aa: Authorization identifier

bb...bb: Table identifier

S: Ignores this SQL statement.

P: Create the required index, and then re-execute the `ASSIGN LIST` statement.

KFPA11781-E A

Authorization identifier unable to specified for `LIST`

An authorization identifier cannot be specified for a list.

S: Ignores this SQL statement.

P: Delete the authorization identifier specified for the list and re-execute the `SQL` statement.

KFPA11782-E A

Column qualified with table specification in `ASSIGN LIST` statement

A column name in the search condition of an `ASSIGN LIST` statement cannot be qualified with a table name or correlation name.

S: Ignores this SQL statement.

P: Correct so that the column name is not qualified with a table name or correlation name, and re-execute.

KFPA11783-E A

LIST *aa...aa* not found in system

The specified list *aa...aa* does not exist.

aa...aa: List name

S: Ignores this SQL statement.

P:

Correct the list name if it is incorrect, and re-execute.

If the list name is correct, the list has not been created; in such a case, create the list and then re-execute.

KFPA11785-E A

List already dropped or altered

The SQL statement cannot be executed because the list referenced in the SQL statement has already been deleted or re-created.

S: Ignores this SQL statement.

P: Change the sequence of this SQL statement so that it will be executed before the list being referenced is deleted or re-created. If there is no need to change the sequence, perform pre-processing again and re-execute.

KFPA11787-E A

Unable to execute "*aa...aa*" due to existence of *bb...bb*'s LIST "*cc...cc*" based on the table

"*aa...aa*" cannot be executed because of an operation on the base table of list "*cc...cc*" owned by *bb...bb*.

aa...aa

{ DROP TABLE | ALTER TABLE | DROP SCHEMA }

bb...bb: Authorization identifier

cc...cc: List name

S: Ignores this SQL statement.

P: If the table in question is being used as the user's list, first delete all lists that use this table as a base table, and then re-execute.

KFPA11791-E A

Number of RDAREAs not equal to that of table partitions

The specified number of index-storage RDAREAs is invalid.

- In the case of a partitioning key index, specify the same number of index-storage RDAREAs as the number of RDAREAs for storing the row-partitioned table.

- In the case of a non-partitioning key index, specify the same number of index-storage RDAREAs as the number of RDAREAs for storing the row-partitioned table. Or, specify the same number of index-storage RDAREAs as the number of back-end servers.
- If `TYPE` is specified (format 2), specify the same number of index-storage RDAREAs as the number of table-storage RDAREAs.
- For matrix partitioning tables, specify the same number of index storage RDAREAs as RDAREAs storing matrix partitioning tables.

Or, an error was detected in the number of RDAREAs storing columns specifying the BLOB type or LOB columns with LOB attributes.

S: Ignores this SQL statement.

P: Match the specified number of index-storage RDAREAs or the number of LOB column storage RDAREAs and re-execute.

KFPA11793-E A

Invalid RDAREA "*aa....aa*" for index

Index-storage RDAREA *aa....aa* with partitioning specification does not correspond to an RDAREA for a table partitioned by boundary values.

aa....aa: Name of the invalid index-storage RDAREA

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute the job.

KFPA11795-E A

Number of partitioning *aa....aa* exceed *bbbb*

The number of duplicates-exclusion RDAREAs that can be specified during table or index partitioning exceeded the maximum of 1024.

aa....aa: Processing subject
{ table | index }

bbbb: Maximum number of duplicates-exclusion RDAREAs (512)

S: Ignores this SQL statement.

P: Correct so that the number of duplicates-exclusion RDAREAs does not exceed the maximum and re-execute.

KFPA11796-E A

Unable to specify same RDAREA "*aa....aa*"

RDAREA that is the same as the previous storage RDAREA cannot be specified.

aa....aa: Table storage RDAREA

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute the job.

KFPA11797-E A

Invalid specification for "WITHOUT ROLLBACK" table

The WITHOUT ROLLBACK option cannot be specified for any of the following tables:

- Non-FIX tables
- Tables containing a BLOB
- Tables with a LOCK PAGE specification
- Tables defining a foreign key

The following items cannot be specified for a table for which the WITHOUT ROLLBACK option is specified:

- CHANGE LOCK PAGE option of ALTER TABLE

S: Invalidates the transaction.

P: If the executed SQL statement is CREATE TABLE, correct the SQL statement and re-execute. If the executed SQL statement is ALTER TABLE, delete the SQL statement.

KFPA11798-E A

Invalid usage of DEFAULT clause for column or SQL variable
"aa....aa", code=bb

The DEFAULT clause specification is invalid in the following cases:

- During table definition
- During table definition update (during DEFAULT clause setting or DEFAULT clause deletion)
- During SQL variable declaration in routine definition

aa....aa: Alias

bb: Reason code:

01: The DEFAULT clause and WITH DEFAULT cannot be specified simultaneously.

02: The DEFAULT clause cannot be specified in a repetition column.

06: One of the following values that cannot be specified as the DEFAULT clause was specified:

- A value that cannot be converted into the data type of the specified column or SQL variable
- A value greater than the definition length of the specified column or SQL variable

- A value whose upper valid digit becomes invalid

07: USER cannot be specified in a column or SQL variable with a data type other than CHAR, MCHAR, VARCHAR, or MVARCHAR.

08: The CURRENT_DATE value function cannot be specified in a column or SQL variable with a data type other than DATE or CHAR (10).

09: The CURRENT_TIME value function cannot be specified in a column with a data type other than TIME or CHAR (8).

10: NULL cannot be specified in a column with a NOT NULL constraint.

12: A DEFAULT clause cannot be specified in columns or SQL variables of the following data types:

- BLOB
- Abstract data type
- BINARY of 32,001 bytes or more

14: The CURRENT_TIMESTAMP value function cannot be specified in a column or SQL variable with a data type other than TIMESTAMP, CHAR (19), CHAR (22), CHAR (24), or CHAR (26).

31: DROP DEFAULT cannot be specified in a column with no DEFAULT clause specification.

32: WITH DEFAULT cannot be specified in a column with a DEFAULT clause specification.

S: Ignores this SQL statement.

P: Correct the SQL statement, and then re-execute (for reason code 31 or 32, delete the SQL statement).

KFPA11800-E A

Zero divisor in arithmetic operation for *aa....aa* data type

Division by zero error occurred during an arithmetic operation on data type *aa....aa*.

aa....aa: Data type resulting in the division by zero error:

```
{ INTEGER | DECIMAL | SMALLFLT | FLOAT
  | INTERVAL YEAR TO DAY
  | INTERVAL HOUR TO SECOND | SMALLINT }
```

S: Ignores this SQL statement.

P: Modify the arithmetic expression so that division by zero does not occur, then re-execute.

KFPA11801-E A

Overflow in *aa....aa* for *bb....bb* data type

Overflow occurred during operation *aa....aa* on data type *bb....bb*.

aa....aa: Type of operation resulting in the overflow:

```
{ addition |subtraction |division |multiplication
|sign inversion |scalar function "INTEGER"
|scalar function "DECIMAL" |scalar function "DAYS"
|scalar function "DATE" |correction
|scalar function "ABS" |scalar function "MOD"
|java routine }
```

bb....bb: Data type resulting in the overflow

```
{ integer |smallint |decimal |smallflt |float
|date |interval year to day |time
|interval hour to second }
```

S: Ignores this SQL statement.

P: Modify the arithmetic expression so that overflow does not occur, then re-execute.

KFPA11802-E A

Overflow in *aa....aa* FUNCTION "*bb....bb*" for *cc....cc* data type

An overflow occurred during the processing of the set or window function *bb....bb* whose other data type is *cc....cc*.

- If COUNT is displayed as the function, the number of data items subject to processing exceeded 2,147,483,647.
- If SUM or AVG is displayed as the function, overflow occurred while adding data.

aa....aa: specified function:

```
{ SET |WINDOW }
```

bb....bb: the type of the set or window function:

```
{ SUM |AVG |COUNT }
```

cc....cc: Data type resulting in the overflow:

```
{ integer |smallint |decimal |smallflt |float }
```

S: Ignores this SQL statement.

P: Eliminate the cause of the error, such as by reducing the number of data items subject to processing, then re-execute.

KFPA11803-E A

Duplicate key value in unique index id=*aa....aa*

An attempt was made to add a duplicated column value to an index with UNIQUE specified or with a primary key. Or, an attempt was made to update a column value to a duplicated value.

aa....aa: Index number

S: Ignores this SQL statement.

P: Correct the duplicated column value and re-execute the SQL statement.

KFPA11804-E A

Invalid operation code *aaaa*

RPC interface from the client is invalid:

- Specified operation code is invalid.
- Specified system type is invalid.

aaaa: Operation code

S: Ignores this request.

P: Check the UAP preprocess, compilation, or linkage for an error. If there is no error, contact the HiRDB administrator.

Action

Contact a customer engineer.

KFPA11805-E A

Invalid section number

Section number is outside the range 1 to 4095.

S: Ignores this request.

P: Check the UAP preprocess, compilation, or linkage for an error. If there is no error, contact the HiRDB administrator.

Action

Contact a customer engineer.

KFPA11806-E A

Current number of elements exceeds *aa....aa*, columnid=*bb....bb*

The number of elements in the column added by the ADD clause in the UPDATE statement is greater than the maximum allowable number of elements.

aa....aa: Maximum number of elements

bb....bb: The column number that indicates which column caused the error

S: Invalidates this transaction.

Action

Use the ALTER TABLE statement to increase the maximum number of elements and re-execute.

KFPA11807-E A

Invalid update option

Update option is invalid for DECLARE CURSOR.

S: Ignores this request.

P: Check the UAP preprocess, compilation, or linkage for an error. If there is no error, contact the HiRDB administrator.

Action

Contact a customer engineer.

KFPA11808-E A

Row length for work list *bbbbbb* exceeds maximum list row length *aaaaa*

Row length *bbbbbb* is greater than maximum length *aaaaa* that can be stored as a work table.

aaaaa: Maximum length of row that can be stored

bbbbbb: Length of row that was to be stored

S: Invalidates this transaction.

P: Re-evaluate the number of columns and column size specified in the SELECT statement and specify a value that is no greater than the maximum length of the work table.

KFPA11809-I A

Row length *bb...bb* exceeds *aa...aa* in RDAREA *cc...cc*

Storage length *bb...bb* for the row for which INSERT or UPDATE SET is specified, or for which a data load was attempted, exceeds maximum row length *aa...aa*.

aa...aa: Maximum length of row that can be stored

bb...bb: Length of row that was to be stored

cc...cc: RDAREA name

S: Invalidates this transaction.

Action

When issued by the SQL statement

Unload the table, redefine the table in an RDAREA with sufficient page length, then reload the table.

When issued by the database load utility (`pdload`)

Use the database structure modification utility (`pdmod`) to re-initialize the RDAREA (change the page length), and then re-execute the command.

KFPA11810-E A

Duplicate key value detected in unique index while loading index
index id=*aa....aa*

A duplicated key value was detected while loading an index for which `UNIQUE` is specified or an index for the primary key.

aa....aa: Index identifier

S: Invalidates this transaction.

P:

Delete the index, correct the duplicated key value, then execute `CREATE INDEX`.

If `CLUSTER KEY` or `PRIMARY KEY` is specified for the table, restore the RDAREA from a backup that was made before execution of the `pdload` command, correct the duplicated column values in the input data, and then re-execute the `pdload` command.

KFPA11811-E A

`MASTER DIRECTORY RDAREA full`

The master directory RDAREA does not have enough space for an RDAREA, table, index, or view table to be defined.

S: Invalidates the processing and terminates abnormally.

Action

Expand the master directory RDAREA with the database structure modification utility. Or, delete unneeded tables or indexes and re-execute.

KFPA11812-E A

Number of *aaaaa* exceeds *bbbb* in RDAREA "*cc....cc*"*dd....dd*

The number of specified table or index definitions exceeds the maximum *bbbb* that can be defined in RDAREA "*cc....cc*".

Or, the number of list definitions exceeds the maximum *bbbb* that can be defined in a list RDAREA where the list definitions are not on hold (server name *dd....dd*).

aaaaa: Type of definition information:

{ TABLE | INDEX }

bbbb: Maximum number of definitions

cc....cc: RDAREA name

***** is displayed in the case of a list RDAREA.

dd....dd: Server name

The following is displayed in the case of a list RDAREA:

server=server-name

S: Invalidates this processing.

P: Take one of the following actions:

- When the attempt was to define a table or index:
Either define the table or index in another RDAREA or delete the defined table or index from the applicable RDAREA.
- When the attempt was to define a list:
Delete unneeded lists that have been defined in the applicable server. If the same error occurs even after unneeded lists have been deleted, contact the HiRDB administrator.

Action

- When the attempt was to define a list:
Use the database structure modification utility (*pdmod*) to add a list RDAREA to the applicable server. If the list RDAREA is shut down, release it from shutdown status by correcting the error.

If the number of lists that can be created in the list RDAREA is insufficient, the KFPA11812-E error may occur temporarily when the following occurs:
 - After a server process terminates, the same user reconnects to the client and executes an `ASSIGN LIST` statement before completion of the recovery process called for by the return of the KFPA11812-E error.

KFPA11814-E A

DATA DIRECTORY RDAREA full

The data directory RDAREA does not have enough space for storing the management information about a table partitioned by values or an index.

S: Invalidates the processing and terminates abnormally.

Action

Expand the data directory RDAREA with the database structure modification utility. Or, delete an unneeded index or table stored in a partition in a different RDAREA and re-execute.

KFPA11815-E A

*aaaaa*ID not found in DIRECTORY data, RDAREA="*bb....bb*" ID=*cc....cc*

No definition information for the specified table, index, or list was found in RDAREA "*bb....bb*".

aaaaa: Table, index, or list type:
{ TABLE | INDEX | LIST }

bb...bb: RDAREA name

cc...cc: Table, index, or list number

S: Terminates abnormally.

Action

Take one of the following actions:

- Table or index

Ensure that the procedure for RDAREA "*bb...bb*" is correct and restore the RDAREA.

- List

Re-create the list specified by the SQL statement.

KFPA11821-E A

More than *aa...aa* or invalid length in SQL

The length of an SQL statement exceeds *aa...aa* bytes. Or, the length is invalid.

aa...aa: Length of SQL statement

S: Ignores this request.

P: Correct the length of the SQL statement and re-execute.

KFPA11822-E A

Unable to access table due to check pending status,
tableID=*aa...aa*, RDAREA="*bb...bb*", constraint type=*cccccc*

The table denoted by *aa...aa* is unavailable for retrieval or updating because it is in check pending status.

aa...aa: Table number for the table in check pending status

bb...bb: Name of the RDAREA storing a table in check pending status

cccccc: Type of constraint defined in the table

REF: Reference constraint

CHK: Check constraint

REF: CHK: Reference and check constraints

S: Ignores this SQL statement.

Action: Use the integrity check (`pdconstck`) to reset check pending status. For the procedure for resetting check pending status, see the manual *HiRDB Version 8 Installation and Design Guide*.

KFPA11823-E A

Unable to execute SQL for definition "*aa...aa*".*bb...bb* used by pdrbal

The following SQL statements cannot be executed because the rebalancing utility is being executed:

- ALTER TABLE
- CREATE INDEX (you cannot define an index for which the number of index-storage RDAREAs does not match the number of table-storage RDAREAs)

aa...aa: Authorization identifier

bb...bb: Table identifier

S: Ignores this SQL statement.

P: When execution of the rebalancing utility terminates, re-execute the SQL statement.

KFPA11824-E A+L

Environment group file access error occurred, file name=*aa...aa*, func=*bb...bb*, errno=*cccc*

Loading of environment variable group file *aa...aa* failed.

aa...aa: Environment variable group name (the last 100 bytes only if the file name is longer than 100 bytes)

bb...bb: Name of function in which error occurred:

fopen: Opening

fgets: Loading

stat: Status acquisition

cccc: Error code (errno)

S: Terminates processing.

P: Correct the error based on the error code, and then re-execute the operation.

KFPA11827-E A

No available LOB DIRECTORY in RDAREA, RDAREA=*aa...aa*

The number of data items in the LOB RDAREA exceeded the management value for the RDAREA. This error may occur when the size of 0-length data has not been added to the RDAREA size estimate.

aa...aa: Applicable RDAREA name

S: Ignores this SQL statement.

Action

To allocate sufficient data management area for the LOB RDAREA, re-estimate the applicable RDAREA and expand it.

For details of estimating the required RDAREA size, see the *HiRDB Version 8 Installation and Design Guide*.

KFPA11828-E A

Unable to set non null value at BLOB attribute of sub type because its allocation is not defined, column no=*aa....aa*, type id=*bb....bb*, attribute no=*cc....cc*

Values of the abstract data type including the BLOB attribute for which a LOB RDAREA name was not specified during table definition cannot be stored in a column of abstract data type or in an attribute of abstract data type.

aa....aa: The column number indicating which column in the table to be updated caused the error

bb....bb: Type ID of the abstract data type that includes the BLOB attribute that cannot be stored

cc....cc: The attribute number that indicates which attribute in the abstract data type is the BLOB attribute that cannot be stored

S: Invalidates this transaction.

P: Do not specify a value of the abstract data type including the BLOB attribute for which a LOB RDAREA name was not specified during table definition as an insert value or an update value for the column or attribute that caused the error. Review the data type of the table definition for the column that caused the error.

KFPA11829-E A

Invalid use of ALIAS *aa....aa*. "*bb....bb*"

The following error was detected in the specification of table alias *aa....aa* . *bb....bb*:

- A table alias that was created based on a table at the local RD-node is specified.

aa....aa: Authorization identifier

bb....bb: Table alias

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11836-E A

Specified tables must exist in same RDNODE

A table specified in an SQL statement must be a table in the same RD-node. Or, an index in the CREATE INDEX statement must be defined in the same RD-node as the table.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11838-E A

Unable to specify "aa...aa" in LOCK TABLE with "UNTIL DISCONNECT"

A table from another RD node, a foreign table, or a view table based on a foreign table cannot be specified in a LOCK statement specifying UNTIL DISCONNECT.

aa...aa: {table on other RDNODE|foreign table|view table derived from foreign table}

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11839-E A

RDNODE name cannot be specified in table specification without specifying local RDNODE name

A table name qualified with an RD-node name cannot be specified because the RD-node name of the local node does not exist.

S: Ignores this SQL statement.

P: Delete the RD-node name from the table name specification. Or, ask the system administrator to set the RDAREA name of the local node in the system common definition, then re-execute.

KFPA11841-E A

Unable to nest remote access

During distributed database access, a distributed database access request was issued from HiRDB in the distributed server to another RD-node. A possible cause may be that a table alias identical to the table name in the SQL statement was defined in the HiRDB system on the distributed server side.

For a description of table aliases, see the *HiRDB Version 8 SQL Reference*.

S: Ignores this SQL statement; however, if a transaction was generated, executes rollback.

P:

Correct the UAP so that it accesses an RD-node containing a table to be manipulated.

If the distributed client is HiRDB, correct the RD-node name in the defective SQL statement or correct the definition of the table alias that is referenced in the defective SQL statement.

KFPA11842-E A

Unable to load shared libraries of aa...aa, inf=bb...bb

A shared library of a prerequisite program for the distributed database facility cannot

be loaded.

aa....aa: Name of the prerequisite program or shared library

bb....bb: Maintenance information

S: Ignores this SQL statement.

Action

The following are possible causes:

- The shared library of the related program does not exist.
- The contents of the shared library of the related program are invalid.
- The read or execution permission of the related program was rejected.
- Memory space is insufficient for loading the shared library of the related program.

Check whether the related program has been installed correctly.

If the program is not installed correctly:

Terminate the UAP, install the program, then re-execute the UAP.

If the program is installed correctly:

Reduce the system workload, then re-execute the UAP.

If the error recurs:

Contact a customer engineer.

KFPA11843-E A

Unable to connect to DF/UX, reason code=*aa....aa*

The specified client function cannot be connected to DF/UX.

aa....aa: DF/UX reason code

S: Ignores this SQL statement.

P: Refer to the DF/UX reason code and take appropriate action. For information on the DF/UX reason codes, see the *Distributed Database System DF/UX*.

KFPA11845-E A

Invalid use of RDAREA "*aa....aa*" errno=*b*

One of the following errors was detected:

- When errno=1

Because the specified user RDAREA stores a rebalancing table, it cannot store other tables or indexes.

2. Messages

- When `errno=2`
Because the specified user `RDAREA` already stores other tables or indexes, it cannot store a rebalancing table.
- When `errno=3`
When an index for a rebalancing table is defined, specification of an index-storage `RDAREA` cannot be omitted.

aa....aa: `RDAREA` name

b: Error code

S: Ignores this SQL statement.

P:

- When `errno=1` or `2`
Change the specified `RDAREA` name and re-execute the SQL.
- When `errno=3`
Specify an `RDAREA` for the index and re-execute the SQL.

KFPA11848-E A

Specified `RDNODE` not connected

`RD-node` specified in the `DISCONNECT` statement with `RD-node` specified or in the `SET CONNECTION` statement has not been connected.

S: Ignores this SQL statement.

P: Check the `RD-node` name for any error. If the specified `RD-node` name is correct, check the program and modify it as follows:

`DISCONNECT` statement with `RD-node` specified:

Delete any unneeded `DISCONNECT` statements with `RD-node` specified.

`SET CONNECTION` statement:

Issue the `CONNECT` statement with the correct `RD-node` specified before issuing the `SET CONNECTION` statement.

SQLCODE=-849

There is no `HiRDB` message for `SQLCODE=-849`

This `SQLCODE` has not been returned from a `HiRDB` in the distributed server. This `SQLCODE` indicates that an error occurred in `DF/UX` at an `ORACLE` distributed client.

`DF/UX` outputs a reason code indicating the cause of the error along with the `SQLCODE` code.

For details, see the manual *Distributed Database System DF/UX*.

KFPA11850-E A

SQLDA was modified after first blocked fetch

When the FETCH statement with batch retrieval specified is executed several times, the contents of the SQL data area specified in the FETCH statement parameter must not change.

S: Ignores this SQL statement.

P: Modify so that when the FETCH statement is executed several times with batch retrieval specified, the same SQL data area is used.

KFPA11855-E A

Unable to execute remote access SQL. REASON=*aa....aa*

Remote access is disabled due to the reason indicated by *aa....aa*.

aa....aa: Detailed reason

MAX RDNODE:

The maximum number of distributed servers that can be connected simultaneously exceeds the maximum value.

CHARACTER SET NOT SUPPORTED:

The current character codes used at the local system are not appropriate for remote access.

DF NOT SUPPORTED:

A distributed database facility cannot be used with this HiRDB.

S: Ignores this SQL statement.

P: Take one of the following actions:

MAX RDNODE

Ensure that the number of distributed servers to be connected simultaneously does not exceed the maximum value. In the HiRDB distributed client facility, a UAP is permitted to connect to only one distributed server at a time.

CHARACTER SET NOT SUPPORTED

Do not execute remote access.

DF NOT SUPPORTED

Do not perform remote access.

Action

Take the following action:

- CHARACTER SET NOT SUPPORTED or DF NOT SUPPORTED

The distributed database facility cannot be used, so delete it with the `pd_node_name` operand in the single server definition or front-end server definition.

KFPA11856-E A

Invalid number of variables from server system, reason code=*aa*

Because the retrieval result passed from the server system during remote access with batch retrieval is invalid, the specified processing cannot be executed.

aa: Reason code

S: Ignores this SQL statement.

Action

Check whether the system status allows connection to the server. Contact a customer engineer, if necessary.

The reason codes are explained below:

Reason code	Explanation
00	The number of SQL DBL RESULT VALUES is 1 or less. Or, the number of SQL RESULT VALUES exceeds the repetitions count specified by the client
01	The number of SQL VALUES does not match the number of retrieval items that was specified by the client.
02	FETCH processing is not aborted even though an SQL error occurred in the server system during repeat processing.
03	The retrieval result is not returned even though <code>SQLCODE=0</code> is returned from the server.

KFPA11857-E A

Data *aa...aa* of variable *bb...bb* is not supported in remote access

One of the following errors has occurred:

- A data type not supported for remote access is specified in a variable in the SQL statement.
- Either a data type or a data length not supported on the server-side system is specified.
- A variable with a repetition structure is specified.

aa...aa: Error type

type: Data type not supported

length: Data length not supported

structure: Data structure (repetition structure) not supported

bb...bb: Ordinal number of the variable

S: Ignores this SQL statement.

P: Take one of the following actions:

- Check the data type of the variable used in the SQL statement; specify a variable of the data type supported for remote access.
- Specify either the data type or the data length that is supported by the server-side system.
- Do not use variables of a repetition structure.

KFPA11858-E A

Unable to use *aa...aa* in remote access

aa...aa cannot be used in remote access.

aa...aa: WRITE specification

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA11860-E A

Negative SQLCODE received from server during remote access, SQLCODE=*aa...aa*, SQLSTATE=*bb...bb*, server=*cc...cc*, process ID= *dd...dd*, connection ID=*ee...ee*, RMID=*ff...ff*

Negative SQL code was returned from a distributed server's system or a distributed client's DF/UX Extension during remote database access.

aa...aa:

SQL code returned from distributed server's system or distributed client's DF/UX Extension. In the case of SQLCODE returned from a distributed server's system, the meaning depends on the server system.

bb...bb:

SQLSTATE returned from distributed server's system or distributed client's DF/UX Extension. In the case of SQLSTATE returned from a distributed server's system, the meaning depends on the server system.

cc...cc:

Character string indicating the DBMS type of the distributed server (the actual character string is set by the distributed server's system; if it cannot be displayed, one asterisk (*) is displayed)

dd...dd:

Process ID of the single server or front-end server

ee....ee:

ID of connection between HiRDB and DF/UX (if this information cannot be displayed, one asterisk (*) is displayed)

ff....ff:

RMID passed from HiRDB to DF/UX (if this information cannot be displayed, one asterisk (*) is displayed)

S: Ignores this SQL statement.

O: Confirm whether the SQLCODE was set by DF/UX Extension.

SQLCODE set by DF/UX Extension:

Resolve the error, and then re-execute the UAP.

SQLCODE not set by DF/UX Extension:

Eliminate the cause of the error by referencing the distributed server's system manuals and re-execute.

KFPA11861-E A

Negative SQLCODE received from server during remote access,
SQLCODE=*aa....aa*, error text=*bb....bb*

A negative SQL code was returned from the server system during remote access.

aa....aa:

SQL code or SQLCODE returned from the server system; the meaning conforms to the server system.

bb....bb:

Error text that supplements the contents of the SQL code (the contents are set by the server system):

Error text not output:

The asterisk (*) is displayed.

Number of characters exceeds 104:

One number sign (#) is output after the 104th character.

When the server system is HiRDB, variable parts may be included in the message. If the message includes several variable parts, they are displayed in the format *variable-part-1*, *variable-part-2*, For an XDM/RD server system, assign the following information.

SQLERRMC:

Detailed information (XDM/RD SQLCA information) that corresponds to

the return code from XDM/RD.

S: Ignores this SQL statement.

O: Refer to the contents of SQLCAIDE in the SQL Communications Area (SQLDA) to check the server system type. Refer to the SQL code in the appropriate server system manual to eliminate the cause of the error, then re-execute.

KFPA11862-E A

Remote access error occurred, OSI-RDA service code=*aaa*, reason code=*bbb*, text=*cc....cc*, process ID=*dd....dd*, connection ID=*ee....ee*, RMID=*ff....ff*

An RDA error occurred during OSI-RDA remote access.

aaa: RDA service code:

Service code	RDA service resulting in the error
0	R-initialize
1	R-Terminate
2	R-Begin Transaction
3	R-Commit
4	R-Rollback
5	R-Cancel
6	R-Status
7	R-Open
8	R-Close
9	R-ExecuteDBL
10	R-DefineDBL
11	R-InvokeDBL
12	R-DropDBL

bbb: Reason code

Following are the reason codes:

Reason code	Explanation
0	Access Control Violation
1	Bad Repetition Count

2. Messages

Reason code	Explanation
2	Command Handle Unknown
3	Control Authentication Failure
4	Control Service Not Allowed
5	Data Resource Already Open
6	Data Resource Handle Not Specified
7	Data Resource Handle Unknown
8	Data resource Name Not Specified
9	Data Resource Not Available
10	Data Resource Unknown
11	Dialogue ID Unknown
12	Duplicate Command Handle
13	Duplicate Data Resource Handle
14	Duplicate Dialogue ID
15	Duplicate Operation ID
16	Invalid Sequence
17	No Data Resource Available
18	Operation Aborted
19	Operation cancelled
20	Service Not Negotiated
21	Transaction Rolled Back
22	User Authentication Failure
23	Host Identifier Error
24	Invalid SQL Conformance Level
25	RDA Transaction Not Open
26	RDA Transaction Open
27	SQL Access Control Violation
28	SQL Database Resource Already Open

Reason code	Explanation
29	SQL DBA ArgumentCount Mismatch
30	SQL DBA Argument Type Mismatch
31	SQL DBA NO Char Set
32	SQL DBA Transaction Statement Not Allowed
33	SQL Usage Mode Violation

cc....cc: Variable part appropriate to reason code *bbb*:

No variable part:

The asterisk (*) is displayed.

Several variable parts:

Variable parts are displayed in the format variable-part-1, variable part 2.

Number of characters exceeds 75:

One number sign (#) is output after the 75th character.

Following are the message variable parts corresponding to the reason codes displayed as *bbb*:

Reason code	Variable part 1	Variable part 2
5	RD-node name	—
16	Invalid Sequence. This is supplemented by the codes shown below. If no code is output, the asterisk (*) is displayed instead. 1: dialogue Not Active 2: dialogue Initializing 3: dialogue Already Active 4: transaction Not Open 5: Transaction Open 6: transaction terminating 7: dialogue terminating	—
9 18 21	Indication of whether the error is temporary or permanent. TRANSIENT: Temporary error PERMANENT: Permanent error	Diagnostic information (message providing additional information about the cause of the error) is output. The information is set by the server system. If no supplemental information item is output, the asterisk (*) is displayed instead. Check the server manual as well.

2. Messages

Reason code	Variable part 1	Variable part 2
Other	*	—

— : Not applicable

dd....dd: Process ID of single server or front-end server

ee....ee: Connection ID between HiRDB and DF/UX:

If the connection ID cannot be displayed, asterisks (*) are displayed.

ff....ff: RMID passed from HiRDB to DF/UX:

If the RMID cannot be displayed, asterisks (*) are displayed.

S: Ignores this SQL statement.

P: Take action appropriate to the reason code:

Reason code	Action at HiRDB server	Action at other server
21	<p>The following message is set as diagnostic information: HITACHI HiRDB MSGID=<i>aa....aa</i>, TEXT=<i>bb....bb</i> <i>aa....aa</i>: HiRDB message ID <i>bb....bb</i>: Variable part of the message (if there is no variable part in the message, the asterisk (*) is displayed instead) Refer to the message indicated by MSGID and TEXT to eliminate the cause of the error. Or, contact the HiRDB administrator.</p>	<p>Contact the HiRDB administrator. Server system is XDM/RD: The following message is set as diagnostic information:HITACHI XDM/RD SQLCODE=<i>aaaaa</i>, SQLERRM=<i>bb....bb</i> <i>aaaaa</i>: SQLCODE (return code (XDM/RD SQLIOA information) from XDM/RD) <i>bb....bb</i>: SQLERRMC (detailed information (XDM/RD SQLCA information) corresponding to the return code from XDM/RD) Server system is ORACLE: The following information is set as diagnostic information:ORACLE SQLCODE=<i>aa....aa</i> <i>bb....bb</i> <i>aa....aa</i>: SQLCODE of ORACLE <i>bb....bb</i>: ORACLE error message (if the last character is the dollar sign (\$), the error message text has been truncated)</p>
22	Contact the HiRDB administrator.	Because the authorization identifier or password specified in the server is not registered in the server system, either correct the authorization identifier or password or contact the HiRDB administrator to register the authorization identifier or password in the server system.
Other	Contact the HiRDB administrator.	

O: Take action appropriate to the reason code:

Reason code	Action at HiRDB server	Action at other server
9	Re-execute the UAP. When this message is displayed repeatedly, contact the HiRDB administrator.	Contact the HiRDB administrator.
21	Refer to the diagnostic information and contact the programmer or HiRDB administrator.	
22	Contact the programmer.	
Other	Contact the HiRDB administrator.	

Action

Take action appropriate to the reason code:

Reason code	Action at HiRDB server	Action at other server
1	Zero or a negative value is specified as the number of repetitions. Contact a customer engineer.	Contact a customer engineer.
21	Refer to the diagnostic information to check the cause of the error. Or, contact a customer engineer.	
22	If necessary, request the server system administrator to register the authorization identifier and password.	
Other	Contact a customer engineer.	

KFPA11863-E A

Specified application context in DF/UX not supported

Remote access by the application context specified by DF/UX is not supported.

S: Ignores this SQL statement.

Action

Change the application context DF/UX specifies into a supported context. For details of application contexts that can be specified by DF/UX, see the *Distributed Database System DF/UX*.

KFPA11864-E A

Error occurred in remote access, reason code=*aaa*, *bb...bb*

An error occurred during remote database access processing.

aaa: Reason code

2. Messages

bb...bb:

Detailed information for reason code *aaa* (if no detail information is available, an asterisk (*) is displayed)

Following are the reason codes and detail information:

Reason code	Detail information	Explanation
1	Maximum number of sections for DF/UX Extension	The number of sections used with the UAP (number of SQL statements executed) exceeds the maximum number of sections for DF/UX Extension.
2	Maximum number of cursors for DF/UX Extension	The number of cursors used with the UAP exceeds the maximum number of cursors for DF/UX Extension.
3	Required length of output area	Shortage occurred in the output area.

S: Ignores this SQL statement.

P: Take action appropriate to the reason code:

Reason code	Programmer's action
1	Reduce the number of sections used by the UAP and re-execute.
2	Reduce the number of cursors used by the UAP and re-execute.
3	The number of columns, type, or length of retrieval data may be invalid. Correct the error and re-execute.

KFPA11865-E A

Negotiation failed due to *aa...aa*

Because negotiation with the server system failed during remote access, remote access is disabled.

aa...aa: Reason remote access has been disabled:

1. IMMEDIATE-DBL:
The server system does not accept immediate execution DBL.
2. INVALID SQLCONFORMANCE LEVEL:
SQL CONFORMANCE LEVEL that is not supported by client HiRDB was returned.
3. NO SQLCONFORMANCE LEVEL:
No SQLCONFORMANCE LEVEL was returned.

4. SQLCONFORMANCE LEVEL:

Remote access was attempted again after error 2 or 3 had been returned.

5. CHARSET NOT SUPPORTED (CLIENT):

CHARSET (character codes) requested by the server cannot be used at the client.

6. CHARSET NOT SUPPORTED (SERVER):

CHARSET (character codes) requested by the client cannot be used at the server.

7. CHARSET NOT SUPPORTED:

Remote access was attempted again after error 5 or 6 had been returned.

S: Ignores this SQL statement.

O: Contact the HiRDB administrator.

Action

Check whether the server system can be connected with HiRDB.

KFPA11866-E A

Invalid data received from server system reason code=*aaa*,
No=*bb...bb*, inf=*cc...cc*

Retrieval result returned from the server system during remote access is invalid.

aaa: Reason code:

Reason code	Explanation
1	Data type of data returned from the server differs from data type requested by the client.
2	Number of data items returned from the server differs from the number of data items requested by the client.
3	Data type returned from the server is invalid.
4	Data value returned from the server is invalid.
5	Data length returned from the server is invalid.
6	Indicator variable value returned from the server is invalid.
7	Unsupported data type was returned from the server.
8	A data value outside the permissible range was returned from the server.
9	Data could not be found.

bb...bb: Column number of the output variable in which the error occurred (when the error code is 2, the number of data items returned from the server is displayed)

cc...cc: Maintenance information

S: Ignores this SQL statement.

Action

Check whether data in the server system can be retrieved.

KFPA11867-E A

Unable to execute specified SQL in remote access

The specified SQL statement cannot be executed in remote access for one of the following reasons:

- The specified SQL is not supported for the distributed database facility.
- One dynamic `SELECT` statement for specifying a query to another RD-node was opened by declaring or assigning several cursors.
- A holdable cursor was used.

S: Ignores this SQL statement.

P:

Use an SQL statement that can be executed in remote access. Or, modify the UAP so that only one cursor can be declared or assigned for one dynamic `SELECT` statement.

If a holdable cursor was used, modify the UAP so that holdable cursor is not used.

KFPA11875-E A

Specified index already created

An attempt was made to execute batch index creation for an existing index.

S: Ignores batch index creation for the specified index and resumes processing.

Action

There is no need to execute batch index creation.

KFPA11876-E A

Unable to assign index information file due to not defined "pd_plugin_ixmk_dir", server name=*aa...aa*

Although the delayed batch creation of a plug-in index is specified, the name of the directory in which the index information file or HiRDB file system area is to be created is not specified in the `pd_plugin_ixmk_dir` operand in the server definition *aa...aa*. Therefore, the index information file cannot be created.

aa...aa: Server name

S: Invalidates this transaction.

P: If the delayed batch creation of a plug-in index is not needed, specify PDPLGIXMK=NO in the client environment definition.

Action

If the delayed batch creation of a plug-in index is needed, specify the name of the directory in which the index information file or HiRDB file system area is to be created in the `pd_plugin_ixmk_dir` operand in the server definition *aa....aa*.

KFPA11877-E A

Unable to assign index information file due to no such directory, server name=*aa....aa*, directory name=*bb....bb*

The directory in which the index information file or HiRDB file system area (*bb....bb*) is to be created, specified in the `pd_plugin_ixmk_dir` operand in the server definition *aa....aa*, has not been created. Therefore, the index information file cannot be created.

aa....aa: Server name

bb....bb: Name of the directory in which the index information file or HiRDB file system area is to be created, as specified in the `pd_plugin_ixmk_dir` operand

S: Invalidates this transaction.

P: If the delayed batch creation of a plug-in index is not needed, specify PDPLGIXMK=NO in the client environment definition.

Action

If the delayed batch creation of a plug-in index is needed, create the index information file directory or HiRDB file system area specified in the `pd_plugin_ixmk_dir` operand in the server definition *aa....aa*. Alternatively, specify the name of the directory in which the index information file is to be created in the `pd_plugin_ixmk_dir` operand in the server definition *aa....aa*.

KFPA11878-E A

Index information file not available, file=*aa....aa*, server name=*bb....bb*

The contents of the index information file named *aa....aa* do not match the condition of the database.

aa....aa: Name of the index information file

If the name of the index information file exceeds 80 characters, the last 80 characters of the file name are output.

bb....bb: Server name

S: Invalidates this transaction.

Action

Utility:

Check whether there are utilities that are simultaneously using the same index information file, and re-execute the database load utility, database reorganization utility, or rebalancing utility.

UAP:

Because the index information file cannot be created together with the plug-in index, use the database reorganization utility (`pdrorg -k ixrc` command) to re-create the plug-in index.

KFPA11879-E A

Index *aa...aa* in *cc...cc* must be *bb...bb* to access table

Index *aa...aa* stored in RDAREA *cc...cc* was not created by the batch method. Or, the table cannot be accessed because its index is unusable (is not completed).

aa...aa: Accessed index number

bb...bb: Code indicating batch index creation:
{ loaded }

cc...cc: Name of RDAREA storing the index

S: Ignores this SQL statement, or invalidates the transaction.

Action

After executing batch index creation (`pdrorg -k ixmk -t table-name control-information-file-name`), re-execute the SQL statement in this transaction.

KFPA11880-E A

Index information file open error, file name =*aa...aa* errno=*bb...bb*

Index information file open processing failed during index information file creation.

aa...aa: Name of index information file

bb...bb: Error code

If the error occurred in a HiRDB file system area, a HiRDB file system area error code is displayed. For the HiRDB file system area error codes, see *5.1 Error codes returned from HiRDB file system access requests*.

S: Invalidates this transaction.

Action

Refer to `errno.h` or the applicable OS manual to check the cause of the error indicated by the error code (external integer variable indicating the error status) and take action appropriate to the error cause as listed below, then re-execute the

database load utility, database reorganization utility, rebalancing utility, or UAP.

Error cause	Explanation	Action
ENOENT, ENAMETOOLONG	File name is invalid.	Specify the correct index information file name and path name.
EMFILE	The maximum number of files that can be opened for processing was reached.	Revise the estimate of the number of files that can be opened per process of the OS parameter, or specify the index creation method as the index update mode (-i s), and re-execute.

KFPA11881-E A

Index information file *aa....aa* error, file name=*bb...bb* errno=*cc....cc*

Processing *aa....aa* on an index information file failed during creation of the index information file.

aa....aa: Type of error

bb...bb: Name of the index information file

cc....cc: Error code

If the error occurred in a HiRDB file system area, a HiRDB file system area error code is displayed. For the HiRDB file system area error codes, see *5.1 Error codes returned from HiRDB file system access requests*.

S: Invalidates either this utility or the UAP.

Action

Based on the error code (an external integer variable that indicates the error status), check the cause of the error by referring to the `errno.h` file and the OS manual. Take an appropriate action according to the following list of causes of the error. After taking corrective action, take either of the following measures:

For a utility:

To create an index, re-execute the database load utility, database reorganization utility, or rebalancing utility to create a new index information file.

For a UAP:

If the error code is EIO, re-create the index. In other cases, re-execute the UAP.

Error cause	Explanation	Action
ENOSPC	Directory containing the index information file is full.	Delete unneeded files from the directory.

KFPA11882-E A

System call error func=*aa...aa*, errno=*bb...bb*

A system call error occurred during creation of an index information file.

aa...aa: Type of system call

bb...bb: Error code

S: Invalidates this utility.

Action

Refer to `errno.h` or the applicable OS manual to eliminate the cause of the error indicated by the error code (external integer variable indicating the error status), then re-execute the database load utility or database reorganization utility.

KFPA11883-E A

Unable to use index records in *aa...aa* for *bb...bb.cc...cc*

Because the contents of the specified index information file do not match the table data, the index information file cannot be used for batch creation of the index.

aa...aa: Name of index information file

bb...bb: Authorization identifier

cc...cc: Table identifier

S: Ignores batch index creation for the specified index and resumes processing.

Action

If an index with batch index creation specified is necessary, reorganize the table (`pdrorg -k rorg -t table-name control-information-file-name`).

KFPA11884-E A

Index information file used by other job filename=*aa...aa*

An attempt was made to execute the database load utility, database reorganization utility, or rebalancing utility by specifying file *aa...aa* in an index information file while it was being accessed by another process.

aa...aa: Name of the index information file

S: Invalidates this utility.

Action

Change the name of the index information file and re-execute the database load utility, database reorganization utility, or rebalancing utility.

KFPA11886-E A

Multi-value columns in multi-column index must have same number of elements [`, indexid=aa...aa`]

The repetition columns comprising an index have mismatched numbers of elements. Therefore, the following SQL statements and utility cannot be executed:

- CREATE INDEX
- INSERT statement
- UPDATE statement
- Database Load Utility (`pdload`)

S: Invalidates this transaction.

P: Correct the UAP so that the repetition columns comprising the index have consistent numbers of elements, and then re-execute.

KFPA11890-E A

Unable to call PLUGIN *aa....aa*, reason code="*bb....bb*"

The plug-in *aa....aa* was not called due to the reason indicated in "*bb....bb*".

aa....aa: Plug-in name

bb....bb: Reason code

UNAVAILABLE:

The plug-in *aa....aa* is unavailable.

UNDEFINED:

The `pdplugin` operand for the plug-in *aa..aa* is not defined. Or, an error occurred during the initialization of the plug-in.

S: If this error was caused by the execution of the SQL, the system cancels the execution of the SQL.

Action

Reason code UNAVAILABLE:

Take an appropriate action based on the `KFPYnnnnn` (*nnnnn*: a 5-digit message number) message that was output prior to this message. Alternatively, execute only those SQL statements that do not require the plug-in *aa....aa*.

Reason code UNDEFINED:

Stop the HiRDB system, code a use declaration (`pdplugin` operand) for the plug-in *aa....aa* in the system common definition, and then activate the HiRDB system.

In other cases, take an appropriate action based on the `KFPYnnnnn` (*nnnnn*: a 5-digit message number) message that was output prior to this message.

Alternatively, execute only those SQL statements that do not require the plug-in *aa....aa*.

KFPA11891-E A

Unable to access LOB RDAREA, RDAREA name=*aa....aa*, tableID=*bb....bb*, reason code=*c*

The area *aa....aa* in LOB RDAREA with the table ID *bb....bb* could not be accessed due to reason code *c*.

aa....aa: Name of the RDAREA to which access was attempted

bb....bb: The number of the table to which access was attempted

c: Reason code indicating the condition of the LOB RDAREA

1: LOB RDAREA initialization status

3: LOB RDAREA is in reload-not-completed data status

S: Invalidates this transaction.

O:

If the reason code is 1, execute the `PURGE TABLE` statement, `pdload` (with `-d` specified), or the reinitialization of the table storage RDAREA associated with the LOB RDAREA, to put the area in an available status. If the reason code is 3, restore the LOB RDAREA from the backup data and enable the LOB RDAREA.

KFPA11892-E A

Too many duplicate element values within row in index on Multi-value column, index id=*aa....aa*

The number of duplicate elements in the same row in a repetition column exceeded the maximum value of the number of duplicate keys for a repetition column index.

aa....aa:

If a data manipulation SQL statement is executed:

The index ID

If either `CREATE INDEX` or the batch creation of an index is executed:

`CREATE`

S: Invalidates this transaction.

P:

Execution of a data manipulation SQL statement:

Check the data specified in the repetition column for which an index was defined to ensure that the number of duplicate elements per row does not exceed the value of the following formula:

Number of duplicate keys =

$$\downarrow (\downarrow \text{ page size of index-storage RDAREA} \times 0.95 \downarrow - 82) \div 4 \downarrow - 1$$

O:

Execution of CREATE INDEX or batch creation of index:

Check the data specified in the repetition column for which an attempt to define an index was made to ensure that the number of duplicate elements per row does not exceed the value determined by the following formula:

Number of duplicate keys =

$$\downarrow (\downarrow \text{ page size of index-storage RDAREA} \times 0.95 \downarrow - 82) \div 4 \downarrow - 1$$

KFPA11893-E A

RDAREA not specified for *aa....aa bb....bb*

No storage RDAREA is specified in ALTER TABLE ADD RDAREA for the index, primary key, cluster key, or column.

aa....aa:

(INDEX | CLUSTER KEY | PRIMARY KEY | COLUMN}

bb....bb:

- When *aa....aa* is INDEX
index-identifier
- When *aa....aa* is COLUMN
column-name
- When *aa....aa* is CLUSTER KEY or PRIMARY KEY

Blank (nothing is output)

S: Ignores this SQL statement.

O: Specify a storage RDAREA and re-execute.

KFPA11894-E A

Duplicate *aa....aa "bb....bb"* specified

A column name or index name is specified more than once in ALTER TABLE ADD RDAREA.

aa....aa:

{ INDEX | COLUMN }

bb....bb:

- When *aa....aa* is INDEX

index-identifier

- When *aa....aa* is COLUMN

column-name

S: Ignores this SQL statement.

O: Specify the column name or index name only once and re-execute.

KFPA11895-E A

Failed to load PLUGIN, shared library=*aa....aa*, external function=*bb....bb*, reason=*cc....cc*

The plug-in could not be loaded.

aa....aa: Name of the shared library*

bb....bb: Name of the external routine*

* If the name of the shared library or the external routine is less than or equal to 64 bytes, HiRDB outputs the entire name; if it is greater than 64 bytes, HiRDB outputs the first 62 bytes followed by two periods (..).

cc....cc: Reason for the error

NO LIBRARY:

The specified library was not found.

NO FUNCTION:

The specified external routine was not found.

NO PERMISSION:

The user does not have access privilege for the library.

NO SPACE:

Either the area in which to load the library was unavailable or a memory shortage occurred.

BROKEN:

Either a non-library file was specified or the library is damaged.

S: Either ignores this SQL statement or invalidates the transaction.

Action

cc....cc: NO LIBRARY

Specify an existing library name and re-execute.

cc....cc: NO FUNCTION

Specify an existing external routine name and re-execute.

cc....cc: NO PERMISSION

Grant the user the necessary access privilege and re-execute.

cc....cc: NO SPACE

Re-execute the UAP. If this error persists, notify the HiRDB administrator.

cc....cc: BROKEN

Specify the correct library and re-execute.

KFPA11896-E E+L

Invalid return information for PLUGIN function, shared library=*aa....aa*, external function=*bb....bb*

The information returned by the plug-in implementation function is invalid.

aa....aa: Name of the plug-in shared library*

bb....bb: Name of the plug-in implementation function (external routine name)*

* If the name of the shared library or the plug-in implementation function is less than or equal to 64 bytes, HiRDB outputs the entire name; if it is greater than 64 bytes, HiRDB outputs the first 62 bytes followed by two periods (..).

S: Terminates abnormally.

P: Notify the HiRDB administrator.

Action

Notify a customer engineer.

KFPA11897-E A

Registry access error, *code=a*

When *code=1* is displayed, processing cannot continue because the referenced registry information has been updated.

When *code=2* is displayed, other processing tried to update the referenced registry information.

a: Error code

S: Terminates processing.

P: When *code=1* is displayed, re-execute the SQL; when *code=2* is displayed, re-execute the command that caused the error.

KFPA11898-E A

Unable to add RDAREA for column "*bb....bb*"

One of the following errors was detected for a column specified in ALTER TABLE:

- The column is not a BLOB type column or an abstract data type column.
- An ALLOCATE clause is specified for the BLOB type.
- A storage RDAREA is specified for an abstract data type column without specifying an ALLOCATE clause.

aa...aa: Name of column involved in the error

S: Ignores this SQL statement.

P: Correct the error concerning the column and re-execute.

KFPA11900-E A

Thread lock error occurs in management for LIST

A lock error occurred during list management.

S: Performs the following:

- SQL statement
Ignores this SQL statement.
- pdmod
Continues processing.

P: Perform the following:

- SQL statement
Re-execute the SQL.
- pdmod
Re-create the list.

KFPA11901-E A

Execution or reference of SQL requested without normal preparation

Dynamic execution of an SQL statement was requested before its preprocessing was completed. Or, the FETCH or CLOSE statement for a query specified in the cursor declaration (format 1) was executed before cursor open preprocessing was completed.

S: Ignores this SQL statement.

P: Complete the preprocessing and re-execute the UAP.

KFPA11902-E A

Unable to grant access privileges except SELECT privilege on audit trail table

INSERT, UPDATE, and DELETE privileges for the audit trail table or the view table

using an audit trail table as its base table were not granted for users other than auditors.

S: Ignores this SQL statement.

P: Specify `SELECT` as the only privilege that can be granted for the audit trail table or the view table using an audit trail table as its base table for users other than auditors, and re-execute.

KFPA11903-E A

Unable to grant DBA or connect privilege to auditor *aa....aa*

DBA privilege cannot be granted to auditor *aa....aa*, or the password of auditor *aa....aa* cannot be changed using `GRANT CONNECT`.

aa....aa: Authorization identifier of the auditor

S: Ignores this SQL statement.

P: Grant DBA privilege to a user other than the auditor. Alternatively, change the auditor's password using `GRANT AUDIT`.

KFPA11904-E A

Unable to grant RDAREA use privileges for RDAREA "*aa....aa*" because only auditor has privilege to use this RDAREA

Only the auditor holds use privileges for the RDAREA for storing audit trail tables. Use privileges for the RDAREA for storing audit trail tables cannot be granted to users other than the auditor.

aa....aa: RDAREA name

S: Ignores this SQL statement.

P: Grant usage privilege of another RDAREA.

KFPA11905-E A

Unable to execute *aa....aa* due to lack of audit privilege

aa....aa cannot be executed due to lack of the audit privilege.

aa....aa: One of the following is displayed:

- "CREATE AUDIT"
- "DROP AUDIT"
- "GRANT AUDIT"
- "DROP TABLE" for audit trail table

S: Ignores this SQL statement.

P: The auditor must perform this operation.

KFPA11906-E A

Unable to execute "DROP SCHEMA" due to audit trail table existence

The auditor's schema cannot be deleted because there is an audit trail table.

S: Ignores this SQL statement.

P: To delete the auditor's schema, delete the audit trail table before executing this SQL statement.

KFPA11907-E A

Unable to revoke schema or connect privilege of auditor

The auditor's schema definition privilege or CONNECT privilege cannot be deleted.

S: Ignores this SQL statement.

P: Confirm that the privileges will be deleted from the correct user. When deleting the auditor's privileges, delete other privileges also.

KFPA11908-E A

Duplicate audit for "aa...aa" whenever "bb...bb" auditttype "cc...cc"

The audit event specified by CREATE AUDIT was already defined.

aa...aa: Operation type and index type

Operation type	Event type
ANY	Not applicable
SESSION	CONNECT
	AUTHORIZATION
	ANY
PRIVILEGE	GRANT
	REVOKE
	ANY
DEFINITION	CREATE
	DROP
	ALTER
	ANY

Operation type	Event type
ACCESS	SELECT
	INSERT
	UPDATE
	DELETE
	PURGE
	ASSIGN
	CALL
	LOCK
	ANY
UTILITY	PDLOAD
	PDRORG
	PDEXP
	PDCONSTCK
	ANY

Note: A space is displayed between the operation type and the index type.

bb....bb: Value specified in the `WHENEVER` clause

ANY

SUCCESSFUL

UNSUCCESSFUL

cc....cc: Value specified in the `AUDITTYPE` clause

ANY

PRIVILEGE

EVENT

S: Ignores this SQL statement.

P: Change the audit event and re-execute.

KFPA11909-E A

Specified audit for "*aa....aa*" whenever "*bb....bb*" audittype "*cc....cc*" not defined

The audit event specified by `DROP AUDIT` is not specified.

aa...aa: Operation type and index type

Operation type	Index type
ANY	Not applicable
SESSION	CONNECT
	AUTHORIZATION
	ANY
PRIVILEGE	GRANT
	REVOKE
	ANY
DEFINITION	CREATE
	DROP
	ALTER
	ANY
ACCESS	SELECT
	INSERT
	UPDATE
	DELETE
	PURGE
	ASSIGN
	CALL
	LOCK
	ANY
UTILITY	PDLOAD
	PDRORG
	PDEXP
	PDCONSTCK
	ANY

Note: A space is displayed between the operation type and the index type.

bb...bb: Value specified in the `WHENEVER` clause

ANY
SUCCESSFUL
UNSUCCESSFUL

cc...cc: Value specified in the `AUDITTYPE` clause

ANY
PRIVILEGE
EVENT

S: This SQL statement is ignored.

P: Change the audit event and re-execute.

KFPA11911-E A

Deadlock occurred on *aa...aa* resource id=*bb...bb*

Deadlock occurred.

aa...aa: Type of resource

bb...bb: Resource information

S: Ignores this SQL statement.

P: Re-execute the SQL statement.

KFPA11912-E A

Insufficient memory for DB exclusive control

The work area for exclusive control is insufficient.

S: Ignores this SQL statement, or aborts utility handling.

P:

If this error occurs when SQL is being executed:

(1) Check the current resource lock status, wait until the load becomes low, and then re-execute.

(2) When an error similar to (1) occurs:

If the `PDLOCKLIMIT` client environment definition is specified, increase the specification value for the permissible range.

Alternatively, re-execute this SQL statement without setting a value.

If this error message recurs in this situation, take action (3).

(3) Re-evaluate the program from the following viewpoints:

1. Investigate whether the `LOCK` statement can be specified. Specify `EXCLUSIVE` if this is an update SQL statement.
2. Investigate if `WITHOUT LOCK NOWAIT` can be specified. If the program can be modified, modify it, and then re-execute it. Otherwise, contact the HiRDB administrator.

If this error occurs when `pdload`, `pdrorg`, or `pdrbal` is executed:

(1) Check the current resource lock status, wait until the load becomes low, and then re-execute.

(2) If this error occurs even when the load is low, a table for managing locked resources that is large enough for the utility to handle the applicable table cannot be secured. Request the HiRDB administrator to increase the specification value of the `pd_lck_pool_size` operand or the `pd_lck_until_disconnect_cnt` operand. For specification values, see the section on locked resources required for each server when executing the database load utility or the section on locked resources required for each server when executing the database reorganization utility in the manual *HiRDB Version 8 Command Reference*.

Action

Take action according to the `KFPS00443-I` or `KFPS00444-I` message that is output to the event log (in UNIX, `syslogfile`) or message log file.

If the `KFPS00443-I` or `KFPS00444-I` message is not output, there are insufficient table locked resources. Increase the specification value of the `pd_max_access_tables` operand in the system common definition and start HiRDB.

KFPA11913-E A

DB exclusive control error occurred on `aa....aa` resource id=`bb....bb` code=`cc....cc`

A lock error occurred.

`aa....aa`: Type of resource

`bb....bb`: Resource information

`cc....cc`: Error code

S: Ignores this SQL statement.

O: Contact the HiRDB administrator.

Action

Contact a customer engineer.

KFPA11914-E A

Insufficient memory on DYNAMIC_SHMPOOL for DB exclusive control
Shared memory used for exclusive control is insufficient.

S: Ignores this SQL statement.

P: Check whether the UNTIL DISCONNECT specification for LOCK TABLE can be deleted.

Action

The value of `pd_lck_until_disconnect_cnt` in the server definition is incorrect. Check the value and increase it, and then restart the system.

KFPA11917-E A

Closed RDAREA "*aa....aa*"

The indicated RDAREA is closed.

aa....aa: RDAREA name

S: Terminates processing.

P: Ask the HiRDB administrator to open the RDAREA, and then re-execute the UAP or utility.

Action

Open the RDAREA with the `pdopen` command.

KFPA11918-E A

Global buffer pool undefined, RDAREA="*aa....aa*"

No global buffer pool is defined.

aa....aa: RDAREA name

S: Terminates processing.

P: Contact the HiRDB administrator.

Action

With the `pdbuffer` operand of the system common definition, define a global buffer pool for the corresponding RDAREA.

KFPA11919-E A

Insufficient global buffer, global buffer pool=*aa....aa*

There are not enough global buffer sectors.

aa....aa: Name of global buffer pool

S: Terminates processing.

P: Re-execute the UAP. If the same error recurs, contact the HiRDB administrator.

Action

Re-evaluate the estimated number of buffer sectors; if necessary, change the number of buffer sectors with the `pdbuffer` operand of the system common definition.

KFPA11920-E A

RDAREA "*aa...aa*" held

The indicated RDAREA is shut down or was shut down due to an error.

aa...aa: RDAREA name

S: Terminates processing.

P: Contact the HiRDB administrator. Reset the RDAREA shutdown status, and then re-execute the UAP or utility.

Action

Error shutdown:

After the RDAREA has been recovered by the database recovery utility, release the RDAREA from shutdown status with the `pdrels` command.

Command shutdown:

Release the RDAREA from shutdown status with the `pdrels` command.

KFPA11928-I L

RDAREA *aa...aa* held `pdhold` command in process

Specified RDAREA *aa...aa* is being shut down by the `pdhold` command.

aa...aa: RDAREA name

S: Invalidates this transaction.

Action

Recover the RDAREA and re-execute this transaction.

KFPA11929-E A

Insufficient work pool, size=*aa...aa*, pool size=*bb...bb*

There is not enough memory to process an SQL statement.

aa...aa: Size (in bytes) of area that was to be allocated

bb...bb: Size (in bytes) of memory pool

S: Ignores this SQL statement.

O: Contact the HiRDB administrator.

Action

Contact a customer engineer.

KFPA11930-E A

Insufficient memory on *aa....aa*, size=*bb...bb*

There is not enough memory to process an SQL statement.

aa....aa: Character string indicating the type of area:

PROCESS: Process private area

SHARED: Shared memory

bb...bb: Size (in bytes) of area that was to be allocated

If the size of the area cannot be determined, the size is indicated as *********.

S: Ignores this SQL statement. If a server process is being activated, cancels activation of the process.

P: Re-execute the UAP. If the same error recurs, contact the HiRDB administrator.

Action

Increase the available memory space by the following methods:

- Reduce the number of processes executed concurrently.
- Increase the swap area.
- Add real memory.
- Reduce the value specified in the `pd_work_buff_size` operand if a large value was specified.

If this message was issued during activation of a server process, reduce the number of resident server processes (`pd_process_count`).

KFPA11931-E A

Insufficient `pd_max_access_tables`, resource id=*aa....aa*, resource count=*bb...bb*

An attempt was made to access more tables than the value of the `pd_max_access_tables` operand (number of concurrently accessible tables) specified in the system common definition.

aa....aa: Maintenance information

bb...bb: Maintenance information

S: Invalidates the transaction being processed.

P: Increase the number of times the `COMMIT` statement is issued and re-execute. If the same message is reissued, contact the HiRDB administrator.

Action

Check if the `COMMIT` statement was issued before the `pd_max_access_tables` operand value in the common system definition was reached. Or, re-evaluate whether or not the `pd_max_access_tables` operand value is appropriate to the entire system.

KFPA11932-E A

Number of connect users exceeded max users

The number of connections to the HiRDB server exceeded the maximum number of concurrent connections. Or, the starting server count was changed to 0 with the `pdchprc` command.

S: Ignores this SQL statement. However, if the utility is executing, processing is terminated.

P: Wait for other user processes to end, and then re-execute the UAP or utility. Use the `pdls -d act` command to check the user connection status.

Action

When HiRDB is operating:

1. If you can increase the SDS or FES maximum start process count (can be checked using the `pdchprc` command), set a value that is greater than or equal to the total number of UAPs, utilities, and discrepancies application processing processes that can be executed simultaneously.

Note

To calculate the total number of discrepancies application processing processes:

$$a = \sum_{i=1}^n ((pdorend -s \text{ server-count}) \times (pdorend -m \text{ specification-value}))$$

n: Number of simultaneous executions of the `pdorend` command

2. Take the following actions when the maximum number of SDS or FES start processes is less than the total number of UAPs, utilities, and discrepancies operation processing processes that can be executed simultaneously:
 - (1) If this error message is output when executing a UAP or utility process:

Decrease the number of UAPs or utility processes that can be executed simultaneously.
 - (2) Take the following actions if this error message is output when executing the `pdorend` command (if message KFPH27043-E, `code=-52` is output after this message):

- (a) Decrease the number of `pdorend` commands that can be executed simultaneously.
- (b) Decrease the number of servers that can be executed simultaneously (the number of servers specified in the `-s` option) for each `pdorend` command executed.
- (c) Reduce the discrepancies process multiplicity (value the `-m` option specifies) each time the `pdorend` command is executed.

Actions to take before the next normal startup:

- If this error message is output when executing a UAP or utility process:
Specify a large value for the `pd_max_users` operand if possible.
Specify the `pdcltgrp` operand in the system definition for the UAP or utility (only `pddef` is applicable) to be guaranteed.
- If this error message is output when executing the `pdorend` command (if message `KFPH27043-E`, `code=-52` is output after this message)
Set the specification value of the `pd_max_reflect_process_count` operand in the system definition to a large value.

KFPA11934-E A

Insufficient memory on communication header, `size=aa...aa` or communication buffer, `size=bb...bb`

A memory shortage occurred in the communication buffer.

`aa...aa`: Size of communication header that was to be acquired

`bb...bb`: Size of communication buffer that was to be acquired

S: Invalidates this transaction.

P: Re-execute the UAP. If the same error recurs, contact the HiRDB administrator.

Action

Contact a customer engineer.

KFPA11935-E A

Unable to execute definition SQL for executing data processing SQL

A definition SQL cannot be issued from within a transaction that issued a data manipulation SQL.

S: Ignores this SQL statement.

P: To issue a definition SQL after issuing a data manipulation SQL, specify the `commit` (`COMMIT`) statement and then specify the definition SQL.

KFPA11937-E A

Unable to execute this SQL in XA environment

This SQL statement cannot be executed in the XA environment.

S: Ignores this SQL statement.

P: Delete this SQL statement.

KFPA11938-E A

Unable to modify attributes of abstract data type in which value is NULL

The value of the abstract data type, which is a NULL value, has not been generated by the constructor function; its attributes cannot be updated.

S: Ignores this SQL statement.

P: Use the constructor function to generate the necessary values, and then update the attributes of the abstract data type.

KFPA11939-E A

Total length of attributes of abstract data type too long

The total length of the attributes of the defined abstract data type is too large.

S: Ignores this SQL statement.

P: Reduce the total length by reducing the number of attributes and re-execute. For a description of how to estimate the total length or the maximum allowable value for the total length, see *Syntax Create Type* in the *HiRDB Version 8 SQL Reference*.

KFPA11940-E A

Connect command ignored, HiRDB is initializing or terminating

Connection to HiRDB is disabled because HiRDB is starting or terminating.

S: Ignores this SQL statement.

O: If HiRDB is starting, re-execute the UAP after the startup processing terminates.

If HiRDB is terminating, restart HiRDB and then execute the UAP.

KFPA11941-E A

HiRDB is under termination process

An execution request was issued during HiRDB termination processing.

S: Disconnects HiRDB.

P: Terminate the UAP.

O: Restart HiRDB, and then re-execute the UAP.

KFPA11945-E A

Unable to expand stack area for thread. size=aa....aa

The attempt to expand the thread stack area by *aa....aa* bytes failed.

aa....aa: Attempted expansion size (in bytes)

If the area size cannot be determined, the size is indicated as *******.

S: Either ignores this SQL statement or invalidates the transaction.

P: Notify the HiRDB administrator.

O: Notify the HiRDB administrator.

Action

Increase the maximum value for the thread stack size maximum value option `pd_thread_max_stack_size` in the system common definition.

KFPA11948-E A

Unable to *aa....aa bb....bb* without *cc....cc*

Process *bb....bb* cannot perform *aa....aa* because *cc....cc* is not embedded.

- If *bb....bb* is "PARTITIONED BY MULTIDIM", the matrix partitioning table cannot be defined because HiRDB Advanced Partitioning Option is not embedded.
- If process *bb....bb* is routine using foreign table, the routine defined in the foreign table cannot be invoked because HiRDB External Data Access is not embedded.

aa....aa: {specify}{use}{invoke}

bb....bb: {"PARTITIONED BY MULTIDIM"

| "ALTER TABLE CHANGE RDAREA" statement

| "CREATE SERVER" statement

| "DROP SERVER" statement

| "CREATE FOREIGN TABLE" statement

| "DROP FOREIGN TABLE" statement

| "CREATE FOREIGN INDEX" statement

| "DROP FOREIGN INDEX" statement

| "CREATE USER MAPPING" statement

| "DROP USER MAPPING" statement}

{foreign table}

{routine using foreign table}

cc....cc: {External Data Access|Advanced Partitioning Option}

S: Ignores this SQL statement.

P: Delete this SQL statement. Alternatively, embed the *cc...cc* option (HiRDB External Data Access, or HiRDB Advance Partitioning Option), and then re-execute this SQL statement.

KFPA11950-E A

Unable to *aa...aa* due to using *bb...bb* without *cc...cc*

When *cc...cc* is directory server:

aa...aa that uses *bb...bb* cannot be executed because it is not linked to the Directory Server.

When *cc...cc* is External Data Access:

aa...aa that uses *bb...bb* cannot be executed because HiRDB External Data Access is not embedded.

aa...aa: {drop schema|grant access|revoke access}

bb...bb: {group|foreign table}

cc...cc: {directory server|External Data Access}

S: Ignores this SQL statement.

P: Take one of the following actions:

- When *cc...cc* is directory server:
Link to the Directory Server and re-execute the SQL statement.
- When *cc...cc* is External Data Access:
Delete this SQL statement. Alternatively, embed HiRDB External Data Access and re-execute this SQL statement.

KFPA11952-E A

Unable to *aa...aa* due to insufficient *bb...bb*

An attempt was made to perform either of the following processing tasks in excess of the value defined in *aa...aa*:

- List creation
- Foreign server definition

aa...aa: { assign LIST |create server }

bb...bb: defined-operand-name

{ pd_max_list_users |pd_max_list_count |pd_max_foreign_server }

S: Ignores this SQL statement.

P:

When *bb....bb* is `pd_max_list_users`:

This SQL statement cannot be executed. To execute this SQL statement, increase the specification value of the `pd_max_list_users` operand.

When *bb....bb* is `pd_max_list_count`:

Either delete unnecessary lists and re-execute this SQL statement, or increase the specification value of the `pd_max_list_count` operand and re-execute this SQL statement.

When *bb....bb* is `pd_max_foreign_server`:

Delete this SQL statement because it cannot be executed.

Action

Check that the value of *bb....bb* in the system definition is appropriate.

KFPA11953-E A+L

Unable to execute *aa....aa* due to *bb....bb*, *cc....cc*

Processing *aa....aa* cannot be executed because of *bb....bb*.

aa....aa: Processing (See *Actions*.)

bb....bb: Reason (See *Actions*.)

cc....cc: Additional information (See *Actions*.)

S: Cancels this transaction.

Actions

Processing (aa....aa)	Reason (bb....bb)	Additional information (cc....cc)	Action
HASH JOIN Hash join or subquery hash execution	Insufficient work buffer	<i>size=dd....dd,</i> <i>server=ee....ee</i> <i>dd....dd</i> : Shortfall (in KB) <i>ee....ee</i> : Server name Displayed shortfall is the shortfall at the location where the first shortage was detected, not the entire shortage.	Take one of the following actions: <ul style="list-style-type: none"> • Increase the specified value of the <code>pd_work_buf_size</code> operand or the <code>pd_work_buf_expand_limit</code> operand. Alternatively, decrease the specified value of the <code>PDHASHTBLSIZE</code> or <code>pd_hash_table_size</code> operand in the client environment definition. • Do not select hash join, subquery hash execution using the client environment definition <code>PDADDITIONALOPTLVL</code> or the <code>pd_additional_optimize_level</code> operand. Also, do not specify <code>HASH</code> in the SQL optimization specification for the join method in the SQL statement or the SQL optimization specification in the subquery execution method.
	Invalid work buffer allocation mode	<i>server=dd....dd</i> <i>dd....dd</i> : Server name	Take one of the following actions: <ul style="list-style-type: none"> • Specify <code>pool</code> in the <code>pd_work_buf_mode</code> operand. • Do not select hash join, subquery hash execution using the client environment definition <code>PDADDITIONALOPTLVL</code> or the <code>pd_additional_optimize_level</code> operand. Also, do not specify <code>HASH</code> in the SQL optimization specification for the join method in the SQL statement or the SQL optimization specification in the subquery execution method.

Processing (aa....aa)	Reason (bb....bb)	Additional information (cc....cc)	Action
HASH JOIN Hash join or subquery hash execution	Insufficient private process area	<i>size=dd....dd, server=e e....ee, pid=ff....ff</i> <i>dd....dd: Total buffer length for work table in the applicable process (in kilobytes).</i> <i>ee....ee: server-name</i> <i>ff....ff: Process-ID</i>	An attempt was made to secure increased buffer area for work tables as specified by the <code>pd_work_buff_expand_limit</code> operand, but was not successful because there was insufficient private process area. Take one of the following actions to ensure there is sufficient memory available: <ul style="list-style-type: none"> • Reduce the number of concurrently executing processes. • Increase the swap area. • Expand real memory. Alternatively, take one of the following actions and reduce the usage amount of the work table buffer: <ul style="list-style-type: none"> • Decrease the value of the <code>PDHASHTBLSIZE</code> operand in the client environment definition or the <code>pd_hash_table_size</code> operand. • Do not use hash join, subquery hash execution in the <code>PDADDITIONALOPTLVL</code> operand in the client environment definition, <code>pd_additional_optimize_level</code> operand, or <code>ADD OPTIMIZE LEVEL</code> in the SQL compile options. Also, do not specify <code>HASH</code> in the SQL optimization specification of the join method in the SQL statement or the SQL optimization specification of the subquery execution method.

KFPA11958-E A

No work HiRDB file system area

An available HiRDB file system area was not specified for storing a work table.

S: Invalidates this transaction.

Action

During execution of the database initialization utility:

Use the `pdwork` operand in the dictionary server definition or single server
definition to specify a HiRDB file system area for storing a work table, then
re-execute the database initialization utility.

During server startup:

Use the `pdwork` operand in the server definition to specify a HiRDB file system

area for storing a work table, and restart the server.

KFPA11959-E A

HiRDB file "*aa...aa*" failed, return code=*bbbb*, HiRDB file name=*cc...cc*

"*aa...aa*" for HiRDB file *cc...cc* terminated with return code *bbbb*.

aa...aa: HiRDB file system function

close: Close HiRDB file.

create: Create HiRDB file.

expand: Expand HiRDB file.

open: Open HiRDB file.

read: Read HiRDB file.

write: Write to HiRDB file.

bbbb: Return code

cc...cc: *Name-of-HiRDB-file-system-area\Name-of-HiRDB-file*

If the path name of the HiRDB file exceeds 143 characters, the last 143 characters of the HiRDB file path name are output.

S: Invalidates this transaction.

P: Contact the HiRDB administrator.

Action

"*aa...aa*" is expand during execution of the database initialization utility:

If a HiRDB file system area with no expansion specification in the `pdwork` operand in the server definition is specified, specify a HiRDB file system area with expansion specified and re-execute the database initialization utility. If this error message is output even though the specified HiRDB file system area includes an expansion specification, either specify the HiRDB file system area with the expansion count increased in the `pdwork` operand in the server definition, or specify the HiRDB file system area with the area length expanded. Then, re-execute the database initialization utility.

"*aa...aa*" is expand during execution of a utility other than the database initialization utility:

If a HiRDB file system area with no expansion specification in the `pdwork` operand in the server definition is specified, specify a HiRDB file system area with expansion specified and restart the server. If this error message is output even though the HiRDB file system area includes an expansion specification, either specify the HiRDB file system area with the expansion

count increased in the `pdwork` operand in the server definition, or specify the HiRDB file system with the area length expanded. Then, restart the server.

In other cases:

See 5. *HiRDB File System Error Codes* to eliminate the cause of the error.

KFPA11964-E A

HiRDB file *aa...aa* error, `errno=bb...bb`, HiRDB file name=*cc...cc*

HiRDB file open or close processing failed.

aa...aa: HiRDB file system function:

{ open | close }

bb...bb: Error code for HiRDB file system

cc...cc: *Name-of-HiRDB-file-system-area\Name-of-HiRDB-file*

If the path name of the HiRDB file exceeds 131 characters, the last 131 characters of the HiRDB file path name are output.

S: Terminates processing.

P: Contact the HiRDB administrator. After correcting the error, re-execute the UAP.

Action

See 5. *HiRDB File System Error Codes* to eliminate the cause of the error.

KFPA11966-E A+L

Error occurred on transaction transfer, `inf1=aa...aa`, `inf2=bbbb`

An error occurred in transaction processing of the X/Open XA interface.

aa...aa: Processing during which error occurred:

Connect: Reconnection with HiRDB

bbbb: SQL code for the processing during which the error occurred

S: Terminates processing.

P: Correct the error based on the SQL code for the processing underway when the error occurred and on the error log trace information (`pderr process-number-*.trc`), and re-execute.

KFPA11970-E A

Invalid SQL, `code=aa`, `SQL="bb...bb"`

A specified SQL statement in OSI-RDA remote access is invalid.

aa: Reason code:

01: An SQL statement that cannot be executed in OSI-RDA remote access is specified.

02: An SQL statement that cannot be executed in OSI-RDA remote access is specified in the `PREPARE` statement.

03: The length of an SQL statement is 0.

04: The length of an SQL statement exceeds 20,000.

05: A syntax error was detected in characters or a keyword.

06: An SQL statement that cannot be executed in OSI-RDA remote access is specified in the `EXECUTE IMMEDIATE` statement.

bb...bb:

SQL statement resulting in the error. However, this SQL statement does not always match the SQL statement issued by the UAP because the system at the distributed client or distributed server sometimes changes the SQL statement. When the reason code is 03 or 04, *bb...bb* is omitted.

S: Ignores this SQL statement.

P: Correct the error in the UAP at the distributed client and re-execute.

KFPA11971-E A

Invalid identifier in SQL, code=*aa*

The cursor name or SQL statement identifier in an SQL statement in OSI-RDA remote access is invalid.

aa: Reason code:

01: The format of a cursor name in an SQL statement is incorrect.

02: The format of an SQL statement identifier in an SQL statement is incorrect.

03: The number of cursor names exceeds 1,024.

04: The total number of cursors specified directly in `DECLARE CURSOR` statements and SQL statement identifiers exceeds 4,095.

05: A cursor name that was not declared was used to specify an SQL statement to be executed.

06: An SQL statement identifier that was not declared was used to specify an SQL statement to be executed.

07: A cursor name that is already declared for another cursor is specified in a `DECLARE CURSOR` statement.

08: An SQL statement identifier that is already in use for another cursor is specified in a `DECLARE CURSOR` statement.

S: Ignores this SQL statement.

P: Correct the error in the UAP at the distributed client and re-execute.

KFPA11972-E A

Inconvertible data for *aa....aa* variable *bb...bb* of data type *cc....cc*

Conversion of a variable value at the RDA server is disabled in OSI-RDA remote access for the following reason:

- When data type is REAL or DOUBLE PRECISION, overflow occurred.
- When data type is DATE, value is not in YYYY-MM-DD format.

aa....aa: Segment of the input or output variable
{ input | output }

bb...bb: Sequence number of the input or output variable

cc....cc: Data type

S: Ignores this SQL statement.

P: Check the contents shown below and take appropriate action:

Data type	Explanation
REAL	Correct the UAP so that the data type of the variable for receiving the result value is DOUBLE PRECISION, then re-execute.
DOUBLE PRECISION	This result value cannot be received in OSI-RDA remote access.
DATE	Correct the error in the UAP at the distributed client and re-execute.

KFPA11973-E A

Invalid data type of *aa....aa* variable *bb...bb*

A data type that cannot be specified in a variable is specified in OSI-RDA remote access. Or, the data length is incorrect.

aa....aa: Segment of the input or output variable
{ input | output }

bb...bb: Sequence number of the input or output variable

S: Ignores this SQL statement.

P: Correct the error in the UAP at the distributed client and re-execute.

KFPA11974-E A

Unexecutable request, code=*aa*

The specified SQL statement cannot be processed because an error was found in the service parameter of R-Execute-DBL during OSI-RDA remote access.

aa: Reason Code

01: A value greater than 1 is specified as the repeats count in the execution request

for an SQL statement other than FETCH.

02: List of arguments is specified.

03: Charset object identifier specified at R-open or R-Execute-DBL is not supported.

04: Argument specification is made in an SQL statement that cannot have an argument specification.

05: Result specification is made in an SQL statement with no result value.

06: Result specification is not made in an SQL statement that requires a result value.

S: Ignores this SQL statement.

P: Contact the HiRDB administrator.

Action

Contact a customer engineer.

KFPA11975-E A

Invalid "DESCRIBE" statement

One of the following errors occurred in the DESCRIBE statement in OSI-RDA remote access:

- The SQLNAME request is incorrect.
- The SQLN value is the null value.
- The argument specification or result specification is invalid.

S: Ignores this SQL statement.

P: If SQLN (maximum number of retrieval columns) was not specified in the distributed client UAP, correct the UAP and re-execute. If SQLN was specified, contact the HiRDB administrator.

Action

Contact a customer engineer.

KFPA11976-E A

More than 30000 variables

The specified SQL statement cannot be processed because the number of variables is too large for OSI-RDA remote access.

S: Ignores this SQL statement.

P: Correct the error in the UAP at the distributed client and re-execute.

KFPA11977-E A

Number of variables not equal to number of retrieval-columns

The number of columns in the retrieval result does not match the number of variables for receiving that retrieval result in OSI-RDA remote access.

S: Ignores this SQL statement.

P: Correct the error in the UAP at the distributed client and re-execute.

KFPA11980-E A

Transaction branch already determined

This transaction branch already accepted a determination request from another transaction branch and has been determined.

S: Ignores this SQL statement.

P: SQL cannot be executed in this transaction branch. Terminate the transaction branch.

O: Inasmuch as a determination request occurred while this transaction branch was being executed, an error may have occurred in the transaction manager. Check the transaction manager's log information.

KFPA11981-E A

Communication error occurred from *aa...aa* to *bb...bb* event *cc...cc*
dd...dd ee...ee

Processing cannot continue due to a communication error.

aa...aa: Server name (send side)

If the server name cannot be identified, ********* is displayed.

bb...bb: Server name (receive side)

If the server name cannot be identified, ********* is displayed.

cc...cc: Event that occurred:

Init: Server initialization

Netdown: Network error

System: System error

Termin: Server termination processing

Timeout: Timeout

dd...dd: Debug information 1 (name of the function resulting in the error)

ee...ee: Debug information 2 (return code from the function resulting in the error)

S: Ignores this SQL statement, or invalidates the transaction.

P:

Take an action appropriate to the event:

`Init`: Re-execute after contacting the HiRDB administrator to start the server.

`Termin`: Start the server and re-execute.

`Other`: Contact the HiRDB administrator.

Action

Take an action appropriate to the event:

`Init`:

Start the server.

`Netdown`:

Eliminate the cause of the communication error.

`Termin`:

Start the server.

`Timeout`:

Correct the communication monitoring interval (`pd_lck_wait_timeout`) specified in the system definition.

`System`:

If the server name on the receiver side is that of a dictionary server, and the value of debug information 2 is -330, the process count set for the dictionary server or for the back-end servers is insufficient. If this occurs, increase the value set in the `pd_max_dic_process` or `pd_max_bes_process` operand. In particular, this error tends to occur in multiple front-end server environments when several front-end servers are attempting to acquire definition information from the dictionary server, if the number of processes running on the dictionary server are fewer than those running on the front-end servers.

If the value of debug information 2 is -310, it is possible that the server on the receiving side has stopped. Use the `pdls` command to confirm that the server has stopped, start the server on the receiving side, and then re-execute.

If the value of debug information 2 is one of the detail codes listed in 4.1 *Detail codes for RPC-related errors*, take the corresponding action.

`Other`:

Contact a customer engineer.

KFPA11984-E A

Client version incompatible, HiRDB version=*aa....aa*, client version=*bb....bb*

The version of the HiRDB client is invalid. The HiRDB client version in use is not supported by the HiRDB system.

aa....aa: Version of HiRDB system

bb....bb: Version of HiRDB client

S: Ignores this request.

P: Check the UAP preprocess, compilation, or linkage for an error. If there is no error, contact the HiRDB administrator.

Action

Contact a customer engineer.

KFPA11986-E A

Function "*aa....aa*". "*bb....bb*" (*cc....cc*) executed no "RETURN" statement

Execution of the function "*aa....aa*" . "*bb....bb*" did not terminate at the RETURN statement.

aa....aa: Authorization identifier

bb....bb: Routine identifier

cc....cc: Special name

S: Either ignores this SQL statement or nullifies the transaction.

P: Redefine the function and re-execute.

KFPA11987-E A

Unable to execute SQL except for rollback and disconnect

Only the ROLLBACK or DISCONNECT SQL statement can be executed.

S: Ignores this SQL statement.

P: Execute the ROLLBACK or DISCONNECT statement.

KFPA11988-E A

Required function [*aa....aa*] is not supported

The requested function *aa....aa* is not supported in this system.

aa....aa: Requested, unsupported function (this is output only when the problem is detected on the client side)

DESCRIBE TYPE: DESCRIBE TYPE statement

TYPE OPTION: TYPE OPTION specified in PREPARE statement

XA INTERFACE: XA interface used by the XDM/RD E2 connection facility
ARRAY INSERT: Insert function that uses a matrix
SET SESSION AUTHORIZATION: SET SESSION AUTHORIZATION statement
JAR: INSTALL JAR, REPLACE JAR or REMOVE JAR
SET: SET statement (assignment statement)
SINGLE ROW SELECT: Dynamic single row retrieval
ALLOCATE CURSOR: ALLOCATE CURSOR statement
DEALLOCATE PREPARE: DEALLOCATE PREPARE statement
DESCRIBE: Information acquired by DESCRIBE in a PREPARE statement
EXTENDED STATEMENT NAME: Extended statement name specification
EXTENDED CURSOR NAME: Extended cursor name specification

S: Ignores this SQL statement.

P: When not using function *aa....aa*, delete the locations where this function is used. To upgrade HiRDB or XDM/RD E2 and use function *aa....aa*, contact the HiRDB administrator or the XDM/RD E2 system administrator.

O: Confirm the client library linked to the UAP and the version of the server.

Action

Check the client libraries linked to the UAP and the server version. To use the functionality provided by *aa....aa*, upgrade HiRDB or XDM/RD E2.

KFPA11989-E A

Commit error

An error occurred during commit processing.

S: Invalidates this transaction.

O: Refer to the KFPS00900-I or KFPS00972-I message to eliminate the cause of the error and re-execute the UAP.

KFPA11990-E A

Incompatible character code set, HiRDB=*aa....aa*, client=*bb....bb*

HiRDB system and client use different character codes.

aa....aa: Character codes at the HiRDB system

bb....bb: Character codes at the HiRDB client

CHINESE: EUC Chinese kanji codes

LANG-C: One-byte character codes

SJIS: Shift JIS kanji codes

UJIS: EUC Japanese kanji codes

UTF-8: Unicode

*****: no supported character codes

S: Declines connection to HiRDB.

O: Check that the environmental variables when compiling the UAP (PDCLTLANG or LANG) or the environmental variables when executing (LANG or PDLANG) correspond to the character code classification supported by the HiRDB server. Contact the HiRDB administrator if there are no errors.

KFPA11992-E A

More than 32M bytes SQL OBJECT, size=*aa....aa*

The SQL object's size exceeded 32MB.

aa....aa: Size of the SQL object that was to be created (in bytes)

S: Invalidates this transaction.

P: Correct the SQL statement so that the size of the SQL object does not exceed 32MB, and re-execute.

KFPA11993-E A

Input data length too short for HASH function

The input data length of a partitioning column for the hash function specified in the table definition is too short.

S: Ignores this SQL statement.

P:

Check whether the data length to be input satisfies the partitioning key condition of the hash function specified in the table definition. If it is incorrect, correct the input data table definition. Or, check whether the hash function specified in the table definition is correct. If it is incorrect, correct the table definition.

KFPA11994-E A

Unable to execute definition SQL for holdable cursor opened

Definition SQL cannot be issued because a holdable cursor is open.

S: Ignores this SQL statement.

P: Issue the definition SQL after closing all holdable cursors.

KFPA11997-E

Error occurred during execution of PLUGIN function, "*aa....aa*"

An error occurred during the execution of the plug-in (implementation) function.

aa...aa: Detailed error message

S: Either ignores this SQL statement or invalidates the transaction.

P: Resolve the problem identified in the detailed error message by referring to the corresponding plug-in manual and re-execute.

KFPA11998-E A

Unable to manipulate LIST yet, because transaction determination uncomplete

An attempt was made to create, delete, or search a list before the previous transaction had completed. This error occurs when reconnect is performed before recovery processing is completed after processing in a single server or back-end server has aborted.

S: Takes one of the following actions:

- SQL statement
Ignores this SQL statement.
- pdmod
Continues processing.

P: Take one of the following actions:

- SQL statement
Wait for the transaction to be completed or complete the transaction manually, and then re-execute the SQL statement.
- pdmod
Wait for the transaction to be completed or complete the transaction manually, and then re-create or delete the list.

KFPA12000-I A

Processing of SQL completed

Execution of SQL statement has been completed.

S: Executes processing.

KFPA12100-I A

No rows satisfying search condition

No row satisfies the condition. Or, row fetch has been completed.

S: Resumes processing.

KFPA12110-I A

Row already deleted or updated

Row that was to be retrieved via a search using a list had been deleted; the row's

attribute value had been deleted or updated.

S: Continues processing.

KFPA12120-I A

Processing of SQL completed, dynamic result set returned

SQL statement execution has been completed, and a dynamic results set has been returned.

S: Continues processing

KFPA12121-I A

Processing of SQL completed, additional result set returned

Execution of the SQL statement has been completed. Furthermore, there is an additional result set.

S: Continues processing.

KFPA12300-I A

RDAREA usage *aaa%*, RDAREA="*bb....bb*"*cc....cc*

Meaning depends on the circumstances:

System definition `pd_rdarea_warning_point` not specified:

User RDAREA, user LOB RDAREA:

The system started using the segment with relative location *aaa%* among all the segments of the last file in RDAREA "*bb....bb*".

System definition `pd_rdarea_warning_point` specified:

User RDAREA:

The system started using the segment with usage factor *aaa%* among all the segments in the entire RDAREA "*bb....bb*". The current number of unused segments is *cc....cc*.

User LOB RDAREA:

The system started using the segment with relative location *aaa%* among all the segments in the entire RDAREA "*bb....bb*". The number of remaining segments for maintaining effective performance is *cc....cc*.*

* Effective performance:

In the case of a user LOB RDAREA, the highest throughput can be achieved when the database area has not been used through the end. The effective performance indicates the high throughput status. Once a database is used through the end, throughput becomes lower. Therefore, some action such as database reorganization must be taken beforehand.

aaa: One of the following is displayed:

- Relative location of the segment being used in the last file in the RDAREA
- Segment usage factor in the entire RDAREA
- Relative location in the RDAREA of the segment being used

bb...bb: Applicable RDAREA name

cc...cc: Additional information about segment usage factor, *dd...dd* segments unused (*dd...dd*: number of remaining segments)

S:

Resumes processing.

If there is not enough space to allocate a new segment in this RDAREA but there is some space in existing segments used for addition or updating, the system continues processing using those segments.

This message is displayed again if the indicated segment is used after it was released due to table deletion, reorganization, etc.

P: Contact the HiRDB administrator.

Action

Use the command or utility shown below to check the remaining space in the RDAREA, then take the appropriate action shown in the table.

Command for checking the remaining space:

- Database status display command (`pdsql`):

Specifying the `-a` option displays the RDAREA usage status. This command can be used for all RDAREAs.

- Database condition analysis utility (`pdsql`):

Physical or logical analysis displays the RDAREA usage status. This utility can be used for data dictionaries, user RDAREAs, and LOB RDAREAs.

Action

The table below shows the action:

Type of RDAREA	System definition pd_rdarea_warning_point not specified	System definition pd_rdarea_warning_point specified
User RDAREA	<ul style="list-style-type: none"> • Check the usage status of the RDAREA by using the database status display command (pd_db1s) or the database condition analysis utility (pd_dbst). • Reorganize the table in the RDAREA according to the usage status. Or, extend the RDAREA. 	<ul style="list-style-type: none"> • Check the usage status of the RDAREA by using the database status display command (pd_db1s) or the database condition analysis utility (pd_dbst) or check the additional information about segment usage factor displayed in the message. • Reorganize the RDAREA in units of table RDAREAs or tables according to the usage status. Or, extend the RDAREA.
User LOB RDAREA	<ul style="list-style-type: none"> • Check the usage status of the RDAREA by using the database status display command (pd_db1s) or the database condition analysis utility (pd_dbst). • Reorganize the user LOB RDAREA in units of user LOB areas or tables according to the usage status. Or, extend the RDAREA. 	<ul style="list-style-type: none"> • Check the usage status of the RDAREA by using the database status display command (pd_db1s) or the database condition analysis utility (pd_dbst) or check the additional information about segment usage factor displayed in the message. • Reorganize the user LOB RDAREA in units of user LOB RDAREAs or tables according to the usage status. Or, extend the RDAREA.

KFPA12601-I A

Positive SQLCODE other than +100 received from server,
SQLCODE=aa....aa

A positive SQL code other than +100 was returned from the server in remote access.

aa....aa: L code returned from the server system

S: Resumes processing.

O: Refer to the contents of SQLCAIDE in the SQL Communications Area (SQLCA) to check the server system type. Refer to the appropriate server system manual to check the SQL code.

KFPA12603-I A

Retrieved string data length is 0, the data is converted to a blank

Character string, national character string, or mixed character string data with a real length of 0 was retrieved during remote access. This data was converted to one space because the distributed client does not support character string, national character

string, or mixed character string data with a real length of 0.

S: Resumes processing.

P: If it is not acceptable for UAP processing to convert the character string, national character string, or mixed character string data with a real length of 0 to one space, change the search condition in such a manner that data with a real length of 0 is not retrieved.

KFPA12900-W A+L

Warning occurred in foreign server *aa...aa* (*b*), SQLCODE=*cc...cc*,
inf=*dd...dd*

A warning was returned from a foreign server when the HiRDB External Data Access facility was being used.

aa...aa: Foreign server name

b: Server type:

P: HiRDB

R: XDM/RD E2

O: ORACLE

I: DB2

cc...cc: SQLCODE returned from the foreign server

dd...dd: The message returned from the foreign server

When the message is 76 characters or more in length, two periods (..) are added to the 74th character when the message is output. Where there is no message, asterisks (*) are displayed.

S: Continues the process.

P: Check the server type of the foreign server and refer to the SQLCODE and warning message based on the applicable DBMS manual. When *dd...dd* is *, check the SQL contact area from SQLWARN0 to SQLWARNF. When *w* is set to SQLWARND, re-evaluate the foreign table definition, because the column length defined by the foreign table definition may be longer than a column in the real table.

KFPA19101-E A

Invalid SQL optimization specification for *aa...aa*

The following error was detected in the SQL optimization specification:

- An SQL optimization specification in the subquery execution method was specified in a subquery other than the one in the predicate.

aa...aa: subquery

S: Ignores this SQL statement.

P: Correct this SQL statement and re-execute.

KFPA19102-E A

Invalid file name "*aa....aa*" specified in client environment definition PDDELRSVWDFILE

The following error occurred in the value specified for the client environment definition PDDELRSVWDFILE.

- This specifies a file name other than that specified by the system common definition `pd_delete_reserve_word_file` operand.

aa....aa: File name specified in the client environment definition PDDELRSVWDFILE.

S: Rejects the connection with HiRDB.

P: Set the value specified in the client environment definition PDDELRSVWDFILE to the value specified in the system common definition `pd_delete_reserve_word_file` operand.

KFPA19110-E A

Unable to specify "*aa....aa*" statement in FOR statement because cursor is not holdable

If there is no holdable cursor declared by the FOR statement, the SQL procedure statements in the FOR statement cannot specify the COMMIT, ROLLBACK, or PURGE TABLE statements.

aa....aa: SQL statements that cannot be specified:

{COMMIT | ROLLBACK | PURGE TABLE}

S: Ignores this SQL statement and rolls back.

P: Revise the SQL statement, and re-execute.

KFPA19111-E A

Table name missing except preparable dynamic "*aa....aa*" statement:positioned.

A table name is missing when preprocessing of an UPDATE or DELETE statement using a cursor is not being performed.

aa....aa: Erroneous SQL statement

{UPDATE | DELETE}

S: Ignores this SQL statement.

P: Revise the SQL statement, and re-execute.

KFPA19150-E A

Unable to specify data type other than DATE or TIME type for column "*aa....aa*" with "SYSTEM GENERATED"

The data type of the column specifying `SYSTEM GENERATED` was not the `DATE` type or the `TIME` type.

aa....aa: The alias specified by mistake

S: Ignores this SQL statement.

P: Correct this SQL statement and re-execute.

KFPA19200-E A

Unable to specify referential constraint or check constraint without specifying "pd_check_pending" operand

Because there is no system common definition `pd_check_pending` specification, a referential constraint or check constraint is not allowed.

S: Ignores this SQL statement.

P: Remove the referential constraint or check constraint definition statement part of the SQL statement, and re-execute. Or, ask the HiRDB administrator for the addition of a system common definition `pd_check_pending`.

KFPA19212-E A

Unable to specify expression except embedded variable or ? parameter in assignment statement for embedded SQL

One of the following errors occurred in the specification of the assignment target or assignment value of the assignment statement:

- A value expression other than an embedded variable or ? parameter is specified as the assignment target.
- A value expression other than an embedded variable, ? parameter, scalar function `LENGTH`, scalar function `SUBSTR`, or scalar function `POSITION` is specified as the assignment target.
- An item other than an embedded variable or a ? parameter is specified as the value expression in the scalar function `LENGTH`, the value expression 1 of the scalar function `SUBSTR`, or the value expression 2 of the scalar function `POSITION` specified in the assignment value.
- One of the following is specified as the assignment value:
 - A value expression that includes a column specification
 - A value expression that includes a component specification that shows the attribute of an abstract data type column

S: Ignores this SQL statement.

P: Revise this SQL statement, and re-execute.

KFPA19220-E A

Invalid cursor name "*aa....aa*" in "*bb...bb*" statement

The cursor name declared in the `FOR` statement cannot be specified in the `OPEN`, `CLOSE`, or `FETCH` statement.

aa....aa: Cursor name

bb...bb: SQL statement that cannot be specified

{`OPEN` | `CLOSE` | `FETCH`}

S: Ignores this SQL statement and rolls back.

P: Revise the SQL statement, and re-execute.

KFPA19221-E A

Invalid cursor specification in `FOR` statement.

One of the following errors occurred in the cursor specification specified in the `FOR` statement:

- An unnamed column is specified in a derived column.
- In the `FROM` clause of a derived column, a repetition column with no unnesting specification and no subscript was specified.
- There are duplicate instances of the derived column name of a derived column.

S: Ignores this SQL statement and rolls back.

P: Revise the SQL statement, and re-execute.

KFPA19254-E A

Subquery specified in *aa....aa*

A subquery was specified in an invalid location.

aa....aa: { set function | assignment statement | `RETURN` statement | `CALL` statement | `WRITE` specification | `WRITE LINE` statement }

S: Ignores this SQL statement.

P: Revise the SQL statement, and re-execute.

KFPA19290-E A

Unable to specify *aa....aa* in *bb...bb*

The following items cannot be specified in the search condition of a check constraint definition or in a trigger action condition.

Search condition of a check constraint

- Subquery
- Set function
- Repetition column
- Embedded variable or ? parameter

- USER
- CURRENT DATE or CURRENT_DATE
- CURRENT TIME or CURRENT_TIME
- CURRENT TIMESTAMP or CURRENT_TIMESTAMP
- Columns not defined in a table definition
- For a single column check constraint, a column not defined in the column specification
- A value expression of an abstract data type
- User function
- Structured repetition predicate
- CAST specification that specified conversion from TIME to TIMESTAMP
- Scalar function VARCHAR_FORMAT that specifies TIME in the value expression
- Scalar function IS_USER_CONTAINED_IN_HDS_GROUP
- Window function

Trigger action condition

- Subquery
- Set function
- Repetition column
- Embedded variable, or ? parameter
- A column not qualified by an old or new values correlation name
- Value expression in the abstract data type
- Plug-in function
- Java stored function
- Structured repetition predicate
- Window function

aa...aa: Error causing conditions:

```
{ subquery| set function| array column  
| variable or parameter  
| column "column-name" unqualified by old or new values  
correlation name
```

```

| value expression of abstract data type
| PLUGIN function| JAVA function| ARRAY predicate
| function invocation| USER| CURRENT_DATE
| CURRENT_TIME| CURRENT_TIMESTAMP| column "column-name"
| CURRENT_DATE implied by scalar function VARCHAR_FORMAT or
cast specification
| scalar function IS_USER_CONTAINED_IN_HDS_GROUP
| window function }

```

bb...bb:{triggered action condition|check constraint definition}

S: Ignores this SQL statement and rolls back.

P: Correct this SQL statement and re-execute.

KFPA19291-E A

Invalid use of "LIMIT" clause

One of the following errors was detected in the usage of the LIMIT clause:

- A column qualified by an old or new values correlation name was specified as the maximum row count or offset row count.
- The total value that can be specified in the maximum row count and offset row count exceeds 2,147,483,647.

S: Ignores this SQL statement (unless it is a definition SQL statement, in which case rollback is executed).

P: Correct the SQL statement and re-execute.

KFPA19292-E A

Unable to specify outer reference column "*aa....aa*" with data type "BINARY", query-no=*bbb*

The BINARY data type cannot be specified for a column that makes an external reference.

aa....aa: Name of column that made an external reference

However, when an incorrectly specified column is in a named derived table, the column name of the base table for the applicable named derived table is displayed.

bbb: The number of the query specifying the column that made an external reference.

S: Ignores this SQL statement. However, a definition SQL statement rolls back.

P: Correct this SQL statement and re-execute.

KFPA19293-E A

Invalid handler declaration or condition declaration
code=*aa* (*bb...bb*)

An error was detected in the condition declaration or handler declaration.

aa: Reason code

bb...bb: Additional error information

The following table shows each reason code and the corresponding additional information or meaning.

Reason code (<i>aa</i>)	Additional information (<i>bb...bb</i>)	Meaning
01	Condition name " <i>cc...cc</i> " already declared	Condition name <i>cc...cc</i> specified in the condition declaration was already defined.
02	SQLCODE value " <i>dd...dd</i> " in condition " <i>cc...cc</i> " already declared in other condition declaration	SQLCODE value <i>dd...dd</i> specified in condition declaration <i>cc...cc</i> was already defined as the SQLCODE value of another condition declaration.
03	Condition name " <i>cc...cc</i> " in handler declaration not found	The condition name <i>cc...cc</i> specified in the handler declaration was not found.
04	Unable to specify SQLCODE value or condition name together with "SQLERROR" or "NOT FOUND"	If either SQLERROR or NOT FOUND is specified in the condition value for the handler declaration, the SQLCODE value or condition name cannot be specified in the same handler declaration.
05	Duplicate condition value	The same SQLCODE value or condition name cannot be specified multiple times in the condition value of the handler declaration. Also, a condition name expressing the same SQLCODE as the SQLCODE value cannot be specified.
06	Unable to specify same condition as condition in other handler declaration	A condition value expressing the same condition cannot be specified in another handler declaration.
07	Zero specified in SQLCODE value	0 is specified in the SQLCODE value of the condition declaration or handler declaration.

S: Ignores this SQL statement and rolls back.

P: Correct this SQL statement and re-execute.

KFPA19294-E A

Invalid signal value *aa...aa*

One of the following errors was detected in the signal value:

(1) The condition name *aa....aa* specified in the signal value was not found.

(2) One of the following errors was detected in `SQLSTATE` value *aa....aa* specified in the signal value:

- A literal other than a character literal less than 5 digits long was specified.
- Values other than uppercase letters between A and Z or numerals 0-9 were specified.
- The numerals 0-5, the uppercase letters A-I, and R were specified in the first character.

aa....aa: { "*condition-name*" | `SQLSTATE` "*SQLSTATE-value*" }

S: Ignores this SQL statement and rolls back.

P: Correct the SQL statement and re-execute.

KFPA19295-E A

Invalid specification in `UPDATE` statement with update trigger

The following manipulations cannot be performed on a table with a trigger that uses `UPDATE` as an event:

- Updating using component specifications on tables with a trigger defined that uses a new values correlation name
- Updating `BLOB` type data using a concatenation operation or `BINARY` type data with a definition length of 32,001 bytes or more in a table defining `UPDATE` as the trigger.

S: Ignores this SQL statement (unless it is a definition SQL statement, in which case rollback is executed).

P: Correct this SQL statement and re-execute.

KFPA19400-E A

aa....aa statement executed, signal value=*bb....bb*

The *aa....aa* statement caused an error.

aa....aa: SQL statement types { `SIGNAL` | `RESIGNAL` }

bb....bb: The signal values specified in the `SIGNAL` statement or `RESIGNAL` statement.

If a condition name is specified in the signal name:

condition-name

When `SQLSTATE` is specified in the signal value:

`SQLSTATE:XXXXX` (*XXXXX* is the `SQLSTATE` value).

S: Ignores this SQL statement, or invalidates this transaction.

P: Refer to the SQL procedure or trigger definition to check the reason why the SIGNAL statement or RESIGNAL statement was executed. If the RESIGNAL statement is executed, you can check the error information history by referring to the GET DIAGNOSTICS diagnostic information.

KFPA19403-E A

No error occurred before executing RESIGNAL statement

No SQL procedure statement was found that caused an error before executing the RESIGNAL statement.

S: Ignores this SQL statement, or invalidates this transaction.

P: Correct the SQL procedure or trigger definition and re-execute the SQL statement. To cause an error after executing the SQL procedure statement that does not cause an error, use the SIGNAL statement.

KFPA19404-E A

Handler raised recursively

The same handler was invoked recursively.

S: Ignores this SQL statement, or invalidates this transaction.

P: To prevent the same handler from being invoked again when handler operation is delayed, redefine the SQL routine or trigger and re-execute this SQL statement.

KFPA19405-E A

Invalid *aa...aa* of parameter in "LIMIT" clause.

The value of the variable specified in the LIMIT clause is an invalid data type.

aa...aa: Invalid type

data type: The data type is not INTEGER or SMALLINT.

value: The value of the variable either is not in the range 1-32,767 or is a null value.

S: Ignores this SQL statement.

P: When *aa...aa* is *data type*, change the data type of the variable specified in the LIMIT clause to INTEGER or SMALLINT, and then re-execute this SQL statement. If *aa...aa* is *value*, change the value of the variable specified in the LIMIT clause to between 1 and 32,767 inclusive, and then re-execute this SQL statement.

KFPA19406-E A

Unable to specify condition name associated with SQLCODE value in *aa...aa* statement, condition name=*bb...bb*

The condition name associated with the SQLCODE value in the SIGNAL statement or RESIGNAL statement could not be specified.

aa...aa: Type of SQL statement { SIGNAL | RESIGNAL }

bb...bb: The condition name specified as the signal value in the SIGNAL statement or RESIGNAL statement

S: Ignores this SQL statement, or invalidates this transaction.

P: Re-evaluate the SQL procedure or trigger definition and check whether the condition name associated with the SQLCODE value in the SIGNAL statement or RESIGNAL statement was specified. When specifying the condition name in the SIGNAL statement or RESIGNAL statement, do not specify the SQLCODE value in the condition declaration.

KFPA19407-E A

Invalid specification in *aaaaaaa* statement with *bbb* clause

The format of the INSERT, UPDATE, or DELETE statement specified in the FOR clause or the format of the EXECUTE statement specified in the BY clause is invalid.

aaaaaaa: Type of SQL statement { INSERT | UPDATE | DELETE | EXECUTE }

bbb: Clause name { FOR | BY }

S: Ignores this SQL statement.

P: Correct either the SQL statement or the UAP as follows, and then re-execute:

- To specify an embedded variable array and insert multiple columns into the table in column units:

FOR: Embedded variable

```
INSERT INTO [authorization-identifier.] table-identifier
[ (column-name [, column-name] . . . )
```

```
VALUES ( :embedded-variable-array [:indicator-variable-array]
```

```
[ , :embedded-variable-array [:indicator-variable-array] ] . . . )
```

```
[WITH ROLLBACK]
```

- To specify an embedded variable array and insert multiple columns into the FIX attributes table in column units:

FOR: Embedded variable

```
INSERT INTO [authorization-identifier.] table-identifier (ROW)
```

```
VALUES ( :embedded-variable-array [:index-variable-array] )
```

```
[WITH ROLLBACK]
```

- To preprocess SQL (the INSERT statement) and execute using the EXECUTE statement:

(SQL to be preprocessed)

```
INSERT INTO [authorization-identifier.]table-identifier
[ (column-name [, column-name] . . . )]
```

```
VALUES (? parameter [, ? parameter] . . .)
```

```
[WITH ROLLBACK]
```

```
INSERT INTO [authorization-identifier.]table-identifier (ROW)
```

```
VALUES (? parameter)
```

```
[WITH ROLLBACK]
```

KFPA19408-E A

Unable to execute SQL except INSERT, UPDATE or DELETE using EXECUTE statement with BY clause

The EXECUTE statement specified by the BY clause can only execute the INSERT, UPDATE, or DELETE statement.

S: Ignores this SQL statement.

P: When executing a query other than the INSERT, UPDATE, or DELETE statement in the EXECUTE statement, correct the SQL statement or the UAP to remove the specification of the BY clause, and then re-execute the SQL statement.

KFPA19409-E A

Unable to insert into *aa....aa* using *bb...bb* statement with *cc....cc* clause

When inserting an INSERT statement specifying the FOR clause or an EXECUTE statement specifying the BY clause, insertions cannot be made into the following items:

- A BINARY type column with a definition length of 32,001 bytes or more
- A table with a BINARY column with a definition length of 32,001 bytes or more in the WITH DEFAULT specification
- A BLOB type column
- A table with a BLOB column in the WITH DEFAULT specification
- A column with the abstract data type

aa....aa: Insertion target

```
{column of BINARY data type (length over 32000)|table which
has BINARY data type (length over 32000) column with WITH
DEFAULT|column of BLOB data type|table which has BLOB data
type column with WITH DEFAULT|column of abstract data type}
```

bb...bb: Type of SQL statement {INSERT|EXECUTE}

cc....cc: Clause name {FOR|BY}

S: Ignores this SQL statement.

P: When executing the INSERT statement specified in the FOR clause or the EXECUTE statement specified in the BY clause, correct the SQL statement or the UAP as follows and re-execute the SQL statement:

- Do not insert anything into a BINARY type column with a definition length of 32,001 bytes or more.
- Do not insert anything into a table with any BINARY columns with a definition length of 32,001 bytes or more specified in WITH DEFAULT.
- Do not insert anything into a BLOB type column (do not specify the null value as the insertion value).
- Do not insert anything into a table with any BLOB columns specified in WITH DEFAULT.
- Do not insert anything into an abstract data type column.

KFPA19411-E A

Unable to lock shared table in RDAREA which containing table used by cursor

An attempt was made to execute the LOCK statement using the EXCLUSIVE specification for a shared table by an RDAREA that stores a shared table for which a cursor is open.

S: Ignores this SQL statement.

P: If the LOCK statement was executed using the EXCLUSIVE specification for a shared table, close the open cursor for the other shared table that is stored in the RDAREA that stores the target shared table, and then execute the LOCK statement.

KFPA19450-E A

Invalid trigger definition code=*aa* (*bb....bb*)

An error was detected in the trigger definition.

aa: Reason code

bb....bb: Additional error information

Reason code (aa)	Additional information (bb....bb)	Meaning
01	Another user's table	The trigger cannot be defined in another user's table.
02	Non base table <i>cc....cc</i>	The trigger can only be defined in a base table. <i>cc....cc</i> : {view table foreign table ALIAS}
03	Table not found	A table for defining the trigger cannot be found.

2. Messages

Reason code (aa)	Additional information (bb....bb)	Meaning
04	Duplicate "OLD ROW" or "NEW ROW"	OLD ROW and NEW ROW can only be specified one time each in the old or new values alias list.
05	"OLD ROW" in insert trigger	When specifying INSERT in a trigger execution event, OLD ROW cannot be specified.
06	"NEW ROW" in delete trigger	When specifying DELETE in a trigger execution event, NEW ROW cannot be specified.
07	Duplicate name in old or new values alias	The same name cannot be specified in OLD ROW and NEW ROW.
08	"OLD ROW" or "NEW ROW" in "STATEMENT TRIGGER"	When specifying FOR EACH STATEMENT, NEW ROW or OLD ROW cannot be specified.
09	Num of trigger columns exceed 30000	The number of columns specified by the trigger execution event exceeds 30,000.
10	Duplicate trigger columns "dd....dd"	The trigger execution event specified duplicate column names. <i>dd....dd</i> : Column name
11	Trigger column "dd....dd" not found in table	The column specified by the trigger execution event was not found in the table defining triggers. <i>dd....dd</i> : Column name
12	SQL data change statement in "BEFORE TRIGGER"	A trigger definition specifying BEFORE during the trigger action time cannot specify the update SQL statements (INSERT, UPDATE or DELETE) in the trigger SQL statement.
13	Invalid column reference "dd....dd"	A repetition column or an abstract data type column cannot be referenced by an old or new values correlation name. <i>dd....dd</i> : Column name
14	Invalid triggered SQL statement	A PURGE TABLE statement, COMMIT statement, or ROLLBACK statement cannot be specified in the trigger SQL statement.
15	Trigger table in triggered SQL statement	A table defining triggers cannot be specified in the trigger SQL statement.
16	SQL function invocation in "BEFORE TRIGGER"	Only function invocation of the default constructor can be specified in the trigger SQL statement in the trigger definition specifying BEFORE during the trigger action time.
17	ROW for old or new values alias	ROW cannot be specified in the new or old values correlation name.

Reason code (aa)	Additional information (bb....bb)	Meaning
18	Foreign table in triggered SQL statement	The name of a foreign table cannot be specified in the trigger SQL statement.
19	Unqualified column of trigger table in triggered action	To specify the column name of a table specified in the trigger action search condition or the trigger definition in the trigger SQL statement, you must qualify the column name in the new or old values correlation name.
20	Invalid use of ? parameter	The ? parameter cannot be specified in the trigger SQL statement.
21	Call statement in "BEFORE TRIGGER"	A CALL statement cannot be specified in the trigger SQL statement in the trigger definition specifying BEFORE during the trigger action time.
22	Invalid use of JAVA procedure or function	A Java stored procedure or a Java stored function cannot be specified in the trigger SQL statement.
23	Invalid use of GET_JAVA_STORED_ROUTINE_SOURCE specification	GET_JAVA_STORED_ROUTINE_SOURCE cannot be specified in the trigger SQL statement.
24	Invalid use of default specification	If the default value specifies the CURRENT_TIMESTAMP column of the USING BES specification in the assignment target of the assignment statement, DEFAULT cannot be specified as the assignment value.

S: Ignores this SQL statement.

P: Correct this SQL statement, and then re-execute.

KFPA19451-E A

Unable to execute trigger *aa....aa.bb....bb* due to *cc....cc*

Trigger *aa....aa.bb....bb* cannot be executed due to the constraint indicated in *cc....cc*.

aa....aa: Authorization identifier

bb....bb: Trigger identifier

cc....cc: Constraint

more than 16 nest:

The number of nesting levels exceeded 16 during trigger execution.

COMMIT/ROLLBACK/PURGE TABLE statement:

The COMMIT, ROLLBACK or PURGE TABLE statements cannot be executed by

a trigger.

Java routine:

Java routines cannot be executed by a trigger.

S: Ignores this transaction.

P: Take the following actions for each constraint:

For more than 16 nest:

Correct the trigger definition so the number of trigger nesting levels does not exceed 16, and then re-execute.

For a COMMIT/ROLLBACK/PURGE TABLE statement:

Correct the SQL stored procedure invoked by the CALL statement from inside a trigger so neither COMMIT nor ROLLBACK is executed, and then re-execute the statement.

For Java routine:

Correct so that the Java routine is not executed from inside the trigger, and then re-execute.

KFPA19452-E A

Unable to specify SQL optimization specification for "aaaaa" in query for table derived from "bb...bb"

The following SQL optimization specifications cannot be specified by queries to a table join (including joined tables) and derived or by queries to tables derived by specifying set operations:

- SQL optimization specification of the index used
- SQL optimization specification of the joining format (joining type SQL optimization specifications can be specified for named derived tables generating internal derived tables)

The following are the conditions for creating internal derived tables:

1. One of the following items is either included in a subquery that is a named derived table in a query to a named derived table derived by specifying SELECT DISTINCT, or is directly included:
 - GROUP BY clause, a HAVING clause, or a set function
 - SELECT DISTINCT
 - Table join (including outer join and inner join)
 - Specification of value expressions other than a column specification in the selection expression

- One or more columns of a name derived table specified by the FROM clause are not specified one time each
2. One of the following items is directly included in a query to a named derived table derived by specifying the GROUP BY clause, HAVING clause, or a set function:
 - GROUP BY clause, a HAVING clause, or a set function
 - Table join (including outer join and inner join)
 - Window function
 3. One of the following items is directly included in a query to a named derived table derived by specifying a value expression other than a column specification as a selection expression:
 - GROUP BY clause, a HAVING clause, or a set function
 - Window function
 - Joined table
 4. A query on a named derived table derived by directly specifying a set function with DISTINCT contains one of the following:
 - GROUP BY clause, HAVING clause, or set function
 - SELECT DISTINCT
 - Window function
 5. An inquiry to a named derived table derived by specifying a table join (including outer join and inner join) directly includes a table join (including outer join and inner join), and specifies the table join.
 6. A query on a named derived table derived by directly specifying a scalar subquery as a selection expression contains one of the following:
 - SELECT DISTINCT
 - GROUP BY clause, HAVING clause, or set function
 - Table join (including outer join and inner join)
 - A value expression other than a column specification specified in a selection expression
 - A scalar subquery specified in a selection expression
 - The same column derived from a value expression containing a subquery, specified more than once in the selection expression for a named derived table
 - A column derived from a value expression containing a subquery, specified as an external reference column in the selection expression for a named

derived table

- A viewed table defined before HiRDB version 07-02
7. A query for a named derived table derived from a set operation, which satisfies one of the following:
 - One of the operators of the set operation includes an internal derived table query, a query that specifies a derived table, or a query that specifies a subquery in a selection expression.
 - One of the operators of the set operation and the query for the named derived table satisfy one of the conditions of 1 through 6 above.
 8. A query for a named derived table derived from a set operation that includes other than `UNION ALL`, which directly includes one of the following:
 - `GROUP BY` clause, `HAVING` clause, or a set function
 - `SELECT DISTINCT`
 - Table join (including external or internal joins)
 - `WHERE` clause
 - Subquery
 - Value expression other than a column specification in a selection expression
 - In a selection expression, the columns of a named derived table specified in the `FROM` clause are not specified once each
 9. A query for a named derived table derived from a set operation that includes only `UNION ALL`, which directly includes one of the following:
 - `GROUP BY` clause, `HAVING` clause, or a set function
 - Window function
 - `WHERE` clause or subquery (however, only a subquery, a set operation operator, or an `INSERT` statement query)
 - Function call or system definition scalar function
 - Component specification
 - `WRITE` specification
 - `GET_JAVA_STORED_ROUTINE_SOURCE` specification
 - Sort specification with items not in the selection expression
 - Subquery for a named derived table derived from a set operation specified in the `FROM` clause
 - Subquery that specifies a derived table

- Subquery specified in a value expression other than a column specification in the `GROUP BY` clause
 - The data type of an SQL variable specified in a selection expression or an SQL parameter is one of the following:
 - BLOB type
 - BINARY type 32,001 bytes or larger
 - Abstract data type
 - BOOLEAN type
10. The query specification specified for the table-joining of named derived tables derived by a set operation consisting solely of `UNION ALL` specifies one of the following:
- A named derived table in a table reference other than at the leftmost outer table for an outer join
 - The `FROM` clause specifying a named derived table, which specifies a comma join (that is, specifies a different table reference than the joined table for which a derived table is specified)
 - A subquery or a derived table
 - A query specification contained either in a subquery or in the operation term for a set operation
 - A set operation term that derives named derived tables and contains one of the following:
 - Table join
 - `GROUP BY` clause, `HAVING` clause, or a set function
 - `SELECT DISTINCT`
 - A value expression in a selection expression other than a column specification
 - A query that creates an inner derived table
 - A query specifying a derived table
 - A named derived table derived by specifying a set operation (in addition to a named derived table)
 - One of the following, in the table reference to a joined table specifying a named derived table:
 - A named derived table derived by specifying the joining of tables
 - A named derived table derived by specifying a `GROUP BY` clause, a

HAVING clause, or a set function

- A named derived table derived by specifying `SELECT DISTINCT`
- A named derived table derived by specifying a value expression other than a column specification in a selection expression
- A named derived table derived by specifying a query that creates an inner derived table
- A named derived table derived by specifying a subquery
- The total number of tables obtained by the following expression is greater than 65:

$$\text{Total number of tables} = a + b \times c + d$$

a: Total number of tables from which named derived tables are derived

b: Number of set operations from which named derived tables are derived + 1

c: Total number of tables specified on the right side of an outer join

d: If a query other than a query for which a named derived table is specified is also specified, the total number of tables specified in the query

aaaaa: {index|join}

bb....bb: {join|set operation}

S: Ignores this SQL statement.

P: Correct this SQL statement and re-execute.

KFPA19453-E A

Unable to specify SQL optimization specification for index to view or "WITH" query which derives internal table

The following SQL optimization specifications for the used index cannot be specified by a query creating internal derived tables:

The following are the conditions for creating internal derived tables:

1. One of the following items is either included in a subquery that is a named derived table in a query to a named derived table derived by specifying `SELECT DISTINCT`, or is directly included:
 - `GROUP BY` clause, `HAVING` clause, or set function
 - `SELECT DISTINCT`
 - Table join (including outer join and inner join)
 - Specification of value expressions other than a column specification in the selection expression

- One or more columns of a name derived table specified by the FROM clause are not specified one time each
2. One of the following items is directly included in a query to a named derived table derived by specifying the GROUP BY clause, HAVING clause, or a set function:
 - GROUP BY clause, HAVING clause, or set function
 - Table join (including outer join and inner join)
 - Window function
 3. One of the following items is directly included in a query to a named derived table derived by specifying a value expression other than a column specification as a selection expression:
 - GROUP BY clause, HAVING clause, or set function
 - Window function
 - Joined table
 4. A query on a named derived table derived by directly specifying a set function with DISTINCT contains one of the following:
 - GROUP BY clause, HAVING clause, or set function
 - SELECT DISTINCT
 - Window function
 5. An inquiry to a named derived table derived by specifying a table join (including outer join and inner join) directly includes a table join (including outer join and inner join), and specifies the table join.
 6. A query on a named derived table derived by directly specifying a scalar subquery as a selection expression contains one of the following:
 - SELECT DISTINCT
 - GROUP BY clause, HAVING clause, or set function
 - Table join (including outer join and inner join)
 - A value expression other than a column specification specified in a selection expression
 - A scalar subquery specified in a selection expression
 - The same column derived from a value expression containing a subquery, specified more than once in the selection expression for a named derived table
 - A column derived from a value expression containing a subquery, specified as an external reference column in the selection expression for a named

derived table

- A viewed table defined before HiRDB version 07-02
7. A query for a named derived table derived from a set operation, which satisfies one of the following:
 - One of the operators of the set operation includes an internal derived table query, a query that specifies a derived table, or a query that specifies a subquery in a selection expression.
 - One of the operators of the set operation and the query for the named derived table satisfy one of the conditions of 1 through 6 above.
 8. A query for a named derived table derived from a set operation that includes other than `UNION ALL`, which directly includes one of the following:
 - `GROUP BY` clause, `HAVING` clause, or a set function
 - `SELECT DISTINCT`
 - Table join (including external or internal joins)
 - `WHERE` clause
 - Subquery
 - Value expression other than a column specification in a selection expression
 - In a selection expression, the columns of a named derived table specified in the `FROM` clause are not specified once each
 9. A query for a named derived table derived from a set operation that includes only `UNION ALL`, which directly includes one of the following:
 - `GROUP BY` clause, `HAVING` clause, or a set function
 - Window function
 - `WHERE` clause or subquery (however, only a subquery, a set operation operator, or an `INSERT` statement query)
 - Function call or system definition scalar function
 - Component specification
 - `WRITE` specification
 - `GET_JAVA_STORED_ROUTINE_SOURCE` specification
 - Sort specification with items not in the selection expression
 - Subquery for a named derived table derived from a set operation specified in the `FROM` clause
 - Subquery that specifies a derived table

- Subquery specified in a value expression other than a column specification in the `GROUP BY` clause
 - The data type of an SQL variable specified in a selection expression or an SQL parameter is one of the following:
 - BLOB type
 - BINARY type 32,001 bytes or larger
 - Abstract data type
 - BOOLEAN type
10. The query specification specified for the table-joining of named derived tables derived by a set operation consisting solely of `UNION ALL` specifies one of the following:
- A named derived table in a table reference other than at the leftmost outer table for an outer join
 - The `FROM` clause specifying a named derived table, which specifies a comma join (that is, specifies a different table reference than the joined table for which a derived table is specified)
 - A subquery or a derived table
 - A query specification contained either in a subquery or in the operation term for a set operation
 - A set operation term that derives named derived tables and contains one of the following:
 - Table join
 - `GROUP BY` clause, `HAVING` clause, or a set function
 - `SELECT DISTINCT`
 - A value expression in a selection expression other than a column specification
 - A query that creates an inner derived table
 - A query specifying a derived table
 - A named derived table derived by specifying a set operation (in addition to a named derived table)
 - One of the following, in the table reference to a joined table specifying a named derived table:
 - A named derived table derived by specifying the joining of tables
 - A named derived table derived by specifying a `GROUP BY` clause, a

HAVING clause, or a set function

- A named derived table derived by specifying `SELECT DISTINCT`
- A named derived table derived by specifying a value expression other than a column specification in a selection expression
- A named derived table derived by specifying a query that creates an inner derived table
- A named derived table derived by specifying a subquery
- The total number of tables obtained by the following expression is greater than 65:

$$\text{Total number of tables} = a + b \times c + d$$

a: Total number of tables from which named derived tables are derived

b: Number of set operations from which named derived tables are derived + 1

c: Total number of tables specified on the right side of an outer join

d: If a query other than a query for which a named derived table is specified is also specified, the total number of tables specified in the query

S: Ignores this SQL statement.

P: Correct the SQL statement, and then re-execute.

KFPA19454-E A

Unable to insert using *aa....aa* statement with *bb....bb* clause into table with row-level trigger

The following SQL statements cannot be used to batch-insert multiple rows into a table with row-level triggers defined:

- An `INSERT` statement specifying a `FOR` clause
- An `EXECUTE` statement specifying a `BY` clause

aa....aa: {`INSERT` | `EXECUTE`}

bb....bb: {`FOR` | `BY`}

S: Ignores this SQL statement.

P: Correct the SQL statement or the UAP to enable the insertion of one row at a time, and then re-execute the SQL statement.

KFPA19455-E A

Unable to update specified column using new values correlation name in `BEFORE` trigger

A trigger definition specifying `BEFORE` during the trigger action time (`BEFORE` trigger) cannot use the new values correlation name to qualify and update the following

columns:

- Columns specifying `SYSTEM GENERATED`

Also, `BEFORE` triggers with `INSERT` trigger execution events cannot use the new values correlation name to qualify and update the following column:

- A column specifying the partitioning key of the partitioning table (excluding flexible hash partitioning tables)

S: Invalidates this transaction.

P: Correct the trigger definition so that the new values correlation name does not qualify and update the column specifying `SYSTEM GENERATED` and the column specified in the partitioning key.

KFPA19456-E A

Unable to execute SQL in 64bit version, because check constraint "*aa....aa*" in *bb....bb*."*cc....cc*" created in 32bit version

HiRDB cannot execute SQL in 64-bit mode, because the table *bb....bb*."*cc....cc*" for which the check constraint was defined was created in 32-bit mode.

aa....aa: Name of the check constraint

bb....bb: Authorization identifier of the table that defined the check constraint

cc....cc: Table identifier of the table that defined the check constraint

S: Ignores this SQL statement. If it is a definition SQL statement, it is rolled back.

P: Restart HiRDB in 64-bit mode, and then re-define the check constraint. For details on migrating tables that have a check constraint defined to 64-bit mode, see the *HiRDB Version 8 Installation and Design Guide*.

KFPA19458-E A

Unable to execute *aa....aa* statement using foreign table due to *bb....bb*

Unable to execute the *aa....aa* statement specifying a foreign table because it contains *bb....bb*.

aa....aa: { INSERT | UPDATE | DELETE }

bb....bb: Error information

The table below summarizes the contents of the error information.

- The following items represent a syntax that cannot be executed on the foreign server:

Error information	Explanation
function invocation	Function call or system-defined scalar function

2. Messages

Error information	Explanation
IS_USER_CONTAINED_IN_HDS_GROUP function	IS_USER_CONTAINED_IN_HDS_GROUP function
HEX function	HEX function
TIMESTAMP function	TIMESTAMP function
TIMESTAMP_FORMAT function	TIMESTAMP_FORMAT function
BIT_AND_TEST function	BIT_AND_TEST function
VARCHAR_FORMAT function	VARCHAR_FORMAT function
DATE function with datetime format	DATE function specifying a date format
TIME function with datetime format	TIME function specifying a time format
POSITION function	POSITION function
Row value constructor with more than two elements	Row value constructor with two or more row value constructor elements
Right-hand side of "IN" predicate not value specification	Among the IN predicates, one that has a non-specified row value constructor on the right-hand side
CAST specification	CAST specification
SIMILAR predicate	SIMILAR predicate
Internal derived table generated for underlying table of derived table	Given a query specification specifying a viewed table, a query name with a WITH clause, or a derived table; if, in the viewed table definition, a viewed table, a WITH clause, or a derived table that, in turn, becomes an inner derived table is specified in the derived table specified in a derived query expression in the WITH clause or in the FROM clause, the former query specification

- If any of the following items is specified in a selection expression, the selection expression will represent a syntax that cannot be executed on the foreign server:

Error information	Explanation
{embedded-variable, SQL-parameter, or SQL-variable USER CURRENT_DATE CURRENT_TIME CURRENT_TIMESTAMP} in select expression	<ul style="list-style-type: none"> • Embedded variable, SQL parameter, or SQL variable • USER • CURRENT_DATE • CURRENT_TIME • CURRENT_TIMESTAMP

- If any of the following items is coded in an arithmetic operation, a date operation, a concatenation operation, a scalar function, or a CASE expression, the item will represent a syntax that cannot be executed on the foreign server:

Error information	Explanation
{embedded variable, ? parameter, SQL parameter, or SQL variable USER}CURRENT_DATE CURRENT_TIME CURRENT_TIMESTAMP} in scalar operation	<ul style="list-style-type: none"> • Embedded variable, ? parameter, SQL parameter, or SQL variable • USER • CURRENT_DATE • CURRENT_TIME • CURRENT_TIMESTAMP

- A value expression, predicate, GROUP BY clause, ORDER BY clause, or a selection expression (containing a GROUP BY clause, an ORDER BY clause, DISTINCT, a set function, a HAVING clause, or a set operation) will represent a syntax that cannot be executed on the foreign server:

Error information	Explanation
TIME_STAMP type	Time stamp data type
BINARY type	Binary data type

- The following items cannot be executed, because they are execution-disabled in the Hub optimization information definition on the foreign server. To execute these items, modify the Hub optimization information definition on the foreign server:

Error information	Explanation
SET functions for pd_hub_opt_set_func	Set function
CASE expressions for pd_hub_opt_case	CASE expression
LIKE or XLIKE predicate for pd_hub_opt_like	LIKE predicate, XLIKE predicate
ABS function for pd_hub_opt_abs	ABS function
Column specification of DATE type, DATE function, or CHAR function with DATE argument for pd_hub_opt_date	DATE-type column specification, scalar function DATE(), or a date type specified in CHAR()
TIME or CHAR function with TIME argument for pd_hub_opt_time	TIME or CHAR function with a time type specified
DIGITS function for pd_hub_opt_digits	DIGITS function

2. Messages

Error information	Explanation
LENGTH function for pd_hub_opt_length	LENGTH function
LOWER or UPPER functions for pd_hub_opt_lower_upper_type	LOWER function, UPPER function
MOD function for pd_hub_opt_mod_div_type	MOD function
Set function AVG for pd_hub_opt_mod_div_type	Set function AVG
Division operation for pd_hub_opt_mod_div_type	Division
SUBSTR function for pd_hub_opt_substr	SUBSTR function
DECIMAL, FLOAT, or INTEGER functions for pd_hub_opt_num	DECIMAL function, FLOAT function, or INTEGER function involving a type conversion to a numeric data type
Scalar functions for extraction of date or time for pd_hub_opt_datetime	Scalar function that extracts a date or time
Date or time operations for pd_hub_opt_datetime_op	Date or time operation
Variable-length character string with possibility of including trailing space for pd_hub_opt_trailing_spc	Variable-length character string containing a trailing space or with potential to contain the same
Concatenation operation including column with NULLABLE option for pd_hub_opt_nullable	Concatenation operation including the column, if YES is specified in the NULLABLE column option or if the NULLABLE column option is not specified
Value specification with possibility of including 0-length character string for pd_hub_opt_use_zero_string	0-byte character string or a value specification with that possibility
TIME type for pd_hub_opt_time_24hour	TIME type
FLOAT type for pd_hub_opt_float	Value expression including the FLOAT type, predicate, GROUP BY clause, ORDER BY clause, or selection expression (with one of the following specifications: GROUP BY clause, ORDER BY clause, DISTINCT, set function, or HAVING clause)
Number of nesting levels of a scalar operation or set function for pd_hub_opt_nest_scalar is too large.	Exceeds the maximum number of nesting levels for scalar operations or set functions

Error information	Explanation
Length of the result of a value expression of character type for <code>pd_hub_opt_date_len</code> is too long.	Exceeds the maximum length for the result of a value expression involving a fixed-length character type, a fixed-length national character type, a variable-length national character type, a fixed-length mixed character type, or a variable-length mixed character type.
National character string except double-byte character for <code>pd_hub_opt_nchar</code>	The character code set for the national character type on the foreign server is not a 2-byte fixed width, or the embedding character is not a 2-byte character space.
Outer join for <code>pd_hub_opt_on_cnd</code>	Outer join (<code>LEFT OUTER JOIN</code>)
Table join for <code>pd_hub_opt_joined_table</code>	Table joining
Grouping for <code>pd_hub_opt_grouping</code>	<code>GROUP</code> processing
Number of tables in single SQL for <code>pd_hub_opt_table_num</code> is too large.	The number of tables specified in the 1SQL statement is larger than the maximum value.

- The following items cannot be executed on a foreign server:

Error information	Explanation
Set operation	Set operations
Tables on different servers	The table subject to row insertion, update, or deletion is a foreign table, and the server is specifying more than one different table.
No selection of column derived from set function	A set function is specified in a view definition or in a selection expression for a derived query expression in a <code>WITH</code> clause, and a column specification derived from the set function is not included in the selection expression in the query specification specified in the <code>FROM</code> clause in which the viewed table or the query name of the <code>WITH</code> clause is specified.
Reference to neither column nor set function in query with <code>HAVING</code>	A set function or <code>GROUP BY</code> clause is not specified, and a column is not specified in the selection expression in the query specification with <code>HAVING</code> .
Duplication of underlying columns for grouping	The same column is specified in a view definition or in the selection expression in a derived query in the <code>WITH</code> clause, and the column is specified in the <code>GROUP</code> clause in the query specification in which the viewed table or the query name of the <code>WITH</code> clause is specified in the <code>FROM</code> clause.

- If any of the following items is coded in a comparison predicate operand that does not contain a column specification, the item will represent a syntax that cannot be executed on a foreign server:

Error information	Explanation
{SQL parameter, or SQL variable USER CURRENT_DATE CURRENT_TIME CURRENT_TIMESTAMP} in comparison predicate without column	<ul style="list-style-type: none"> • SQL parameter or SQL variable • USER • CURRENT_DATE • CURRENT_TIME • CURRENT_TIMESTAMP

S: Ignores this SQL statement.

P: Refer to the explanation given in the table, revise the SQL statement, and then re-execute the UAP.

KFPA19502-E A

Error occurred in UAP environment file *aa....aa*, operand=*bb....bb*, reason code=*cc....cc*

An error occurred in the UAP environment definition file.

aa....aa: UAP environment definition file name

bb....bb: Name of the operand causing the error

One asterisk (*) is displayed when no operand can be specified.

cc....cc: Reason code

S: Ignores this SQL statement.

P: Take appropriate action for the output reason code.

Action

Take appropriate action for the output reason code.

Reason code	Description	Action by the programmer	Action by the HiRDB administrator
1	A memory shortage occurred.	Re-execute the UAP. If the same error recurs, contact the HiRDB administrator.	Take one of the following actions to have extra available memory: Reduce the number of concurrently executing processes. Increase the swap area. Increase real memory.
2	Communication to the dictionary server failed.		Confirm that the dictionary server started normally.
3	Dictionary search failed.	None	Correct the status of the data dictionary RDAREA.

Reason code	Description	Action by the programmer	Action by the HiRDB administrator
99	An internal HiRDB error occurred.		Save the files under %PDDIR%\spool, %PDDIR%\lib\sysconf, or %PDDIR%\lib\sysdef and contact a customer engineer.
100	The UAP environment definition file could not be opened.		Confirm that the UAP environment definition file can be found or that the HiRDB administrator can open this file (check the permissions settings of the %PDCONFPATH%\pduapenv directory or the UAP environment definition file).
101	Invalid definition		Take corrective action according to the error message that is output to the event log (in UNIX, syslogfile) on the server machine of the connection target HiRDB server.
300	An error was detected in the RDAREA type specified in the pdlbuffer operand.		Correct the RDAREA name specified in the pdlbuffer operand of the UAP environment definition.
301	Option required for the pdlbuffer operand is missing, or an option that cannot be specified was specified.		Correct the option specification of the pdlbuffer operand in the UAP environment definition.
302	Duplicate local buffer names, RDAREA names, or index names are specified in the pdlbuffer operand.		Correct the local buffer name, RDAREA name, or index names specified in the pdlbuffer operand of the UAP environment definition.
303	The local buffer count exceeded the maximum value.		Set the number of pdlbuffer operands specified in the UAP environment definition to 100 or less. For HiRDB/Parallel Server, set the value for each server to 100 or fewer.

KFPA19503-E A

Unable to begin transaction during maintenance of HiRDB

The pdchgconf command is executing, or the pdprgrenew command is executing. Therefore, transactions executing a stored procedure, ALTER PROCEDURE, ALTER ROUTINE, or ALTER TRIGGER cannot be started.

S: Ignores this SQL statement, or interrupts.

P: Once the `pdchgconf` or `pdprgrefresh` command has been completed, re-execute the UAP.

KFPA19506-E A

Extended statement name value "*aa...aa*" already defined

The extended statement name value *aa...aa* identifies another SQL statement.

aa...aa: SQL statement identifier that is the value of the extended statement name

S: Ignores this SQL statement.

P: Correct this SQL statement and re-execute.

KFPA19507-E A

PREPARE statement missing for extended statement name value "*aa...aa*"

No PREPARE statement is defined for the SQL statement with the extended statement name value "*aa...aa*".

aa...aa: SQL statement identifier that is the value of the extended statement name

S: Ignores this SQL statement.

P: Define the PREPARE statement for the extended statement name SQL statement.

KFPA19508-E A

Open cursor associated with prepared statement identified by "*aa...aa*" exists

Because the associated cursor is open, assignment of the SQL statement for the extended statement name value "*aa...aa*" cannot be released.

aa...aa: SQL statement identifier that is the value of the extended statement name

S: Ignores this SQL statement.

P: Before executing the DEALLOCATE PREPARE statement, close the associated cursor and re-execute.

KFPA19509-E A

ALLOCATE CURSOR statement missing for cursor "*aa...aa*"

The cursor assignment is missing for the specified cursor "*aa...aa*".

aa...aa: Cursor name

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA19510-E A

Procedure *aa...aa*. "*bb...bb*" not invoked

The procedure *aa....aa."bb...bb"* is not invoked in the same SQL session.

aa....aa: Authorization identifier

bb...bb: Routine identifier

S: Ignores this SQL statement.

P: Before executing `ALLOCATE CURSOR`, revise the procedure specified by `ALLOCATE CURSOR` to be called in the same SQL session, and re-execute.

KFPA19511-E A

Another cursor already allocated for procedure *aa....aa."bb...bb"*

A cursor is already assigned to the procedure *aa....aa."bb...bb"*.

aa....aa: Authorization identifier

bb...bb: Routine identifier

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA19512-E A

Preparation for requested SQL became invalid

Preprocessing for the SQL statement that requested execution has become invalid.

S: Ignores this SQL statement.

P: Perform preprocessing of the SQL statement again using the `PREPARE` statement, and request execution of the SQL statement.

KFPA19513-E A

Number of *aa....aa* exceeds *bbbb*

The number of *aa....aa* exceeds the maximum of *bbbb*.

- When *aa....aa* is extended statement name

The number of extended statement names that identify the preprocessed SQL statement exceeds 4095.

- When *aa....aa* is extended cursor name

The number of extended cursor names that identify the cursors allocated by `ALLOCATE CURSOR` exceeds 4095.

aa....aa: {extended statement name | extended cursor name}

bbbb: 4095

S: Ignores this SQL statement.

P: Revise the UAP so that the number of *aa....aa* does not exceed the maximum. By executing the `DEALLOCATE PREPARE` statement, you can ensure that the extended

statement names and extended cursor names do not identify the SQL statements and cursors.

KFPA19575-E A

Invalid shared table/index definition code=*aa* (*bb...bb*)

There is an error in the shared table or shared index definition.

aa: Reason code

bb...bb: Additional error information

S: Ignores this SQL statement.

P: Reason codes and additional error information are shown below. Correct the SQL statement, and re-execute the job.

Reason code	Additional error information	Explanation
01	Invalid specification for partitioning table	A shared table cannot use partitioned storage.
02	Invalid specification for WITHOUT ROLLBACK table	WITHOUT ROLLBACK cannot be specified for a shared table.
03	Specified RDAREA <i>cc...cc</i> for table not shared rdarea	When a shared table is defined for a HiRDB/Parallel Server, the shared table can only be stored in a shared RDAREA. <i>cc...cc</i> : RDAREA name
04	Specified RDAREA <i>cc...cc</i> for index not shared rdarea	When a shared index is defined for a HiRDB/Parallel Server, the shared index can only be stored in a shared RDAREA. <i>cc...cc</i> : RDAREA name

KFPA19576-E A

Specify RDAREA *aa...aa* is shared RDAREA

Because the specified RDAREA is a shared RDAREA, the following operations are invalid:

- Definition of a table other than a shared table
- Definition of an index other than a shared index
- Addition of an RDAREA
- Changing partitioned storage conditions

aa...aa: RDAREA name

S: Ignores this SQL statement.

P: Specify an RDAREA that is not a shared RDAREA and re-execute.

KFPA19581-E A

Invalid constraint definition for table *aa....aa."bb...bb"*
code=*cc (dd...dd)*

There is an error in the referential constraint definition or the check constraint definition of table *aa....aa."bb...bb"*.

aa....aa: Authorization identifier

bb...bb: Table identifier

cc: Reason code

dd...dd: Additional error information

S: Ignores this SQL statement.

P: Reason codes and additional error information are shown below. Correct the SQL statement, and re-execute the job.

Reason code	Additional error information	Explanation
01	shared table	Referential constraints cannot be defined for shared tables.
02	INSERT ONLY table	Referential constraints and checked constraints cannot be defined for falsification-prevented tables.

KFPA19582-E A

Unable to drop column on *aa....aa."bb...bb"* due to *cc....cc*

The column cannot be deleted, for one of the following reason:

- A check constraint has been defined for the table with the column is to be deleted.
- A referential constraint (foreign key) has been defined for the table with the column to be deleted.
- The table with a column to be deleted is a referential constraint referenced table.

aa....aa: Authorization identifier

bb...bb: Table identifier

cc....cc:

check constraint: A check constraint has been defined.

referential constraint: A referential constraint (foreign key) has been defined.

referenced table: This is a referential constraint referenced table.

S: Ignores this SQL statement.

P: Review the table name. Revise it as necessary, and re-execute the UAP.

KFPA19583-E A

Number of defined foreign keys on table *aa....aa*. "*bb....bb*" exceeds 255

The number of foreign keys that can be specified for a single table has exceeded the maximum (255).

aa....aa: Authorization identifier

bb....bb: Table identifier

S: Ignores this SQL statement.

P: Correct the number of CREATE TABLE foreign keys and re-execute.

KFPA19584-E A

More than 254 check constraint limits in *aa....aa*. "*bb....bb*"

Because the restriction on the number of check constraints (total number of Boolean operators specified in the check constraint search conditions [number of AND and OR, excluding the number of AND and OR in a CASE form's WHEN search conditions] and the total number of check constraints) that can be defined for a table has exceeded the maximum value (254), a check constraint cannot be defined.

aa....aa: Authorization identifier

bb....bb: Table identifier

S: Ignores this SQL statement.

P: Make the check restraint limit value 254 or less and re-execute.

KFPA19587-E A

Unable to change check pending status for table *aa....aa*. "*bb....bb*", code=*cc* (*dd....dd*)

The check pending status of table *aa....aa*. "*bb....bb*" cannot be changed.

aa....aa: authorization identifier

bb....bb: table identifier

cc: reason code

dd....dd: optional information about the error

S: Terminates the processing.

O: The table below explains the reason codes for error-related optional information. Resolve the error, and then re-execute the command as necessary.

Reason code (cc)	Optional information (dd....dd)	Explanation
01	Table not found in system	The table definition to be processed was deleted during the execution of the utility.
02	Table definition altered	The table definition to be processed was modified during the execution of the utility.

KFPA19602-E A

Unable to define referential constraint *aa....aa*."bb...bb" due to duplicated constraint

With a referential constraint, from the same column set (the order need not be the same), the same referenced table primary key cannot be referenced.

aa....aa: Authorization identifier

bb....bb: Constraint name

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA19603-E A

Unable to alter table, due to *aa....aa*

A column could not be altered for the following reasons:

- The applicable column used an old or new values correlation number under the search condition of the trigger action to reference another column. This column cannot be altered or deleted.
- The applicable column uses an old or new values correlation number in the trigger SQL statement to reference another column. This column cannot be altered or deleted.

aa....aa:

triggered action condition:

The column that could not be altered is being used under the trigger action search condition.

triggered SQL statement:

The column that could not be altered is being used by the trigger SQL statement.

S: Ignores this SQL statement.

P: When the SQL object can be invalidated, specify `WITH PROGRAM` and re-execute the job.

KFPA19612-E A

Invalid usage of MULTIDIM partitioning table
code=*aa*, reason=*bb...bb cc...cc dd...dd*

An error was detected in the specification of the matrix partitioning table.

aa: Reason code

bb...bb: Error information

The following table shows the reason code (*aa*) and error information (*bb...bb*):

Error code (aa)	Error information (bb...bb)	Description
01	only one RDAREA	Only one RDAREA was specified.
02	same RDAREA	The same RDAREA name was specified for all RDAREAs.
03	boundary values over	The sum of specified boundary values exceeds 3,000.
04	value and RDAREA unmatched	The number of boundary values and RDAREAs does not match.
05	RDAREA specification	An error was detected in the RDAREA specification. Possible causes: <ul style="list-style-type: none"> The specified table storage RDAREA does not match the specified BLOB or index storage RDAREA. For ALTER TABLE or CREATE INDEX, the specification does not match the specification for table definition. No non-partitioning key index storage RDAREA was specified.
06	RDAREA LIST unmatched	The number of RDAREAs for each matrix partitioning RDAREAs list does not match.
07	duplicated RDAREA exists in RDAREA LIST	The same RDAREA name is specified multiple times in a matrix partitioning RDAREAs list.
08	invalid hash name	One of the following errors occurred in a hash function specification: <ul style="list-style-type: none"> The hash function name is invalid The column length of the partition key is invalid
09	more than 15 columns for HASH KEY	The number of columns specified in the partition key of the hash partition exceeds 15.
10	invalid HASH function "HASH0"	If HASH0 was specified in a hash function, one of the following errors occurred: <ul style="list-style-type: none"> CHAR(6), CHAR(8), DATE, or TIMESTAMP is not specified for the data type for the column specified for partitioning. Multiple columns are specified in a partition key.

cc...cc: RDAREA specified location causing the error

table: Table
 column: Column
 index: Index
 cluster key: Cluster key
 primary key: Primary key
 Otherwise, nothing is output.

dd...dd: Nothing is output when the table name, column name, or index name *cc...cc* specifying the RDAREA causing the error is the cluster key or primary key.

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute.

KFPA19615-E A

Unable to *aa...aa* because INSERT ONLY table *bb...bb*. "*cc...cc*" not empty

The definition SQL *aa...aa* cannot be executed for falsification prevented table *bb...bb*. "*cc...cc*", in which data is stored.

aa...aa: Definition SQL

DROP TABLE: Delete the table

DROP SCHEMA: Delete the schema

bb...bb: Authorization identifier

cc...cc: Table name

S: Ignores this SQL statement.

P: Falsification prevented tables in which data is stored cannot be deleted. Change the table name, and then re-execute this SQL statement.

KFPA19616-E A

Unable to drop insertion history column on INSERT ONLY table

The insert history maintenance column specified during the deletion prevented duration of the falsification prevented table cannot be deleted.

S: Ignores this SQL statement.

KFPA19617-E A

Only DATE type column with "SYSTEM GENERATED" can be specified for insertion history column on INSERT ONLY table

Only DATE type columns with SYSTEM GENERATED specified can be specified in the insert history maintenance column of a falsification prevented table.

S: Ignores this SQL statement.

P: Specify a DATE type column with SYSTEM GENERATED specified in the insertion history column, and then re-execute this SQL statement.

KFPA19620-E A

Invalid delete prohibition interval for INSERT ONLY table

An error was detected in the deletion prevented duration of the falsification prevented table.

S: Ignores this SQL statement.

P: Correct the specification of the deletion prevented duration and re-execute this SQL statement.

- When date interval data is specified:
As a decimal value, specify a 99-day interval between Year 0000 Month 00 Day 01 and Year 9999 Month 11 Day 99 (YYYYMMDD).
- When a label duration is specified:
Specify each value within the following ranges:
YEAR [S]: 1-9,998
MONTH [S]: 1-119,987
DAY [S]: 1-3,652,058

KFPA19625-E A

Invalid usage on ALTER TABLE CHANGE RDAREA, code=*aa* (*bb...bb*)

The ALTER TABLE CHANGE RDAREA is incorrectly specified.

aa: Reason code

bb...bb: Additional error information

S: Ignores this SQL statement.

P: Reason codes and additional error information are shown below.

- Reason code 03:
Delete the index, execute ALTER TABLE, and then redefine the index.
- Reason code 22:
Unload the table, define the table without specifying the same value more than once[#] in a storage condition, and then reload the table.

[#]: The term *same value* refers to two or more literals that are identical, or a literal specified by HiRDB that, when corrected, produces a value that is the same.

- All other reason codes:

Revise the SQL statement, and re-execute the job.

Reason code	Additional error information	Explanation
01	Non partition divided table	A non boundary value partitioned table is specified.
02	Insert only table	A falsification-prevented table is specified.
03	Not divided index exist on table	<p>One of the following errors has occurred:</p> <ul style="list-style-type: none"> • In an attempt to modify a row partition table in the server, the non-partitioning key index for the table is not row-partitioned. • In an attempt to modify a table not row-partitioned in the server, partition storage conditions are stored in the same RDAREA, and a non-partitioning key index is defined. <p>A non-row-partitioned index is defined on the table to be modified. An attempt is being made to partition the RDAREA storing the table.</p>

Reason code	Additional error information	Explanation
04	Invalid partition value	<p>The specified boundary value or storage condition value contains the following errors:</p> <p>Boundary value:</p> <ul style="list-style-type: none"> • The length of the boundary value character string is 0. • The boundary value data type cannot be converted into the data type of a column specified in the partitioned storage conditions. • The boundary value data length exceeds the data length of the column specified in the partitioned storage conditions. • The boundary value is logically inappropriate. • The boundary value data contents are invalid. • The boundary value to be changed is not in an existing definition. • The boundary value to be changed is not in ascending order. • The boundary value to be changed is not continuous. • After the change, the boundary values are not in ascending order. • After the change, the boundary values contain duplicate specifications. • After the change, there is an error in the specification range of boundary values. <p>Storage condition value:</p> <ul style="list-style-type: none"> • The character string length in the storage condition value is 0. • The data type of the storage condition value cannot be converted to a partitioning key column data type. • The data length specified in the storage condition is greater than the data length for the partitioning key column.
05	Invalid result	<p>The result of partitioning or combining is as follows:</p> <ul style="list-style-type: none"> • One RDAREA is used. • The total number of RDAREA partitions exceeds 1,024. • The total number of characters in the RDAREA name is greater than 3,000. • The total number of literals specified in the partitioned storage condition is greater than 15,000. • After combining, the total number of RDAREAs will be 1. Therefore, you cannot specify <code>OTHERS</code>, or an RDAREA for which storage conditions have not been specified. • A row-partitioning index is not defined on the table to be modified. Therefore, you cannot perform combining that converts a row partition table to a non-partitioned table.

Reason code	Additional error information	Explanation
06	Index not found on table	The specified index, primary key, or cluster key is not defined for the relevant table.
07	Not specify all index	FOR INDEX, FOR PRIMARY KEY, or FOR CLUSTER KEY is not specified for all indexes.
08	Unmatch number of RDAREA	The number of RDAREAs specified in modified boundary value partitioning or modified storage condition partitioning is different from the number specified in the modified index storage RDAREA name list or the LOB column storage RDAREA change specification.
09	Invalid RDAREA for index or "LOB"	<p>One of the following errors occurred in the relationship between the tables and indexes or between the tables and the RDAREAs that store the BLOB columns.</p> <ul style="list-style-type: none"> • Duplicate RDAREAs was specified, but the boundary value partition specification after the change is different from the RDAREA name list that stores the indexes after the change or the RDAREA change specification that stores the LOB columns. • The position in which a new RDAREA is specified in modified boundary value partitioning or modified storage condition partitioning is different from the position specified in the modified index storage RDAREA name list or the LOB column storage RDAREA change specification. • The position in which an existing RDAREA is specified in modified boundary value partitioning or modified storage condition partitioning is different from the position specified in the modified index storage RDAREA name list or the LOB column storage RDAREA change specification. • If OTHERS is specified, the modified table storage RDAREAs, index storage RDAREAs, and LOB column storage RDAREAs do not have the correct correspondence with one another.
11	Duplicate RDAREA	In an RDAREA that stores different LOB columns, the same RDAREA has multiple specifications, or an attempt was made to add an RDAREA that is already stored.
13	Invalid usage WITHOUT PURGE	<p>There is an error in the WITHOUT PURGE specification.</p> <ul style="list-style-type: none"> • WITHOUT PURGE is specified, but the pre-change RDAREA is not specified as the post-change RDAREA.

2. Messages

Reason code	Additional error information	Explanation
14	Invalid RDAREA	When an attempt was made to modify partitioning storage conditions, an RDAREA was specified incorrectly. If a boundary value was specified, identify the error by referring to the table ■ <i>Cause of an RDAREA specification error when modifying partitioning storage conditions (boundary value specification)</i> following this table. If a storage condition was specified, identify the error by referring to the table ■ <i>Cause of an RDAREA specification error when modifying partitioning storage conditions (storage condition specification)</i> following this table.
15	FOR COLUMN clause invalid	There is an error in the specified column. <ul style="list-style-type: none"> It is not a BLOB column,
16	Duplicate INDEX name	Duplicate index names are specified.
17	Invalid index type	The type of the index specified in the FOR PRIMARY, FOR CLUSTER, or FOR INDEX clause is invalid.
18	Duplicate column name	Duplicate column names are specified.
19	Not specify all "LOB"	The FOR COLUMN clause is not specified for all LOB columns.
20	Invalid partitioning condition	When an attempt was made to specify partitioning storage conditions, one of the following errors occurred: <ul style="list-style-type: none"> A column name different from the partitioning key was specified. An RDAREA specifying storage conditions for the RDAREA to be partitioned was specified: <ul style="list-style-type: none"> Storage conditions for the RDAREA to be partitioned are not specified for all RDAREAs to be partitioned. A storage condition not contained in the storage conditions for the RDAREA to be partitioned is specified for partitioned RDAREAs. An RDAREA not specifying storage conditions for the RDAREA to be partitioned was specified, or OTHERS was specified: <ul style="list-style-type: none"> If the object of partitioning is an RDAREA for which no storage conditions are specified, or OTHERS, the storage conditions specified following partitioning already exist. Duplicate storage conditions are specified.

Reason code	Additional error information	Explanation
21	Invalid partitioning condition table	Storage conditions on any of the following tables cannot be modified: <ul style="list-style-type: none"> • Tables other than row-partitioned tables with a storage condition specified • Row-partitioned tables for which a storage condition other than = is specified in a comparison operator
22	Table with same values in partitioning condition	Partitioning storage conditions cannot be modified in a table for which the same value is specified more than once in a storage condition. The same value means that, given identical literals, and if literals for which HiRDB is specified are corrected, the same result is produced. For example, if the data type for a table partitioning key member column is INTEGER, <i>same values</i> means tables for which storage condition C1=(1,1,1) is specified or tables for which storage condition C1=(1.1,1.2,1.3) is specified.
51	Too many number of value	The number of specified boundary values exceeds the number that can be changed. <ul style="list-style-type: none"> • During partitioning: The maximum to be changed is 1, and the maximum after changing is 16. • During combining: The maximum to be changed is 16, and the maximum after changing is 1.
52	Too many specify "FOR INDEX"	FOR INDEX was specified 256 or more times.
53	Too many specify "FOR PRIMARY" or "FOR CLUSTER"	FOR PRIMARY or FOR CLUSTER was specified 2 or more times.
99	User data type or matrix table	The partition storage conditions of the following partitioning tables cannot be changed: <ul style="list-style-type: none"> • Row partitioned tables used for abstract data type columns • Matrix partitioned tables

■ Cause of an RDAREA specification error when modifying partitioning storage conditions (boundary value specification)

Error type	Cause	
	During partitioning	During combining
Error in modified boundary value partitioning specification	<ul style="list-style-type: none"> A nonexistent RDAREA is specified. Contiguous boundary values are specified on the same RDAREA. 	<ul style="list-style-type: none"> A nonexistent RDAREA is specified. The specified RDAREA is the same as the RDAREAs specified for the previous and next storage ranges.
Error in modified index storage RDAREA name list or LOB column storage RDAREA change specification	<ul style="list-style-type: none"> A nonexistent RDAREA is specified. An RDAREA with OTHERS is specified. 	<ul style="list-style-type: none"> A nonexistent RDAREA is specified. An RDAREA with OTHERS is specified.

■ Cause of an RDAREA specification error when modifying partitioning storage conditions (storage condition specification)

Error type	Cause	
	During partitioning	During combining
Error in the RDAREA information list before change	<ul style="list-style-type: none"> An RDAREA storing the table to be modified is not specified. An RDAREA with one storage condition is specified. OTHERS is specified on a table containing an RDAREA devoid of storage conditions. 	<ul style="list-style-type: none"> An RDAREA storing the table to be modified is not specified. OTHERS is specified on a table containing an RDAREA devoid of storage conditions. Duplicate RDAREA names are specified.
Error in the storage condition partitioning specification after change	<ul style="list-style-type: none"> After partitioning, there will be only one RDAREA. Duplicate RDAREA names are specified. A nonexistent RDAREA is specified. An RDAREA used in other storage conditions for the table to be modified is specified. 	<ul style="list-style-type: none"> Two or more RDAREAs are specified. A nonexistent RDAREA is specified. An RDAREA used in other storage conditions for the table to be modified is specified.

Error type	Cause	
	During partitioning	During combining
Error in the combination between the RDAREA information list before change and the storage condition partitioning specification after change	Refer to the table ■ <i>Invalid combination between an RDAREA information list before change and a storage condition partitioning specification after change</i> following this table.	OTHERS is specified after combination but an RDAREA without storage conditions or OTHERS specified is not included in the items to be combined.
Error in the index storage RDAREA name list after change or the LOB column storage RDAREA modification specification after change	<ul style="list-style-type: none"> • A nonexistent RDAREA is specified. • Duplicate RDAREA names are specified. • An RDAREA for storage of indexes other than the table to be modified is specified. • A LOB storage RDAREA other than the table to be modified is specified. 	<ul style="list-style-type: none"> • A nonexistent RDAREA is specified. • An RDAREA for storage of indexes other than the table to be modified is specified. • A LOB storage RDAREA other than the table to be modified is specified.

■ Invalid combination between an RDAREA information list before change and a storage condition partitioning specification after change

RDAREA specified in an RDAREA information list before change	RDAREA specified in a storage condition partitioning specification after change
RDAREA with storage conditions	<ul style="list-style-type: none"> • An RDAREA without storage conditions is specified. • An RDAREA with OTHERS is specified.
RDAREA without storage conditions	An RDAREA without storage conditions or with OTHERS specification is not specified.
RDAREA with OTHERS specified	

KFPA19631-E A

Definition for INSERT ONLY table *aa....aa."bb...bb"* failed, code=*cc* (*dd....dd*)

An error has occurred in a falsification-prevented table related definition.

aa....aa: Authorization identifier

bb...bb: Table identifier

cc: Reason code

dd....dd: Additional error information

2. Messages

S: Ignores this SQL statement.

P: Reason codes and additional error information are shown below. Correct the SQL statement, and re-execute the job.

Reason code	Additional error information	Explanation	Action
01	INSERT ONLY table	Consider the following causes: <ul style="list-style-type: none"> The INSERT ONLY option was specified for a falsification-prevented table. An updatable column attribute was specified for a falsification-prevented table. 	Revise the specified table name.
02	referential constraint	A table with a referential constraint defined cannot be a falsification-prevented table.	
03	check constraint	A table with a check constraint defined cannot be a falsification-prevented table.	
04	data type	UPDATE ONLY FROM NULL cannot be specified for the following data types: <ul style="list-style-type: none"> BLOB column BINARY type column 32,001 bytes or larger 	Revise the specified column name.
05	already defined	Consider the following causes: <ul style="list-style-type: none"> An updatable column attribute was specified for an updatable column. An attempt was made to change the data length for a BINARY type column, for which UPDATE ONLY FROM NULL is specified in the updatable column attribute, to 32,001 bytes or greater. 	
06	SYSTEM GENERATED	An updatable attribute cannot be specified for a column with SYSTEM GENERATED specified.	
07	NOT NULL	UPDATE ONLY FROM NULL cannot be specified for a column with a non-null attribute.	
08	can not update	Consider the following causes: <ul style="list-style-type: none"> An updatable attribute was specified for a cluster key. An updatable attribute was specified for a column composed of a distributed key. However, for columns composed of a partitioning key that is a flexible hash partition, only the UPDATE specification is allowed. 	

Reason code	Additional error information	Explanation	Action
09	only UPDATE columns	<p>Consider the following causes:</p> <ul style="list-style-type: none"> An attempt was made to make a table for which all columns were specified with the updatable attribute into a falsification-prevented table. The result of operation on a falsification-prevented table cannot specify that all columns be updatable. 	<ul style="list-style-type: none"> When CREATE TABLE is executed: Specify at least one column without the updatable attribute. When ALTER TABLE CHANGE INSERT ONLY is executed: Add a column without the updatable attribute. When ALTER TABLE DROP column name is executed: Revise the column name.

KFPA19632-E A

User *aa....aa* unable to execute CONNECT

User with authorization identifier *aa....aa* cannot connect (CONNECT) to HiRDB.

aa....aa: Authorization identifier

S: Ignores this SQL statement.

P: The following shows causes and actions:

Cause	Action
<ul style="list-style-type: none"> There is no CONNECT privilege. When using the directory server linkage facility, the user is not registered in the directory server. If this message is output during table access, the user information in the directory server from the time the user connected to HiRDB until the present time is deleted. 	<ul style="list-style-type: none"> Ask a user with the DBA privilege to grant the CONNECT privilege, and re-execute. When the directory server linkage facility is used, ask the system administrator to register the user in the directory server.

2. Messages

Cause	Action
<ul style="list-style-type: none"> The specified password is incorrect. When the directory server linkage facility is used, the specified password differs from the password registered in the directory server, or the password has expired. If this message is output during table access, the password user information in the directory server changed from the time the user connected to HiRDB until the present time, or the password expired. 	<ul style="list-style-type: none"> If this message is output during connection to HiRDB, specify a valid password and re-execute. If the password registered in the directory server has expired, reset the password in the directory server and re-execute. If this message is output during table access, release the connection to HiRDB, and then specify the authorization identifier and password currently in the directory server. Then, restart HiRDB and re-execute.
Consecutive certification failure account lock state.	Check with a user with the DBA privilege to be sure that the system is in consecutive certification failure account lock state. If it is in consecutive certification failure account lock state, have the HiRDB administrator release the consecutive certification failure account lock state, and then re-execute.
Password-invalid account lock state.	Check with a user with the DBA privilege to be sure that the system is in password-invalid account lock state. If it is in password-invalid account lock state, have the HiRDB administrator change the password to one that satisfies the character column restrictions, and then re-execute.

KFPA19633-E A

Unable to execute SQL for connection security, code=*aa* (*bb...bb*)

Due to reason *aa*, connection security facility SQL statements cannot be executed.

aa: Reason code

bb...bb: Additional error information

S: Ignores this SQL statement.

P: Based on the output reason code and additional error information, remove the cause and re-execute the SQL.

Reason code	Additional error information	Explanation
01	Lack of privilege	This cannot be executed due to lack of the DBA privilege. Or, this cannot be executed because the password of a user with the DBA privilege is not registered with HiRDB.
02	Specified value for "PASSWORD MIN LENGTH" out of range	The specification for the minimum password length is out of range.

Reason code	Additional error information	Explanation
03	Specified value for "CONNECT PERMISSION COUNT" out of range	The specification for the permitted number of consecutive certification failures is out of range.
04	Specified value for "CONNECT LOCK" out of range	The specification for the account lock period is out of range.
05	Invalid Password of DBA or auditor	The DBA or auditor password violates the character string restrictions.
06	Already defined	The specified connection security facility is already defined.
07	Undefined	The specified connection security facility is not defined.
08	Using directory server	This cannot be executed when the directory server linkage facility is used.

KFPA19634-E A

Unable to execute "GRANT *aa....aa*" to *bb...bb* due to invalid password (*cc....cc*)

The password violates one of the following restrictions, and therefore the GRANT statement cannot be executed.

- Minimum byte count
- Specification restrictions on the authorization identifier
- Specification restrictions on single character types

aa....aa:

DBA

AUDIT

CONNECT

bb...bb: Authorization identifier

cc....cc:

min length

user identifier

similar

S: Ignores this SQL statement.

P: Change to a password that satisfies the password character string restrictions, and re-execute the SQL statement.

KFPA19635-E A

Unable to execute "GRANT DBA" to *aa...aa* for password account locked

User *aa...aa* is in password-invalid account lock state, and therefore the DBA privilege cannot be granted by the GRANT DBA statement, or the password cannot be changed.

aa...aa: Authorization identifier

S: Ignores this SQL statement.

P: Release the password-invalid account lock state, and execute the GRANT DBA statement. For details on how to release the password-invalid account lock state, see the *HiRDB Version 8 System Operation Guide*.

KFPA19680-E A

Invalid event type *aa...aa bb...bb* for specified audit definition

In the event definition subject to audit, the combination of the operation type indicated by *aa...aa*, the event type indicated by *bb...bb*, and other operands is invalid.

aa...aa: Operation type

bb...bb: Event type

The following shows operation types and event types:

Operation types	Event types
ANY	*** (Not applicable)
SESSION	CONNECT
	AUTHORIZATION
	ANY
PRIVILEGE	GRANT
	REVOKE
	ANY
DEFINITION	CREATE
	DROP
	ALTER
	ANY

Operation types	Event types
ACCESS	SELECT
	INSERT
	UPDATE
	DELETE
	PURGE
	ASSIGN
	CALL
	LOCK
	ANY
UTILITY	PDLOAD
	PDRORG
	PDEXP
	PDCONSTCK
	ANY

S: Ignores this SQL statement.

P: Correct the SQL statement and re-execute. For allowable combinations of operation types, event types, and other operands, see `CREATE AUDIT` in the manual *HiRDB Version 8 SQL Reference*.

KFPA19681-E A

Unable to specify *aa....aa."*bb....bb" in PUBLIC VIEW definition

The following tables cannot be specified in a public view definition:

- Base tables, view tables, or foreign tables of other users
- Public view tables where the definer is another user
- Base tables, view tables that use a view table or foreign table as the base table, or foreign tables where the owner is another user
- View tables that use public view tables as the base table or foreign tables where the definer is another user

aa....aa: Authorization identifier

bb....bb: Table identifier of base table, view table, public view table, or foreign table

S: Ignores this SQL statement.

P: Revise the base table of the public view table.

KFPA19700-E A

HiRDB is under maintenance code=*a*

Either the `pdchgconf` command or the `pdprgrefresh` command is currently running. Therefore, a connection cannot be established to the client and a transaction cannot be started.

a: Internal code

S: Disconnects the client from HiRDB.

P: Terminate the UAP.

O:

When the client library is version 07-00 or later:

The `pdchgconf` command or `pdprgrefresh` command may have failed. Request the HiRDB administrator to check the HiRDB status. After HiRDB starts, re-execute the UAP.

When the client library is a version earlier than 07-00:

After the `pdchgconf` command or `pdprgrefresh` command has finished, re-execute the UAP.

KFPA19701-E A

Unable to execute required SQL in Online DB Reorganization,
RDAREA = *aa....aa*

The requested SQL cannot be executed while updatable online reorganization is in progress.

aa....aa: RDAREA name

S: Invalidates the applicable transaction.

O: Contact the HiRDB administrator.

Action

Re-execute after the updatable online reorganization of the applicable RDAREA is released.

To re-execute without releasing, consider the following items:

1. If you are executing in a no-log environment, consider whether the client environment variable `PDEBLOG` can be changed to `ALL`.
2. During updatable online reorganization, the UAP cannot operate on the original RDAREA. If such operation is desired, specify `YES` in the client

environment definition PDDBORGUAP. For details on operation of the original RDAREA during online reorganization hold, see the manual *HiRDB Staticizer Option Version 7*. Further, for details on updatable online reorganization commands, see the manual *HiRDB Version 8 Command Reference*.

KFPA19702-E A

Unable to execute SQL for definition, RDAREA
name=*aa....aa*, tableID=*bb....bb*, reason code=*c*

For the reason indicated in *c*, the definition SQL or utility cannot be executed.

aa....aa: Name of RDAREA where invalid status was detected

Asterisks (*****) are displayed when the reason code is 1 or 3.

bb....bb: The number of the table subject to the definition SQL or utility, or the number of the table on which an index subject to a definition SQL is defined

Asterisks (*****) are displayed for definition (CREATE TABLE).

c: Reason code

1: Definition SQL or utility execution conditions are not satisfied for the application of the inner replica facility.

2: RDAREA *aa....aa* related to table number *bb....bb* is executing updatable online reorganization.

3: The command hold status and the closed status coexist with one or more other statuses in the RDAREA related to table number *bb....bb*.

S: Ignores this SQL. Terminates the processing of the utility.

Action

For reason code 1:

Execute the `pdrdrefls` command and check the RDAREA related to the applicable table. Then, execute the `pddbls` command and confirm that the RDAREA related to the applicable table meets all of the following conditions:

- RDAREAs where the inner replica facility is applied are not specified along with RDAREAs where it is not applied.
- The definition counts of the replica RDAREA match.
- The generation numbers of the replica RDAREA definition match.

After the conditions are satisfied, re-execute the definition SQL or the utility. For details about conditions, see the manual *HiRDB Version 8 SQL Reference*.

For reason code 2:

Complete the updatable online reorganization, and then re-execute the definition SQL or the utility.

For reason code 3:

Execute the `pdrdrefls` command and the `pddbls` command. Check if the RDAREA related to the applicable table is in command hold status and closed status. Then, re-execute the definition SQL or the utility.

`f_expand_limit` operand.

KFPA19703-E A

Error occurred during execution of transaction *aa...aa*,
reason=*bb...bb*, code=*cc...cc*, server=*dd...dd*

An error occurred during transaction control processing.

aa...aa: Transaction control process

begin: Transaction start process

branch: Transaction branch process

bb...bb: Error

cc...cc: Reason code

dd...dd: Name of server where the error occurred

Asterisks (*****) are displayed when the name of the server where the error occurred cannot be specified.

S: Ignores this SQL statement, or invalidates the transaction.

O: Contact HiRDB administrator, remove the cause of the error, and re-execute the processing.

Action

Take appropriate action for the error or reason code.

Control process (aa....aa)	Error (bb....bb)	Reason code (cc....cc)	Description	Action by HiRDB administrator
begin	TRNPAUSE	-948	The server (<i>dd....dd</i>) is suppressing the scheduling of new transactions.	If a KFPS01160-E message is output to the event log (in UNIX, syslogfile) of the system manager before or after the output of this message, resolve the problem according to message KFPS01160-E. If other than the above, if a unit applicable to the standby-less system switchover facility is switching back, wait until the system switchover has completed.
	STLSFES	-944	(1) A connection is made from a UAP using the X/Open XA interface to a recovery-unnecessary front-end server (<i>dd....dd</i>). (2) Because the target HiRDBDatareplicator that uses a two-phase commit method is connected to an FES that uses a recovery-unnecessary front-end server, the target processing failed.	Set the client environment definitions PDFESHOST and PDSERVICEGRP to connect to an FES that does not use a recovery-unnecessary front-end server. Environment variables must be assigned to the following: (1) A UAP environment variable using the X/Open XA interface (2) Target side HiRDB Datareplicator environment variable.
branch	TRNPAUSE	-376	The server (<i>dd....dd</i>) is suppressing the scheduling of new transactions.	If a KFPS01160-E message is output to the event log (in UNIX, syslogfile) of the system manager before or after the output of this message, resolve the problem according to message KFPS01160-E. If other than the above, if a unit applicable to the standby-less system switchover facility is switching back, wait until the system switchover has completed.

KFPA19705-E A

Failed to allocate local buffer pool, error=*aa*

Failed to allocate the local buffer.

aa: Error cause code

S: Ignores this SQL statement for HiRDB/Single Server. Rolls back for HiRDB/Parallel Server.

P: Contact HiRDB administrator.

Action

Take the action appropriate for the error code.

Error code	Cause	Action
20	A memory shortage occurred.	Take one of the following actions: <ul style="list-style-type: none"> • Increase the swap area. • Decrease the process count. • Decrease the number of servers in the unit.
32	Digit overflow occurred in the process private memory size calculation for the local buffer.	Digit overflow occurred in the process private memory size calculation for the local buffer. Decrease the number of local buffers or the number of buffer sectors on the server where the error occurred, and then reduce the process private memory size for local buffers to $2^{31}-1$ or less ($2^{63}-1$ or less for the 64-bit mode).

KFPA19706-E A

Please reorganize Table, due to LOB DIRECTORY overflow, RDAREA name=*aa....aa*, tableID=*bb....bb*

The management information in the LOB RDAREA exceeded the upper limit.

aa....aa: RDAREA name

bb....bb: Table number

S: Ignores this SQL statement.

Action

Take appropriate action for the applicable RDAREA.

- For the user LOB RDAREA:
Reorganize the LOB column stored in *aa....aa* or the table defining the LOB attributes.
- For the data dictionary LOB RDAREA:
Reorganize the dictionary table related to the stored procedure or the stored function.
- For the registry LOB RDAREA:
Reorganize the registry table.

KFPA19800-E A

Output file *aa....aa* error occurred in EXECUTE UTL statement,
errno=bb....bb

An error occurred in EXECUTE UTL result file output processing.

aa....aa: File operation contents

open: File open

write: File write

bb....bb: Error code

S: Terminates processing.

P: Check the value of the error code, refer to *errno.h* and the manual for the OS used by the user, remove the cause of the error, and re-execute.

KFPA19801-E A

Invalid value of *aa....aa*

One of the following errors occurred in the *aa....aa* value:

- The length is 0 or a negative value.
- An invalid character was used.

aa....aa: {extended statement name|extended cursor name}

S: Ignores this SQL statement.

P: Take one of the following measures:

- Specify a value of 1 or greater in *aa....aa*.
- Specify valid characters in *aa....aa*.

KFPA19802-E A

Incompatible character code set, *HiRDB=aa....aa*,
PDCLTCNVMODE=bb....bb

The character code for the HiRDB server does not match the value specified in the client environment variable *PDCLTCNVMODE*.

aa....aa: HiRDB code type

SJIS: Shift JIS kanji code

CHINESE: EUC Chinese kanji code

UJIS: EUC Japanese kanji code

LANG-C: Single-byte code

UTF-8: UTF8 code

2. Messages

UNKNOWN: Unsupported character code

bb...bb: Specification value in the client environment variable PDCLTCNVMODE

UCS2_UTF8

UCS2_UJIS

S: Declines connection to HiRDB.

P: Make sure the character code for the HiRDB server matches the value specified in the client environment variable PDCLTCNVMODE.

KFPA20000-E A

System function error occurred, name=*aa...aa*, code=*bbbb*

An error occurred in an internal system function.

aa...aa: Name of function resulting in the error

bbbb: System call errno

S: Terminates abnormally.

O: Based on the system call errno, check the cause of the error; after resolving the problem, re-execute the UAP or the command.

KFPA20001-E L

Communication buffer allocation error occurred, code=*aaaa*

Allocation of communication buffer failed.

aaaa: Error code

S: Terminates abnormally.

O: Reduce the number of resident processes (pd_process_count) for the server where this message was output.

KFPA20002-E L

Communication error, abort=*aa...aa*, code=*bbbbbb*

An error occurred during communication processing.

aa...aa: Abort code

bbbbbb: Error detail code

S: Resumes processing.

O: See 4. *Error Detail Codes* to eliminate the cause of the error, then re-execute the UAP or command. If the operator cannot handle the error, contact HiRDB administrator.

Action

Contact a customer engineer.

KFPA20003-E L

Insufficient *aa...aa* memory, server=*bb...bb*, size=*cc...cc*

There is not enough memory for HiRDB system processing.

aa...aa: Type of area in which memory shortage occurred:

SHARED: Shared memory

PROCESS: Process private area

bb...bb: Name of the server resulting in the error

cc...cc: Specified size (in bytes)

S:

At server startup:

 Cancels server startup processing.

At transaction input:

 Terminates abnormally the process that attempted to process the corresponding transaction.

Action

Increase the size of the shared memory for the server that has insufficient shared memory, and restart the affected server. The size of shared memory can be specified in the following operands:

- `pd_sds_shmpool_size` (single server definition)
- `pd_dic_shmpool_size` (dictionary server definition)
- `pd_bes_shmpool_size` (back-end server definition)

If the shortage occurred in the process private area, provide more memory space by taking the following actions:

- Reduce the number of concurrent processes.
- Increase the swap area.
- Increase the real memory.
- If the current value is large, reduce the `pd_work_buff_size` operand value in the server definition.
- Reduce the number of server resident processes (`pd_process_count`).

KFPA20004-I L

BES *aa...aa* used as a floatable server for FES *bb...bb(cc...cc/dd...dd)*

Back-end servers *aa...aa* are being used as floating servers for SQL processing

accepted by front-end server *bb...bb*.

Up to 12 back-end servers can be listed in *aa...aa*; this message is output in segments if there are more than 12 back-end servers.

aa...aa: List of names of the back-end servers used as floating servers

bb...bb: Name of the front-end server

cc...cc: Segment number of this message

dd...dd: Total number of message segments

S: Resumes processing.

O:

If `pd_floatable_bes` and `pd_non_floatable_bes` are both specified in the front-end server definition, `pd_floatable_bes` is effective. From the list of servers used as floating servers displayed in this message, check that the specification of the front-end server definition is correct. If it is not correct, stop the front-end server, correct the front-end server definition, and restart the server.

When the message is divided into multiple segments, the segments may not be displayed in the order of the requests.

KFPA20005-E E+L

Invalid value *bb...bb* specified for operand *aa...aa*

The value (identifier or unsigned integer) of operand *aa...aa* specified in the system definition is invalid.

aa...aa: Operand name

bb...bb: Operand specification value (first 30 bytes only if the value is longer than 30 bytes)

S: Halts HiRDB startup processing.

O: Contact HiRDB administrator.

Action

Correct the specification of operand *aa...aa* in the system definition, and restart HiRDB.

KFPA20006-E E+L

aa...aa in FES definition *bb...bb*, file=*cc...cc*, pos=*dd...dd*

Error *aa...aa* occurred in the *bb...bb* operand of the front-end server definition.

aa...aa: Error cause

Invalid option: The option is invalid.

Invalid value: The option value is invalid.

Duplicate options: The same option operand already exists.

bb...bb: Name of the operand where the error occurred

cc...cc: Definition file name (the first 30 bytes are displayed if the length of the file name exceeds 30 bytes)

dd...dd: Position of the operand where the error occurred (information that indicates the cardinal number of the operand in the definition where the error occurred)

S: Ignores the operand of the definition where the error occurred.

O: Contact HiRDB administrator.

Action

Respecify the *dd...dd*th *bb...bb* operand, and then restart HiRDB.

KFPA20007-E L

Java VM library not found at *aa...aa*, server=*bb...bb*, errno=*ccc*

No Java Virtual Machine library was found.

aa...aa: Library path name of the Java Virtual Machine (if the path name exceeds 160 characters, # is displayed as the 160th character)

bb...bb: Name of the server that executes the Java Virtual Machine

ccc: Error code from the OS

S: Terminates processing.

Action

Correct the error indicated by error code *ccc* by referring to `errno.h` and the OS documentation, and restart HiRDB.

If file *aa...aa* does not exist, grant read privilege and execution privilege to HiRDB administrator. Also check the settings for the `pd_java_runtimepath` and `pd_java_libpath` operands in the system definition.

KFPA20008-W L

External Data Access optimization definition file not found,
foreign server=*aa...aa*

The hub optimization information definition file corresponding to foreign server *aa...aa* could not be found. The default value has been assumed for all operands specified in the hub optimization information definition file of the applicable foreign server.

aa...aa: Foreign server name

S: Terminates processing.

Action

When the hub optimization information definition file is specified:

Check the file name for errors.

When the hub optimization information definition file is not specified:

Because specifying a hub optimization information definition file when accessing the foreign server may improve performance, consider creating one of these files. HiRDB External Data Access Adapter of the applicable foreign server has a hub optimization information definition file containing the recommended values. Hitachi recommends using this hub optimization information definition file in its present form.

KFPA20009-W L

SQL inf(aa) bb...bb cc...cc dd...dd ee...ee ff...ff

When the reason code is 00, the SQL information from when a server process was forcibly terminated by a UAP forced termination or other cause is displayed.

When the reason code is 01, the SQL information containing a warning from the SQL runtime warning output facility is displayed.

aa: Reason code

00: The server process abnormally terminated due to forced termination by a UAP or other cause, aborting the process.

01: The SQL runtime was longer than the time set in the SQL runtime warning output facility.

bb...bb: Server information (is output in one of the following formats)

single-server-name, connection-serial-number

front-end-user-name, connection-serial-number

cc...cc: Client information (is output in the following format):

UAP-name UAP-process-ID (UAP-IP-address)

dd...dd: Executed SQL information (is output in the following format):

operation-code SQL-counter SQLCODE

- *operation-code*

For details about the operation code, see *HiRDB Version 8 UAP Development Guide*. When the reason code is 00, there are cases for which the operation code cannot be set. An asterisk (*) is displayed if the operation code cannot be set.

- *SQL-counter*

Expresses a value that is counted each time an SQL statement is received. An asterisk (*) is displayed if the SQL counter cannot be set.

- *SQLCODE*

Displays the *SQLCODE* of the result the SQL statement executed. When the reason code is 00, there are cases for which the *SQLCODE* cannot be set. In these cases, asterisks (*) are displayed.

ee...ee: SQL runtime (output in one of the following formats):

- Percentage of the maximum wait time is specified as an unsigned integer

SQL-run-starting-time-SQL-run-ending-time

It is displayed in the format *hh:mm:ss* (*hh*: hours, *mm*: minutes, *ss*: seconds).

When the reason code is 00, there are cases for which the SQL run start time cannot be set. In these cases, asterisks (*) are displayed. Also, the time the SQL aborted is displayed in the SQL run end time.

- Percentage of the maximum wait time is specified as an unsigned decimal integer, and the output timing is specified

SQL-run-starting-time-SQL-run-ending-time

It is displayed in the format *hh:mm:ss.xxxx* (*hh*: hours, *mm*: minutes, *ss*: seconds, *xxxx*: microseconds).

If the reason code is 00, it may not be possible to set the SQL runtime start time. If it cannot be set, * is displayed. Furthermore, the SQL runtime end time displays the time the SQL statement was interrupted.

ff...ff: Execution termination or the aborted SQL statement

Asterisks (*) are displayed when the SQL statement cannot be set.

Depending on the length of the SQL statement, display of the SQL statement may be truncated. When the display is truncated, a pound sign (#) is added to the end of the message.

S: Executes the process.

Action

Take one of the following actions:

- When the reason code is 00

When unplanned forced termination of a server process occurs, refer to other messages to eliminate the cause.

- When the reason code is 01

See the SQL runtime warning information file and take one of the following

steps:

- Re-evaluate whether exclusive contention is occurring.
- Re-evaluate whether a network failure occurred.
- Fine tune the SQL code.
- Increase the specification value of the `PDCWAITTIME` operand.
- Check the increase of the data count to determine if the SQL runtime has increased.

For details about the SQL runtime warning output facility and about the SQL runtime warning information file, see *HiRDB Version 8 System Operation Guide*.

KFPA20010-W L

Invalid `pd_delete_reserved_word_file` operand

The following error occurred in the specification of the system common definition `pd_delete_reserved_word_file` operand:

- The specified SQL reserved word deletion file does not exist.
- Duplicates of the specified SQL reserved word deletion file exist.

S: Continues processing.

Action

Check that the specification of the system common definition `pd_delete_reserved_word_file` operand is correct. If not, stop HiRDB, correct the system common definition `pd_delete_reserved_word_file` operand specification, and re-execute.

KFPA20011-W L

Invalid "SQL_reserved_word_delete_file", file=*aa....aa*

A reserved word that cannot be deleted is specified in the SQL reserved word deletion file.

aa....aa: Name of the SQL reserved word deletion file that contains the error

S: Continues processing.

Action

Check that the contents of the SQL reserved word deletion file are correct. If not, stop HiRDB, correct the SQL reserved word deletion file, and re-execute.

2.2 KFPB messages

KFPB00101-E E+L

DF/UX server (process ID=*aa....aa*) killed, code=*bbbbbbb*, file=*cc....cc*, line=*dd....dd*

The DF/UX server process was terminated abnormally because an error occurred in HiRDB library in the DF/UX server process.

aa....aa: Process ID of the aborted process

bbbbbbb: Abort code

cc....cc: Name of the source file in which the error was detected

dd....dd: Position at which the error was detected

S: Terminates abnormally.

P: Contact HiRDB administrator.

O: Contact HiRDB administrator.

Action

Contact a customer engineer.

KFPB10383-E E+L

Failure occurred in remote access, reason code=*aa*, process ID=*bb....bb*, connection ID=*cc....cc*, RMID=*dd....dd*

An error occurred during remote database access processing.

aa: Reason code

bb....bb: Process ID of the single server or front-end server

cc....cc: Connection ID between HiRDB and DF/UX

If the connection ID cannot be displayed, the asterisk (*) is displayed instead.

dd....dd: RMID to be passed from HiRDB to DF/UX

S: Ignores this SQL transaction.

Action

Take action appropriate to the reason code:

2. Messages

Reason code	Explanation	Action
1	DF/UX has not been started or terminated abnormally.	If DF/UX has not been started, start DF/UX and re-execute the UAP. If DF/UX terminated abnormally, refer to the message that was output by DF/UX to check the cause of the abnormal termination. See the <i>Distributed Database System DF/UX</i> for details. Contact a customer engineer if necessary.
2	Maximum number of DF/UX users was exceeded.	Reduce the number of concurrent users or change the maximum number of DF/UX users. See the <i>Distributed Database System DF/UX</i> for details.
3	Timeout was detected by DF/UX.	Re-execute the UAP or change the DF/UX abort time. See the <i>Distributed Database System DF/UX</i> for details.
4	Communication error was detected by DF/UX.	Refer to the message that was output by DF/UX to determine the cause of the communication error, eliminate the cause, and re-execute the UAP. See the <i>Distributed Database System DF/UX</i> for details. Contact a customer engineer if necessary.
5	DF/UX version does not match.	Check the DF/UX version. If it is not the correct version, replace it with the correct version.

KFPB10388-E E+L

DF/UX error detected in remote access, process ID=*aa...aa*,
connection ID=*bb...bb*, RMID=*cc...cc*, *dd...dd*

An error occurred in DF/UX during remote database access processing.

aa...aa: Process ID of the single server or front-end server

bb...bb: Connection ID between HiRDB and the DF/UX front-end server.

If the connection ID cannot be displayed, the asterisk (*) is displayed instead.

cc...cc: RMID to be passed from HiRDB to DF/UX

If the RMID cannot be displayed, the asterisk (*) is displayed instead.

dd...dd: Maintenance information

S: Ignores this SQL statement.

Action

If a DF/UX message is output, refer to that message to determine the cause of the error. If the error cause cannot be determined, contact a customer engineer.

KFPB20001-E L

Library version incompatible, library version=*aa....aa*, HiRDB version=*bb....bb*

The library version of HiRDB connected to the DF/UX (DF for Windows NT in the case of Windows NT) server facility execution file does not match HiRDB version.

aa....aa: Library version number

bb....bb: HiRDB version number

S: Releases association with the distributed client.

O: Contact HiRDB administrator.

Action

Re-create the DF/UX server facility executable file. For a description of how to create this file, see the manual *HiRDB Version 8 System Operation Guide*.

KFPB20002-E L

Communication error, user=*aa....aa*, code=*bb*, inf=*cc....cc*

HiRDB program linking the DF/UX server facility execution file failed to communicate with HiRDB server during remote database access.

aa....aa: User ID specified by the distributed client

When the distributed client is HiRDB, the user ID matches the authorization identifier specified by the UAP.

bb: Reason code

cc....cc: Maintenance information

S: Releases association with the distributed client.

O: Take action appropriate to the reason code:

Reason code	Explanation	Action
01	Communication error occurred.	Refer to HiRDB client library message output to the communication error log file.
02	Buffer area for communication with HiRDB server cannot be allocated.	If this error occurs frequently, contact a customer engineer.
03	Contradiction was detected in the contents of send data.	Contact a customer engineer.

Reason code	Explanation	Action
04	Distributed database facility cannot be used.	To use the facility, specify the <code>pd_node_name</code> operand in the front-end server definition or single server definition; to not use the facility, terminate DF/UX.

KFPB20003-E L

Insufficient memory, user=*aa...aa*, size=*bb...bb*, inf=*cc...cc*

A memory shortage occurred in HiRDB program linking the DF/UX server facility execution file during OSI-RDA remote access.

aa...aa: User ID specified by the distributed client

When the distributed client is HiRDB, the user ID matches the authorization identifier specified by the UAP.

bb...bb: Size of memory to be allocated

cc...cc: Maintenance information

S: Releases association with the distributed client.

O: If the user ID is displayed correctly, instruct the programmer at the client system to do one of the following:

1. Reduce the number of arguments and variables to be manipulated.
2. Reduce the length of the data to be manipulated.
3. Reduce the number of cursor declarations and PREPARE statements. If this message is output frequently, contact a customer engineer.

KFPB20005-E L

Error occurred in library, user=*aa...aa*, inf=*bb...bb*

An error occurred in HiRDB program linking the DF/UX server facility execution file.

The following may be the reason for this error:

An argument specified in the `dfsvplink` command that creates the DF/UX server facility execution file is invalid.

aa...aa: User ID specified by the distributed client

When the distributed client is HiRDB, the user ID matches the authorization identifier specified by the UAP.

bb...bb: Maintenance information

S: Resumes processing.

O: Check the specification of the `dfsvplink` argument.

If the specified argument is incorrect:

Specify the correct value and re-create the DF/UX server facility execution file. For the re-creation method, see *HiRDB Version 8 System Operation Guide*.

If the specified argument is correct or in the case of Windows:

Contact a customer engineer.

KFPB20006-E L

DF/UX error detected, user=*aa....aa*, inf=*bb...bb*

An error was detected in the DF/UX server facility.

aa....aa: User ID specified by the distributed client

When the distributed client is HiRDB, the user ID matches the authorization identifier specified by the UAP.

bb...bb: Maintenance information

S: Releases association with the distributed client.

O: Contact a customer engineer.

Action

Check the DF/UX version. If it is not the correct version, replace it with the correct version; if it is the correct version, contact a customer engineer.

Contact a customer engineer in the case of Windows.

KFPB21001-E L

Insufficient data area in DF/UX server process, user=*aa....aa*, size=*bb...bb*

Retrieval results cannot be transferred because the output buffer length for transferring data to the DF/UX server process in remote access is insufficient.

This output buffer length was specified by HiRDB program linking the DF/UX server facility execution file.

aa....aa: User ID specified by the distributed client.

When the distributed client is HiRDB, the user ID matches the authorization identifier specified by the UAP.

bb...bb: Output buffer length (in bytes)

S: Releases association with the distributed client.

O: Contact a customer engineer.

2.3 KFPC messages

KFPC00101-I S+L

Setup for *aa...aa* complete

HiRDB environment setup has been completed.

aa...aa: Name of the facility that executed environment setup:

DatHardCompress: Hardware compression facility for DAT access

RshPortName: Remote command service port name

ServiceComplete: HiRDB service activation completion timing

ShmFile: Changed shared memory assignment destinations

ShutdownMode: OS shutdown time HiRDB operation specification facility

CharacterCode: Character code classification of HiRDB

RshOnline: Remote command usage specification facility

S: Terminates processing.

KFPC00102-E S+L

Invalid option specified with this command

An invalid option is specified in the command, or an option argument is not specified correctly.

S: Terminates processing.

Action

Specify the option or argument correctly and re-execute the command.

KFPC00103-I S+L

Usage: `pdntenv [{-hc{on|off} | -pn service_port_name
|-a |-sc {auto |manual} |-c {sjis|lang-c|utf-8} |-ro {on|off}
|-shmfile {regular|page} |-k {none|force}}]`

The specification format for the `pdntenv` command option is invalid.

S: Terminates processing.

Action

Specify the option correctly and re-execute the command.

KFPC00104-E S+L

`Pdntenv` error occurred, reason=*aa...aa*, value=*bb...bb*

An error occurred in the `pdntenv` command.

aa....aa: Reason code:

REGKEY_GET_FAILED: Registry information acquisition failed.

REGKEY_SET_FAILED: Registry information setup failed.

OPTION_ERROR: Invalid option is specified.

SERVICE_ONLINE: HiRDB service is running.

SERVICE_GET_FAILED: Service status acquisition failed.

SERVICE_CHG_FAILED: Change of service state failed

bb....bb: Detailed information

S: Terminates processing.

Action

When reason code is REGKEY_GET_FAILED or REGKEY_SET_FAILED

Check that HiRDB is registered in the registry, or check for a registry operation problem, correct the problem, and then re-execute the command.

When reason code is OPTION_ERROR

Check that the option can be specified in a HiRDB/Parallel Server.

(Reason code: SERVICE_ONLINE)

Stop HiRDB/Single Server or HiRDB/Parallel Server, and re-execute the UAP.

(Reason code: SERVICE_GET_FAILED or SERVICE_CHG_FAILED)

If the HiRDB/Single Server or HiRDB/Parallel Server is engaged in start processing or termination processing, re-execute the UAP after the processing is complete.

(Reason code: Other than above)

Contact a customer engineer.

KFPC00201-E S

Invalid environment, variable=*aa....aa*

An environment variable value is invalid.

aa....aa: Name of invalid environment item:

PDDIR: PDDIR environment variable has not been set up.

PDUXPLDIR: PDUXPLDIR environment variable has not been set up, or the value of the PDDIR environment variable does not match the value of the PDUXPLDIR environment variable.

S: Terminates processing.

Action

Specify the correct value in the environment variable and re-execute. PDUXPLDIR must be %PDDIR%\UXPLDIR; correct it if necessary.

KFPC00301-E L

Error occurred in HiRDB service, reason code=*aa...aa-bb...bb*

An error occurred during HiRDB service processing.

aa...aa: Error information:

ACCESS: File or registry information created during installation cannot be accessed.

DUPLICATE: Service port number is already being used.

NOT_FOUND: Communication port service name or service port number is not set in the SERVICES file.

SHARED: An error occurred during shared memory allocation.

number: Some other error occurred.

bb...bb: Internal information

S: Terminates abnormally.

O: Contact HiRDB administrator.

Action

When the error information is ACCESS

Ensure that the user who starts the service has the Administrator's privilege. In this case, the service name of the communication port is not displayed.

When the error information is DUPLICATE

Another program may be using the service port, so check the service port number setting.

When the error information is NOT FOUND

Specify the same service name within HiRDB system, a communication port service name that is unique within the single server, and a service port number in the SERVICES file.

When the error information is SHARED, or a number

Contact a customer engineer.

2.4 KFPD messages

KFPD00001-E S

System initialization error occurred *aa....aa*

An error occurred during system initialization.

aa....aa: The following character string is displayed:

`illegal MASTERDIR: Contents of the master directory are invalid.`

S: Terminates abnormally.

O: Contact HiRDB administrator.

Action

Contact a customer engineer.

KFPD00003-E S

File I/O error on *aa....aa* func=*bb....bb* errno=*cc....cc*

An error occurred during file I/O processing.

aa....aa: Server name

bb....bb: Name of function resulting in the error

cc....cc: Value of errno

S: Terminates abnormally.

O: Check the cause of the error on the basis of the displayed function name and errno value and take appropriate action.

KFPD00004-E S

System call error occurred on *aa....aa* func=*bb....bb* errno=*cc....cc*

A system call error occurred.

aa....aa: Name of processing resulting in the error

bb....bb: Name of function resulting in the error

cc....cc: Value of errno

S: Resumes processing when `code convert` is displayed as the name of the processing resulting in the error; otherwise, terminates abnormally.

O: Check the cause of the error on the basis of the displayed function name and errno value and take appropriate action.

Action

Name of process where the error occurred is `pdi_olk_thdlock` and the value

of `errno` is -20023

An attempt was made to open a file when the number of files that the system can open simultaneously has been exceeded. Increase the maximum number of files that the system can open simultaneously. In UNIX, see *Estimating operating system parameters* in the manual *HiRDB Version 8 System Operation Guide*. In Windows, increase the memory.

Name of process where the error occurred is `pdi_olk_thdlock` and the value of `errno` is -20024

An attempt was made to open a file when the number of files that a process can open simultaneously has been exceeded. Increase the maximum number of files that a process can open simultaneously. In UNIX, see *Estimating operating system parameters* in the manual *HiRDB Version 8 System Operation Guide*. In Windows, increase the memory.

KFPD00005-E S

Server initialization error occurred on `aa...aa` `func=bb...bb` return code=`cc...cc`

An error occurred during server startup.

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

`bb...bb`: Name of processing resulting in the error

`cc...cc`: Error code

S: Terminates abnormally.

Action

Name of process resulting in the error is `pdi_omm_mget` and the error code is -142:

Reduce the values specified as the buffer length for table definition information (`pd_table_def_cache_size`), buffer length for user privilege information (`pd_auth_cache_size`), and buffer length for view analysis information (`pd_view_def_cache_size`).

Name of process where the error occurred is `pdi_omm_mget` and the error code is -143

Revise the value specified for the shared memory size (`pd_sds_shmpool_size`, `pd_dic_shmpool_size`, or `pd_bes_shmpool_size` operand) of the server definition of the server where the error occurred. Revise the specification, and restart the server.

Name of process resulting in the error is `pdi_adm_pddicinf` or `pdi_adm_pdbesinf` and the error code is -1807:

Because the process private memory size is insufficient, wait until another process terminates and re-execute. Or, increase the swap area.

Other:

Contact a customer engineer.

KFPD00008-E S

Internal inconsistency occurred on *aa....aa (bb....bb, cc....cc, dd....dd)*

Internal conflict occurred.

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

bb....bb: Maintenance information 1

cc....cc: Maintenance information 2

dd....dd: Maintenance information 3

S: Terminates abnormally.

Action

Contact a customer engineer. Ignore this message in the following case:

- This message was output during normal termination or planned termination, *bb....bb* in the message is `dictsfenv.c`, and *cc....cc* is `-949`.

KFPD00011-E L

Process initialization error occurred on *aa....aa*, `func=bb....bb`
`return code=cc....cc`

An error occurred during processing startup.

aa....aa: Name of server at which the error occurred

bb....bb: Name of processing resulting in the error

cc....cc: Error code

S: Terminates abnormally.

Action

If *bb....bb* is `p_f_dic_hds_start`, take action appropriate to the KFPD00026-E message that is output before the current message. In all other cases, contact a customer engineer.

KFPD00012-E L

Transaction initialization error occurred on *aa....aa* `func=bb....bb`
`return code=cc....cc`

An error occurred during transaction startup processing.

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

bb...bb: Name of processing resulting in the error

cc....cc: Error code

S: Terminates abnormally.

O: Contact HiRDB administrator.

Action

Name of process where the error occurred is `pdi_omm_mget` and the error code is -143

Revise the specification of the shared memory size (`pd_sds_shmpool_size`, `pd_dic_shmpool_size`, or `pd_bes_shmpool_size` operand) of the server that issued the error. Revise the specification, and restart the server.

Name of process where the error occurred is `pdi_adm_pddicinf` or `pdi_adm_pdbesinf`, and the error code is -1807

The process native memory is insufficient. Wait for the other processes to terminate and then re-execute, or increase the swap area.

Other than the above

Contact a customer engineer.

KFPD00013-E L

Transaction termination error occurred on *aa...aa* `func=bb...bb` `return code=cc....cc`

An error occurred during transaction termination processing.

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

bb...bb: Name of processing resulting in the error

cc....cc: Error code

S: Terminates abnormally.

O: Contact HiRDB administrator.

Action

Name of process where the error occurred is `p_f_dic_hds_release_userinfo`

See the KFPD00026-E message that was output prior to this message for the action to take.

Name of process where the error occurred is `pdi_com_combuf_disconnect` or `pdi_com_combuf_process_end`, and the error code is -300 through -399

See 4.1 Detail codes for RPC-related errors.

Other than the above

Contact a customer engineer.

KFPD00014-E L

Process termination error occurred on *aa....aa*, func=*bb....bb* return code=*cc....cc*

An error occurred during processing termination.

aa....aa: Name of server at which the error occurred

bb....bb: Name of processing resulting in the error

cc....cc: Error code

S: Terminates abnormally.

Action

If *bb....bb* is `p_f_dic_hds_end`, take action appropriate to the KFPD00026-E message that is output before the current message. In all other cases, contact a customer engineer.

KFPD00015-E S

Server termination error occurred on *aa....aa* func=*bb....bb* return code=*cc....cc*

An error occurred during server termination processing.

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

bb....bb: Maintenance information 1

cc....cc: Maintenance information 2

S: Resumes processing.

O: Contact HiRDB administrator.

Action

Contact a customer engineer.

KFPD00016-E S

Transaction termination error occurred on *aa....aa* func=*bb....bb* return code=*cc....cc*

An error occurred during transaction termination processing.

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

bb....bb: Maintenance information 1

cc....cc: Maintenance information 2

S: Terminates abnormally.

O: Contact HiRDB administrator.

Action

Contact a customer engineer.

KFPD00017-E S

Message output error occurred func=*aa...aa* return code=*bb...bb*
message no=*cc...cc*

An error occurred during message output.

aa...aa: Maintenance information 1

bb...bb: Maintenance information 2

cc...cc: Message number

S: Resumes processing.

O: Contact HiRDB administrator.

Action

Maintenance-information-2 is -1902

The process native memory of the process where the error occurred became insufficient. Revise the swap area size.

Maintenance-information-2 is -1909

%PDDIR%\lib\msgtxt was not found. In UNIX, use the pdsetup command to set up HiRDB after HiRDB has terminated. In Windows, re-install HiRDB.

Maintenance-information-2 is -1910

A %PDDIR%\lib\msgtxt I/O error occurred. In UNIX, use the pdsetup command to set up HiRDB after HiRDB has terminated. In Windows, re-install HiRDB.

Maintenance-information-2 is -1911

%PDDIR%\lib\msgtxt cannot be accessed. Revise the access privilege to %PDDIR%\lib\msgtxt.

Other than the above

Contact the customer engineer.

KFPD00020-E L

bbb initialization error occurred errorinf=*aa...aa*

A *bbb* initialization error occurred due to the reason indicated in *aa...aa*.

aa....aa: Error message indicating the cause of the initialization error

bbb: Type of server on which the initialization error occurred

FES: Front-end server

SDS: Single server

S: The system takes the following actions:

- Front-end server error:

The front-end server is placed in the SUSPEND status. If the error is due to `Insufficient pd_max_rdarea_no`, the system terminates abnormally.

- Single server error:

The system terminates abnormally.

Action

Take the following action:

- Front-end server error:

Resolve the cause of the error and then reset the SUSPEND status of the front-end server.

For a description of how to reset the SUSPEND status, see *HiRDB Version 8 System Operation Guide*.

If the error is due to `Insufficient pd_max_rdarea_no`, increase the value specified in the `pd_max_rdarea_no` operand in the system common definition, and then restart the unit on which the front-end server is located.

- Single server error:

Resolve the cause of the error, and then restart HiRDB system.

KFPD00021-E L

`Insufficient aa....aa memory, server=bb...bb, size=cc....cc`

Shared memory or process private memory is insufficient.

aa....aa: Type of area resulting in the memory shortage error:

SHARED: Shared memory

PROCESS: Process private memory

bb....bb: Name of the server resulting in the error

cc....cc: Insufficient memory size (in bytes)

S: If the server has started, stop server startup. During transaction input, abnormally terminate the process that attempted to process the applicable transaction.

Action

Take one of the following actions:

- When the type of the area where a memory shortage occurred is SHARED:
Increase the specification value of the shared memory size in the server definition (the `pd_sds_shmpool_size`, `pd_dic_shmpool_size`, or `pd_bes_shmpool_size` operand) for the server where the memory shortage occurred. Then, restart the server on which the error occurred.
- When the type of the area where a memory shortage occurred is PROCESS
Either wait for another process to end and re-execute, or increase the size of the swap area.

KFPD00022-E E

Not specified definition *aa....aa*

aa....aa is not defined.

aa....aa: Name of definition operand:

{ `pd_max_list_users` | `pd_max_list_count` }

S: Terminates processing.

P: Specify a nonzero value for *aa....aa*.

KFPD00024-W L

Unable to use directory server on current kind of HiRDB

The Directory Server Linkage facility cannot be used with this HiRDB.

S: Ignores the specification of the `pd_directory_server` operand and runs without using the Directory Server Linkage facility.

Action

To use the Directory Server Linkage facility, the following conditions must be met:

UNIX version:

The Sun Java System Directory Server Linkage facility is limited to HP-UX, Solaris 8, and AIX 5L. Also, HiRDB must be in the 32-bit mode and must be the POSIX library version.

Windows version:

The Sun Java System Directory Server linkage facility is limited to the Windows 2000 version.

To use the Directory Server Linkage facility, set up HiRDB environment to meet these conditions. When not using the Directory Server Linkage facility, delete the

pd_directory_server operand.

KFPD00025-E L

LDAP API error occurred, errno=*aa....aa*, LDAP message=*bb....bb*, LDAP extension message=*cc....cc*

An LDAP API error occurred in HiRDB LDAP Option API used by the Directory Server Linkage facility.

aa....aa: LDAP error code

bb....bb: LDAP error message

cc....cc: LDAP extension error message

If there is no extension error message, ********* is displayed.

S: Ignores this SQL statement.

P: Ask the system administrator to take appropriate action, then re-execute.

Action

Correct the error by referring to the LDAP error code and the error message.

KFPD00026-E L

Directory server error occurred on *aa....aa*, func=*bb....bb* errno=*cc....cc*

An error was returned from HiRDB LDAP Option API used by the Directory Server Linkage facility during processing of *aa....aa*.

aa....aa: Name of processing resulting in the error

bb....bb: API name when the error occurred:

HdrAclxxxxx

cc....cc: Detailed error code:

10: The user is not registered.

11: Duplicate user names are registered in the Sun Java System Directory Server.

20: The role name is not registered.

21: Duplicate role names are registered in the Sun Java System Directory Server.

30: The specified user does not belong to the specified role.

40: HiRDB LDAP Option environment definition file cannot be found.

41: The user does not have access privileges to HiRDB LDAP Option environment definition file.

42: Opening or closing HiRDB LDAP Option environment definition file failed.
(For details, see message KFPD00027-E.)

2. Messages

43: An error occurred when reading HiRDB LDAPoption environment definition file. (For details, see message KFPD00027-E.)

44: Operand required by HiRDB LDAP Option environment definition was not specified.

49: Invalid password

50: No runtime library was found in the specified path.

51: An error occurred when loading the runtime library. (For details, see message KFPD00027-E.)

60: Insufficient memory. (For details, see message KFPD00027-E.)

90: Initialization of the LDAP session failed.

91: The specified time of the NETWORKTIMELIMIT operand in HiRDB LDAP Option environment definition elapsed.

92: Unexpected error. (For details, see message KFPD00027-E.)

99: Other error. (For details, see message KFPD00027-E.)

S: Terminates the process.

Action

If the API name is `lpd_XXXXXX`, refer to the Sun Java System Directory Server documentation and take corrective action according to the detailed error code output.

If the detailed error code is 42, 43, 51, 60 or 99, follow the action in message KFPD00027-E.

If the detailed error code is 92, contact a customer engineer.

KFPD00027-E L

Error occurred in HiRDB LDAP Option, `errno=aa....aa`, `func=bb....bb`, `message=cc....cc`

An error occurred in the API used by the Directory Server Linkage facility.

`aa....aa`: Detailed error code

`bb....bb`: API name

`cc....cc`: Detailed information

When there is no detailed information, `*****` is displayed.

S: Ignores this SQL statement.

Action

If the API name is `lpd_XXXXXX`, refer to the Sun Java System Directory Server

documentation and take the correct action according to the detailed error code output.

Representative detailed error codes:

32: No such object: The specified DN was not found on the LDAP server.

48: Inappropriate authentication: The user entry has no password attributes.

49: Invalid credentials: The password is invalid.

53: DSA is unwilling to perform: Invalid user

87: Bad search filter: Invalid search filter

91: Can't connect to the LDAP server: Cannot connect to the LDAP server

For any other detailed error codes, refer to the Sun Java System Directory Server documents. If the API name is not `lpd_XXXXXX`, refer to the operating system error codes and take the correct action for the detailed error code output.

KFPD00028-E L

Version incompatible with HiRDB, `func=aa....aa`

HiRDB and an added `PPaa....aa` versions do not match.

`aa....aa`: Added PP name

S: Abnormally terminates HiRDB.

Action

Install an added PP version that is compatible with HiRDB version.

KFPD00029-W L

No RDAREA for db management

An RDAREA that uses a data dictionary for which `datadictionary` of `dbmanagement` has been specified is not defined. For this reason, the facility for predicting reorganization time cannot be used.

S: Continues processing.

Action

If the facility for predicting reorganization time is used, create an RDAREA that uses a data dictionary by using `pdmod` and specifying `datadictionary` of `dbmanagement`. If the facility for predicting reorganization time is not used, change the specification of the system definition `pd_rorg_predict` operand.

KFPD00030-W L

Unable to make an entry `SQL_DB_MANAGEMENT`, `RDID=aa....aa`, `OBJID=bb....bb`, `code=cc....cc`

Because registering of the database management table failed, the facility for predicting reorganization time is invalid.

aa....aa: RDAREA ID

bb....bb: Table or index ID

cc....cc: SQL code that caused the error

S: Terminates processing.

O: Refer to the SQL code *cc....cc* that caused the error, and remove the cause of the error.

KFPD00031-E L

Insufficient Audit definition buffer memory, size=*aa....aa*
code=*bb....bb*

HiRDB could not be started because there was a shared memory shortage for the security audit information buffer.

aa....aa: Memory size to be allocated (in bytes)

bb....bb: Error code

01: When HiRDB was started, the shared memory for the security audit information buffer specified in the `pd_audit_def_buffer_size` operand could not be allocated.

S: Cancels server startup.

O: Take the following action:

Error code 01:

If a KFPD00035-W message is output, follow the instructions given in the message. If the error persists, increase the OS memory by *aa....aa*, create a free OS memory area, or reduce the size of the `pd_audit_def_buffer_size` operand, and then restart HiRDB.

KFPD00032-W L

Insufficient Audit definition buffer memory, size=*aa....aa*
code=*bb....bb* completed size=*cc....cc*

There was a shared memory shortage for the security audit information buffer.

aa....aa: Memory size to be allocated (in bytes)

bb....bb: Error code

cc....cc: Size that was allocated (in bytes)

S: Continues processing.

O: Take action appropriate to the error code:

Error code	Description	Operator action
01	When HiRDB was started, the shared memory for the security audit information buffer was allocated based on the value specified in the <code>pd_audit_def_buffer_size</code> operand; however, not all audit event definitions could be registered in the security audit information buffer.	Re-estimate the value of the <code>pd_audit_def_buffer_size</code> operand, and then restart HiRDB.
02	When HiRDB was started, the size required for the shared memory for the security audit information buffer could not be allocated; therefore, the security audit information buffer could not be created.	If a <code>KFPD00035-W</code> message is output, follow the instructions given in the message. If the error persists, either increase the OS memory by <code>aa....aa</code> or create a free OS memory area.
03	Audit event definitions increased when HiRDB was running; therefore, not all audit event definitions were registered in the security audit information buffer specified in the <code>pd_audit_def_buffer_size</code> operand.	Re-estimate the value of the <code>pd_audit_def_buffer_size</code> operand, and then restart HiRDB.
04	Audit event definitions increased when HiRDB was running; therefore, not all audit event definitions were registered in the security audit information buffer.	Restart HiRDB.

KFPD00033-I L

Refresh Audit definition buffer completed, size=`aa....aa` code=`bb....bb`
completed size=`cc....cc`

All audit event definitions were registered in the security audit information buffer.

S: Continues processing.

KFPD00034-W L

Unable to get Audit definition buffer space requirement,
code=`aa....aa`

Unable to calculate a required security audit information buffer size due to a dictionary access error or communication error.

`aa....aa`: Error code

S: See operator actions.

O: Take action appropriate to the error code:

Error code	Security audit information buffer size specification	System action	Operator action
01	User-specified	Continues processing after acquiring shared memory for the security audit information buffer equal to a specified size. However, in some cases, not all audit event definitions can be registered in the shared memory for the security audit information buffer.	If a <code>KFPD00032-W</code> message is output when HiRDB is running, take corrective action according to that message.
02	Calculated automatically	Continues processing with a 0-byte shared memory size for the security audit information buffer.	To ensure performance, resolve the error, and then restart HiRDB.
03		Terminates abnormally in the case of HiRDB/Single Server. In the case of HiRDB/Parallel Server, generates a message, and attempts to start the server a fixed number of times. If the dictionary access error is not resolved, places the front-end server in a <code>SUSPEND</code> state.	In the case of HiRDB/Single Server, resolve the error, and then restart HiRDB. In the case of HiRDB/Parallel Server, resolve the error, and use the <code>pstart -a</code> command to reset the front-end server from the <code>SUSPEND</code> state.

KFPD00035-W L

Failed to `shmget` Audit definition buffer, `errno=aa`

Unable to acquire shared memory segments for the security audit information buffer.

aa: Error code

S: Continues processing.

O: Take action appropriate to the error code:

Error code	Description	Operator action
04	An internal resource shortage in HiRDB occurred.	The maximum number of shared memory segments controlled by HiRDB (16) was exceeded. Increase the specification value in the <code>SHMMAX</code> operand in the system common definition or unit control information definition. If the specification value in the <code>SHMMAX</code> operand is increased, the same OS command must be used to make the value of <code>shmmax</code> greater than or equal to that value. When modifying <code>shmmax</code> , you must restart the OS.
08	A memory shortage occurred.	Refer to <code>system call=shmget, errno=12, mnemonic=ENOMEM</code> in <i>4.3 System call return codes</i> to investigate and resolve the error, and take corrective action.

Error code	Description	Operator action
12	The maximum size of shared memory segments was exceeded.	Take the following action: UNIX version: The shared memory size for the security audit information buffer exceeded either the value specified in the OS parameter <code>shmmax</code> or the value specified in the <code>SHMMAX</code> operand of the system common definition or unit control information definition. Change the value specified in the OS parameter <code>shmmax</code> or the value specified in the <code>SHMMAX</code> operand to a value greater than or equal to the estimated shared memory size for the security audit information buffer. Use the <code>sam</code> command to change the OS parameter <code>shmmax</code> . When you make any modification to <code>shmmax</code> , you must restart the OS. Windows version: The shared memory size for the security audit information buffer exceeded the value specified in the <code>SHMMAX</code> operand of the system common definition or unit control information definition. Change the value specified in the <code>SHMMAX</code> operand to a value greater than or equal to the estimated shared memory size for the security audit information buffer. If the <code>SHMMAX</code> value was not exceeded, it is possible that a work file in the HiRDB installation directory was deleted when HiRDB was running; if that is the case, restart HiRDB service.
16	The maximum number of shared memory identifiers was exceeded.	Refer to <code>system call=shmget, errno=28, mnemonic=ENOSPC</code> in <i>4.3 System call return codes</i> to investigate and resolve the error, and take corrective action.

KFPD00036-W L

Failed to attach Audit definition buffer, `errno=aa`

Unable to attach the shared memory for the security audit information buffer.

aa: Error code

S: Continues processing.

O: Take action appropriate to the error code:

Error code	Description	Operator action
04	The upper limit on the number of shared memory segments that can be attached was exceeded.	Use the <code>sam</code> command in the OS to increase the value of <code>shmseg</code> . Any change to <code>shmseg</code> requires restarting the OS.
08	A memory shortage occurred.	Refer to <code>system call=shmget, errno=12, mnemonic=ENOMEM</code> in <i>4.3 system call return codes</i> to investigate and resolve the error, and take corrective action.

2. Messages

KFPD01001-E E

SQL error occurred, SQLCODE=*aa...aa*

An error that prevents the continuation of processing occurred in the SQL statement in the command.

aa...aa: SQLCODE

S: Terminates processing.

Action

Check the cause of the error, based on the previously output message; resolve the cause of the error and then re-execute.

KFPD01002-E E

REGISTRY CONTEXT already catalogued

A context with the same name is already in the registry.

S: Terminates processing.

Action

Confirm that the context name is the correct one; if it is incorrect, revise it and re-execute.

KFPD01003-E E

Invalid REGISTRY ACCESS PASSWORD

The access password for the registry context is invalid.

S: Terminates processing.

Action

Specify the correct access password and re-execute.

KFPD01004-E E

REGISTRY CONTEXT not found

The specified context is not in the registry.

S: Terminates processing.

Action

Specify the correct context name and re-execute.

KFPD01005-E E

REGISTRY KEY not found

The specified key is not in the registry.

S: Terminates processing.

Action

Specify the correct key name and re-execute.

KFPD01006-E E

REGISTRY KEY already catalogued

The specified key is already in the registry.

S: Terminates processing.

Action

Confirm that the specified key name is the correct one. If it is incorrect, correct it and re-execute. If the specified key name is the correct one, either delete the previously registered key and register the new one, or register the new one under a different name.

KFPD01007-E E

Invalid value in lock_wait option

The lock_wait option is incorrectly specified (an internal system error).

S: Terminates processing.

Action

Only Y, N, or y, n can be specified in the lock_wait option. Specify the correct value and re-execute. If this error occurred during the execution of a plug-in supplied command, notify the plug-in vendor.

KFPD01008-E E

Invalid value in lock_mode option

The lock_mode option is incorrectly specified (an internal system error).

S: Terminates processing.

Action

Only 'R', 'W', or 'r', 'w' can be specified in the lock_mode option. Specify the correct value and re-execute. If this error occurred during the execution of a plug-in supplied command, notify the plug-in vendor.

KFPD01009-E E

REGISTRY KEY catalogued by long format

The key value is registered in the registry in the long format (long key value) (an internal system error).

S: Terminates processing.

Action

Notify a customer engineer.

KFPD01010-E E

REGISTRY KEY catalogued by short format

The key value is registered in the registry in the short format (short key value) (an internal system error).

S: Terminates processing.

Action

Notify a customer engineer.

KFPD01011-E E

Over 2147483647 in REGISTRY CONTEXT

The maximum number of registry context items that can be registered was exceeded.

S: Terminates processing.

Action

Use the `pdregmcont` command to delete previously registered contexts that are no longer needed and re-execute.

KFPD01012-E E

REGISTRY CONTEXT NAME length is 0 bytes

The name of the specified registry context is 0 bytes.

S: Terminates processing.

Action

Specify the name of the context within the effective length range (1 to 240 bytes) and re-execute. If this error occurred during the execution of a plug-in supplied command, notify the plug-in vendor.

KFPD01013-E E

REGISTRY ACCESS PASSWORD length is 0 bytes

The name of the specified registry access password is 0 bytes.

S: Terminates processing.

Action

Specify the access password within the effective length range (1 to 100 bytes) and re-execute. If this error occurred during the execution of a plug-in supplied command, notify the plug-in vendor.

KFPD01014-E E

REGISTRY KEY NAME length is 0 bytes

The name of the specified registry key name is 0 bytes.

S: Terminates processing.

Action

Specify the name of the key within the effective length range (1 to 240 bytes) and re-execute. If this error occurred during the execution of a plug-in supplied command, notify the plug-in vendor.

KFPD01015-I E

Usage: *aa....aa*

The command format is invalid.

aa....aa: Command format

S: Terminates processing.

Action

Revise the command format and re-execute. If this error occurred during the execution of a plug-in supplied command, notify the plug-in vendor.

KFPD01016-E E

Insufficient memory, size=*aa....aa*

A memory shortage occurred.

aa....aa: The size to be allocated (in bytes)

S: Terminates processing.

Action

Either re-execute the UAP after other processes have ended or increase the size of the swap area.

KFPD01017-E E

REGISTRY CONTEXT NAME length exceeds 240 bytes

The name of the specified registry context is greater than the maximum value.

S: Terminates processing.

Action

Specify the name of the context within the effective length range (1 to 240 bytes) and re-execute. If this error occurred during the execution of a plug-in supplied command, notify the plug-in vendor.

KFPD01018-E E

REGISTRY ACCESS PASSWORD length exceeds 100 bytes

The specified registry access password is greater than the maximum value.

S: Terminates processing.

Action

Specify the access password within the effective length range (1 to 100 bytes) and re-execute. If this error occurred during the execution of a plug-in supplied command, notify the plug-in vendor.

KFPD01019-E E

REGISTRY KEY NAME length exceeds 240 bytes

The name of the specified registry key is greater than the maximum value.

S: Terminates processing.

Action

Specify the name of the key within the effective length range (1 to 240 bytes) and re-execute. If this error occurred during the execution of a plug-in supplied command, notify the plug-in vendor.

KFPD01020-E E

Read error occurred on file, file name=*aa....aa*

The read operation from the specified file failed. Or, the specified file does not exist.

aa....aa: Specified file name

S: Terminates processing.

Action

Resolve the cause of the error and re-execute.

KFPD01021-E E

System error occurred, return code=*aaa*

An internal system error occurred.

aaa: Return code

-10: An SQL error

-30: An invalid interface

S: Terminates processing.

Action

Notify a customer engineer.

KFPD01023-I E

Usage: `pdlistls [-d {1 |2}] [-u list user name]`
`[-t base table owner.base table name]`

Shows the format of the `pdlistls` command.

S: Terminates processing.

Action

Specify the command correctly and re-execute it.

KFPD01024-E

Usage: `pddef [-e] [-s] [-R]`

Shows the format of the database definition utility command.

S: Terminates processing.

Action

Specify the utility command correctly and re-execute it.

KFPD01025-E E

Invalid option for `pddef`

Specification of the database definition utility command is invalid.

S: Terminates processing.

Action

Specify the utility command correctly and re-execute it.

KFPD01026-E E

Argument of *aa* option is invalid

Either the option argument is invalid or the specified value is incorrect.

aa: Option name

S: Terminates processing.

Action

Specify the option correctly and re-execute the utility.

KFPD01100-I E

Usage: *aa....aa*

This message indicates how to specify commands.

aa....aa: Specification method

- `pdgrprfl`
- `pdsrchk [-k {usr|rdp|tbp}]`
- `pdacunlck {auth_id[,auth_id]...|ALL}`

S: Terminates processing.

Action

Check the command format and re-execute.

KFPD01101-I L+S

`Pdgrprfl` command started

Processing of the `pdgrprfl` command has started.

S: Continues processing.

KFPD01102-I L+S

`Pdgrprfl` command ended, return code=*aa*

Processing of the `pdgrprfl` command has terminated with return code *aa*.

aa: Return code:

0: Normal termination

8: Abnormal termination

S: Terminates processing.

Action

When the return code is 8, refreshing of the user, group, or role information failed. Refer to other messages, eliminate the cause of the error, and then re-execute the `pdgrprfl` command.

KFPD01103-E E

Invalid option for *aa....aa*

An error was found in the command option specification format.

aa....aa: Command name

- `pdgrprfl`
- `pdustrchk`
- `pdacunlck`

S: Terminates processing.

Action

Check the command format, and then re-execute the process.

KFPD01104-E E+L

Insufficient memory on PROCESS, size=*aa....aa*

There is insufficient process private area, so sufficient work area required to execute the command was not secured.

aa....aa: Area size that was to be allocated (in bytes)

S: Terminates processing.

Action

Use one of the following methods to increase the size of the process private area so that sufficient memory is available, then re-execute the command:

- Reduce the number of concurrently executing processes
- Increase the swap area
- Add more real memory

KFPD01105-E E+L

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: Detailed code of the system-related error

S: Terminates processing.

Action

Correct the error by referring to *4.2 Detail codes for system-related errors* and re-execute the command. If the error code is -310, the server at the communication destination may not have been activated. If an error that cannot be handled by HiRDB administrator has occurred, contact a customer engineer.

KFPD01106-E E+L

Invalid execution node

The command cannot be executed from this server machine.

S: Terminates processing.

Action

Check the settings of environment variables (PDHOST, PDNAMEPORT, PDDIR, PDCONFPATH, etc.). If a setting is incorrect, correct it and re-execute the command. If all settings are correct, re-execute the command from the server machine where the system manager (MGR) is located.

KFPD01107-E E+L

Unable to execute *aa....aa* command without directory server

The *aa....aa* command cannot be executed because the Directory Server Linkage facility is not being used.

aa....aa: Command name

- pdgrprfl
- pdusrchk

S: Terminates processing.

Action

This command can be executed when using the Directory Server Linkage facility. This command cannot be executed when the Directory Server Linkage facility is

not being used. For details on the Directory Server Linkage Facility, see *HiRDB Version 8 System Operation Guide*.

KFPD01108-E E+L

Hostname=*aa....aa*, unable to execute *cc....cc* command, unit *bbbb* state not ONLINE

The command cannot be executed because unit *bbbb* with host name *aa....aa* is not active.

aa....aa: Name of host where command could not be executed

bbbb: Unit identifier

cc....cc: Command name

- pdgrprfl
- pdlistls
- pdusrchk
- pdacunlck

S: Terminates processing.

Action

Start HiRDB or the unit, and then re-execute the command.

KFPD01109-E E+L

Server *aa....aa* not running

The command cannot be executed because the server is not running.

aa....aa: HiRDB server name

S: Terminates processing.

Action

Start the server, and then re-execute the command.

KFPD01110-E E+L

Server down detected

Abnormal termination of the server was detected.

S: Terminates processing.

Action

Check the message or abort code to find what caused the server to abnormally terminate. Eliminate the cause, and then re-execute the command.

KFPD01111-I L+S

Pdgrprfl command skipped processing for server *aa...aa* because server not running

Processing of the pdgrprfl command was skipped for the non-running server *aa...aa*.

aa...aa: Server name

S: Continues processing.

KFPD01112-E E+L

Unable to execute "pdacunlck" command, code=*aa (bb...bb)*

The pdacunlck command cannot be executed.

aa: Reason code

bb...bb: Additional error information

cc...cc: Authorization identifier

S: Ignores this SQL statement.

Action

From the output reason code and additional error information, remove the error cause, and re-execute the command.

Reason code	Additional error information	Explanation
01	Using directory server	If the directory server linkage facility is used, this command cannot be executed.
02	Not found authorization identifier <i>cc...cc</i>	The authorization identifier specified in the pdacunlck command does not exist.
03	Duplicate authorization identifier <i>cc...cc</i>	The authorization identifier specified in the pdacunlck command is duplicated.
04	Number of authorization identifier exceeds 128	The number of authorization identifier specifications exceeds 128.

KFPD01113-I L+S

"pdacunlck" command ended, return code=*a*

The pdacunlck command terminated with return code *a*.

a: Return code

0: Normal termination

8: Abnormal termination

2. Messages

S: Ignores this SQL statement.

Action

If the return code is 8, refer to the output message and remove the cause of the error, and then execute the `pdacunlock` command.

2.5 KFPH messages

KFPH00031-E L

RDAREA "*aa....aa*" not initialized, file=*bb...bb*, reason code=*cc*

HiRDB file *bb...bb* in RDAREA "*aa....aa*" has not been initialized.

aa....aa: RDAREA name

bb...bb: *Name-of-HiRDB-file-system-area\Name-of-HiRDB-file*

If the path name of HiRDB file exceeds 131 characters, the last 131 characters of HiRDB file path name are output.

cc: Reason code:

- 1: Reinitialization of RDAREA not completed
- 2: Deletion of RDAREA not completed
- 3: Integration of the RDAREA is not complete.
- 10 to 19: RDAREA management information not set

S:

For user RDAREA:

Shuts down the corresponding RDAREA and resumes processing.

For any other RDAREA:

Terminates processing. However, if this message is output when a HiRDB was being executed, continues processing by closing the affected RDAREA.

Action

Check the cause of the error, as listed below, correct the RDAREA, and then re-execute the processing:

1. This RDAREA cannot be used because the following processes of the database structure modification utility terminated abnormally:
 - Reinitialization of the RDAREA
 - Deletion of the RDAREA
 - Matching of the RDAREAs
2. Recovery of the RDAREA failed.
3. HiRDB file system areas are mismatched.
4. Synchronization was lost between HiRDB file system area containing the

master directory RDAREA or the data dictionary RDAREA and HiRDB file system area where the error occurred.

5. The contents of the RDAREA are damaged.

If none of the above applies, contact a customer engineer.

KFPH00035-W L

Global buffer pool not allocated for RDAREA *aa....aa*

Global buffer pool is not allocated to the RDAREA.

aa....aa: RDAREA name

S: Places the RDAREA on `CLOSE` status and resumes processing.

Action

Allocate a global buffer pool for the RDAREA with the `pdbuffer` operand of the system common definition.

KFPH00110-I L

aa....aa command completed

Processing of HiRDB command *aa....aa* has been completed.

aa....aa: Name of command

S: Resumes processing.

KFPH00115-I L+S

aa....aa command failed

HiRDB command *aa....aa* cannot be processed.

aa....aa: Name of command

S: Ignores the entered command and terminates processing. In the case of the `pdhold` command with the `-c` option specified or the `pdrels` command with the `-o` option specified, command processing may have partially executed.

KFPH00130-I L+S

RDAREA *aa....aa*, RDAREA=*bb....bb*

The specified RDAREA was shut down, released from shutdown, opened, closed, updates frozen, or updates unfrozen.

aa....aa: Type of RDAREA processing:

`held`: RDAREA was shut down (access prohibited)

`held(inq)`: RDAREA was shut down (referencing permitted)

`held(bu i)`: Reference-possible backup hold

`held(bu iw)`: Reference-possible backup hold (update WAIT mode)

held(bu) : Updatable backup-hold
held(bu w) : Updatable backup-hold (WAIT mode)
held(sync) : Synchronization hold
held(org) : Online reorganization hold
released: RDAREA was released from shutdown status
opened: RDAREA was opened
closed: RDAREA was closed
freezed: Updating of RDAREA is frozen
unfreezed: Update freeze of the RDAREA was cancelled

bb...bb: RDAREA name

S: Resumes processing.

KFPH00131-E L

pdhold command failed due to RDAREA already held, RDAREA=*aa...aa*
The indicated RDAREA cannot be shut down by the command, because it is already on error shutdown status.

aa...aa: RDAREA name

S: Ignores this RDAREA processing and continues processing.

O: Check the RDAREA status with the `pddb1s` command. Eliminate the cause of the RDAREA being placed on error shutdown status, release the RDAREA from shutdown status, then re-execute the command.

KFPH00132-E L+S

aa...aa command failed due to HiRDB error, *bb...bb=cc...cc* code=*ddd* [, server = *ee...ee*]

HiRDB command *aa...aa* cannot be processed, because a HiRDB server error occurred.

aa...aa: Command name

bb...bb: Invalid specification (one of the following is displayed):

- RDAREA
- server
- buffer pool
- index

cc...cc: Name of RDAREA, server, global buffer, or index (if the name cannot be obtained, ***** is displayed)

ddd: Error code:

- 2: Access error in dictionary RDAREA
- 4: Memory shortage at the communication destination
- 7: PRC communication error
- 20: Reinitialization of RDAREA not completed
- 21: Deletion of RDAREA not completed
- 22: Page length longer than the buffer length
- 24: A falsification prevented table with incomplete data was found in the applicable RDAREA

ee...ee: Shared RDAREA runtime server name

This is displayed when an error occurs in a shared RDAREA.

S:

RDAREA:

Invalidates the applicable RDAREA processing and continues processing.

Server:

Invalidates the server process causing the error and continues processing.

Global buffer:

Invalidates the applicable global buffer process and continues processing.

Index:

Invalidates the applicable index process and continues processing.

O:

Error code is -24:

Use the database reorganization utility (`pdroorg`) to complete the reloading of falsification prevented tables that are in reload-not-completed data status. Then, use the `pdrels` command to cancel the hold and resume work.

Error code is not -24:

Refer to the message output to the message log file, eliminate the cause of the error, and then re-execute the command.

When a shared RDAREA is used and the server name is displayed

Refer to the message output to the message log file, remove the cause of the error from the relevant server, and re-execute the command.

KFPH00133-E L

RDAREA release failed due to not recovered, RDAREA=*aa...aa*

The error shutdown could not be released because RDAREA *aa...aa* that was shut down due to the error was not recovered.

Or, synchronization hold RDAREA *aa...aa* could not be released because it was updated with invalid data.

aa...aa: RDAREA name

S: Invalidates the command's processing for this RDAREA and continues processing.

Action

Use the `pdsqls` command to check the status of the RDAREA. If the RDAREA is on error shutdown status, take one of the following actions to release its error shutdown status:

- Use the `pdrstr` command to recover the RDAREA.
- Use the `pdmod` command to reinitialize the RDAREA (note that all data in the RDAREA will be deleted).

Update using a duplicate RDAREA that has valid data in the inner replica group for synchronization holding when using the inner replica facility, and then re-execute the command.

KFPH00134-I L+S

aa...aa command completed, server = *bb...bb*

Operation command *aa...aa* processing is complete on server *bb...bb*.

aa...aa: Command name

bb...bb: Server name

S: Terminates processing.

KFPH00135-E L+S

aa...aa command failed, server = *bb...bb*

Operation command *aa...aa* processing could not be performed on server *bb...bb*.

aa...aa: Command name

bb...bb: Server name

S: Invalidates processing of the server where the error occurred, and then continue processing.

Action

Refer to the output message, eliminate the cause of the error, and then re-execute this command.

KFPH00141-E L

aa....aa command failed due to specified name invalid, RDAREA=*bb...bb*

HiRDB command *aa....aa* could not be processed because the specified RDAREA name is invalid. Command *aa....aa* cannot be executed on the master directory RDAREA. Or, the `pddbfrz` command cannot be executed on an RDAREA other than the user LOB RDAREA.

aa....aa: Name of command

bb...bb: RDAREA name

S: Invalidates the corresponding RDAREA processing and resumes processing.

O: Specify the correct RDAREA name and re-execute the command. Alternatively, if the pattern character string of the RDAREA batch specification includes a percent sign (%) or an underscore (_), delete the percent sign or the underscore, and then re-execute the command.

KFPH00142-E L+S

aa....aa command failed due to specified name not found,
bb...bb=cc....cc [, server = *dd...dd*]

Specified RDAREA name, server name, buffer pool name, or table name not found. HiRDB command *aa....aa* cannot be processed.

aa....aa: Name of command

bb...bb: Invalid specification:

{ RDAREA |server |buffer pool |table }

cc....cc: Name of RDAREA, server, buffer pool, or table

dd...dd: Shared RDAREA runtime server name

This is displayed when an error occurs in a shared RDAREA during execution of the `pddb1s` command.

S: Performs the following processing for *cc....cc*.

- If an RDAREA, invalidates the corresponding RDAREA processing and resumes processing.
- If a server, invalidates the server processing resulting in the error and resumes processing.
- If a buffer pool, invalidates the corresponding buffer pool processing and resumes processing.
- For a table name, processing is interrupted.

O: Specify the correct RDAREA name, server name, buffer pool name, or table name, and re-execute the command.

KFPH00145-E L+S

aa....aa command failed due to HiRDB error, code=*bbb*[, server = *cc....cc*]

A HiRDB system error occurred and HiRDB command *aa....aa* cannot be processed.

aa....aa: Name of command

bbb: Error code:

- 4: Memory shortage
- 5: Lock error
- 6: Lock release error
- 8: RDAREA information management block maintenance error
- 9: Transaction startup error
- 10: Information collection error in HiRDB file system area
- 11: Object cache not released
- 12: Lock of object cache disabled
- 13: Unlock of object cache disabled

cc....cc: Shared RDAREA runtime server name

This is displayed when an error occurs in a shared RDAREA.

S: Terminates processing.

O: Eliminate the cause of the error on the basis of the message output to the message log file and re-execute the command.

- When the server name is displayed
Refer to the message output in the message log file, remove the cause of the error from the relevant server, and re-execute the command.
- When the `pdorbegin -u` command is executed
Check that the RDAREA can be released from online reorganization hold.

KFPH00153-E L+S

aa....aa command failed due to RDAREA status invalid, RDAREA=*bb....bb*

Unable to execute *aa....aa* command due to an invalid RDAREA status.

aa....aa: Name of command

bb....bb: RDAREA name

S: Cancels the processing on the RDAREA, and continues processing.

O:

Check the RDAREA's status with the `pddb1s` command, correct the status, then re-execute the command.

When shared RDAREAs are used, check the status of the shared RDAREA for each server using the `pddb1s -m` command, and place all shared RDAREAs in the correct status. Then, re-execute the command.

When temporarily changing from online reorganization hold status to reference-possible hold status, the RDAREA cannot hold backups. Use the `pdrels` command to release the reference-possible hold. In addition, if the `pdorchg` command has not been executed, use the `pdorbeg` command; if `pdorchg` has been executed, use the `pdorend` command to release the online reorganization hold, and then re-execute the command.

For more information about whether commands can be executed depending on the status of the RDAREA, see *Utility/UAP execution depending on the status of the RDAREA* in the manual *HiRDB Version 8 Command Reference*. However, for the `pdorbeg` command, see *RDAREA status transition* in the manual *HiRDB Version 8 Command Reference* to verify the correct status for the original RDAREA. In the case of a replica RDAREA, verify that the area is on hold and closed.

KFPH00154-E L

RDAREA open failed due to not recovered, RDAREA=*aa....aa*

RDAREA that was shut down due to an error has not been recovered and could not be opened.

aa....aa: RDAREA name

S: Invalidates the command for this RDAREA and resumes processing.

Action

Eliminate the cause of the RDAREA shutdown error and release its CLOSE status with the `pdrels` command.

KFPH00155-W L

RDAREA status changed, though not recovered, RDAREA=*aa....aa*

Even though RDAREA *aa....aa* that was shut down has not been recovered, its status was changed. Or, the RDAREA status was changed without reflecting difference data in synchronization-hold RDAREA *aa....aa*.

aa....aa: RDAREA name

S: Resumes processing.

Action

Check the cause of the RDAREA shutdown error and eliminate the cause if it affects operations.

KFPH00156-E L+S

Backup hold canceled due to deadlock occurred, RDAREA =
 "aa....aa" [, server = bb....bb]

Backup-hold was cancelled because deadlock occurred.

aa....aa: RDAREA name

bb....bb: Shared RDAREA runtime server name

This is displayed when an error occurs in a shared RDAREA.

S: Terminates processing.

O:

If there is an RDAREA that is in reference-possible backup-hold status of the update WAIT mode or that is in updatable backup-hold status, refer to the deadlock information (for a shared RDAREA, the server deadlock information) and find the RDAREA that is securing the lock on the backup-held RDAREA (resource type 0602). Then use the `pdrels` command to release that RDAREA's held status, and re-execute the `pdhold` command.

In all other cases, wait a while, and then re-execute the `pdhold` command. For details on deadlock information, see *HiRDB Version 8 System Operation Guide*.

KFPH00157-W L+S

Unable to recover without log file because of update in backup hold, RDAREA=aa....aa

RDAREA aa....aa was updated while it was in updatable backup-hold status (WAIT mode). Recovery of the database using this backup requires the unload log file into which were unloaded the system logs from the most recent synchronization point before the backup was made.

aa....aa: RDAREA name

S: Continues processing.

Action

To recover the RDAREA, use the backup file and unload log file.

KFPH00210-I L

Clustering disordered, table id=aa....aa

In the case of a table for which clustering is specified, rows can no longer be stored in the specified segment and the benefits of clustering are beginning to be lost.

aa....aa: Table number

S: Resumes processing.

O: Reorganize the corresponding table.

KFPH00211-I L

RDAREA usage *aaa%*, RDAREA="*bb...bb*"*cc...cc*

The meaning depends on the circumstances:

System definition `pd_rdarea_warning_point` not specified:

Master directory RDAREA, data directory RDAREA:

No message is output.

Data dictionary RDAREA, user RDAREA, user LOB RDAREA, registry, and registry LOB RDAREAs:

The system started using the segment with relative location *aaa%* among all the segments of the last file in RDAREA "*bb...bb*".

System definition `pd_rdarea_warning_point` specified:

Master directory RDAREA, data directory RDAREA, data dictionary RDAREA, user RDAREA, registry RDAREAs:

The system started using the segment with usage factor *aaa%* among all the segments in RDAREA "*bb...bb*". The current number of unused segments is *cc...cc*.

User LOB RDAREA, registry LOB RDAREAs:

The system started using the segment with relative location *aaa%* among all the segments in RDAREA "*bb...bb*". The number of remaining segments that can maintain effective performance is *cc...cc*.*

* Effective performance:

In the case of a user LOB RDAREA, the highest throughput can be achieved when the database area has not been used through the end. The effective performance indicates the high throughput status. Once a database is used through the end, throughput becomes lower. Therefore, some action such as database reorganization must be taken beforehand.

aaa: One of the following is displayed:

- Relative location of the segment being used in the last file in the RDAREA
- Segment usage factor in the entire RDAREA
- Relative location in the RDAREA of the segment being used

bb...bb: Applicable RDAREA name

cc...cc: Additional information about segment usage factor, *dd...dd* segments unused (*dd...dd*: number of remaining segments)

S: Resumes processing.

If there is not enough space to allocate a new segment in this RDAREA but there is some space in existing segments used for addition or updating, the system continues processing using those segments.

This message is displayed again if the indicated segment is used after it was released due to table deletion, reorganization, etc.

P: Contact HiRDB administrator.

Action

Use the command or utility shown below to check the remaining space in the RDAREA, then take the appropriate action shown in the table.

Command for checking the remaining space:

- Database status display command (`pdsql`):

Specifying the `-a` option displays the RDAREA usage status. This command can be used for all RDAREAs.

- Database condition analysis utility (`pdbst`):

Physical or logical analysis displays the RDAREA usage status. This utility can be used for data dictionaries, user RDAREAs, and LOB RDAREAs.

Action

The table below shows the actions:

RDAREA type	System definition <code>pd_rdarea_warning_point</code> not specified	System definition <code>pd_rdarea_warning_point</code> specified
Master directory RDAREA or data directory RDAREA	No message is output.	<ul style="list-style-type: none"> • Check the usage status of the RDAREA by using the database status display command (<code>pdsql</code>) or check the additional information about segment usage factor displayed in the message. • Extend the RDAREA as required. • The database condition analysis utility (<code>pdbst</code>) is not applicable to this RDAREA. Additionally, this RDAREA cannot be reorganized.

RDAREA type	System definition pd_rdarea_warning_point not specified	System definition pd_rdarea_warning_point specified
Data dictionary RDAREA	<ul style="list-style-type: none"> Check the usage status of the RDAREA by using the database status display command (pd_db1s) or the database condition analysis utility (pd_dbst). Depending on the usage status, either reorganize the table in units of RDAREAs or tables, or expand the RDAREA. 	<ul style="list-style-type: none"> Check the usage status of the RDAREA by using the database status display command (pd_db1s) or the database condition analysis utility (pd_dbst) or check the additional information about segment usage factor displayed in the message. Depending on the usage status, either reorganize the table in units of RDAREAs or tables, or expand the RDAREA.
User RDAREA	<ul style="list-style-type: none"> Check the usage status of the RDAREA by using the database status display command (pd_db1s) or the database condition analysis utility (pd_dbst). Depending on the usage status, either reorganize the table in units of RDAREAs or tables, or expand the RDAREA. 	<ul style="list-style-type: none"> Check the usage status of the RDAREA by using the database status display command (pd_db1s) or the database condition analysis utility (pd_dbst) or check the additional information about segment usage factor displayed in the message. Reorganize the tables in units of RDAREAs or tables according to the usage status. Or, extend the RDAREA.
LOB RDAREA	<ul style="list-style-type: none"> Check the usage status of the RDAREA by using the database status display command (pd_db1s) or the database condition analysis utility (pd_dbst). Reorganize the RDAREA in units of user LOB RDAREAs or tables according to the usage status. Or, extend the RDAREA. 	<ul style="list-style-type: none"> Check the usage status of the RDAREA by using the database status display command (pd_db1s) or the database condition analysis utility (pd_dbst) or check the additional information about segment usage factor displayed in the message. Reorganize the RDAREA in units of user LOB RDAREAs or tables according to the usage status. Or, extend the RDAREA.

KFPH00212-I L

Table should be reorganized, RDAREA="aa....aa", AUTHID=bb....bb,
TABLE=cc....cc

A table needs to be reorganized.

aa....aa: RDAREA name

bb....bb: Authorization identifier

cc....cc: Table identifier

S: Resumes processing.

Action

Reorganize the table with the database reorganization utility (pd_rorg). The size of the RDAREA must be increased in the following cases:

- This message is issued frequently for tables in the same RDAREA.
- This message is issued during or immediately after table reorganization.

KFPH00213-W L

All segments in RDAREA "*aa....aa*" allocated

An attempt was made to allocate a new segment for a table or index, but all segments in RDAREA *aa....aa* are in use.

This message is output for data dictionary RDAREAs, data dictionary LOB RDAREAs, user RDAREAs, and user LOB RDAREAs. Furthermore, this message is output once per RDAREA after the server has started, and the next event is released from warning message output status.

- HiRDB server startup
- RDAREA hold release
- RDAREA open by operation command
- RDAREA expansion

aa....aa: RDAREA name

S: Continues processing.

Even if the RDAREA indicated in this message is too small, and new segments cannot be allocated, if there are any existing empty segments among those added or changed, those segments are used, and processing continues.

Furthermore, if the segments referred to in this message are released when a table is dropped or reorganized, and then the same segments are used later, this message is re-displayed.

Action

See the actions of the KFPH00211-I message.

KFPH00306-E L

RDAREA *aa....aa* hold due to *bb....bb*

RDAREA *aa....aa* was placed on error shutdown status for reason *bb....bb*.

aa....aa: RDAREA name

bb....bb: Reason for shutting down the RDAREA:

LIST RDAREA error:

An error was detected in a list RDAREA.

error occurred in log-less utility:

An error was detected during processing of a utility that does not collect log

information, so the RDAREA was shut down.

error occurred in log-less uap:

Error was detected during processing of a UAP that does not collect log information, so the RDAREA was shut down.

error occurred in table of RECOVERY NO option at BLOB column:

The RECOVERY NO option was set in the BLOB column, so the RDAREA was shut down.

i/o error occurred:

An I/O error occurred.

open error occurred:

An open error occurred.

page corrupted:

Internal conflict was detected on a page.

rollback failed:

Rollback failed.

time stamp invalid:

Time stamp mismatch was detected on a page.

object ID invalid:

Object ID mismatch was detected on a page.

S: In the case of input from the RDAREA (with the exception of log application site processing when the database recovery utility, rerun, rollback, or Real Time SAN Replication with the log-only synchronous method is being used), terminates processing and rolls back; in all other cases, continues processing.

Action

LIST RDAREA error:

This error is output when HiRDB is started forcibly without recovering a list RDAREA that had been placed on error shutdown status. Reinitialize the list RDAREA, then use the `pdrels` command to release its shutdown status, then resume the operation.

error occurred in log-less utility, error occurred in a log-less UAP, or error occurred in table of RECOVERY NO option at BLOB column:

First, use the database recovery utility to recover the RDAREA, then use the

`pdrels` command to release the shutdown, then resume the operation.

`i/o error occurred:`

Refer to the KFPH22003-E or KFPH23100-E message that is output immediately before this error and correct the I/O error. Use the database recovery utility to recover the RDAREA, then use the `pdrels` command to release the shutdown, then resume the operation.

`open error occurred:`

Refer to the KFPH22003-E or KFPH23100-E message that is output immediately before this error and correct the open error. Use the database recovery utility to recover the RDAREA, then use the `pdrels` command to release the shutdown, then resume the operation.

`time stamp invalid:`

Contact a customer engineer. Save the simple dump that is output under `%PDDIR%\spool`. Use the database recovery utility to recover the RDAREA, then use the `pdrels` command to release the shutdown status, then resume the operation.

Other cases:

RDAREA recovery may have failed; check for the following:

- The RDAREA had been placed on error shutdown status earlier, but has not been recovered; or, the RDAREA was released forcibly from error shutdown status and was used after the database recovery utility failed.
- HiRDB has been started forcibly.
- Status or log files were initialized after HiRDB was terminated forcibly or terminated abnormally, and then HiRDB was restarted and used.
- When the RDAREA was recovered from a backup earlier, at least one RDAREA related to the recovered RDAREA was not recovered from the backup.
- Backup was restored and HiRDB was restarted after HiRDB had been terminated forcibly or terminated abnormally.

If any of the above is applicable, use the database recovery utility to recover the RDAREA, then use the `pdrels` command to release the shutdown status, then resume the operation.

If none of the above is applicable, contact a customer engineer. Save the simple dump that is output under `%PDDIR%\spool`. Use the database recovery utility to recover the RDAREA, then use the `pdrels` command to release the shutdown status, then resume the operation.

Log application site using Real Time SAN Replication with the log-only synchronous method

The log application is disabled. Refer to the manual *HiRDB Version 8 Disaster Recovery System Configuration and Operation Guide*, and take corrective action.

KFPH00307-E L

RDAREA "aa...aa" HELD (CMD) due to bb...bb

RDAREA "aa...aa" was shut down for reason bb...bb.

aa...aa: RDAREA name

bb...bb: Reason for shutting down the RDAREA:

time stamp invalid:

Time stamp mismatch was detected on a page.

i/o error occurred:

An I/O error occurred.

open error occurred:

An open error occurred.

object ID invalid:

Object ID mismatch was detected on a page.

page corrupted:

Page corruption was detected.

data unfinished:

A falsification prevented table in reload-not-completed data status was detected.

S: Shuts down and rolls back the applicable RDAREA.

Action

time stamp invalid:

Contact a customer engineer. Save the simple dump that is output under %PDDIR%\spool. If the KFPH00306-E message has not been output for the applicable RDAREA, its shutdown status can be released with the `pdrels` command and the operation can be resumed. If the KFPH00306-E message has been output, the RDAREA must be recovered; take the action indicated by the KFPH00306-E message.

i/o error occurred:

If the KFPH00306-E message has not been output for the applicable RDAREA, refer to the KFPH22003-E or KFPH23100-E message that is output immediately before this error, and correct the I/O error. Then use the `pdrels` command to release the shutdown status, then resume the operation.

If the KFPH00306-E message has been output, the RDAREA must be recovered; take the action indicated by the KFPH00306-E message.

open error occurred:

If the KFPH00306-E message has been output for the applicable RDAREA, the RDAREA must be recovered. Take the action indicated by the KFPH00306-E message.

If the KFPH00306-E message has not been output for the applicable RDAREA, refer to the KFPH22003-E or KFPH23100-E message that is output immediately before this error, and correct the open error. Then use the `pdrels` command to release the shutdown status, then resume the operation.

data unfinished:

A falsification prevented table in reload-not-completed data status is in the applicable RDAREA. Use the database reorganization utility (`pdroorg`) to completely reload the falsification prevented table in reload-not-completed data status. Then, use the `pdrels` command to release the shutdown status and resume work.

Other cases:

RDAREA recovery may have failed; check for the following:

- The RDAREA had been placed on error shutdown status earlier, but has not been recovered; or, the RDAREA was released forcibly from error shutdown status and was used after the database recovery utility failed.
- HiRDB has been started forcibly.
- Status or log files were initialized after HiRDB was terminated forcibly or terminated abnormally, and then HiRDB was restarted and used.
- When the RDAREA was recovered from a backup earlier, at least one RDAREA related to the recovered RDAREA was not recovered from the backup.

If any of the above is applicable, use the database recovery utility to recover the RDAREA, then use the `pdrels` command to release the shutdown status, then resume the operation.

If none of the above items is applicable, contact a customer engineer. Save the simple dump that is output under `%PDDIR%\spool`. If the KFPH00306-E message has been output for the applicable RDAREA, the RDAREA must

be recovered. Take the action indicated by the KFPH00306-E message. If the KFPH00306-E message has not been output, the shutdown status can be released with the `pdrels` command and the operation can be resumed.

KFPH00308-E L

Page corrupted, RDAREA = "*aa...aa*", file name = *bb...bb*, offset = *cc...cc*

Page corruption was detected.

aa...aa: RDAREA name

bb...bb: *Name-of-HiRDB-file-system-area*\Name-of-HiRDB-file

If the path name of HiRDB file exceeds 131 characters, the last 131 characters of HiRDB file path name are output.

cc...cc: Location relative to the beginning of HiRDB file (shows in decimal the location of the corrupted page)

S: Shuts down this RDAREA.

O: Contact HiRDB administrator.

Action

Contact a customer engineer. Use the database recovery utility to recover the RDAREA that was shut down.

KFPH00309-E L

DB error inf1=(file=*aa...aa*, offset=*bb...bb*, pno=*cc...cc*, fno=*dd*)

Outputs maintenance information at the time of a database error.

aa...aa: *Name-of-HiRDB-file-system-area*\Name-of-HiRDB-file

If the path name of HiRDB file exceeds 131 characters, the last 131 characters of HiRDB file path name are output.

If unclear, ******* is displayed.

bb...bb: Offset from the beginning of HiRDB file page to where the error was detected. (******* is displayed when the file name is unknown)

cc...cc: Page number

dd: File number

S: Continues processing.

Action

Take the actions indicated by the KFPH00306-E, KFPH00307-E, KFPH22025-E, or KFPH22026-E message that is output after this error and by the abort code.

KFPH00310-E L

DB error inf2=(func=*aa....aa*, line=*bbbbbb*, RDAREA="*cc....cc*",
RDID=*dd....dd*, ptype=*e*, TBLID=*ff....ff*, IDXID=*gg....gg*, LISTID=*hh....hh*,
opcode=*iiii*, sttype=*jj*)

Outputs maintenance information at the time of a database error.

aa....aa: Name of the function in which the error was detected

bbbbbb: Row number in which the error was detected

cc....cc: RDAREA name (***** is displayed when the RDAREA name is unknown)

dd....dd: RDAREA ID

e: Detected page type:

I: Index

T: Data

D: Directory

L: List

B: LOB

ff....ff: ID of the applicable table (if unknown, ***** is displayed)

gg....gg: ID of the applicable index (if unknown, ***** is displayed)

hh....hh: ID of the applicable list (if unknown, ***** is displayed)

iiii: Operation code (if unknown, *** is displayed)

jj: Scan type (if unknown, ** is displayed)

S: Continues processing.

Action

Take the actions indicated by the KFPH00306-E, KFPH00307-E, KFPH22025-E,
or KFPH22026-E message that is output after this error and by the abort code.

KFPH00311-E L

RDAREA "*aa....aa*" held in Real_Time_SAN_Reprication backup site,
due to *bb....bb* in Real_Time_SAN_Reprication usually site

At the log application site, RDAREA "*aa....aa*" was shut down due to reason *bb....bb*.

aa....aa: RDAREA name

bb....bb: Reason for shutdown

log less utility executed:

At the transaction execution site, a utility was executed either in no-log mode

or in pre-update log acquisition mode.

log less uap executed:

At the transaction execution site, a UAP was executed in no-log mode.

table of RECOVERY NO/PARTIAL option at BLOB column is changed:

At the transaction execution site, a table with a BLOB column was updated with either the RECOVERY NO or RECOVERY PARTIAL option.

database structure modification utility executed:

At the transaction execution site, the database structure modification utility (pdmod) was executed.

This reason code is output when one of the following facilities is used on the RDAREA undergoing system log application processing:

- RDAREA expansion (expand rdarea statement)
- RDAREA re-initialization (initialize rdarea statement)
- RDAREA deletion (remove rdarea statement)
- RDAREA move (move rdarea statement)
- RDAREA attribute modification (alter rdarea statement)

held:

The RDAREA at the transaction execution site was shut down due to an error.

S: Continues processing.

Action: The log application is disabled. Refer to the manual *HiRDB Version 8 Disaster Recovery System Configuration and Operation Guide*, and take corrective action.

KFPH00312-E L

RDAREA "aa....aa" HELD(CMD) in Real_Time_SAN_Reprication backup site, due to bb....bb in Real_Time_SAN_Reprication usually site

At the log application site, RDAREA "aa....aa" was shut down due to reason bb....bb.

aa....aa: RDAREA name

bb....bb: Reason for shutdown

HELD(CMD):

A command shutdown was performed at the transaction execution site.

S: Continues processing.

Action: If a KFPH00311-E message is not output on the RDAREA in question, take corrective action by referring to the KFPH00307-E message that is output at the transaction execution site. If a KFPH00311-E message is output, take corrective action according to the KFPH00311-E message.

KFPH00313-E L

Time stamp invalidity information, (header value=*aa....aa*, footer value=*bb....bb*)

Outputs maintenance information when a time stamp inconsistency is found in a page.

aa....aa: Page header time stamp acquisition value

bb....bb: Page footer time stamp acquisition value

S: Continues processing.

Action: Take corrective action according to the KFPH00306-E, KFPH00307-E, KFPH22025-E, or KFPH22026-E message or the abort code that is output following this message.

KFPH00372-I L

RDAREA "*aa....aa*" not recovered from hold status

RDAREA that was shut down due to an error has not been recovered.

aa....aa: RDAREA name

S: Resumes processing.

Action

Recover the RDAREA and release its SHUTDOWN status.

KFPH20001-E L

Invalid HiRDB ID for database, HiRDB ID=*aaaa*, database initialize HiRDB ID=*bbbb*

Identifier *aaaa* of the started HiRDB differs from identifier *bbbb* of HiRDB whose database was initialized.

aaaa: Identifier of HiRDB that was started

bbbb: Identifier of HiRDB that was initialized

S: Terminates abnormally.

Action

Re-execute after correcting HiRDB identifier specified in the `pd_system_id` operand of the system common definition to the following HiRDB identifier:

- Identifier of HiRDB whose database was initialized

Or, execute the database initialization utility.

2. Messages

KFPH20003-E L

Server *aa....aa* initialization failes, function=*bb....bb*, return code=*cccc*

When server *aa....aa* was started, *bb....bb* resulted in error *cccc*.

aa....aa: Server name

bb....bb: Function resulting in the error

cccc: Return code

S: Terminates server processing.

O: Contact HiRDB administrator.

Action: Take action appropriate to the return code:

bb....bb	cccc	Action
malloc	—	There is insufficient process private area. Take the following actions to be sure more than enough memory is available: <ul style="list-style-type: none"> • Reduce the number of concurrently executing processes. • Increase the swap area. • Add real memory.
p_f_dbh_buf_defmk	-150	In the system common definition, the <code>pdbuffer</code> operand is invalid. Correct the <code>pdbuffer</code> operand.
	Other than the above	Refer to the message output before this message was output, eliminate the cause of the error, and then restart the server. If no message was output, contact a customer engineer.
p_f_dbh_hba_mmap_copy	-100	The process for acquiring HiRDB database environment information file from the running system failed. Refer to the message output to the running system, eliminate the cause of the error, and then restart the standby HiRDB. If no message was output, contact a customer engineer.
	-110 -120	The <code>rcp</code> command from the running system failed, a time-out occurred in the running HiRDB, or startup of the running system failed. Refer to the message output to the running system, eliminate the cause of the error, and then restart the standby HiRDB. If no message was output, contact a customer engineer.

bb...bb	cccc	Action
	-140	The <code>rsh</code> command to the running system failed. Set up the environment to enable execution of a remote shell, and then restart the standby HiRDB.
	Other than the above	Refer to the message output to the running system, eliminate the cause of the error, and then restart the standby HiRDB. If no message was output, contact a customer engineer.
p_f_dbh_dint_rblk_set	-160	<ul style="list-style-type: none"> • While the rapid system switchover facility was being used, the running HiRDB executed the database structure modification utility, but the standby HiRDB did not restart. Therefore, system switching failed. Restart the standby HiRDB. • While the standby less switchover facility was being used, the database structure modification utility was executed, but after the standby status of the alternate portion was cancelled, it did not return to standby status. Or, the database structure modification utility was executed during alternating, but the normal BES unit did not restart. Therefore, system switching failed. Normally terminate, and then restart HiRDB/Parallel Server.
	-161	<ul style="list-style-type: none"> • While the rapid system switchover facility was being used, the master directory RDAREA was updated, and then the dictionary server was independently normally terminated and restarted. However, system switchover failed because the standby HiRDB did not restart. • While the rapid system switchover facility was being used, the master dictionary RDAREA was updated, and then the dictionary server was independently normally terminated and restarted. However, after the standby status of the alternate portion was cancelled, it did not return to standby status. Or, the master directory RDAREA was updated during alternating, and then the dictionary server was independently normally terminated and restarted. However, system switchover failed because the normal BES unit did not restart. Normally terminate, and then restart HiRDB/Parallel Server.

2. Messages

bb...bb	cccc	Action
	-162	<ul style="list-style-type: none"> • While the rapid system switchover facility was being used, HiRDB system definition was modified, and then the running system server was independently normally terminated and restarted. However, system switchover failed because the standby HiRDB did not restart. Restart the standby HiRDB. • While the rapid system switchover facility was being used, HiRDB system definition was modified, and then the normal BES unit was independently normally terminated and restarted. However, after the standby status of the alternate portion was cancelled, it did not return to standby status. Or, HiRDB system definition was updated during alternating, and then the alternate BES unit was independently normally terminated and restarted. However, system switchover failed because the normal BES unit did not restart. Normally terminate, and then restart HiRDB/Parallel Server.
	Other than the above	Refer to the message output before this message was output, eliminate the cause of the error, and then restart HiRDB. If no message was output, contact a customer engineer.

bb...bb	cccc	Action
pdi_omm_mget	-143 -147	<p>(1) From the following server definitions, increase the value of the appropriate server specification.</p> <ul style="list-style-type: none"> • pd_sds_shmpool_size (single server definition) • pd_bes_shmpool_size (backend server definition) • pd_dic_shmpool_size (dictionary server definition) <p>(2) If the above definitions are omitted, specify the following system common definition values:</p> <ul style="list-style-type: none"> • pd_assurance_table_no operand At least 102 + the number of tables using the free space reusage facility* • pd_assurance_index_no operand Single server: (130 + number of defined indexes*) × 1.2 or more Parallel server: (number of defined indexes*) × 1.2 or more <p>* For details about the number of tables and the number of defined indexes, see the manual <i>HiRDB Version 8 System Definition</i>.</p>
Other than the above	Other than the above	Refer to the message output before this message was output, eliminate the cause of the error, and then restart the server. If no message was output, contact a customer engineer.
Other than the above	—	Refer to the message output before this message was output, eliminate the cause of the error, and then restart the server. If no message was output, contact a customer engineer.

KFPH20004-E L

Server *aa....aa* termination failed, function=*bb...bb*, return code=*cccc*

When server *aa....aa* was terminated, *bb...bb* resulted in error *cccc*.

aa....aa: Server name

bb...bb: Function resulting in the error

cccc: Return code

S: Terminates server termination processing.

O: Contact HiRDB administrator.

Action

Refer to the message that was output before this message to eliminate the cause of the error, then restart the server. If no message was output before this message, contact a customer engineer.

KFPH20005-E L

Failed to *aa...aa* 1st file in MASTER DIRECTORY, return code=*bbbb*

Processing *aa...aa* on the first HiRDB file in the master directory RDAREA failed.

aa...aa: Processing:

close: Close processing for the first file in the master directory RDAREA

open: Open processing for the first file in the master directory RDAREA

read: Loading from the first file in the master directory RDAREA

bbbb: Return code

S: Cancels HiRDB startup processing and terminates abnormally.

O: Contact HiRDB administrator.

Action

See *5.1 Error codes returned from HiRDB file system access requests*, eliminate the cause of the error, and then re-execute HiRDB.

KFPH20006-W L

Unable to use work HiRDB file system area, return code=*bbbb*,
HiRDB file system area name=*aa...aa*

HiRDB file system area *aa...aa* specified as a work table file cannot be used.

aa...aa: Name of HiRDB file system area

If the name of HiRDB file system area exceeds 117 characters, the last 117 characters of HiRDB file system area name are output.

bbbb: Return code

S: Resumes processing.

O: Contact HiRDB administrator.

Action

During execution of database initialization utility:

If the database initialization utility terminated normally, see *5.1 Error codes returned from HiRDB file system access requests*, eliminate the cause of the error, and then re-execute the database initialization utility.

During server startup:

See 5.1 *Error codes returned from HiRDB file system access requests*, eliminate the cause of the error, and then restart the server if necessary.

KFPH20007-W L

Work HiRDB file system area not specified expansion, HiRDB file system area name = *aa....aa*

Secondary allocation has not been specified for HiRDB file system area *aa....aa*, specified as a work table file.

aa....aa: Name of HiRDB file system area

If the name of HiRDB file system area exceeds 117 characters, the last 117 characters of HiRDB file system area name are output.

S: Resumes processing.

O: Contact HiRDB administrator.

Action

During execution of database initialization utility:

If the KFPA11959-E message is output during execution of the database initialization utility, specify a HiRDB file system area for which a secondary allocation is specified, then re-execute the database initialization utility.

During server startup:

Specify a HiRDB file system area for which a secondary allocation is specified, then restart the server if necessary.

KFPH20008-W L

No work HiRDB file system area

There is no HiRDB system file area available for a work table file.

S: Resumes processing.

O: Contact HiRDB administrator.

Action

During execution of database initialization utility:

- If the `pdwork` operand was not specified in the dictionary server definition or single server definition and the database initialization utility does not terminate normally, specify a HiRDB file system area and re-execute the database initialization utility.
- If the `pdwork` operand is specified in the dictionary server definition or single server definition and the database initialization utility does not terminate normally, refer to the KFPH20006-W message that was

output before this message to eliminate the cause of the error, then re-execute the database initialization utility.

During server startup:

- If the `pdwork` operand was not specified in the server definition, specify HiRDB file system area if necessary, then restart the server.
- If the `pdwork` operand is specified in the server definition, refer to the KFPH20006-W message that was output before this message to eliminate the cause of the error, then restart the server if necessary.

KFPH20009-W L

Duplicate work HiRDB file system area *aa...aa*

HiRDB file system area specified as a work table file has already been specified.

aa...aa: Name of the duplicate HiRDB file system area

If the name of HiRDB file system area exceeds 117 characters, the last 117 characters of HiRDB file system area name are output.

S: Ignores the name of HiRDB file system area that was specified more than once and resumes processing.

O: Contact HiRDB administrator.

Action

During execution of database initialization utility:

If the database initialization utility does not terminate normally, correct the name of HiRDB file system area for storing the work table in the `pdwork` operand of the dictionary server definition or single server definition so that it is not duplicated, then restart the database initialization utility.

During server startup:

Correct the name of HiRDB file system area for storing the work table in the `pdwork` operand of the server definition so that it is not duplicated, then restart the server.

KFPH20010-W L

Number of work HiRDB file system area exceeds 16

The number of HiRDB file system areas specified for work table files exceeds the maximum (16).

S: Ignores all but the first 16 HiRDB file system area names and resumes processing.

O: Contact HiRDB administrator.

Action

During execution of database initialization utility:

If the database initialization utility does not terminate normally, correct the number of HiRDB file system area names for storing work tables in the `pdwork` operand of the dictionary server definition or single server definition to 16 or less, then re-execute the database initialization utility.

During server startup:

Correct the number of HiRDB file system area names for storing work tables in the `pdwork` operand of the server definition to 16 or less, then restart the server.

KFPH20011-E L

Incompatible character code set for database, character code set=*aa....aa*, database initialize character code set=*bb....bb*

Character codes type *aa....aa* of the started file does not match character codes type *bb....bb* of the initialized HiRDB.

aa....aa: Character codes type of the started HiRDB:

bb....bb: Character codes type of the initialized HiRDB

CHINESE: EUC Chinese kanji codes

LANG-C: One-byte character codes

SJIS: Shift JIS codes

UJIS: EUC Japanese kanji code

UTF-8: Unicode

*****: Invalid character code

S: Terminates processing.

Action: In UNIX, this message may be output if `$PDDIR/lib` is not assigned in addition to the environment variable `SHLIB_PATH` (in Solaris or Linux, `LD_LIBRARY_PATH`; in AIX, `LIBPATH`). Revise the environment variable, and restart HiRDB.

For character codes type *aa....aa*:

Execute the Database Load Utility to regenerate the database.

For character codes type *bb....bb*:

In UNIX, re-execute the `pdsetup -c` command; in Windows, re-execute the `pdntenv -c` command.

If the activated HiRDB character code type *aa....aa* is *****:

An internal conflict was detected. Contact a customer engineer.

If the character code type *bb...bb* is *****:

Either the database is invalid or the master directory RDAREA is corrupted. Either re-create the database by executing the database initialization utility or, if the master directory RDAREA is corrupted, recover it by using the database recovery utility.

KFPH20012-E L

Incompatible HiRDB version for database, HiRDB version=*aaaaa*, database version=*bb...bb*

HiRDB indicated version is invalid.

- The version of HiRDB system that created the database is newer than the version of HiRDB system being used. Therefore, the database cannot be accessed.
- The database cannot be transferred from the version of HiRDB that created it to the version of HiRDB that is being used.

aaaaa: Version of HiRDB that was activated

bb...bb: Internal information that shows the database version

S:

Single-unit configuration using HiRDB/Single Server or HiRDB/Parallel Server:

Terminates abnormally with an abort code PsadsA8.

Multiple-unit configuration using HiRDB/Parallel Server:

The unit containing the dictionary server terminates abnormally with an abort code PsadsA8. Other units also are forced to terminate.

Action

Take one of the following actions:

- To make the database version equal to *aa...aa*, use the `pdstart -i` command to activate HiRDB system. After a KFPS05201-Q message is output, execute the Database Initialization Utility (`pdinit`).
- To use the database in version *bb...bb* of HiRDB, restore the old version of HiRDB (for details, see *HiRDB Version 8 Installation and Design Guide*).

KFPH20013-E L

Incompatible database format with HiRDB, database data model=64-bit, HiRDB data model=32-bit

- A database created by a 64-bit-mode HiRDB cannot be accessed by a 32-bit-mode HiRDB.
- You cannot migrate from a 64-bit-mode HiRDB to a 32-bit-mode HiRDB.

S: Terminates abnormally with abort code PsadsA8.

Action

Set HiRDB to the 64-bit mode. For the migration method, see *HiRDB Version 8 Installation and Design Guide*.

KFPH20015-I L

Copying HiRDB database environment information files necessary for server *aa....aa* initialization from online unit

HiRDB database environment information files necessary for server *aa....aa* initialization are being acquired from the executing unit.

aa....aa: Server name

S: Continues processing

KFPH20016-E E+L

Overflow Error occurred by size calculation of memory, server *aa....aa*

An overflow occurred during the calculation of memory size.

aa....aa: Server name (or ***** if the server name is unknown)

S: Terminates abnormally.

Action:

aa....aa is *****:

Revise the system definition so that the result of the I/O server algorithm for the shared memory algorithm used by the unit controller is less than $2^{31} - 1$ for the 32-bit mode, or less than $2^{63} - 1$ for the 64-bit mode. For I/O server algorithms, see *Shared memory algorithm used by unit controller in HiRDB memory requirements* in the manual *HiRDB Version 8 Installation and Design Guide*.

aa....aa is a server name:

Revise the system definition so that the result of the respective algorithm below is less than $2^{31} - 1$ for the 32-bit mode, or less than $2^{63} - 1$ for the 64-bit mode:

- HiRDB/Single Server: Shared memory algorithm used by a single server
- HiRDB/Parallel Server: Shared memory algorithm used by the server on which the error occurred

For the respective algorithm, see the manual *HiRDB Version 8 Installation and Design Guide*.

KFPH21001-E L

Error occurred at *aa....aa* code=*bbbb* on *cc....cc*

When server *cc....cc* was started, error *aa....aa* with code *bbbb* occurred.

aa....aa: Error detail:

```
{ Process Communication |Get Work Area
|Define pd_rdarea_list_no_wrn_pnt
|Get Control Area(rerun ctrl)
|Call hbuf_ucbint| Call adm_complete
|Call p_f_pls_call_by_timing
|Get Environment| Get Control Area| Get Log Area
|Init. SQA | Init. DBH | Init. DIC | Call plugin(start
process)
|Call plugin(terminate process) | Call adm_rerun_end }
```

bbbb: Error code (displays -1 when *aa....aa* is Define *pd_rdarea_list_no_wrn_pnt*)

cc....cc: Server name (if acquisition of the server failed, ******* is displayed)

S: Terminates server process activation processing.

O: Contact HiRDB administrator.

Action

Process Communication displayed as *aa....aa*:

See *4.1 Detail codes for RPC-related errors* in order to take appropriate action on the basis of the displayed code (*bbbb*).

aa....aa is Get Work Area or Get Log Area:

Increase the size of the process private area by one of the following methods, then re-execute:

- Reduce the number of processes that execute concurrently.
- Increase the swap size.
- Increase the real memory.

aa....aa is Define *pd_rdarea_list_no_wrn_pnt*:

Reset the *pd_rdarea_list_no_wrn_pnt* operand in the system definition to a value within the permissible range and restart HiRDB.

Other:

Refer to the message that was output before this message to eliminate the cause of the error, then restart the server. If no message was output, contact a customer engineer.

KFPH22001-E L

Invalid DIRECTORY data in RDAREA "*aa....aa*", reason code=*b*

A contradiction was detected in the RDAREA control information for RDAREA "*aa....aa*".

aa....aa: RDAREA name

b: Reason code

S: Terminates abnormally, shuts down the corresponding RDAREA, and invalidates the processing.

Action

Check this RDAREA for an operation error, recover the RDAREA, then re-execute the processing.

If Real Time SAN Replication with the log-only synchronous method is being used, refer to the manual *HiRDB Version 8 Disaster Recovery System Configuration and Operation Guide*, take corrective action, and perform system log application processing.

If there is no operation error, contact a customer engineer.

Reason code	Explanation
1 2 3 4	There is a contradiction in a segment of the corresponding RDAREA or the directory management pages.
5 6	Information in the directory for the corresponding RDAREA does not match the information in the master directory RDAREA.
7 8	A mismatch was detected in a LOB RDAREA.
9	There is an inconsistency in the directory that manages the segment of the applicable RDAREA.

KFPH22002-E L

Insufficient memory on PROCESS, size = *aa....aa*

A memory shortage occurred in the process private area.

aa....aa: Size (in bytes) of the area that was to be allocated

S: Terminates abnormally.

Action

Check the memory size estimate for an error, allocate adequate memory, and

re-execute.

KFPH22003-E L

HiRDB file "*aa...aa*" failed, return code=*bb...bb*, RDAREA="*cc...cc*",
file=*dd...dd*

"*aa...aa*" for HiRDB file *dd...dd* terminated with return code *bb...bb*.

aa...aa: HiRDB file system function:

{ open |close |lseek |read |write |fstat }

bb...bb: Return code

cc...cc: RDAREA name:

MASTER: Master directory RDAREA

dd...dd: *Name-of-HiRDB-file-system-area*\Name-of-HiRDB-file

If the path name of HiRDB file exceeds 122 characters, the last 122 characters of
HiRDB file path name are output.

S:

HiRDB file comprising the master directory RDAREA:

 Cancels processing.

Other HiRDB file:

 Shuts down the corresponding RDAREA and resumes processing.

Action

See *5.1 Error codes returned from HiRDB file system access requests*, eliminate
the cause of the error, and then re-execute. In the case of a master directory
RDAREA error, start HiRDB with the `pdstart -r` command and recover the
master directory RDAREA with the database recovery utility.

If Real Time SAN Replication with the log-only synchronous method is being
used, it is possible that the database structure modification utility (`pdmod`) was
executed on the transaction execution site. If that is the case, refer to the manual
HiRDB Version 8 Disaster Recovery System Configuration and Operation Guide,
take corrective action, and perform system log application processing.

KFPH22004-W L

aa...aa reserve Number *bb...bb* exceeds assurance Number *cc...cc*,
server=*dd...dd*

The *aa...aa* reserve number *bb...bb* exceeds the minimum value of *cc...cc*. The server
that generated it is *dd...dd*.

aa...aa: {Table | Index}

bb...bb: Reserve number of *aa...aa*

cc...cc: Specified value of `pd_assurance_table_no` operand or `pd_assurance_index_no` operand

dd...dd: Server name

S: Continues processing.

Action

After this message is output, if the server does not start due to a shared memory pool insufficiency, take the following action:

`shmpool_size` operand omitted:

Specify a value of *bb...bb* or higher in the `pd_assurance_table_no` operand or `pd_assurance_index_no` operand, and re-execute.

`shmpool_size` operand specified:

Increase the value assigned to the `shmpool_size` operand, and re-execute the UAP.

KFPH22005-E L

Number of *aa...aa* exceeds limit *bb...bb*, current=*cc...cc*, server=*dd...dd*

There are more entities (*cc...cc*) than the maximum (*bb...bb*) that was specified by the user in definition *aa...aa*. The name of the server is *dd...dd*.

aa...aa: Specified operand:

```
{ pd_max_rdarea_no |pd_max_file_no }
```

bb...bb: Maximum value specified in *aa...aa*

cc...cc: Number of entities

dd...dd: Server name

S: Cancels startup or recovery processing.

O: Contact HiRDB administrator.

Action

If the number of existing RDAREAs exceeds the maximum, increase the value of the `pd_max_rdarea_no` operand in the system common definition and re-execute (when the value of the `pd_max_rdarea_no` operand is increased, the size of the status file must be reviewed). If the number of existing RDAREA component files exceeds the maximum, increase the value of the `pd_max_file_no` operand in the system common definition.

KFPH22006-E L

UNIX file "*aa...aa*" failed, return code=*bb...bb*, file=*cc...cc*

2. Messages

"*aa...aa*" for internal work file *cc...cc* terminated with return code *bb...bb*.

aa...aa: HiRDB file system function:
{ open|close|lseek|read|write }

bb...bb: Return code

cc...cc: Name of the internal work file:

If the work file path name exceeds 131 characters, HiRDB directory name is changed to %PDDIR% for output.

S: Cancels processing.

Action

See *4.2 Detail codes for system-related errors* to eliminate the cause of the error, and re-execute. If the cause of the error cannot be identified, contact a customer engineer.

KFPH22007-E L

HiRDB System "*aa...aa*" failed, return code=*bb...bb*

Function "*aa...aa*" of the single server (HiRDB/Single Server) or system manager (HiRDB/Parallel Server) terminated with return code *bb...bb*.

aa...aa: HiRDB system facility

bb...bb: Return code

S: Cancels processing.

Action

See *4.2 Detail codes for system-related errors* to eliminate the cause of the error, and re-execute. If the cause of the error cannot be identified, contact a customer engineer.

KFPH22008-E L

SORT program error occurred, code=*aa...aa*

An error occurred during sorting.

aa...aa: Error code

S: Cancels processing.

O: Contact HiRDB administrator.

Action

Take corrective action according to the error code:

Error code	Action
-202	Memory shortage. Reduce the size of the work buffer specified in the sort operand.
-290	Size of the work buffer is insufficient. Reduce the size of the work buffer specified in the sort operand.
-210 and -230	An I/O error occurred. It is possible that the capacity of the sort work disk is insufficient. If there is a capacity shortage, specify a disk with large enough capacity in the sort operand, and execute the processing.

If the error cannot be resolved, acquire the `sortdump`, `SORTIODUMP`, and `SORTDMP2` that are output to `C:\Windows` (in UNIX, `/tmp` or `/usr/tmp`), and contact a customer engineer.

KFPH22009-E L

Unknown server name found in system, `server=aa....aa`,
`RDAREA="bb....bb"`

Server name `aa....aa` was not found in the server definition. The invalid server name was found in `RDAREA "bb....bb"`.

`aa....aa`: Server name

`bb....bb`: `RDAREA` name

S: Cancels processing

O: Contact HiRDB administrator.

Action

Correct the server type with the `pdstart -t` command in the system common definition.

KFPH22010-E L

System call error occurred, `func="aa....aa"`, `errno=bb....bb`

A system call error occurred.

`aa....aa`: System call name (**** is displayed if the system call cannot be identified)

`bb....bb`: Error code

S: If rerun or rollback was underway, resumes processing; otherwise, terminates abnormally.

Action

Refer to `errno.h` or the applicable OS manual to check the meaning of the error code, eliminate the cause of the error, then re-execute.

KFPH22011-E L

System call error occurred, func="system", cmd="*aa...aa*", code=*bb...bb*, inf="*cc...cc*"

A command executed by a system function resulted in an error.

aa...aa: Command name

bb...bb: Shell or command termination code

cc...cc: Command error output information

S: Terminates abnormally.

Action

Using the error output information and the shell or command termination code, refer to the OS documentation, resolve the error, and re-execute the command.

In Windows, if "****" is indicated in "*cc...cc*", resolve the error based on the contents of one of the following files, and re-execute the command:

- %PDDIR%\spool\pdrshs1.log
- %PDDIR%\spool\pdrshs2.log

KFPH22012-W L

Ignore number of *aa...aa*, assumed limit *bb...bb*, server=*cc...cc*

Operand *aa...aa* of HiRDB system definition was changed, but the previous specification value *bb...bb* has been assumed since HiRDB restarted. The target server is *cc...cc*.

aa...aa: Changed operand

{ pd_max_rdarea_no|pd_inner_replica_control }

bb...bb: Specification value before the operand was changed

cc...cc: HiRDB server name

S: Processing continues. The changed values of these operands take effect at the next HiRDB normal startup.

KFPH22013-E L

RPC "*aa...aa*" failed, return code=*bb...bb*, server=*cc...cc*

RPC function "*aa...aa*" issued from server *cc...cc* terminated with error code *bb...bb*.

aa...aa: RPC function

bb...bb: Error code

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 re-execute.

KFPH22014-E L

RDAREA "aa....aa" not found in dictionary server

RDAREA "aa....aa" that is required for the dictionary server cannot be found.

aa....aa: RDAREA name

masterdirectory: Master directory

datadirectory: Data directory

datadictionary: Data dictionary

S: Terminates abnormally.

Action

Specify the `pdstart` statement for defining the dictionary server in the system common definition so that it matches the correct configuration. If the RDAREA is damaged, recover the data and re-execute.

If Real Time SAN Replication with the log-only synchronous method is being used, refer to the manual *HiRDB Version 8 Disaster Recovery System Configuration and Operation Guide*, take corrective action, and perform system log application processing.

KFPH22015-E L

HiRDB file system area *aa....aa* not found, RDAREA="*bb....bb*"

HiRDB file system area *aa....aa* for RDAREA "*bb....bb*" cannot be found in the system.

aa....aa: Name of HiRDB file system area

If the path name of HiRDB file system area exceeds 117 characters, the last 117 characters of HiRDB file system area path name are output.

bb....bb: RDAREA name

S: Resumes processing.

Action

Create HiRDB file system area in which the error occurred in order to recover the RDAREA, then reopen the RDAREA.

If Real Time SAN Replication with the log-only synchronous method is being used, refer to the manual *HiRDB Version 8 Disaster Recovery System Configuration and Operation Guide*, take corrective action, and perform system

log application processing.

KFPH22016-E L

MASTER DIRECTORY RDAREA was already used

The master directory is already being used by another HiRDB system.

S: Terminates abnormally.

O: Contact HiRDB administrator.

Action

HiRDB systems that use the same name for the first HiRDB file in the master directory RDAREA of the system common definition cannot be started concurrently. Check the system common definitions and restart.

KFPH22017-I L

Table should be reorganized, RDAREA="*aa...aa*", AUTHID=*bb...bb*, TABLE=*cc...cc* because disordered LOB DIRECTORY

Management information items in the LOB RDAREA are disordered.

aa...aa: RDAREA name

bb...bb: Authorization identifier

cc...cc: Table identifier

S: Resumes processing.

Action

RDAREA is a user LOB RDAREA:

Because retrieval performance for the LOB data may deteriorate, reorganize the user LOB RDAREA whose name is displayed in the message.

RDAREA is a data dictionary LOB RDAREA:

Reorganize the dictionary table for the stored procedure and the stored function.

If affected RDAREA is a registry LOB RDAREA:

Reorganize the registry table.

KFPH22018-W L

Status file "*aa...aa*" failed, return code=*bb...bb*, server=*cc...cc*

"*aa...aa*" for the status file of server *cc...cc* terminated with return code *bb...bb*.

aa...aa: File access facility

{ alloc |dealloc |read |write }

bb...bb: Error code

cc....cc: Server identifier

S: Makes preliminary queries to the dictionary server about processing that uses the status file and resumes processing. Furthermore, because HiRDB queries the dictionary server, the performance of startup processing is less efficient than when the status file is used.

Action

Normalize the status file for future operation; see *4.2 Detail codes for system-related errors* to eliminate the cause of the error.

If the cause cannot be located, contact a customer engineer.

KFPH22019-I L

Information type=*aa....aa*, detail="*bb....bb*", code=*cc....cc*

An event of type *aa....aa*, detail "*bb....bb*", and return code *cc....cc* occurred.

aa....aa: Information type

bb....bb: Internal information

cc....cc: Internal code

S: Resumes processing because the error can be handled by the system.

KFPH22020-W L

Server *aa....aa* waiting until dictionary server start

Because the dictionary server is required for starting back-end server *aa....aa*, HiRDB system is waiting until the dictionary server is started.

aa....aa: Server identifier

S: Monitors the status of the dictionary server.

During dictionary server startup:

Resumes processing

When startup cannot be checked within the appropriate amount of time:

Resumes processing without checking dictionary server startup.

Action

- Start the dictionary server or a unit that contains the dictionary server.
- If a network error can be assumed, eliminate the cause of the error.

KFPH22021-W L

Number of index exceeds reserved number, current reserved number=*aa....aa*, server=*bb....bb*

The number of indexes defined has exceeded the reserved number. The currently

reserved number of indexes is *aa....aa*, and this condition occurred at server *bb....bb*.

aa....aa: Currently reserved number of indexes

bb....bb: Server name

S: Resumes processing. Once this message is output, the following operational benefits may not be obtained, depending on the index:

- Performance improvement realized by making index management information resident in memory
- Acquisition of statistical information on indexes
- Suppression of output of duplicated messages

Action

Take one of the following actions:

- If a `KFPH22004-W` or `KFPH22035-I` message is output when the target server is activated, take corrective action based on the message.
- If a `KFPH22004-W` or `KFPH22035-I` message is not output when the target server is activated, and if the three operational benefits shown in (S) are required, take the following action according to the specification given in the `pd_sysdef_default_option` operand, and then restart HiRDB:

- `pd_sysdef_default_option` operand omitted:

Specify a value greater than *aa....aa* (the currently reserved number of indexes) in the `pd_assurance_index_no` operand of the system common definition.

- Either `v6compatible` or `v7compatible` specified in the `pd_sysdef_default_option` operand:

If the number of indexes required between startup and termination of HiRDB is greater than 1.2 times the number of indexes available at HiRDB startup time, specify the number of indexes to be defined before HiRDB is started normally next time in the `pd_assurance_index_no` operand of the system common definition. If *aa....aa* (the currently reserved number of indexes) is already greater than the specification value in the `pd_assurance_index_no` operand, the number of indexes reserved represents an automatically increased value; if that is the case, specify a value greater than *aa....aa* (the currently reserved number of indexes) in the `pd_assurance_index_no` operand.

KFPH22022-E L

`RDAREA` information build failed, reason code=Time out.

Time-out occurred when information for the `RDAREA` was being logged in startup

processing for the back-end server.

The logging of RDAREA information is taking time either because the dictionary server is not activated or the dictionary server has a high load.

S: Terminates abnormally.

Action

Take one of the following actions:

- If the dictionary server is not activated, activate the dictionary server, and then activate this server.
- If the dictionary server has a high load, activate this server after the load on the dictionary server has declined.

KFPH22023-W L

Using resource for "*aa....aa*" reached *bb...bb%*, *cc....cc*
bb...bb% of "*aa....aa*" is now in use.

aa....aa: Resource type:

rdarea-list-no

Number of lists that can be created at a server

bb...bb: Warning value percentage

cc....cc: Additional information

This *information* is output in the following format:

number-of-lists-created-at-server /

number-of-lists-that-can-be-created-at-server, server=server-name

S: Continues processing.

Action

Delete unneeded lists or add a list RDAREA.

KFPH22024-I L

Extension completed in RDAREA "*aa....aa*", FILE "*bb...bb*", *cccc* (*dd....dd*)
segments created

The size of HiRDB file "*bb...bb*" in RDAREA "*aa....aa*" has been increased by *cccc*
segments. The total number of segments is *dd....dd*.

aa....aa: RDAREA name

bb...bb: *Name-of-HiRDB-file-system-area\Name-of-HiRDB-file*

If the path name of HiRDB file exceeds 112 characters, the last 112 characters of
HiRDB file path name are output.

2. Messages

cccc: Number of added segments

dd...dd: Total number of segments

S: Continues processing.

KFPH22025-E L

Error occurred while Extension, RDAREA "*aa...aa*", FILE "*bb...bb*", reason code *cccc*

An error occurred while automatically extending HiRBD file "*bb...bb*" in RDAREA "*aa...aa*". The reason code is *cccc*.

aa...aa: RDAREA name

bb...bb: *Name-of-HiRDB-file-system-area\Name-of-HiRDB-file*

If the path name of HiRDB file exceeds 121 characters, the last 121 characters of HiRDB file path name are output.

cccc: Reason code

S: Continues processing.

Action

Take one of the following actions:

Reason code 303:

If the database recovery utility was executed, execute it again.

If the database recovery utility was not executed, continue the transaction without change.

If the KFPH22025-E message is output repeatedly, contact a customer engineer.

Reason code other than above:

See *5.1 Error codes returned from HiRDB file system access requests* and eliminate the cause of the error.

KFPH22026-E L

Auto extend function suppressed, RDAREA "*aa...aa*", FILE "*bb...bb*", reason code *cccc*

The automatic extension function for HiRDB file "*bb...bb*" in RDAREA "*aa...aa*" was suppressed. The reason code is *cccc*.

aa...aa: RDAREA name

bb...bb: *Name-of-HiRDB-file-system-area\Name-of-HiRDB-file*

If the path name of HiRDB file exceeds 119 characters, the last 119 characters of HiRDB file path name are output.

cccc: Reason code

S: The automatic extension function for the applicable RDAREA is suppressed until one of the following triggers:

- HiRDB activation
- Execution of a command to release RDAREA shutdown
- Execution of a command to open the RDAREA
- Execution of the database structure modification utility for reinitialization or extension of the RDAREA

Action

Correct the error by referring to the error code and release suppression of the RDAREA automatic extension function.

Reason code	Action
-1556	Take one of the following actions: <ul style="list-style-type: none"> • Combine the extents of the HiRDB file system areas containing the HiRDB file in question. • Use the database structure modification utility to expand the RDAREA. If Real Time SAN Replication with the log-only synchronous method is being used, also perform system log application processing.
1	Execute the <code>pdrels</code> command on the RDAREA.
303	If the database recovery utility was executed, execute it again. If the database recovery utility was not executed, reset the suppression state of the RDAREA automatic extension facility, and continue the transaction without change. If the <code>KFPH22026-E</code> message is output repeatedly, contact a customer engineer.
Other	Refer to <i>5.1 Error codes returned from HiRDB file system access requests</i> to resolve the error.

KFPH22027-E L

Number of *aa....aa* exceeds limit *bb....bb*, current=*cc....cc*, server=*dd....dd*

The number of inner replica groups exceeds value *bb....bb* specified by operand *aa....aa* in the system definition. The number of inner replica groups is *cc....cc*, and the source HiRDB server is *dd....dd*.

aa....aa: Name of operand in HiRDB system definition

- `pd_inner_replica_control`

bb....bb: Value of operand *aa....aa*

cc....cc: Number of current inner replica groups

dd....dd: HiRDB server name

S: Stops HiRDB startup process.

O: Contact HiRDB administrator.

Action

Specify a value greater than or equal to the current number of inner replica groups in the `d_inner_replica_control` operand.

If Real Time SAN Replication with the log-only synchronous method is being used, start HiRDB after taking all of the following actions:

1. Reset the definition provided in *Designing system definitions* in the manual *HiRDB Version 8 Disaster Recovery System Configuration and Operation Guide* and in the `pd_inner_replica_control` operand to the definition information previously used by the system, and then start HiRDB.
2. Delete all the replica RDAREAs defined in HiRDB, and then stop HiRDB normally.
3. For details about using Real Time SAN Replication with the log-only synchronous method, refer to the manual *HiRDB Version 8 Disaster Recovery System Configuration and Operation Guide*.

KFPH22028-E L

Staticizer Option required

HiRDB Staticizer Option is required to use the inner replica facility.

S: Terminates processing.

Action

Install HiRDB Staticizer Option to use the inner replica facility.

KFPH22029-E L

RDAREA *aa....aa* last file freezed, file=*bb....bb* fileNO=*cc*

An automatic extension of the RDAREA could not be specified because the final HiRDB file *bb....bb* in RDAREA *aa....aa*, file number *cc....cc* is in frozen update status.

aa....aa: RDAREA name

bb....bb: *Name-of-HiRDB-file-system-area\Name-of-HiRDB-file*

If the path name of HiRDB file exceeds 131 characters, the last 131 characters of HiRDB file path name are output.

cc: HiRDB file number

S: Terminates processing.

Action

Extend the RDAREA to increase capacity.

If Real Time SAN Replication with the log-only synchronous method is being used, also perform system log application processing.

KFPH22030-W L

Number of table exceeds reserved number, current reserved number=*aa....aa*, server=*bb....bb*, RDAREA="*cc....cc*", AUTHID="*dd....dd*", TABLE="*ee....ee*"

The number of defined tables exceeded the number of reserved tables while processing table "*ee....ee*" with authorization identifier "*dd....dd*" for RDAREA "*cc....cc*" on server *bb....bb*.

After this error message is output, the free space reusage facility may not be effective on some tables.

aa....aa: Current number of reserved tables

bb....bb: Server name

cc....cc: RDAREA name

dd....dd: Authorization identifier

ee....ee: Table name

S: Continues processing.

Action

Take one of the following actions:

- Specify `SEGMENT REUSE NO` in the `ALTER TABLE` statement to stop the reuse of free space for tables in the free space reusage facility table that do not require the reuse of free space.
- If a `KFPH22004-W` or `KFPH22035-I` message is output when the target server is activated, take corrective action based on the message.
- If a `KFPH22004-W` or `KFPH22035-I` message is not output when the target server is activated, terminate HiRDB, change the value specified in the `pd_assurance_table_no` operand to a value greater than *aa....aa* (the currently reserved number of tables), and then restart HiRDB.

KFPH22031-W L

No reuse area, RDAREA="*aa....aa*", AUTHID="*bb....bb*", TABLE="*cc....cc*"

The user executed the free space reusage facility in table "*cc....cc*" using authorization identifier "*bb....bb*" in RDAREA "*aa....aa*", but no free space was found.

aa....aa: RDAREA name

bb....bb: Authorization identifier

cc....cc: Table name

S: Continues processing.

P: Take one of the following actions:

- Execute the `DELETE` command to create free space.
- Redefine the segment count by specifying `SEGMENT REUSE` in the `ALTER TABLE` statement.
- Stop reuse of free space by specifying `SEGMENT REUSE NO` in the `ALTER TABLE` statement.

KFPH22032-W L+S

Processing of SQL skipped, tableID=*aa....aa*, generation number=*bb*, server=*cc....cc*

Definition update processing was skipped because all RDAREAs to be processed in generation number *bb*, server *cc....cc* are command held and are in closed status.

aa....aa: Number of the target table for definition SQL, or the number of the table with a defined target index in definition SQL

Asterisks (`*****`) indicate a table definition (`CREATE TABLE`).

bb: Generation number

cc....cc: Server name

S: Continues processing.

Action

When a definition SQL terminates normally, reduplicate the RDAREA that the definition SQL update process skipped from the generation containing the original RDAREA (generation number 0), or reduplicate from the generation containing the current RDAREA.

KFPH22033-E L

Not available without specification of *aa....aa* operand

If a shared RDAREA is used, specify `Y` for the *aa....aa* operand.

aa....aa: `pd_shared_rdarea_use`

S: Interrupts start processing.

O: Contact HiRDB administrator.

Action

Specify `Y` in the system common definition `pd_shared_rdarea_use` operand, and re-execute.

KFPH22034-I L

Table status set to check pending status, tableID=*aa....aa*,
RDAREA="*bb....bb*", constraint type=*cccccc*

Table *aa....aa* stored in RDAREA "*bb....bb*" was placed in check pending status.

aa....aa: Table number of the table that was placed in check pending status

bb....bb: Name of the RDAREA storing the table that was placed in check pending status

cccccc: Type of constraint defined in the table that was placed in check pending status

REF: Reference constraint

CHK: Check constraint

REF, CHK: Reference and check constraints

S: Continues processing.

KFPH22035-I L

aa....aa reserve Number *bb....bb* exceeds assurance Number *cc....cc*,
server=*dd....dd*

aa....aa reserve number *bb....bb* exceeds minimum assurance number *cc....cc*. The server generating this error is *dd....dd*.

aa....aa: {Table | Index}

bb....bb: *aa....aa* reserve number

cc....cc: Specification value in the `pd_assurance_table_no` or `pd_assurance_index_no` operand

dd....dd: Server name

S: Continues processing.

Action:

If *aa....aa* is Table:

If the currently defined number of tables is less than or equal to the number of tables reserved, table management information can be made resident in memory; therefore, the free space reuse facility can be used.

If the currently defined number of tables is greater than the number of tables reserved, HiRDB can continue normal operations. However, in this case, the free space reuse facility cannot be used.

To use the free space reuse facility, increase the value specified for the `pd_assurance_table_no` operand in the system common definition to a value greater than *bb....bb*, and start HiRDB normally.

If *aa....aa* is Index:

If the currently defined number of indexes is less than or equal to the number of indexes reserved, index management information is made resident in memory; therefore, the following operational benefits can be expected:

- Improved performance by making index management information resident in memory
- Acquisition of index-related statistical information
- Suppression of duplicate output of messages

If the currently defined number of indexes is greater than the number of indexes reserved, HiRDB can continue normal operations. However, in this case, the operational benefits listed above cannot be expected.

To use the free space reuse facility, increase the value specified for the `pd_assurance_index_no` operand in the system common definition to a value greater than *bb....bb*, and start HiRDB normally.

KFPH23001-E L

No "pdbuffer" statements

The `pdbuffer` operand is missing in the system common definition.

S: Terminates abnormally.

Action

Add the `pdbuffer` operand to the system common definition.

KFPH23002-E L

Invalid "pdbuffer" statement due to *aa....aa bb....bb*

Invalid `pdbuffer` operand was detected.

aa....aa: Cause of error:

duplicate buffer pool name: Buffer pool name is duplicated.

duplicate RDAREA: RDAREA is duplicated.

invalid index name: Index name is invalid.

invalid RDAREA name: The RDAREA name is invalid.

bb....bb: RDAREA name, index name, or buffer pool name

S: Terminates abnormally.

Action

Revise the `pdbuffer` operand in the system common definition, and restart HiRDB.

KFPH23003-E L

Insufficient memory on PROCESS, size=*aa...aa*

A memory shortage occurred in the process private area during server startup.

aa...aa: Size (in bytes) of area that was to be allocated

S: Terminates abnormally.

Action

Re-evaluate the number of processes, etc., and restart HiRDB.

KFPH23004-E L

Insufficient memory on DYNAMIC_SHMPOOL for global buffer pool, size=*aa...aa*

There is not enough shared memory to use a global buffer pool.

aa...aa: Size (in bytes) of area that was to be allocated

S: Terminates abnormally.

Action

Refer to `system call=shmget,errno=12,mnemonic=ENOMEM` in *4.3 System call return codes* to investigate and resolve the error, and take corrective action.

KFPH23005-E L

Failed to allocate global buffer pool, `errno=aa`

Allocation of global buffer failed.

aa: Error code:

4: Shared memory page fixing failed.

8: Internal HiRDB resource shortage occurred.

16: Number of shared memory segments exceeded the maximum.

20: Memory shortage occurred.

24: Shared memory segment size exceeded the maximum.

28: Number of global buffers exceeded the maximum.

32: Overflow occurred during calculation of shared memory size.

36: Number of shared memory identifiers exceeded the maximum.

S: *Terminates* abnormally.

Action

Take action appropriate to the error code:

4: Shortage occurred in the real memory for page-fixing shared memory

segments.

Refer to the event log (in UNIX, syslogfile) of the server on which the error occurred, and take either of the following actions:

- KFPO00107-E "shmctl(ommfixed) failed errno=1" is output

- UNIX version:

A command in \$PDDIR/bin may have unexpectedly changed mode. Use the `pdsetup -d` command to remove HiRDB from the operating system, and then re-execute the `pdsetup` command.

- Windows version:

A command in %PDDIR%\bin may have unexpectedly changed mode. Refer to related messages, resolve the error, and then restart HiRDB.

- KFPO00107-E "shmctl(ommfixed) failed errno=12" is output

If shared memory segments are to be page-fixed, take either of the following actions:

- Increase the real memory
- Reduce the size of the shared memory by decreasing the number of global buffers or the number of buffer sectors defined in the server where the error occurred

In UNIX, if shared memory segments need not be page-fixed, specify `pd_dbbuff_attribute=free`.

8: HiRDB can manage up to 16 shared memory segments, but this maximum has been exceeded. Take one of the following actions:

- Increase the value specified for the SHMMAX operand in the system common definition or unit control information definition.

In UNIX, use the `sam` command in the OS to set the value of the `shmmax` parameter to a value greater than or equal to the specified value for the SHMMAX operand. After modifying `shmmax`, the operating system has to be rebooted.

- Reduce the number of shared memory segments to no more than 16 by decreasing the number of global buffers or buffer sectors defined in the server where the error occurred.

16: Use the `sam` command in the operating system to increase the `shmseg` value in the operating system parameters (kernel parameters) in the operating system. After modifying `shmseg`, the operating system has to be rebooted.

20: Refer to `system call=shmget, errno=12, mnemonic=ENOMEM` in 4.3 *System call return codes* to investigate and resolve the error, and take corrective

action.

24: Take either of the following actions:

- UNIX version:

Either the shared memory size for global buffers exceeded the specified `shmmax` value in the operating system parameters in the operating system or it exceeded the specified `SHMMAX` operand value in the system definition. Set the specified `shmmax` value or the specified `SHMMAX` operand value in the system definition to a value greater than or equal to the estimated memory size for global buffers. The `sam` command in the operating system can be used to modify the specified `shmmax` value. After modifying `shmmax`, the operating system has to be rebooted.

- Windows version:

The memory size for global buffers exceeded the specified `SHMMAX` operand value in the system definition. Set the specified `SHMMAX` operand value in the system definition to a value greater than or equal to the estimated memory size for global buffers. If this memory size did not exceed the specified `SHMMAX` operand value, the work file in `HiRDB` installation directory may have been deleted while `HiRDB` was operating. In this case, restart `HiRDB` service.

28: The upper limit on the number of global buffers that can be defined on a server was exceeded. Reduce the number of global buffers defined on this server.

32: Take the following action:

- For 32-bit mode:

Overflow occurred during calculation of the shared memory size; reduce the shared memory size to no more than $2^{31} - 1$ by decreasing the number of global buffers or the number of buffer sectors defined in the server where the error occurred.

- For 64-bit mode:

Overflow occurred during calculation of the shared memory size; reduce the shared memory size to no more than $2^{63} - 1$ by decreasing the number of global buffers or the number of buffer sectors defined in the server where the error occurred.

36: Refer to `system call=shmget, errno=28, mnemonic=ENOSPC` in 4.3 *System call return codes* to investigate the cause of the error, and take corrective action.

KFPH23006-E L

Failed to allocate semaphore, `errno=aa....aa`

Allocation of a semaphore resource failed.

aa....aa: Error cause code:

4: The semaphore count per semaphore identifier exceeded the maximum value of the system.

8: The number of semaphores used by the entire system or the number of semaphore identifiers exceeded the maximum value of the system.

S: Terminates abnormally.

Action

Take the following action according to the error cause code:

4: Set the maximum semaphore count (in Solaris, `seminfo_semmsl`; in Linux, `SEMMSL`) per semaphore identifier in the operating system parameters to 64 or more.

8: Take one of the following actions:

- Increase the maximum semaphore count in the system (in HP-UX, `semmns`; in Solaris, `seminfo_semmns`; and in Linux, `SEMMS`).
- Increase the maximum semaphore identifier count (in HP-UX, `semmni`; in Solaris, `seminfo_semmni`; in Linux, `SEMNI`; and in Windows, `PDUXPLSEMMAX`).
- Decrease the specified count of the `pdbuffer` operand.
- Decrease the value of the `pd_max_users` operand.

KFPH23007-E L

File *aa....aa* *bb...bb* error

File access failed.

aa....aa: File name

The file name is displayed by the absolute path. If it exceeds 159 characters, the last 159 characters of the file path name are output.

bb...bb: File access function:

`close`: Close file

`create`: Create file

`open`: Open file

`read`: Read file

`write`: Write to file

S: Terminates abnormally.

Action

Take action appropriate to the KFPO00107-E message that was issued immediately before this message.

KFPH23008-W L

No file "pdbufenv"

The pdbufenv file that was created during single server (HiRDB/Single Server) or dictionary server (HiRDB/Parallel Server) startup was not found.

S: Resumes processing.

Action

The system creates the corresponding file according to the pdbufenv operand specification. Therefore, if the buffer structure is different from the previous session and the specification is made so that a buffer is not allocated to the RDAREA subject to recovery during restart, the corresponding RDAREA will be placed on shutdown status. In such a case, recover the RDAREA with the database recovery utility.

KFPH23009-E L

System call error func=*aa....aa*, errno=*bb....bb*

A system call error occurred.

aa....aa: Name of system call

bb....bb: Error number set in errno

S: Terminates abnormally.

Action

Check the meaning of the errno (external integer function indicating the error status), refer to `errno.h` or the applicable OS manual to eliminate the cause of the error, then restart HiRDB.

KFPH23010-E L

Insufficient memory on PROCESS for work I/O buffer, size=*aa....aa*

Buffer for batch I/O cannot be allocated due to a shortage in the process private area.

aa....aa: Size (in bytes) of area that was to be allocated

S: Terminates processing.

Action

Reduce the number of batch I/O pages and re-execute the database load utility or database reorganization utility.

KFPH23011-W L

Invalid SHMMAX statement due to *aa....aa bb....bb*

The SHMMAX operand is invalid in the system common definition or unit control information definition.

aa....aa: Cause of error:

out of range: Specified value is outside the permitted range.

no value: Specified value is not a numeric value.

bb....bb: Specified value (up to the first 30 characters)

S: Resumes processing assuming the maximum segment size (6 MB) for the shared memory.

Action

If the sum of the sizes of global buffer pools in the server exceeds 6 MB, multiple shared memory segments are allocated, thereby reducing throughput. Correct the SHMMAX operand.

KFPH23012-E L

No necessary option for "pdbuffer" *aa....aa*

A required option is missing in the pdbuffer operand specification.

aa....aa: Name of required option

S: Terminates abnormally.

Action

Specify the required option and restart HiRDB.

KFPH23013-W L

Failed to allocate index buffer pool *aa....aa* due to DATA DICTIONARY search failed SQLCODE=*bbbb*

A global buffer pool dedicated to indexes cannot be allocated because dictionary retrieval failed.

aa....aa: Name of buffer pool

bbbb: SQL code

S: Resumes processing without creating a global buffer pool dedicated to indexes. If a buffer pool has been defined for index RDAREAs, uses that buffer pool. If there is no such buffer pool definition but a buffer pool has been defined for OTHER (pdbuffer -o specification), uses the defined buffer pool.

Action

If the global buffer pool dedicated to indexes is necessary, take action appropriate to the SQL message issued immediately before this message and restart HiRDB.

KFPH23014-W L

Failed to allocate index buffer pool *aa...aa* due to no index *bb...bb*

A global buffer pool dedicated to indexes cannot be allocated, because the index specified in the `pdbuffer` operand was not found.

aa...aa: Name of buffer pool

bb...bb: Name of index

S: Resumes processing without creating a global buffer pool dedicated to indexes. If a buffer pool has been defined for index RDAREAs, uses that buffer pool. If there is no such buffer pool definition but a buffer pool has been defined for OTHER (`pdbuffer -o` specification), uses the defined buffer pool.

Action

If the specified index has been deleted, delete the corresponding definition from the `pdbuffer` operand. If the specified index name is invalid, correct the `pdbuffer` operand specification and restart HiRDB.

KFPH23015-E L

System error, func "*aa...aa*", code=*bbbbbb*

A HiRDB function error occurred.

aa...aa: Function name

bbbbbb: Error code

S: Terminates abnormally.

Action

From the event log (in UNIX, `syslogfile`) or the message log file, determine if any messages were output before or after this message. If any other messages were output, take action according to those messages. If there are no other messages, find *bbbbbb* in *4.2 Detail codes for system-related errors*, eliminate the cause of the error, and then restart HiRDB. If you cannot determine the cause of the error, contact a customer engineer.

KFPH23016-E L

Invalid "`pdbuffer`" statement due to operand combination error, global buffer pool name=*aa...aa*

Contradictory operands were specified in the `pdbuffer` statement.

aa...aa: Name of buffer pool

S: Terminates abnormally.

Action

Mutually exclusive options (`-r`, `-i`, `-o`) were specified in a `pdbuffer` operand

specified in the system common definition. Correct the specification so that the `-r`, `-i`, and `-o` options are specified in a different `pdbuffer` operand.

KFPH23017-W L

Invalid "pdbuffer" statement due to no RDAREA *aa...aa*

The RDAREA specified with the `-r` in the `pdbuffer` operand cannot be found in HiRDB system.

aa...aa: RDAREA name

S: Resumes processing.

Action

Correct the `pdbuffer` operand in the system common definition.

KFPH23018-W L

Failed to allocate global buffer pool *aa...aa* due to page size exceeds buffer size for RDAREA *bb...bb*

System could not allocate a global buffer pool, because the RDAREA page size was greater than the global buffer size.

aa...aa: Global buffer pool name

bb...bb: RDAREA name

S: Resumes processing without allocating a global buffer pool for this RDAREA.

O: To access this RDAREA, either increase the buffer size specified in the `-l` option of the `pdbuffer` statement in the system common definition or delete the `-l` option, then restart HiRDB.

KFPH23020-E E

Failed to allocate LOB buffer pool *aa...aa* due to invalid RDAREA type *bb...bb*

A LOB global buffer is not allocated to areas other than the LOB RDAREA.

aa...aa: Name of the global buffer pool

bb...bb: RDAREA name

S: Terminates abnormally.

Action

Specify the LOB RDAREA in the `pdbuffer` operand of the system common definition.

KFPH23021-E L

Unmatched global buffer definition(`standby=aa...aa`, `current=bb...bb`)

The global buffer definitions in the standby system and running system do not match.

This error message is output when all of the following conditions are met:

- The running global buffer definition was modified when the standby system was in standby status.
- After independently stopping, and then restarting the running system, the running system was switched over to the standby system without restarting.

aa....aa: Maintenance information 1

bb....bb: Maintenance information 2

S: Abnormally terminates.

Action

Restart HiRDB.

KFPH23022-E L

Global buffer pool undefined in standby server, RDAREA="*aa....aa*"
standby unit=*bbbb* standby server=*cc....cc*

No global buffers were defined in the RDAREA in the alternate BES.

aa....aa: RDAREA name

bbbb: Unit identifier of the alternate BES unit

cc....cc: Alternate BES name

S: Abnormally terminates.

Action

Allocate the global buffer that the alternate BES uses by specifying the *-c* option or *-o* option of the *pdbuffer* operand. Then, restart HiRDB.

KFPH23023-I L

Unit is down because *pd_db_io_error_action=unitdown*

When *unitdown* is specified in the *pd_db_io_error_action* operand, HiRDB (unit for HiRDB/Parallel Server) abnormally terminates because an RDAREA I/O error occurred.

S: Abnormally terminates.

Action

See error messages KFPH22003-E or KFPH23100-E just recently output and eliminate the cause of the I/O error.

KFPH23024-I L

pd_db_io_error_action=unitdown is ineffective

When *unitdown* is specified in the *pd_db_io_error_action* operand, the error shutdown process is performed on the RDAREA because HiRDB (unit for HiRDB/

Parallel Server) abnormally terminated and another I/O error was issued.

S: Continues processing.

KFPH23025-E L

Insufficient memory on PROCESS for work I/O buffer, size=*aa...aa*

No local buffers for random access could be secured due to insufficient process private area.

aa...aa: Area size attempted to be secured (in kilobytes).

S: Terminates processing.

Action

Reduce the number of buffer sectors for local buffers for random access, and then re-execute `pdload` or `pdrorg`.

KFPH23026-E L

Insufficient memory on PROCESS, size=*aa...aa*

There was insufficient process private area when creating the local buffer environment.

aa...aa: Area size attempted to be secured (in kilobytes).

S: Terminates processing.

Action

Re-evaluate the process count and other values, and then re-execute `pdload` or `pdrorg`.

KFPH23027-W L

Undefined global buffer pool with '-c' option, RDAREA="*aa...aa*"

A global buffer pool with the -c option specification has not been defined.

aa...aa: RDAREA name

S: The RDAREA is placed in closed status, and processing continues.

Action

RDAREAs of units for which the standby-less system switchover (effects distributed) facility applies must have a global buffer assigned with the -c option specified. Specify the -c option with the system common definition `pdbuffer` operand, and assign global buffers to unallocated RDAREAs.

KFPH23028-W L

Too small '-o' option global buffer size, added

RDAREA="*aa...aa*", global buffer size=*bbbb*, page size=*cccc*

The buffer size *bbbb* of the global buffer specified with the -o option is smaller than

the page length *cccc* of the added RDAREA "*aa....aa*".

aa....aa: RDAREA name

bbbb: Buffer size of global buffer

cccc: Page length of added RDAREA

S: Continues processing.

O: If the global buffer was assigned to RDAREA "*aa....aa*" specifying the `-o` option, use the `pdstop` command to perform a normal termination or a planned termination of HiRDB, restart HiRDB, and assign the global buffer. If the `pdstop -u` command is used to terminate the unit, which is then restarted and the global buffers assigned, the buffer size of the global buffers will be different from that of other units specified with the `-o` option, which may cause the RDAREA to shut down during system switchover.

KFPH23029-E L

Number of "pdbuffer" statements exceeds the limit

The number of `pdbuffer` system definitions exceeded the upper limit.

S: Terminates abnormally.

Action: The upper limit on the number of `pdbuffer` system definitions is 2,000,000 for HiRDB/Single Server, and 2,147,483,647 for HiRDB/Parallel Server. Reduce the number of `pdbuffer` system common definitions, and restart HiRDB.

KFPH23030-I L

Dynamic update of global buffer information, (additional `poolno=aaaaa`, additional `shmno=bbbb`)

Displays information about the dynamic modification of global buffers.

aaaaa: Number of global buffer pools that can be added

bbbb: Number of shared memory segments that can be added

S: Continues processing.

KFPH23031-E L

The definition related to global buffer pool is disagreement, last time=*aa....aa* this time=*bb...bb*, `errno=cc`

HiRDB could not be restarted after the following operations:

- Adding a global buffer using the `pdbuffer` operand
- Reducing the value of the `pd_max_add_dbbuff_no` operand
- Reducing the value of the `pd_max_add_dbbuff_shm_no` operand

aa....aa: Information about the previous operation

For each error code, server-specific information about the previous operation is displayed.

4: Sum of the number of global buffers and the number of global buffers that can be added dynamically

8: Sum of the number of index global buffers and the number of global buffers that can be added dynamically

16: Number of shared memory segments that can be added

bb...bb: Information about the current operation

For each error code, server-specific information about the current operation is displayed.

4: Sum of the number of global buffers and the number of global buffers that can be added dynamically

8: Sum of the number of index global buffers and the number of global buffers that can be added dynamically

16: Number of shared memory segments that can be added

cc: Error code

S: Terminates abnormally.

Action: Take action appropriate to the error code:

Error code	Action
4	Either the <code>pdbuffer</code> operand was added or the value of the <code>pd_max_add_dbbuff_no</code> operand was reduced. Reset the <code>pdbuffer</code> and <code>pd_max_add_dbbuff_no</code> operands to their previous values, and then restart HiRDB.
8	Either the <code>pdbuffer -i</code> operand was added or the value of the <code>pd_max_add_dbbuff_no</code> operand was reduced. Reset the <code>pdbuffer-i</code> and <code>pd_max_add_dbbuff_no</code> operands to their previous values, and then restart HiRDB.
16	The value of the <code>pd_max_add_dbbuff_no</code> or the <code>pd_max_add_dbbuff_shm_no</code> operand was reduced. Reset the <code>pd_max_add_dbbuff_no</code> and <code>pd_max_add_dbbuff_shm_no</code> operands to their previous values, and then restart HiRDB.

KFPH23032-E L

Overflow error occurred by size calculation of memory

An overflow occurred during memory size calculation.

S: Terminates abnormally.

Action:

- 32-bit mode:
Reduce the number of global buffers specified in the system common definition so that the memory size is less than $2^{31} - 1$.
- 64-bit mode:
Reduce the number of global buffers specified in the system common definition so that the memory size is less than $2^{63} - 1$.

KFPH23033-E L

Status file allocation failed due to exceed the allocate limit size, server=*aa....aa*, key=*bbbb*, size=*cc....cc*

The size of data to be stored in the status file exceeded 2,147,483,647 bytes; on server *aa....aa*, allocation of status file records failed.

aa....aa: Server identifier

bbbb: Maintenance information

cc....cc: Allocation data size

S: Terminates abnormally.

Action: Change the specified values so that the result of the following formula does not exceed 2,147,483,647:

$$(16 + (\uparrow(\uparrow(A \pm 8)\uparrow \pm 8)\uparrow) \times 8) \times (B + C)$$

A: Value specified for the `pd_max_rdarea_no` operand of the system common definition

B: Number of index global buffers defined on the server

C: Value specified for the `pd_max_add_dbbuff_no` operand in the server definition

KFPH23034-E L

Unable to execute dynamic update of global buffer due to use rapid or standby less system switchover facility

The dynamic update of global buffer facility cannot be used because either the rapid system switchover facility or the standby-less system switchover facility is being used.

S: Terminates abnormally.

Action: Either omit the `pd_dbbuff_modify` operand from the system common definition or specify *N*, and restart HiRDB.

KFPH23035-I L

Update page cache limit available, server name=*aa....aa*,
limit=*bb....bb*

2. Messages

The update buffer volume suppression facility was enabled.

aa....aa: Server name

bb....bb: Upper limit on the total number of update buffers on this server

S: Continues processing.

KFPH23036-I L

Update page cache limit unavailable, server name=*aa....aa*

The update buffer volume suppression facility was disabled.

aa....aa: Server name

S: Continues processing.

KFPH23037-I L

Changed update page cache limit, server name=*aa....aa*, limit=*bb....bb*

The upper limit on the total number of update buffers was changed.

aa....aa: Server name

bb....bb: Upper limit on the total number of update buffers on this server

S: Continues processing.

KFPH23038-E L

Number of commit write use pdreclaim exceeded

"pd_max_commit_write_reclaim_no" server name=*aa....aa*

The number of pdreclaim commands executed simultaneously on the server using commit output exceeds the specification value in the pd_max_commit_write_reclaim_no operand.

aa....aa: Server name

S: Terminates the processing.

O: Re-execute the command after the free page release utility (pdreclaim) has terminated. Alternatively, execute the free page release utility (pdreclaim) without specifying the -p option.

Action: Increase the value assigned to the pd_max_commit_write_reclaim_no operand in the system common definition.

KFPH23100-E L

HiRDB file *aa....aa* error, errno=*bb....bb*, HiRDB file name=*cc....cc*

A HiRDB file access error occurred.

aa....aa: HiRDB file function:

close: Close HiRDB file

open: Open HiRDB file

read: Read HiRDB file

write: Write to HiRDB file

bb...bb: HiRDB system error code

cc...cc: *Name-of-HiRDB-file-system-area\Name-of-HiRDB-file*

If the path name of HiRDB file system area exceeds 131 characters, the last 131 characters of HiRDB file system area path name are output.

S: Terminates processing.

Action

See *5.1 Error codes returned from HiRDB file system access requests* and eliminate the cause of the error. If the RDAREA is shut down, recover it with the database recovery utility.

KFPH23101-E L

DB destruction information, *request=(rdid=aa...aa, pgid=bb...bb, pgno=cc...cc, fno=dd...dd), buff=(pgid=ee...ee, pgno=ff...ff, fno=gg...gg)*

Displays maintenance information when a buffer error was detected.

aa...aa: Requested RDAREA ID

bb...bb: Requested table number or index number

cc...cc: Requested page number

dd...dd: Requested file number

ee...ee: Table number or index number in buffer

ff...ff: Page number in buffer

gg...gg: File number in buffer

S: Shuts down the RDAREA (excluding master directory RDAREAs)

Action

Contact a customer engineer. Use the database recovery utility to recover the RDAREA that was shut down.

If Real Time SAN Replication with the log-only synchronous method is being used and this message is output with respect to a master directory RDAREA at a log application site, it is possible that system log application processing was not performed even though the database structure modification utility (*pdmod*) was executed at the transaction execution site. If that is the case, perform system log application processing.

KFPH23200-W L

Unable to use parallel I/O function *aa...aa*, code=*bbbb*

Because the parallel I/O function cannot be used, the parallel disk write operation cannot be performed during deferred write processing.

Because only the HI-UX/WE2 version of HiRDB supports the parallel I/O function, this message is output only when some other version is being used. This does not result in any problem because the only function that is not used is the parallel I/O function.

aa...aa: Usage status:

at some buffer pools:

The parallel I/O function cannot be used in some global buffer pools.

at all buffer pools:

The parallel I/O function cannot be used in any global buffer pool.

bbbb: Error code:

-1530: Permitted maximum value was exceeded at a node

-1540: The user is not authorized to use the parallel I/O function

-1558: The parallel I/O function has not been installed

S: Resumes processing.

Action

Take action appropriate to the error code:

- -1530:

Reduce the number of servers or reduce the number of buffer sectors in the *pdbuffer* operand of the system common definition

- -1540 and -1558:

To use the parallel I/O function, execute the *pdasync* command after terminating HiRDB, then start the OS and HiRDB; to install the parallel I/O function, at least 32 MB of real memory is required

KFPH23201-W L

HiRDB file open retry due to insufficient open resource,
code=*aaaa*

A resources shortage occurred when a HiRDB file was being opened.

aaaa: HiRDB system error code

S: Continues processing.

Action

See *5.1 Error codes returned from HiRDB file system access requests* and eliminate the cause of the error.

KFPH23202-W L

HiRDB DB read retry due to time stamp invalid, RDAREA name=*aa....aa*, file name=*bb....bb*, offset=*cc....cc*

Reading from the database will be retried because of an invalid page time stamp.

aa....aa: RDAREA name

bb....bb: HiRDB file name

If the name of HiRDB file exceeds 91 characters, the last 91 characters of HiRDB file name are output.

cc....cc: Relative byte position (in decimal) from the beginning of HiRDB file of the page where the invalid time stamp was detected

S: Continues processing.

O: If the RDAREA is shut down immediately after this message is output, contact the customer engineer. Save the summary dump that is output under %PDDIR%\spool.

If the RDAREA is not shut down immediately after this message is output, a temporary disk I/O failure has occurred. Examine the disk that holds HiRDB file displayed in the message.

Action

Contact a customer engineer. Save the simple dump that is output under %PDDIR%\spool.

KFPH24003-E L

Invalid "pd_plugin_ixmk_dir" statement, errno=*aaaaa*, directory or HiRDB file system= *bb....bb*

An error was detected in the specification of the pd_plugin_ixmk_dir operand in the system definition.

aaaaa: HiRDB file system error code

bb....bb: pd_plugin_ixmk_dir operand specification

If this specification exceeds 120 characters, the last 120 characters are output.

S: Continues processing.

O: Contact HiRDB administrator.

Action

Terminate HiRDB normally, correct the error by referring to *5.1 Error codes returned from HiRDB file system access requests*, then start HiRDB.

- UNIX version:

If the error code is -1538, either a regular file not in a HiRDB file system area is specified (a regular file system area), or a character special file is specified. In either case, specify either a HiRDB file system area or directory name.

- Windows version:

If the error code is -1538, a file not in the HiRDB file system area is specified. If that is the case, specify either a HiRDB file system area or a directory name.

KFPH24004-I L

```
pd_redo_allpage_put
information=(Server=aa....aa,SKIP=bb...bb,APPLY=cc....cc,WRITE=dd....dd,BF
PUT=ee....ee)
```

This displays the internal information related to the database write during full recovery processing of server *aa....aa* when the `pd_redo_allpage_put` operand was specified.

aa....aa: Server name

bb...bb: Number of update logs that were not rolled forward, because writing into the database had been completed

cc....cc: Number of update logs that were rolled forward, because writing into the database had not been completed

dd....dd: Number of WRITES issued during full recovery processing

ee....ee: Internal information

S: Continues processing.

KFPH25000-E L

```
Error occurred on aa....aa (bbbb) , code=cccc (dd....dd)
```

An error with error code *cccc* occurred in *aa....aa(bbbb)*.

aa....aa: Processing resulting in the error

bbbb: Detail code of the processing resulting in the error

cccc: Error code

dd....dd: Error detail code

S:

During HiRDB startup: Resumes processing.

During transaction rollback: Terminates processing.

Action

Use the database recovery utility to recover the RDAREA indicated in the KFPH00306-E message (shutdown message) that was output before this message and report the contents of the embedded character to a customer engineer.

KFPH25001-E L

Error occurred on *aa....aa (bbbb)*, code=*cc (dd....dd)*

An error with error code *cc* occurred in *aa....aa (bbbb)*.

aa....aa: Processing resulting in the error

bbbb: Detail code of the processing resulting in the error

cc: Error code

dd....dd: Error detail code

S: Terminates processing.

Action

Use the database recovery utility to recover the RDAREA indicated in the KFPH00306-E message (shutdown message) that was output before this message and report the contents of the embedded character to a customer engineer.

KFPH25002-E L

Transaction wait time over, RDAREA=*aa....aa*, INDEX=*bb....bb*

The wait time specified in the concurrently executing transaction determination wait time elapsed during release processing of index free pages.

aa....aa: RDAREA name

bb....bb: Index name

S: Terminates processing.

P: Re-execute the free page release utility (`pdreclaim`). If a transaction requires a lengthy access time, terminate the process, and then re-execute the free page release utility. Alternatively, increase the concurrently executing transaction determination wait time.

KFPH25100-I L

Index information file assigned, file=*aa....aa*, index=*bb....bb.cc....cc*, RDAREA=*dd....dd*

An index information file was created for the index *bb....bb.cc....cc* that is stored in the RDAREA *dd....dd*, with a file name *aa....aa*.

aa....aa: Name of the index information file

bb....bb: Authorization identifier

cc....cc: Index identifier for the plug-in index

dd...dd: One of the following:

- Plug-in index storage RDAREA name, or
- Plug-in index storage RDAREA name (replica RDAREA generation number)

When using HiRDB Staticizer Option and the plug-in index storage RDAREA is the replica RDAREA, this message outputs the plug-in index storage original RDAREA name and replica RDAREA generation number.

S: Continues processing.

KFPH25101-E L

Index information file *aa...aa* error, file name=*bb...bb* kind=*cc...cc*
index inf=*dd...dd* errno=*ee...ee*

Processing *aa...aa* for the index information file failed when the index information file was being created or updated.

aa...aa: Error type

bb...bb: Name of the index information file

Only the last 100 characters of the file name are output when the length of the index information file name exceeds 100 characters.

cc...cc: Error information
{ 0|1|2 }

dd...dd: Index information
{ 0|1 }

ee...ee: Error code

If the error occurred in HiRDB file system area, HiRDB file system area error code is displayed. For details on errors in a HiRDB file system area, see *5.1 Error codes returned from HiRDB file system access requests*. In such a case, the error information displayed in *cc...cc* is not meaningful.

S: Continues processing if rollback is in progress. Otherwise, invalidates the transaction.

Action

Take actions in the indicated order based on error information and index information.

Error information:

0: Based on the error code (an external integer variable that indicates the condition of the error) and by referring to the `errno.h` file and the OS manual, check the cause of the error. Take an appropriate action according to

the following error cause:

Error cause	Explanation	Action
ENOSPC	The directory holding the index information file is full.	Delete any unneeded files from the directory.

1: The directory holding the index information file is full. Delete any unneeded files from the directory.

2: Records were not read completely. Contact a customer engineer.

Index information:

0: Re-execute the UAP.

1: Re-create the index.

KFPH26000-E L

Error occurred on *aa....aa (bbb)* , code=*cccccc (ddddddd)*

An error with error code *cccccc* was detected in *aa....aa(bbb)*.

aa....aa: Processing resulting in the error

bbb: Detail code of the processing resulting in the error

cccccc: Error code

ddddddd: Error detail code

S: Terminates abnormally.

Action

Report the contents of the error to a customer engineer.

KFPH26001-I L

Information=*aa....aa*

Displays internal information *aa....aa*.

aa....aa: Internal information

S: Resumes processing.

Action

If the system terminates abnormally after this message has been output, contact a customer engineer.

KFPH26010-I L

Start to assign used page, because pdload used up new pages in RDAREA "*aa....aa*", table_id="*bb....bb*"

All new pages for the RDAREA "*aa....aa*" were used during the data-loading of the

2. Messages

table ID "*bb....bb*". Data is stored in unused free areas.

aa....aa: Name of the RDAREA

bb....bb: Table ID

S: Continues processing.

O: Based on the number of data items stored in the table, review the required RDAREA size. Use the Database Reorganization Utility (*pdrorg*) to reorganize the table.

KFPH27000-E L

System error, func "*aa....aa*", code=*bbbb*

A HiRDB system function error occurred.

aa....aa: Name of function

bbbb: Error code

S: Terminates processing.

Action

Function name (<i>aa....aa</i>)	Action by administrator
<i>p_f_dbh_dint_envcp</i>	1. When the rapid system switchover facility is used: Resolve the error by referring to message <i>KFPH27028-E</i> , which is output in the standby system unit. Then restart the standby system unit. 2. When the standby-less system switchover (1:1) facility is used: Resolve the error by referring to message <i>KFPH27028-E</i> , which is output on the alternate portion to be started in waiting status or on the normal BES unit. Then restart the alternate portion or the normal BES unit in waiting status.
<i>p_f_dbh_buf_envcp</i>	
<i>p_f_hba_envcp</i>	
Other than above	Refer to <i>4.2 Detail codes for system-related errors</i> to resolve the error, and then re-execute the function. If you cannot determine the cause of the error, contact a customer engineer.

KFPH27003-E L

System call error, func=*aaaaaa*, errno=*bbbb*

An error has occurred in an operating system function.

aaaaaa: Name of system function

bbbb: Value of errno

S: Terminates processing.

Action

Check the description for the errno value in *errno.h* or the applicable OS documentation to resolve the error, and then re-execute the command.

KFPH27004-E L

Work file open failed, *aa....aa*

A work file open error occurred.

aa....aa: Cause of the error:

errno = *bbbb*: Error code *bbbb* was issued

no such file: Specified file was not found

permission denied: The user is not authorized to write data to the directory

S: Terminates processing.

Action

Refer to the file created under %PDDIR%\tmp to eliminate the cause of the error, and re-execute the command.

KFPH27005-E L

Insufficient memory on PROCESS, size = *aa....aa*

An attempt to allocate a process private area failed due to a memory shortage.

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

S: Terminates processing.

O: Re-evaluate the number of processes and re-execute the command.

KFPH27006-E L

DATA DICTIONARY RDAREA information get error

An error occurred during collection of information about the data dictionary RDAREA.

S: Terminates processing.

O: Refer to the message log that was output before and after the message to eliminate the cause of the error, and re-execute the command.

KFPH27007-E L

HiRDB file system information get error, code=*aaaaa*, area=*bb...bb*

An error occurred during collection of information about a HiRDB file system area.

aaaaa: Error code

bb...bb: Name of HiRDB file system area

If the path name of HiRDB file system area exceeds 117 characters, the last 117 characters of HiRDB file system area path name are output.

S: Invalidates processing on the corresponding RDAREA and resumes processing.

Action

See 5.1 *Error codes returned from HiRDB file system access requests*, eliminate the cause of the error, and then re-execute the command.

KFPH27008-E L+S

aa....aa command failed due to DATA DICTIONARY RDAREA (*bb....bb*) status invalid, RDAREA = *cc....cc*

Because the data dictionary RDAREA *bb....bb* cannot be referenced, the database operation command *aa....aa* of the specified RDAREA *cc....cc* cannot be processed.

aa....aa: Command name

bb....bb: Name of data dictionary RDAREA

cc....cc: RDAREA name (if the RDAREA name cannot be obtained, ***** is displayed)

S: Invalidates processing on the corresponding RDAREA and resumes processing.

O: Correct the status of the data dictionary RDAREA and re-execute the command.

KFPH27009-E L

SORT program error occurred, code=*aaaa*

An error occurred during sort processing.

aaaa: Error code

S: Terminates processing.

Action

Take corrective action according to the error code:

Error code	Action
-202	There is a memory shortage. Reduce the work buffer size specified in the sort operand.
-290	There is a work buffer shortage. Increase the work buffer size specified in the sort operand.
-210 -230	An I/O error occurred. The available capacity on the sort work disk may be insufficient. If the problem is caused by a capacity shortage, specify a disk having sufficient free space in the sort, and execute the processing.

If the error cannot be resolved, acquire the *sortdump*, *SORTIODUMP*, and *SORTDMP2* that are output to C:\Windows (in UNIX, /tmp or /usr/tmp), and contact a customer engineer.

KFPH27010-E L

Unable to send message from *aa....aa* to *bb....bb*

A communication error occurred between hosts *aa....aa* and *bb....bb*.

aa....aa: Send source host name*

bb....bb: Send destination host name*

* If the system switching facility is being used, the host name of the primary system is indicated.

S: Terminates processing.

Action

Take action appropriate to the KFPH27000-E message that was output before this message. If the error was 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.

KFPH27011-E L

aa....aa command failed due to data dictionary RDAREA (*bb....bb*) status invalid, buffer pool=*cc....cc*

Specified buffer pool *cc....cc* cannot be processed by HiRDB command *aa....aa*, because HiRDB area for data dictionary *bb....bb* cannot be referenced.

aa....aa: Command name

bb....bb: Name of data dictionary for RDAREA

cc....cc: Name of buffer pool

S: Name of buffer pool invalidates processing on the corresponding buffer pool area and resumes processing.

Action

If RDAREA for the data dictionary is shut down, eliminate the cause of the error, then re-execute the command. If closed, release close, then re-execute the command.

KFPH27012-I S

```
Usage: pdbuf1s [-k sts|def|all] [-d]
{ [-S server_name [, server_name] ....]
| [-a buffer_pool_name [, buffer_pool_name] ....] }
```

Shows how to use the command (*pdbuf1s*) to display the status of global buffer pool. This message is displayed when the command option or argument is wrong.

S: Terminates processing

Action

Reenter the command specified correctly.

KFPH27013-I S

Usage: `pddbchg -q n { -r ORIGINAL_RDAREA [, ORIGINAL_RDAREA] | -r ALL } [-w]`

This message shows the usage of the `pddbchg` command, which changes the current RDAREA. It is output when a command option or argument is invalid.

S: Terminates processing.

Action

Correct the command format, and then re-execute the command.

KFPH27014-E L+S

No original rdarea named *aa...aa* [, server = *bb...bb*]

The specified RDAREA is not the original RDAREA.

aa...aa: RDAREA name

bb...bb: Shared RDAREA runtime server name

This is displayed when an error occurs in the shared RDAREA.

S: Performs one of the following processing actions:

- For the `pddbchg` command, terminates the command without performing any processing on any specified RDAREA.
- For the `pddbls` command, invalidates any processes being performed on the applicable RDAREA, and then continues processing the remaining areas.
- `pdorbegin` command
 - If the `-r` RDAREA names are specified in batch, processing of the relevant RDAREAs becomes invalid, and processing continues.
 - When specifying `-r` RDAREA names, no processing is performed for all specified RDAREAs, and processing terminates.

Action

Specify the original RDAREA name and re-execute the command.

KFPH27015-E L+S

aa...aa command failed, RDAREA = *bb...bb*, code = *ccc* [, server = *dd...dd*]

Processing of the `pddbchg` command could not be performed.

aa...aa: Command name

bb...bb: RDAREA name

ccc: Error code

-30: The specified RDAREA cannot be locked.

- 31: The dictionary table and back-end server memory information do not match.
- 32: The master directory information cannot be updated.
- 33: The dictionary table cannot be updated.
- 34: An error occurred in the system function.

dd....dd: Shared RDAREA runtime server name

This is displayed when an error occurs in the shared RDAREA.

S: Terminates processing.

Action

Take the action appropriate for the error code:

- -30

Terminate other transactions (if the server name is displayed, other transactions on the server) and re-execute the command. Or, shut down all target RDAREAs inside the inner replica and re-execute the command. Also, if there are RDAREAs shut down through online reorganization hold, the `pdobchg` command cannot be executed. Release online reorganization hold by executing the `pdorbegin` command before the `pdorchg` command and the `pdorend` command after the `pdorchg` command, and then re-execute the command.

- -31

Check for errors in the system RDAREAs. If there is no error, contact a customer engineer.

- Other error codes

Check the error message output before this error message, and eliminate the cause of the error. If the server name is displayed, check the message that was output before this message was output, and remove the cause of error from the server. If the cause of the error is unknown, contact a customer engineer.

KFPH27016-E L+S

No specified generation RDAREA=*aa....aa*

No RDAREA of the specified generation could be found.

aa....aa: RDAREA name

S: Terminates processing.

Action

Use the `replicate rdarea` statement of the database structure modification

utility of the specified generation, and then re-execute the command.

KFPH27017-W L+S

replica status changed though MASTER DIRECTORY invalid

The current information on the RDAREA for the master directory is invalid, but the replica status was updated.

S: Continues processing.

KFPH27018-W L+S

pddbchg command not available without Staticizer Option

HiRDB Staticizer Option is required to execute the pddbchg command.

S: Terminates processing.

Action

Check to determine if HiRDB Staticizer Option is being used. Install HiRDB Staticizer Option if necessary.

KFPH27023-E L+S

specified option not available without Staticizer Option

HiRDB Staticizer Option is required for the specified option.

S: Terminates processing.

Action

Check if the environment can be used by HiRDB Staticizer Option. Install HiRDB Staticizer Option if necessary.

KFPH27024-I L+S

HiRDB file freezed, file=aa....aa

HiRDB file aa....aa was put into frozen update status.

aa....aa: HiRDB file name

S: Terminates processing.

KFPH27025-I S

Usage:pddbfrz [-d] {-r RDAREA[,RDAREA] |-r ALL} [-q
generation_number]

This message shows the format of the pddbfrz command. It is output when the command was specified incorrectly.

S: Terminates processing.

Action

Correct the command specification, and then re-execute the command.

KFPH27026-I L+S

HiRDB file freeze skipped, file=*aa....aa*, reason=*bb...bb*

Frozen update processing of HiRDB file *aa....aa* was skipped due to reason *bb...bb*.

aa....aa: HiRDB file name

bb...bb: Reason code

topfile: This is the first file comprising the RDAREA.

already: The file is already in frozen update status.

plug-in: Plug-in logical files were found.

unused: Nonallocated segments were found.

S: Continues processing.

KFPH27027-E L

RDAREA freeze failed, RDAREA=*aa....aa*

Updating of the specified RDAREA could not be frozen because the RDAREA stores the plug-in index or is an unused RDAREA.

aa....aa: RDAREA name

S: Invalidates processing of the applicable RDAREA, and then processing continues.

Action

Respecify the RDAREA, and then re-execute.

KFPH27028-E L

File copy failed, server name = *aa....aa*, return code = *bbbb*

- When the rapid system switchover facility is used:

Copying of HiRDB database environment information files from the running system server to the standby server failed.

- When the standby-less system switchover (1:1) facility is used:

Copying of HiRDB database environment information files from the normal BES unit to the alternate portion, or from the alternate portion to the normal BES unit, failed.

aa....aa: Server name

bbbb: Return code

S: Terminates processing.

Action

Take corrective action according to return code *bbbb*:

Return code	Cause and action
100	<p>You cannot execute a remote shell in this environment. In an environment using an alias IP address, the following causes are possible:</p> <ul style="list-style-type: none"> • When the rapid system switchover facility is used: The host with the alias IP address for the running system unit and the standby system unit may be stopped. If that is the case, activate the server unit that has the alias IP address, and then restart the standby system unit. • When the standby-less system switchover facility is used: The host with the IP address for the normal BES unit and the alternate portion may be stopped. If that is the case, activate the server unit that has the alias IP address, and then restart either the normal BES unit or the alternate portion. <p>UNIX version only A network failure has occurred. In a system switchover configuration that does not inherit IP addresses, <code>lan_updown</code> is not specified in the server definition statement for the HA monitor. Further, the HA monitor environment setting directory contains network <code>up.down</code> shells named <code>server-id-name.up</code> and <code>server-id-name.down</code>, which are identical to the server identification names specified in the server definition statement for the HA monitor (or the Hitachi Toolkit Extension). This caused a network failure when the system switchover facility was started. If the system switchover configuration being used does not inherit IP addresses, delete the <code>server-id-name.up</code> and <code>server-id-name.down</code> shells.</p>
101	<p>A time-out occurred. Review the value of the <code>pd_system_complete_wait_time</code> operand. If the rapid system switchover facility is being used, restart the standby system unit. If the standby-less system switchover (1:1) facility is used, restart either the normal BES unit or the alternate portion.</p>
102	<p>An attempt was made to copy HiRDB database environment information files from the standby unit during startup of a secondary system. Check if the running unit started normally. If the running unit did not start normally, check if the Hitachi HA Toolkit Extension service process started and start either the primary system or the secondary system as the running unit. After the running unit finishes starting, start the standby unit. If the running unit started normally, contact a customer engineer.</p>
Others	<p>Contact a customer engineer.</p>

KFPH27030-E L+S

`pdhold` command required specification of `-q` option

If the `-r ALL` or `-s` option is specified with the `pdhold` command, the `-q` option also has to be specified.

S: Terminates processing.

Action

Correct the command format, and then re-execute the command.

KFPH27031-E L+S

Failed to allocate global buffer pool, server=*aa....aa*, size=*bb....bb*, errno=*cc*

Allocation of the global buffer failed.

aa....aa: Server name

bb....bb: Size of the space to be secured (0 is displayed if digit overflowing occurred during the calculation)

cc: Error cause code

S: Terminates processing.

Action

Take the action appropriate for the error cause code, and then re-execute the `pdbufmod` command.

Error cause code	Error description	Action
4	Page fixing of common memory failed	There is insufficient real memory for fixing pages of common memory segments. Delete any unnecessary global buffers.
8	The common memory segment count exceeded HiRDB maximum.	The maximum number of shared memory segments that can be added per server (the value specified in the <code>pd_max_add_dbbuff_shm_no</code> operand) has been exceeded. Delete any unnecessary global buffers. Also, reflect definitions of dynamically modified global buffers in the <code>pdbuffer</code> operand. This will decrease the number of common memory segments HiRDB manages.
16	The common memory segment count exceeded the operating system maximum.	The number of common memory segments a process can add exceeded the value of the operating system parameter <code>shmseg</code> in the operating system. Delete any unnecessary global buffers.
20	A memory shortage occurred.	Refer to <i>system call= shmget, errno=12, mnemonic= ENOMEM in 4.3 system call return codes</i> to investigate the cause of the error, and take corrective action.
24	The common memory segment size exceeded the maximum.	Either the common memory size for global buffers exceeded the value of the operating system parameter <code>shmmax</code> in the operating system or the <code>SHMMAX</code> operand value. Decrease the excessive value to decrease the number of buffer sectors in the global buffer.
28	The global buffer count exceeded the maximum.	The maximum number of global buffer pools that can be dynamically added or changed per server (the value specified in the <code>pd_max_add_dbbuff_no</code> operand) has been exceeded. Delete any extraneous global buffer pools, and re-execute the command.

Error cause code	Error description	Action
32	Digit overflow occurred during the common memory size calculation.	Decrease the buffer sector count of the global buffer so the common memory size does not exceed $2^{31}-1$ ($2^{63}-1$ for the 64-bit mode).
36	The number of common memory identifiers exceeded the maximum.	Refer to <code>system call= shmget, errno=28, mnemonic= ENOSPC</code> in <i>4.3 System call return codes</i> to investigate the cause of the error, and take corrective action.

KFPH27032-E L+S

Global buffer pool already allocated, global buffer pool name=*aa....aa*

The global buffers were already allocated.

aa....aa: Global buffer name

S: Terminates processing.

Action

Use the `pdbufls -k def` command to check the global buffer names already being used. Specify a unique global buffer name and re-execute the `pdbufmod` command.

KFPH27033-I S

Usage: `pdbufmod -k {add|del|upd} -a pool name [{-r RDAREA [, RDAREA ...] | -b RDAREA [, RDAREA ...] | -i ID.INDEXNAME | -o}] [-n NUM] [-l SIZE] [-m PRMAX] [-p PRNUM] [-w WRATIO] [-y TRBUFNUM]`

Shows how to use the `pdbufmod` command to dynamically change global buffers. It is output when an invalid command option or argument is used.

S: Terminates processing.

Action

Correct the specification format and re-execute the command.

KFPH27034-E L+S

Unable to execute `pdbufmod` command, server=*aa....aa*

The `pdbufmod` command could not be executed for one of the following reasons:

- The rapid system switchover facility was being used
- The standby less system switchover facility was being used
- The `pd_dbbuff_modify` operand was omitted or N was specified.

aa...aa: Server name

S: Continues processing.

Action

When using the rapid system switchover facility or the standby less system switchover facility, use the online system configuration modification facility to modify the specification of the `pdbuffer` operand (change the definition of the global buffer).

When not using the rapid system switchover facility or the standby less system switchover facility, specify `Y` in the `pd_dbbuff_modify` operand.

KFPH27035-I L+S

```
Usage: pdorbegin {-r ORIGINAL_RDARERA[,ORIGINAL_RDARERA...] | -t
[AUTHID.]TABLE [-s server[,server...]] [-c CONSTRAINT_TYPE]} [-w
LOCK_WAIT_TIME] [-q GENERATION_NUMBER] [-e] [-u]
pdorbegin {-r ORIGINAL_RDARERA[,ORIGINAL_RDARERA...] | -t
[AUTHID.]TABLE [-c CONSTRAINT_TYPE]} [-s server[,server...]]
[-w LOCK_WAIT_TIME] [-q GENERATION_NUMBER] -u
```

This is the specification format of the `pdorbegin` command.

S: Continues processing.

Action

Check the specification format, and check that at least 129 RDAREAs were specified, and re-execute.

KFPH27036-I L+S

```
Usage: pdorchg [-s server[,server...]]
```

This is the specification format of the `pdorchg` command.

S: Continues processing.

Action

Check the specification format, and then re-execute.

KFPH27037-I L+S

```
Usage: pdorend [-s server[,server...]] {[-n RETRY_COUNT] [-w
MAX_REFLECT_WAIT_TIME] [-t MAX_TRN_WAIT_TIME] [-m
REF_PROCESS_CNT] [-z] | [-f reflection control file] [-p] |
[-u]}
```

This is the specification format of the `pdorend` command.

S: Continues processing.

Action

Check the specification format, and then re-execute.

KFPH27038-E L+S

Not available without *aa...aa* option, command = *bb...bb*

The *bb...bb* command could not be executed because the *aa...aa* option was not embedded.

aa...aa: Option name

Staticizer

bb...bb: Command names

{pdorbegin|pdorchg|pdorend}

S: Continues processing.

Action

Embed the option, and then re-execute the command.

KFPH27039-E L+S

Not available without specification of *aa...aa* operand, command = *bb...bb*

The *bb...bb* command could not be executed because the *aa...aa* operand in the system definition was not specified.

aa...aa: System definition operand name

{pd_inner_replica_control|pd_max_reflect_process_count}

bb...bb: Command names

{pdorbegin|pdorchg|pdorend}

S: Continues processing.

Action

Terminate HiRDB, add the system definition *aa...aa* operand, restart HiRDB, and then re-execute the command.

KFPH27041-W L+S

Reflection retry, server = *aa...aa*, count = *bb*, code = *cccc*, wait_time = *dddd*

Retries discrepancies application processing on server *aa...aa*.

aa...aa: Server name

bb: Retry count

cccc: Reason code

lock: Time-out occurred during the locking procedure.

sync: Time-out occurred in discrepancies application processing after the

locking procedure completed.

dddd: Locking wait time (seconds)

S: Continues processing.

O: If discrepancies application processing is repeatedly retried and terminates abnormally, take one of the following actions and re-execute the `pdorend` command.

- Increase the specification value of the `-n` option.
- Increase the specification value of the `-w` option.
- Increase the specification value of the `-t` option.

If discrepancies application processing terminates abnormally even after taking these actions, reduce the amount of transaction processing and execute the `pdorend` command.

KFPH27042-W L+S

No held(org) RDAREA, command = *aa...aa*

There is no RDAREA that can perform updatable online reorganization.

aa...aa: Command name

{`pdorchg`|`pdorend`}

S: Terminates processing.

O: Check the operation procedure for updatable online reorganization, and then re-execute the command. For details about how to perform updatable online reorganization, see *HiRDB Staticizer Option Version 7 Description and User's Guide*.

KFPH27043-E L+S

aa...aa command failed, server = *bb...bb*, code = *ccc*

The *aa...aa* command failed on server *bb...bb*.

aa...aa: Command name

bb...bb: Server name

ccc: Error code

- 50: The maximum wait time of discrepancies application processing elapsed.
- 51: The retry count exceeded the specified value.
- 52: An error occurred during online reorganization reflection processing.
- 53: A communication error occurred.
- 54: The applicable server is executing updatable online reorganization.
- 55: The execution sequence of updatable online reorganization is incorrect.

-56: It is possible that the `pdorchg` command has not completed.

-57: The specified option, RDAREA, table, or constraint type is invalid.

S: Terminates processing.

O: Take corrective action according to the error code:

When the error code is -50:

Either increase the value specified for the maximum wait time of discrepancies application processing or reduce the amount of transactions with the replica RDAREA and re-execute the command.

When the error code is -51:

Take one of the following actions, and then re-execute the command:

- Increase the value specified for the transaction maximum wait time.
- Increase the retry count.
- Reduce the amount of transactions with the replica RDAREA.

When the error code is -52:

Take one of the following actions:

- If the `-u` option is not specified in the `pdorend` command, take action according to the previous error message.
- If the `-u` option is specified in the `pdorend` command and online reorganization hold of all RDAREAs in the applicable server is released, re-executing this command is not necessary. Use the `pddb1s` command to check the status of the RDAREA. If there is even one RDAREA on the relevant server that is on online reorganization hold, see the description on troubleshooting in the manual *HiRDB Staticizer Option Version 7*.

When the error code is -54:

Wait for the first `pdorend` command executed to terminate, and then re-execute the command.

When the error code is -55:

Check the execution sequence of the `pdorbegin`, `pdorchg`, and `pdorend` commands. If the execution sequence is correct, use the `pddb1s` command to check whether the status of the RDAREA is correct.

When the error code is -56:

Check the return code from the `pdorchg` command. If the system has not normally terminated, use the `pdorchg` command to normally terminate the

system, and then re-execute the `pdorend` command. If the system has normally terminated, the `pddbchg` command or the database structure modification utility may be running at the same time as the `pdorend` command. In this case, re-execute the `pdorend` command.

When the error code is -57:

- When the `-u` option is not specified

The `pdorbegin` command cannot be executed because the server containing the RDAREAs to be processed contains an RDAREA or table that has been placed in online reorganization hold. Check the specified RDAREAs or table names.

- When the `-u` option is specified

Specify the option (`-r`, `-t`, or `-c`) and the flag argument (RDAREA, table, or constraint type) that were specified for online reorganization hold, and re-execute the `pdorbegin` command.

If the `-r` option is specified, specify any RDAREA among those specified by the `-r` option that was released during online reorganization hold, and re-execute the `pdorbegin` command.

If the `-t` option is specified, specify the table specified in the `-t` option during online reorganization hold.

If the `-c` option is specified, specify the constraint type that was specified during online reorganization hold, and re-execute the `pdorbegin` command.

For other error codes:

Check the message output before this message, eliminate the error cause, and then re-execute the command. If the cause of the error is unclear, contact a customer engineer.

KFPH27044-I L+S

aa....aa command started

The *aa....aa* command started.

aa....aa: Command name

{`pdorbegin` | `pdorchg` | `pdorend`}

S: Continues processing.

KFPH27045-I L+S

aa....aa command ended, return code = *bb*

The *aa....aa* command ended.

2. Messages

aa...aa: Command name

{pdorbegin|pdorchg|pdorend}

bb: Return code

0: Normal termination

4: Warning termination

8 and 12: Abnormal termination

S: Terminates processing.

Action

When the return code is not 0, take actions according to the previously output error message.

KFPH27046-E L+S

Reflection management table not found, command = *aa...aa*

No reflection status management table was found.

aa...aa: Command name

{pdorbegin|pdorchg|pdorend}

S: Terminates processing.

Action

Use the `pdorcreate` command to create a reflection status management table, and then re-execute command *aa...aa*.

KFPH27047-E L+S

Reflection management table existed in RDAREA to hold(org),
RDAREA = *aa...aa*

The reflection status management table was found in the RDAREA used for updatable online reorganization.

aa...aa: RDAREA name

S: Terminates processing.

Action

Delete the reflection management status table, and then create a new RDAREA.

KFPH27048-E L

Enter *aa...aa* command, due to incomplete operation, RDAREA =
bb...bb, SERVER = *cc...cc*

Some operation commands did not complete processing.

aa...aa: Command name {pdorbegin|pdorend}

bb...bb: Original RDAREA name (***** is displayed for the `pdorend` command)

cc...cc: Server name (***** is displayed for the `pdorbegin` command)

S: Terminates processing.

Action

Specify the displayed RDAREA or server and re-execute the `pdorbegin` or `pdorend` command.

KFPH27049-E L

Another RDAREA of the same server already held(org), command = *aa...aa*, SERVER = *bb...bb*

This command cannot be executed because another RDAREA on the same server is already in online reorganization hold status.

aa...aa: Command name (`pdorbegin`)

bb...bb: Server name

S: Terminates processing.

Action

Take the following action to add an RDAREA in updatable online reorganization status on the same server:

- When the `pdorchg` command is not executing
For an RDAREA already in updatable online reorganization hold status, execute the `pdorbegin` command (-u), release the updatable online reorganization hold status, and re-execute the `pdorbegin` command.
- When the `pdorchg` command is executing
For an RDAREA already in updatable online reorganization hold status, execute the `pdorbegin` command (-u), release the updatable online reorganization hold status, use the `pdadbchg` command to change the current RDAREA, and re-execute the `pdorbegin` command.

For details, see *HiRDB Staticizer Option Version 7 Description and User's Guide*

KFPH27050-E L

Unable to execute *aa...aa* command, RDAREA = *bb...bb*, reason = *cc...cc*

Cannot execute the *aa...aa* command for reason *cc...cc*.

aa...aa: Command name (`pdorbegin`)

bb...bb: RDAREA name

cc...cc: Reason

`invalid RECOVERY type`: The column recovery restriction of the RDAREA for storing LOB columns is not ALL.

S: Terminates the server processing the applicable RDAREAs.

Action

If the reason is `invalid RECOVERY type`, take either of the following actions, and then re-execute the command:

- Redefine the RDAREA for LOB column storage as an RDAREA for storing tables that will not be put in online reorganization hold status.
- In the table definitions containing a LOB column storage RDAREA, set all column recovery constraints in the LOB column, and execute ALTER TABLE.

KFPH27051-E L+S

Number of RDAREA exceeds maximum value

The upper limit on the number of RDAREAs that can be processed has been exceeded.

S: Terminates processing.

Action

The upper limit on the number of RDAREAs that can be processed using the `pdorbegin` command is 4,096.

- With the `-r` option specified:

Revise the batch specification of RDAREAs specified in the `-r` option, and then re-execute the command.

- With the `-t` option specified:

Revise the total number of tables and related RDAREAs specified in the `-t` option, and re-execute the command.

Use the `pdrdrefls` command to check the RDAREAs related to a specified table.

KFPH27052-W L+S

Shared RDAREA released hold(org), specified option "-s", server = *aa...aa*, RDAREA = *bb...bb*

For a shared RDAREA, specify server *aa...aa* to release online reorganization hold.

aa...aa: Server name

bb...bb: RDAREA name

S: Continues processing.

Action

Remove the reason why all of the back-end servers cannot be processed in batch, and use the `pddbls -m` command to check the hold status of the RDAREAs of all back-end servers. Then, release the online reorganization hold of the shared RDAREAs of all back-end servers.

KFPH27053-E L+S

Unable to use specified command option *aa* for *bb...bb*, command = *cc....cc*

For *bb...bb*, command *cc....cc*, option *aa* cannot be specified.

aa: Option name

-s

bb...bb: Error cause

shared RDAREA: Shared RDAREA

RDAREA: Non-shared RDAREA

shared table: Shared table on a HiRDB/Parallel Server

cc....cc: RDAREA name

{pdorbegin | pdorchg | pdorend}

S: Terminates processing.

Action

Take the following action to remove the cause of the error:

When the error cause is shared RDAREA or RDAREA

- When *cc....cc* is the `pdorbegin` command

Execute shared RDAREAs and non-shared RDAREAs separately. For shared RDAREAs, execute the command specifying only shared RDAREAs in the `-r` option. For non-shared RDAREAs, execute the command specifying non-shared RDAREAs in the `-r` option and drop the `-s` option. Confirm the information for shared RDAREAs by specifying the `-m` option of the `pddbls` command.

- When *cc....cc* is the `pdorchg` and `pdorend` commands

Delete the `-s` option, and re-execute the command.

When the error cause is shared table

Drop the `-s` option and execute the command.

KFPH27054-E L+S

Transaction may not determine commit or rollback command=*aa....aa*

A communication or other error occurred, such that the transaction might not have

been completed or rolled back by the system.

aa....aa: Command name

S: Terminates processing.

Action

Check that the transaction of the executed command does not remain using the `pdls -d prc` and `pdls -d trn` commands. If the transaction has not completed, cancel it with the `pdcancel` command and re-execute the command.

KFPH27055-E L+S

aa....aa command failed, reason=*bb...bb*

An error occurred during the execution of *aa....aa* command.

aa....aa: Command name

bb...bb: Reason

`ANALYZE FAILED`: An error occurred during analysis of the attached reflection control file.

`ANY BES FAILED`: An error occurred during processing of one or more back-end servers.

`Auth_id INVALID`: The default value of an authorization identifier omitted with the `-t` option is invalid.

`SPECIFIED SERVER INVALID`: A server not related to a table specified with the `-t` option was specified with the `-s` option.

S: Terminates processing.

Action

When *bb...bb* is `Auth_id INVALID`: Set or revise the environment variable `PDUSER`, and re-execute the command.

When *bb...bb* is `SPECIFIED SERVER INVALID`: In the `-s` option, specify the table specified in the `-t` option of the `pdorbegin` command or specify the server linked with a referenced table or referencing table of that table, and then re-execute the command. Check the server related to the table using the `pdrdrefls` command.

When *bb...bb* is `ANY BES FAILED`:

When the immediately previous KFPH00132-E message displayed servers not involved in processing:

To continue online reorganization processing, execute one of the following:

- Remove the cause of the error in the server displayed in the KFPH00132-E

message, and re-execute the command.

- When online reorganization hold was effected by using the `pdorbegin` command and specifying the `-t` option:

If none of the tables specified in the `-t` option or their referenced tables is a shared table on a HiRDB/Parallel Server, specify the server to be processed in the `-s` option, and re-execute the command.

If a table specified in the `-t` option or its referenced table is a shared table on a HiRDB/Parallel Server, re-execute the command without specifying the `-s` option.

Other than the above:

Take action based on the immediately preceding message that was output, and re-execute the command.

If `bb...bb` is other than the above: Take action based on the immediately preceding message that was output, and re-execute the command.

KFPH27056-W L+S

Warning occurred in reflect service, server=*aa...aa*

A warning was returned from the reflect service.

aa...aa: Server name

S: Continues processing.

Action

Take corrective action according to the KFPT (-w) warning message that is output before this message.

KFPH27058-E L+S

Unable to use specified command option *aa* for *bb...bb*, command=*cc...cc*, RDAREA name="*dd...dd*"

With command *cc...cc*, option *aa* cannot be specified for *bb...bb*.

aa: Option name

-u

bb...bb: Error cause

shared RDAREA: Shared RDAREA

cc...cc: Command name

pdhold

dd...dd: RDAREA name

S: Invalidates RDAREA "*dd...dd*" processing, and continues processing.

Action

Drop the *aa* option, and re-execute the command.

KFPH27100-E L+S

Unable to *aaaaaa* global buffer pool due to *bb...bb*, RDAREA="*cc...cc*"

Global buffers could not be added or removed for reason *bb...bb*.

aaaaaa: Processing content

add: Add

delete: Delete

bb...bb: Reason

invalid RDAREA type: The RDAREA type is invalid.

RDAREA cannot specified: The RDAREA cannot be specified.

cc...cc: RDAREA name

S: Terminates processing.

Action

When the RDAREA type is invalid, an RDAREA other than an RDAREA for LOB is specified in the global buffer for LOB. Specify the correct RDAREA and re-execute the *pdbufmod* command.

When no RDAREA can be specified, specify an RDAREA in the global buffer for indexes. No RDAREA can be specified in a global buffer for indexes. Re-execute the *pdbufmod* command without specifying an RDAREA.

KFPH27101-E L+S

Too small buffer size, buffer size=*aaaaa*, RDAREA="*bb...bb*", page size=*cccc*

The global buffer was not allocated to RDAREA "*bb...bb*" because the buffer was too small.

aaaaa: Buffer size

bb...bb: RDAREA name

cccc: RDAREA page length

S: Terminates processing.

Action

The buffer size must be equal to or greater than the RDAREA page length. Allocate a global buffer to meet this condition.

KFPH27102-E L+S

Invalid option is specified, reason code=*aa*

An invalid combination of `pdbufmod` command options was found.

aa: Reason code

1: An invalid option was specified in the specified modification type.

10: The `-r`, `-b`, `-i`, or `-o` option was not specified even though a modification type was added (`-k add`).

11: Even though the `-n` option was not specified when adding a modification type (`-k add`), the `-l`, `-m`, `-p`, `-w`, or `-y` option was specified.

12: Even though the `-i` or `-o` option was specified when adding a modification type (`-k add`), the `-n` option was not specified.

22: Even though the modification type was modified (`-k upd`), the modified option was not specified. Or, when the concurrent execution maximum prefetch count is 0, only the `-p` option is specified.

40: The `-r` option was specified in the global buffer for LOB.

41: The `-b` option was specified in an RDAREA other than one for the LOB global buffers.

S: Terminates processing.

Action

Specify the correct option and re-execute the `pdbufmod` command.

KFPH27103-I L+S

Global buffer pool *aaaaaaa*, global buffer pool name=*bb...bb*, server=*cc...cc*

The specified global buffer was added, removed, or modified.

aaaaaaa: Processing content

added: A global buffer was added.

deleted: A global buffer was removed.

updated: A global buffer was updated.

bb...bb: Global buffer name

cc...cc: Server name

S: Terminates processing.

KFPH27104-I L+S

RDAREA "*aa...aa*" *bb...bb*, global buffer pool name=*cc...cc*, server=*dd...dd*

The specified RDAREA was allocated to or removed from the global buffer.

aa...aa: RDAREA name

bb...bb: Processing content

added: An RDAREA was allocated to a global buffer

deleted: An RDAREA was removed from a global buffer

cc...cc: Global buffer name

dd...dd: Server name

S: Continues processing.

KFPH27105-E L+S

Unable to execute *aa...aa* command due to command in process

The *aa...aa* command could not be executed because it is in progress.

aa...aa: Command name (pdbufmod)

S: Terminates processing.

Action

After the command in progress terminates, re-execute the pdbufmod command.

KFPH27106-E L+S

Unable to execute *aa...aa* command due to specified index name not found

The *aa...aa* command could not be executed because the specified index was not found.

aa...aa: Command name (pdbufmod)

S: Terminates processing.

Action

Specify the correct index name, and then re-execute the pdbufmod command.

KFPH27107-E L+S

aa...aa command failed due to DATA DICTIONARY RDAREA (*bb...bb*) status invalid, index = *cc...cc*

The *aa...aa* command in specified index *cc...cc* could not be executed because data dictionary RDAREA *bb...bb* could not be referenced.

aa...aa: Command name (pdbufmod)

bb...bb: Data dictionary RDAREA name

cc...cc: Index name

S: Invalidates this operation and continues processing.

Action

After the data dictionary RDAREA returns to normal status, re-execute the `pdbufmod` command.

KFPH27108-E L+S

Failed to allocate semaphore

Allocation of a semaphore resource failed.

S: Terminates processing.

Action

Take one of the following actions before re-executing the `pdbufmod` command:

- Increase the maximum (in HP-UX, `semmns`; in Solaris, `seminfo_semmns`; and in Linux, `SEMMNS`) semaphore count in the system.
- Increase the maximum (in HP-UX, `semmni`; in Solaris, `seminfo_semmni`; in Linux, `SEMMNI`; and in Windows, `PDUXPLSEMMAX`) semaphore identifier count.
- Delete any unnecessary global buffers.

KFPH27109-E L+S

Unable to add *aa...aa* global buffer pool due to already allocated, global buffer pool name=*bb...bb*

An index or `-o` option global buffer could not be added because the target global buffer was already in use.

aa...aa: Global buffer types

`index`: Index global buffer

`other`: Global buffer with the `-o` option

bb...bb: Global buffer name

S: Terminates processing.

Action

Use the `dbufls -k def` command to check the global buffers currently in use. Re-execute the command if necessary.

KFPH27110-E L+S

Unable to add global buffer pool due to no RDAREA

A global buffer could not be added because no RDAREA was found to which to allocate the global buffer.

S: Terminates processing.

Action

Use the `dbufls -k def` command to check for global buffers currently in use.
Re-execute the command if necessary.

KFPH27111-E L+S

Unable to delete due to no RDAREA "*aa...aa*", global buffer pool name=*bb...bb*

Global buffer *bb...bb* could not be deleted because RDAREA "*aa...aa*" was not allocated.

aa...aa: RDAREA name

bb...bb: Global buffer name

S: Terminates processing.

Action

Use the `pdbufls -k def` command to check for global buffers currently in use.
Re-execute the command if necessary.

KFPH27112-E L+S

`pdbufmod` command failed due to specified name not found, global buffer pool name=*aa...aa*, server=*bb...bb*

The `pdbufmod` command could not be executed because the specified global buffer *aa...aa* was not defined on server *bb...bb*.

aa...aa: Global buffer name

bb...bb: Server name

S: Continues processing.

Action

Use the `pdbufls -k def` command to check for global buffers currently in use.
Re-execute the command if necessary.

KFPH27113-E L+S

Unable to execute `pdbufmod` command due to HiRDB Advanced High Availability not setup

The `pdbufmod` command could not be executed because HiRDB Advanced High Availability was not set up.

S: Terminates processing.

Action

Set up HiRDB Advanced High Availability, and then re-execute the command.

KFPH28001-E L

Insufficient memory on DYNAMIC_SHMPOOL for DB exclusive control,
server=*aa....aa*

For server *aa....aa*, the shared memory used for exclusive control is insufficient.

aa....aa: Server name

S: Invalidates the transaction.

P:

- When NO is specified in the client environment definition PDDBLOG and the transaction is executed to update a shared table:
Consider changing PDDBLOG to YES.
- When the transaction involves executing the LOCK statement with the IN EXCLUSIVE MODE specification for multiple shared tables:
Consider reducing the number of shared tables.
- When the transaction involves executing in non-shared tables using the UNTIL DISCONNECT specification LOCK statement:
Consider dropping the UNTIL DISCONNECT specification.

Action

The value of the `pd_lck_until_disconnect_cnt` operand is inappropriate.
Revise it by increasing the specified value, and restart HiRDB.

KFPH29005-W L

Unable to check work HiRDB file system area, return code=*aa....aa*,
file system=*bb....bb* (*cc....cc*)

An error occurred during a utilization rate check on HiRDB file system area for work tables.

aa....aa: Return code

bb....bb: Name of HiRDB file system area

If the path name of HiRDB file system area exceeds 117 characters, the last 117 characters of HiRDB file system area path name are output.

cc....cc: Server name

S: Continues processing by temporarily skipping checking the utilization rate on the affected HiRDB file system area for work tables. However, the system does not discontinue checking the utilization rate. If the same error persists in utilization rate checks on the same area, the system outputs this error message at the first occurrence of the error, without generating subsequent messages.

O: Notify HiRDB administrator.

Action

See *5.1 Error codes returned from HiRDB file system access requests* and eliminate the cause of the error. Utilization rate checks are done on HiRDB file system area for work tables according to the specification made in `pd_watch_resource` or `pdwork_wrn_pnt`.

KFPH29006-W L

HiRDB file "*aa...aa*" information, return code=*bbbb*, HiRDB file name=*cc...cc*

The "*aa...aa*" processing for HiRDB file *cc...cc* terminated with error code *bbbb*.

aa...aa: Type of HiRDB file processing:

create: HiRDB file creation

delete: HiRDB file deletion

bbbb: Error code

cc...cc: *Name-of-HiRDB-file-system-area\Name-of-HiRDB-file*

If the path name of HiRDB file exceeds 148 characters, the last 148 characters of HiRDB file path name are output.

S: Continues processing.

Action

See *5.1 Error codes returned from HiRDB file system access requests* and eliminate the cause of the error.

However, if "*aa...aa*" is create and the error code is -1541, HiRDB file the user tried to create has already been defined. It is possible that the deletion of HiRDB file failed first. In this case, see the KFPH29006-W message issued before this message to check the delete error code for "*aa...aa*" in *5.1 Error codes returned from HiRDB file system access requests* and eliminate the cause of the error.

KFPH29008-I L

Work buffer expanded, server=*aa...aa*, process ID=*bb...bb*

The work table buffer size specified in the `pd_work_buff_size` operand in the system definition was insufficient, but a work table buffer extension was available because the `pd_work_buff_expand_limit` operand was specified.

aa...aa: Server name

bb...bb: Process ID

S: Continues processing.

Action

Operation premised on availability of the work table buffer extension:

To suppress the outputting of this error message, use the `pd_work_table_option` operand to specify that message output be suppressed when extending the work table buffer length.

Operation not premised on availability of the work table buffer extension:

Re-evaluate the specification value of the `pd_work_buff_size` operand so that securing an extension of the work table buffer is not necessary.

Notes

When extending the work table buffer, release the secured extended work table buffer when the work table usage count in the applicable server processes is 0. The work table usage count becomes 0 in the following situations:

- When all cursors in use were closed (however, the work table usage count may not become 0 in some internal processes)
- When not using a holdable cursor and transactions ended normally or transactions were cancelled
- When using a holdable cursor and the UAP is isolated from HiRDB

When using a different HiRDB version than the Linux or Windows version and extending the work table buffer, terminate processes, including even resident processes, at the following events to free up memory:

For HiRDB/Single Server:

Terminate single server processes when detaching a UAP from HiRDB.

For HiRDB/Parallel Server:

Terminate the back-end server process or dictionary server process when not using a holdable cursor, when transactions terminate normally, or when transactions are deleted.

When using a holdable cursor, terminate the back-end server process or the dictionary server process when detaching a UAP from HiRDB.

KFPH29009-W L

Unable to expand work buffer due to insufficient memory,
server=*aa....aa*, process ID=*bb....bb*, size=*cc....cc*

An attempt to secure a work table buffer extension according to specification of the operand `pd_work_buff_expand_limit` was made, but it failed because of insufficient process private area.

aa....aa: Server name

bb....bb: Process ID

2. Messages

cc....cc: Total work table buffer size in the applicable process (in kilobytes)

S: Continues processing.

Action

Operation premised on availability of the work table buffer extension:

Reduce the specification value of the `pd_work_buff_expand_limit` operand to no greater than *cc....cc*.

Operation not premised on availability of the work table buffer extension:

Do not specify the `pd_work_buff_expand_limit` operand.

2.6 KFPI messages

KFPI21501-I E

Usage: pdfbkup [-y] [-i] [-r] [-{c|l|f}]
 HiRDB_file_system_area_name[/file_name] backup_file

Displays the format of the pdfbkup command that saves the specified HiRDB file system in the file.

This message is output when a specified command option or argument is invalid.

S: Terminates processing.

O: Reenter correctly the specified command.

KFPI21502-I E

Usage: pdfrstr [-y] [-q] [-{t|o|r}] backup_file[/file_name]
 HiRDB_file_system_area_name

Displays the format of the pdfrstr command that stores (restores) The HiRDB file system from a saved file.

This message is output when a specified command option or argument is invalid. However, in the Windows version, the -q option is disabled, so this message can be ignored. If the -q option is specified, it has no meaning.

S: Terminates processing.

O: Reenter correctly the specified command.

KFPI21503-I E

Usage: pdfls [-H] [{L|S}] [{t|u}] HiRDB_file_
 system_area_name[/file_name]
 pdfls [-x] HiRDB_file_system_area_name [/file_name]

Displays the format of the pdfls command that displays a list of the HiRDB files. This message is output when a specified command option or argument is invalid.

S: Terminates processing.

O: Reenter the command specified correctly.

KFPI21505-I E

Usage: pdfmkfs -n capacity -l file_count [-e expand_count] [-i]
 [-k area_kind] [-s sector_size] character_special_file pdfmkfs
 [-r] -n capacity -l file_count [-e expand_count] [-i] [-k
 area_kind] UNIX_regular_file

Displays the format of the pdfmkfs command that initializes a HiRDB file system area. This message is output when a specified command option or argument is invalid.

S: Terminates processing.

O: Reenter correctly the specified command for a HiRDB/Single Server.

KFPI21510-E E

Backup file open error, file name=*aa...aa* errno=*bbb*

Opening of backup file *aa...aa* failed with error number *bbb*.

aa...aa: Backup file name

If the name of the backup file exceeds 148 characters, the last 148 characters of the backup file name are output.

bbb: Error number

S: Terminates processing.

O: Refer to the error number and take appropriate action. The following table shows the error numbers and actions.

Error number	Explanation	Action
2	Specified file or directory cannot be found.	<ul style="list-style-type: none"> Check the specified file or directory and re-execute.
5	I/O error occurred.	<ul style="list-style-type: none"> Check other message. Change the file name and re-execute.
11	Specified file is locked by another process.	<ul style="list-style-type: none"> Wait until the locked process terminates and re-execute. Change the file name and re-execute.
13	User does not have access privilege to the specified file.	<ul style="list-style-type: none"> Ask a user who has access privilege to re-execute. Ask the file owner to modify the access privilege and re-execute. Change the file name and re-execute.
17	Specified file already exists.	<ul style="list-style-type: none"> Change the file name and re-execute. Specify the command with the <code>remove</code> option and re-execute.
20	Directory with the specified path name cannot be found.	<ul style="list-style-type: none"> Correct the path name specification and re-execute.
21	Specified file is a directory.	<ul style="list-style-type: none"> Correct the file name specification and re-execute.
23	File table is full.	<ul style="list-style-type: none"> Terminate unneeded processes and re-execute. In UNIX, increase the value of <code>nfiles</code> using Kernel Configuration of the <code>sam</code> system command, reconstruct the system, and re-execute the command.
24	Number of open files exceeds the value defined for the system.	
28	File system is full.	<ul style="list-style-type: none"> Delete unneeded files and re-execute.
Other	—	<ul style="list-style-type: none"> Contact a customer engineer.

—: Not applicable

KFPI21511-E E

Backup file *aa....aa* already exist

Backup file *aa....aa* already exists.

aa....aa: Backup file

If the name of the backup file exceeds 148 characters, the last 148 characters of the backup file name are output.

S: Terminates processing.

O: Specify the *-r* option. Or, change the backup file name and re-execute.

KFPI21512-W E

HiRDB file create error, HiRDB file system area=*aa....aa*, file name=*bb....bb*, errno=*cccc*

HiRDB file *bb....bb* cannot be created in HiRDB file system area *aa....aa* because of error number *cccc*.

aa....aa: Name of the HiRDB file system area

If the name of the HiRDB file system area exceeds 114 characters, the last 114 characters of the HiRDB file system area name are output.

bb....bb: HiRDB file name

cccc: Error code

S: Resumes processing.

O: Check the error number and take appropriate action.

KFPI21513-Q S

HiRDB file system area *aa....aa* restore from *bb....bb*. [G:continue, T:terminate]

Asks the operator whether or not data from backup file *bb....bb* is to be restored to the specified HiRDB file system area *aa....aa*.

aa....aa: Name of the HiRDB file system area

If the name of the HiRDB file system area exceeds 76 characters, the last 76 characters of the HiRDB file system area name are output.

bb....bb: Backup file name

If the name of the backup file exceeds 76 characters, the last 76 characters of the backup file name are output.

S: Waits for the operator's response.

O: Enter one of the following:

G: Resume processing

T: Terminate processing

KFPI21514-Q S

HiRDB file system area *aa....aa* backup to *bb...bb*. [G:continue,
T:terminate]

Asks the operator whether or not the specified HiRDB file system area *aa....aa* is to be saved in backup file *bb....bb*.

aa....aa: Name of the HiRDB file system area

If the name of the HiRDB file system area exceeds 78 characters, the last 78 characters of the HiRDB file system area name are output.

bb...bb: Backup file name

If the name of the backup file exceeds 78 characters, the last 78 characters of the backup file name are output.

S: Waits for the operator's response.

O: Enter one of the following:

G: Resume processing

T: Terminate processing

KFPI21515-E E

Unable to restore because sector size boundary unmatched, file name=*aa....aa*, HiRDB file record size=*bb...bb*, HiRDB file system area sector size=*cc....cc*

HiRDB file *aa....aa* could not be stored because the record length of the HiRDB file and the sector length of the HiRDB file system area do not match. The record length of the HiRDB file is *bb....bb* and the sector length of the HiRDB file system area is *cc....cc*.

aa....aa: HiRDB file name

bb...bb: Record length of the HiRDB file

cc....cc: Sector length of the HiRDB file system area

S: Continues processing.

Action

Initialize the HiRDB file system area specifying the sector length so the record length is a multiple of the sector length, and then re-execute the command.

KFPI21516-E E

Unable to *aa....aa* : Not owner

UNIX version:

The user executing the command is not a superuser or the owner of the HiRDB file system area. Therefore, the user cannot back up, restore, or repair the HiRDB file system area.

Windows version:

The user executing the command is not the owner of the HiRDB file system area. Therefore, the user cannot back up, restore, or repair the HiRDB file system area.

aa....aa: Processing type { "backup" | "restore" | "repair" }

S: Terminates processing.

O: Take the following action:

UNIX version:

Re-execute as a superuser or the owner of the HiRDB file system area.

Windows version:

Re-execute as the owner of the HiRDB file system area.

KFPI21517-W E

Unable to backup because I/O error occurred, file name=*aa....aa*

HiRDB file *aa....aa* cannot be backed up because an I/O error occurred.

aa....aa: HiRDB file name

S: Terminates processing.

O: Take action appropriate to the error message for the file involved in the backup processing and re-execute the backup or recovery command.

KFPI21518-E E

File *aa....aa* not backup file

Specified file *aa....aa* is not a backup file.

aa....aa: Backup file name

If the name of the backup file exceeds 148 characters, the last 148 characters of the backup file name are output.

S: Terminates processing.

O: Specify the correct backup file and re-execute the command.

KFPI21519-E E

HiRDB file *aa....aa* not found in backup file

Specified HiRDB file *aa....aa* was not found in the backup file.

aa....aa: HiRDB file name

S: Terminates processing.

O: Check the name of the HiRDB file or backup file and re-execute the command.

KFPI21527-E E

HiRDB file system area *aa....aa* locked in other process, pid=*bb....bb*

Indicated HiRDB file system area cannot be initialized because it is being used by another process.

aa....aa: Name of the HiRDB file system area

If the name of the HiRDB file system area exceeds 117 characters, the last 117 characters of the HiRDB file system area name are output.

bb....bb: ID of the process locking the HiRDB file system area

For UNIX HiRDB servers, either the locked process ID or -1 is displayed. For Windows HiRDB servers, -1 is displayed.

When -1 is displayed, it indicates the locked process exists but the process ID could not be fetched.

S: Terminates abnormally.

Action

Take one of the following actions:

- Wait for the process using the HiRDB file system area to terminate, and then re-execute.
- If HiRDB is running, terminate, and then restart HiRDB. If HiRDB is currently shutting down, wait for other commands manipulating HiRDB files in the HiRDB file system area to terminate, and then re-execute the process.

KFPI21528-E E

HiRDB file system area *aa....aa* locked by other process, PID=*bb....bb*

HiRDB file system area *aa....aa* cannot be backed up, restored, validated, or repaired, because it is locked by another process (*bb....bb*).

aa....aa: Name of the HiRDB file system area

If the name of the HiRDB file system area exceeds 148 characters, the last 148 characters of the HiRDB file system area name are output.

bb....bb: ID of the process locking the HiRDB file system area

For UNIX HiRDB servers, either the locked process ID or -1 is displayed. For Windows HiRDB servers, -1 is displayed.

When -1 is displayed, it indicates the locked process exists but the process ID

could not be fetched.

S: Terminates processing.

O: Wait until the process that locked the HiRDB file system area terminates and re-execute.

For restoration command:

If HiRDB is operating, stop HiRDB and re-execute the command. When stopping HiRDB, wait for other commands that operate on the HiRDB file system area to be completed, and then re-execute the command.

For backup command:

Specify the `-f` option and re-execute the command.

KFPI21529-W E

HiRDB file *aa....aa* locked by other process, PID=*bb...bb*

HiRDB file *aa....aa* cannot be backed up because it is locked by another process (*bb....bb*).

aa....aa: HiRDB file name

bb...bb: ID of the process locking the HiRDB file system area

For UNIX HiRDB servers, either the locked process ID or `-1` is displayed. For Windows HiRDB servers, `-1` is displayed.

When `-1` is displayed, it indicates the locked process exists but the process ID could not be fetched.

S: Resumes processing.

O: Wait for the process that is locking the HiRDB file to terminate, and then re-execute.

For restoration command:

When HiRDB is operating, stop HiRDB and re-execute the command.

When HiRDB has stopped, wait until another command that is manipulating the HiRDB file terminates and re-execute the command.

For backup command:

Specify the `-f` option and re-execute the command.

KFPI21530-Q S

HiRDB file system area *aa....aa* already exist. [G:continue, T:terminate]

Asks the operator whether or not the specified HiRDB file system area is to be initialized.

aa....aa: Name of the HiRDB file system area

If the name of the HiRDB file system area exceeds 117 characters, the last 117 characters of the HiRDB file system area name are output.

S: Waits for the operator's response.

O: Enter one of the following:

G: Resume processing

T: Terminate processing

KFPI21531-E E

No more space or partition size over in HiRDB file system area
aa....aa

The size specified in the -n option cannot be allocated.

In UNIX, if character special files are used, the size specified in the -n option is greater than the specified HiRDB file system area.

aa....aa: Name of the HiRDB file system area

If the name of the HiRDB file system area exceeds 117 characters, the last 117 characters of the HiRDB file system area name are output.

S: Terminates processing.

O: Take the following action, if possible, and re-execute:

UNIX version:

- Reduce the size to be initialized.
- Specify an appropriate size character special file.
- Delete other files from the OS file system.

Windows version:

- Reduce the size to be initialized.

KFPI21532-E E

Unable to initialize : Not owner

UNIX version:

Because the executing user is not the super user or the owner of the HiRDB file system area, the HiRDB file system area cannot be initialized.

Windows version:

Because the executing user is not the owner of the HiRDB file system area, the user cannot initialize the HiRDB file system area.

S: Terminates processing.

O: Take the following action:

UNIX version:

Re-execute the command as the superuser or the owner of the HiRDB file system area.

Windows version:

Re-execute the command as the owner of the HiRDB file system area.

KFPI21533-E E

File name *aa...aa* not found

Specified HiRDB file was not found in the HiRDB file system area.

aa...aa: Name of HiRDB file

S: Terminates processing.

Action

Check the HiRDB file name and re-execute.

KFPI21534-E E

Invalid argument for *aa* operand in *bb...bb* command

Invalid argument was specified in operand *aa* of command *bb...bb*.

aa: Operand name

bb...bb: Command name

S: Terminates processing.

O: Correct the operand argument and re-execute.

For the `pdfmkfs` command:

There are cases when the `-k` option is displayed incorrectly even though the `-k` option was not specified. Because `SVR` is assumed when the `-k` option is not specified, for the following reasons, an error occurs when specifying the `-k` option:

- For Linux, `-k SVR` cannot be specified in the HiRDB file system area in the character special files
- For Windows, `-k SVR` cannot be specified in the HiRDB file system area in direct disk access (raw I/O).

KFPI21536-E E

Mandatory argument missing

No argument was specified for an operand, or too many arguments were specified.

S: Terminates processing.

2. Messages

O: Correct the operand according to the usage in the message displayed immediately after this message and re-execute.

KFPI21537-E E

Invalid operand combination

A required operand is missing or a combination of operands is invalid.

S: Terminates processing.

O: Correct the operand according to the usage in the message displayed immediately after this message and re-execute.

KFPI21538-E E

Area_kind *aaaa* is not supported character_special_file in *bb...bb* command, HiRDB file system area=*cc...cc*

HiRDB file system area *cc...cc* specified in command *bb...bb* is a character special file. The HiRDB file system area cannot be created in a character special file for usage objective *aaaa*.

aaaa: Usage objective of the HiRDB file system area

bb...bb: Command name

cc...cc: HiRDB file system area name

If the name of the HiRDB file system area exceeds 117 characters, the last 117 characters of the HiRDB file system area name are output.

S: Terminates processing.

Action

Create the HiRDB file system area in a regular file, or check if the usage objective is correct.

KFPI21547-I E

aa...aa command terminated normally

Command *aa...aa* terminated normally.

aa...aa: Command name: { "pdfbkup" | "pdfrstr" | "pdffsck" }

S: Resumes processing.

KFPI21548-W E

aa...aa command terminated with warning

Command *aa...aa* terminated with warning.

aa...aa: Command name: { "pdfbkup" | "pdfrstr" | "pdffsck" }

S: Resumes processing.

O: Check the message output before this message. If there is a problem, terminate the

processing corresponding to the previous message and re-execute.

KFPI21549-E E

aa....aa command terminated with error

Command *aa....aa* terminated because of an error, or a termination request was received from the user in response to an inquiry by a KFPI21514-Q or KFPI21558-I message.

aa....aa: Command name: { "pdfbkup" | "psfrstr" | "pdfsck" }

S: Terminates processing.

O: If the user did not enter `stop`, terminate processing on the basis of the message output before this message and re-execute.

KFPI21550-I E

Usage: `pdfrm [-I] HiRDB_file_system_area_name/file_name`

Displays the format of the `pdfrm` command that deletes a HiRDB file system. This message is output when a specified command option or argument is invalid.

S: Terminates processing.

O: Reenter the command specified correctly.

KFPI21551-I E

Usage: `pdfstatfs [-c|d] [-S] HiRDB_file_system_area_name`

Displays the format of the `pdfstatfs` command that displays HiRDB file system area status. This message is output when a specified command option or argument is invalid.

S: Terminates processing.

O: Reenter the command specified correctly.

KFPI21552-Q S

aa....aa: ? (y/n)

Asks the operator whether or not HiRDB file *aa....aa* is to be deleted.

aa....aa: Name of HiRDB file

S: Waits for the operator's response.

O: Enter one of the following:

y: Delete file

n: Do not delete file

KFPI21553-W E

File not restored, target HiRDB file was updated after backup, use `-r` option to force restore, HiRDB file name=*aa....aa*

A HiRDB file in the backup file has the same name as another file. The HiRDB file was not restored at the restoration destination because it had been updated after being backed up with the `pdfbkup` command. To force restoration, specify the `-r` option.

aa....aa: Name of HiRDB file

S: Resumes processing.

O: Check the HiRDB file name. If the HiRDB file must be restored, specify the `-r` option, then re-execute.

KFPI21554-W E

File not restored, HiRDB file already exists, HiRDB file name=*aa....aa*

The specified file cannot be restored because a file with the same file name already exists in the HiRDB file system area at the restoration destination.

aa....aa: Name of HiRDB file

S: Resumes processing.

O: Check the backup file and restoration destination file. If the file can be restored, specify the `-r` option and re-execute.

KFPI21555-E E

No HiRDB file in HiRDB file system area *aa....aa*

No HiRDB file was found in HiRDB file system area *aa....aa*. The `pdfpls` or `pdfstatfs` command can be used to check whether or not an HiRDB file exists in the HiRDB file system area.

aa....aa: Name of the HiRDB file system area

If the name of the HiRDB file system area exceeds 117 characters, the last 117 characters of the HiRDB file system area name are output.

S: Terminates processing.

O: Check the specified HiRDB file system area and re-execute.

KFPI21556-E E

Invalid or too long backup file name *aa....aa*

The name of the specified backup file contains an invalid character, or the length of the backup file name exceeds the maximum length. For details on how to specify file names, see the *HiRDB Version 8 Command Reference*.

aa....aa: Backup file name

If the name of the backup file exceeds 148 characters, the last 148 characters of the backup file name are output.

S: Terminates processing.

O: Specify the correct backup file name and re-execute.

KFPI21557-I E

Usage: `pdffsck [-c] HiRDB_file_system_area_name`

This message shows how to perform an integrity check on the HiRDB file system area or how to use a repair command; it is output when there is an error in a command option or argument.

S: Terminates processing.

O: Revise the command format, and re-execute the command.

KFPI21558-I S

HiRDB file system area *aa....aa* consistent.

There is no integrity error in the specified HiRDB file system area (no repair needed).

aa....aa: HiRDB file system area name

If the HiRDB file system area name is 118 characters or longer, the last 117 characters of the HiRDB file system area name are output.

S: Terminates processing.

KFPI21559-W S

HiRDB file system area *aa....aa* inconsistent.

An integrity error occurred in the specified HiRDB file system area (needs to be repaired).

aa....aa: HiRDB file system area name

If the HiRDB file system area name is 118 characters or longer, the last 117 characters of the HiRDB file system area name are output.

S: Continues processing.

O: The HiRDB file system area is not repaired if the `-c` option is specified in the `pdffsck` command. Therefore, re-execute the `pdffsck` command without specifying the `-c` option.

KFPI21560-I S

HiRDB file system area *aa....aa* repair complete.

The repair of the specified HiRDB file system area was completed.

aa....aa: HiRDB file system area name

If the HiRDB file system area name is 118 characters or longer, the last 117 characters of the HiRDB file system area name are output.

S: Terminates processing. Waits for a response.

KFPI21561-E E+L

I/O error occurred, HiRDB file system area *aa...aa*.

An I/O error occurred in the indicated HiRDB file system area.

aa...aa: HiRDB file system area name

If the HiRDB file system area name is 118 characters or longer, the last 117 characters of the HiRDB file system area name are output,

S: If the operation can be continued, continues processing. If the operation cannot be continued, terminates HiRDB abnormally.

Action: Take action according to the KFPO00107-E message that was output before this message. For details about how to take corrective action after resolving an error in the HiRDB file system area or in a HiRDB file, see the manual *HiRDB Version 8 System Operation Guide*.

KFPI21562-E E+L

HiRDB file system area *aa...aa* access skipped because I/O error had already occurred.

Access to a HiRDB file system area where an I/O error occurred was skipped.

aa...aa: HiRDB file system area name

If the HiRDB file system area name is 118 characters or longer, the last 117 characters of the HiRDB file system area name are output.

S: If the operation can be continued, continues processing. If the operation cannot be continued, terminates HiRDB abnormally.

Action: Take action according to the KFPI21561-E message that was output before this message.

KFPI21570-E E

Version mismatch in HiRDB file system area *aa...aa*, version : *bbbbbb*

The HiRDB file system area version is newer than the HiRDB version.

aa...aa: Name of the HiRDB file system area

If the name of the HiRDB file system area exceeds 117 characters, the last 117 characters of the HiRDB file system area name are output.

bbbbbb: Version number of the HiRDB file system area

S: Terminates processing.

Action

Confirm that HiRDB is correctly assembled, and re-execute. Or, confirm that the HiRDB execution path is correct, and re-execute.

KFPI21571-E E

HiRDB file system area *aa....aa* permission denied

UNIX version:

The user does not have access privilege (specified by the `chmod` OS command) for HiRDB file system area *aa....aa*.

Windows version:

The user does not have access privilege (specified in the file properties) for HiRDB file system area *aa....aa*.

aa....aa: Name of the HiRDB file system area

If the name of the HiRDB file system area exceeds 117 characters, the last 117 characters of the HiRDB file system area name are output.

S: Terminates processing.

Action

In UNIX, use the `chmod` OS command to change the access privilege for the HiRDB file system area. In Windows, use the file properties to change the access privilege, or re-execute the command as a user with the necessary access privilege.

If Real Time SAN replication with the log-only synchronous method is used, and if the `pdbkup` command is used at a log application site to create a synchronization point dump file for log application processing and a status file for log application processing, execute the command by specifying the `-f` option. This is necessary because the HiRDB file system area where the target synchronization point dump file for transaction processing and the status file for transaction processing are stored is in a paired status with a transaction site, and the user does not have write privilege for it.

KFPI21572-E E

Too many open files on HiRDB file system area *aa....aa*

The maximum number of files that can be opened in HiRDB file system area *aa....aa* has already been reached.

aa....aa: Name of the HiRDB file system area

If the name of the HiRDB file system area exceeds 117 characters, the last 117 characters of the HiRDB file system area name are output.

S: Terminates processing.

Action

Take the following action:

UNIX version:

Re-execute after another process has terminated. Or, change the maximum number of files that can be opened (`nfiles`) with `Kernel Configuration` of the `sam` system command, reconstruct the system, then re-execute.

Windows version:

Wait until the other process has terminated, and then re-execute the command.

KFPI21573-E E

HiRDB file system area *aa...aa* not found

Specified HiRDB file system area was not found or the specified HiRDB file system area name is invalid.

aa...aa: Name of the HiRDB file system area

If the name of the HiRDB file system area exceeds 117 characters, the last 117 characters of the HiRDB file system area name are output.

S: Terminates processing.

O: Specify the correct HiRDB file system area name and re-execute.

KFPI21574-E E

Invalid or too long HiRDB file system area name *aa...aa*

The specified HiRDB file system area includes an invalid character. Or, the name of the HiRDB file system area is too long.

aa...aa: Name of the HiRDB file system area

If the name of the HiRDB file system area exceeds 117 characters, the last 117 characters of the HiRDB file system area name are output.

For specifiable characters, see the *HiRDB Version 8 Command Reference*.

S: Terminates processing.

O: Specify the correct HiRDB file system area name and re-execute.

KFPI21575-E E

Invalid file type in *aa...aa*

Specified file *aa...aa* is neither a character special file nor a regular file.

aa...aa: Name of the HiRDB file system area

If the name of the HiRDB file system area exceeds 117 characters, the last 117 characters of the HiRDB file system area name are output.

S: Terminates processing.

O: Specify a character special file or regular file and re-execute.

KFPI21576-E E

File *aa....aa* not HiRDB file system area

Specified file *aa....aa* is not a HiRDB file system area.

aa....aa: Name of specified file

If the name of the specified file exceeds 117 characters, the last 117 characters of the file name are output.

S: Terminates processing.

O: Specify the correct HiRDB file system area name and re-execute.

KFPI21578-E E

Insufficient lock segment for HiRDB file system area

The `fcntl` system call used for lock processing of the HiRDB file system area exceeded the maximum lock value.

S: Terminates processing.

O: Take the following action:

UNIX version:

Change `nfllocks` with `Kernel Configuration` of the `sam` system command, reconstruct the system, then re-execute. Or, re-execute after the other process using the lock has terminated.

Windows version:

Wait until lock processing has terminated, and then re-execute the command.

KFPI21580-E E

Control block was destroyed, HiRDB file system area=*aa....aa*

Management information for a HiRDB file system area has been damaged.

aa....aa: Name of HiRDB file system area

If the name of the HiRDB file system area exceeds 117 characters, the last 117 characters of the HiRDB file system area name are output.

S: Terminates processing.

O: Recover the HiRDB file system area from its backup copy and re-execute.

KFPI21581-E E

I/O error occurred, `file_name=aa....aa`

An I/O error occurred in file *aa....aa*.

aa....aa: Name of the HiRDB file or name of the backup file

2. Messages

For the HiRDB file name, only the HiRDB file name itself is output, and for the backup file name, the absolute path of the backup file name is output. Moreover, if the name of the file exceeds 148 characters, the last 148 characters are output.

S: Terminates processing.

O: See the error number (`errno`) displayed in the KFPO00107-E message output before this message and take appropriate action. If no KFPO00107-E message is output, the output destination of the file has a memory shortage.

KFPI21582-E E+L

Insufficient memory on PROCESS, size=*aaaaa*

A shortage occurred in the process private area.

aaaaa: Requested size (in bytes)

S: Terminates processing.

Action

Terminate an unneeded process and re-execute.

KFPI21583-E E

I/O error occurred, HiRDB file system : *aa....aa*

An I/O error occurred in the management area for HiRDB file system area *aa....aa*.

aa....aa: Name of the HiRDB file system area

If the name of the HiRDB file system area exceeds 117 characters, the last 117 characters of the HiRDB file system area name are output.

S: Terminates processing.

O: Take appropriate action on the basis of the `errno` displayed in the KFPO00107-E message that was issued before this message.

KFPI21584-E E

Specification of *aa* option required in *bb....bb* command

Specify the *aa* option to execute command *bb....bb*.

aa: Option name

bb....bb: Command name

S: Terminates processing.

Action

Specify option *aa*, and then re-execute the command.

KFPI21585-E S

Control block was destroyed and recovery impossible, HiRDB file system area=*aa....aa*.

Management information for a HiRDB file system area has been damaged; the area cannot be restored.

aa...aa: HiRDB file system area name

If the HiRDB file system area name is 118 characters or longer, the last 117 characters of the HiRDB file system area name are output.

S: Continues processing.

O: Refer to the section on how to resolve errors in a HiRDB file system area in the manual *HiRDB Version 8 System Operation Guide*.

KFPI21586-W S

Unusable HiRDB file exists.

A HiRDB file that is not referenced by management information for the HiRDB file system area exists.

S: Continues processing.

O: Restore the file by executing the `pdffsck` command without the `-c` option.

KFPI21599-E E

Logical inconsistency occurred in *aa...aa:bb...bb*

An internal contradiction was detected in the HiRDB file system.

aa...aa: Name of file resulting in contradiction

bb...bb: Sequence number resulting in contradiction

S: Terminates processing.

O: Contact the HiRDB administrator.

Action

Contact a customer engineer.

2.7 KFPJ messages

KFPJ00001-E A

System call error occurred. [*aa....aa* code:*bb...bb*]

An error occurred in a system call function.

aa....aa: Name of the system call function in which the error occurred

bb...bb: Error code returned by the `GetLastError` function

S: Terminates processing.

Action

Perform shutdown and re-execute. If this error recurs repeatedly, contact a customer engineer.

KFPJ00002-E A

An abnormality occurred. [*aa....aa* Line:*bb...bb*]

An error occurred during Java application execution.

aa....aa: Name of the source file in which the error occurred

bb...bb: Line number where the error occurred

S: Terminates processing.

Action

Contact a customer engineer.

KFPJ00003-E A

Memory became insufficient

A memory shortage occurred during Java application execution.

S: Terminates processing.

Action

Close other application programs and re-execute.

KFPJ00004-E A

Incorrect environment. Re-install.

The operating environment is invalid. Following are possible causes of this problem:

- Installation was not terminated correctly.
- An environment variable (registry) is invalid.
- File does not exist or has been destroyed.

S: Terminates processing.

Action

Re-install the JDBC driver and re-execute.

KFPJ00005-E A

An error occurred during initialization.

An error occurred during initialization.

S: Terminates processing.

Action

If the cause of the definition error cannot be identified, delete the applicable definition file.

KFPJ00201-E A

The directory is invalid.

The directory is invalid. Following are possible causes of this problem:

- Directory name specification is invalid
- A nonexistent directory was specified

S: Terminates processing.

Action

Specify the correct directory name and re-execute.

KFPJ000202-E A

The numerical data is outside the range.

Numerical data that is not within the specifiable range of values was entered.

Following are possible causes of this problem:

- Non-numerical data (such as characters) was entered.
- A double-byte character was entered.
- Numerical data that is not within the specifiable range of values was entered.

S: Terminates processing.

Action

Check the specifiable range of values and re-enter the data.

KFPJ01001-E A

Memory became insufficient. [*aa....aa*]

A memory shortage occurred during allocation of an area needed for processing.

aa....aa: Maintenance information

S: Terminates processing.

Action

Terminate other active processes and re-execute.

KFPJ01002-E A

Sequence error occurred. [*aa....aa*]

The user's sequence of requests to the database was invalid.

aa....aa: Maintenance information

S: Rejects the request from the user.

Action

Check the request sequence to the database.

KFPJ01003-E A

System call error occurred. [*aa....aa*]

An error occurred in a system call.

aa....aa: Maintenance information

S: Terminates processing.

Action

Re-execute the operation. If this error recurs repeatedly, contact a customer engineer.

KFPJ01004-I A

DBMS processing was canceled.

Database processing is being cancelled.

S: Cancels the database processing.

Action

Re-execute as necessary.

KFPJ01005-E A

A data attribute that is not supported was found. [*aa....aa*]

Specified table column attribute *aa....aa* cannot be used.

aa....aa: Code (in hexadecimal) of table column attribute that cannot be used.

S: Rejects the request from the user.

Action

Correct the table column attribute and re-execute the user's request. For information on column attribute codes, see the manual on the database at the

connection destination.

KFPJ01007-E A

Not support tables containing multivalue columns and array columns.

A table containing a repetition column or array column cannot be used.

S: Rejects the request from the user.

Action

Correct the column attribute and re-execute the user's request.

KFPJ01013-E A

The permission identifier, password or DBMS information specified by the user exceeded 32 bytes.

Authorization identifier, password, or database information specified by the user was longer than 32 bytes.

S: Rejects the request from the user.

Action

Specify the authorization identifier, password, or database information as no more than 32 bytes.

KFPJ01014-E A

An error occurred in the distributed server. nodename=*aa....aa*
error text=

An error occurred in the distributed server.

aa....aa: RD-node name

S: Rejects the request from the user.

Action

Refer to the manual for the system in which the error occurred.

KFPJ01017-E A TYPE4

Invalid table type, index=*aa....aa*, table type=*bb...bb*

An argument in the `getTables` method contains an error in the table type specified in a string type array.

aa....aa: Subscript of a string type array

bb...bb: Value of the specified table type

S: Terminates processing.

Action: Specify the correct table type, and then re-execute the command.

KFPJ01017-E A TYPE2

Incorrect table attribute. [*aa...aa*]

A table attribute specification is incorrect.

aa...aa: Error code

S: Rejects the request from the user.

Action

Correct the table attributes specification and re-execute. Check the following items, depending on the error code that is output:

- If the error code is 1, check that the table attributes are enclosed in single quotation marks (').
- If the error code is 2, check whether the specified table attributes are correct.
- If the error code is 3, check whether the delimiter used between multiple table attributes is valid.

KFPJ01018-E A

Incorrect input parameter. [*aa...aa*]

An input parameter is incorrect.

aa...aa: Maintenance information

S: Rejects the request from the user.

Action

Specify the correct input parameter and re-execute.

KFPJ01019-E A

Incorrect output parameter. [*aa...aa*]

An output parameter is incorrect.

aa...aa: Maintenance information

S: Rejects the request from the user.

Action

Specify the correct output parameter and re-execute.

KFPJ01020-E A

Incorrect version of the DBMS. [*aa...aa*]

The database version cannot be connected.

aa...aa: Maintenance information

S: Rejects the request from the user.

Action

Contact the system administrator to verify the database version.

KFPJ01021-E A

Incorrect multiple SQL execution. [*aa....aa*]

The specification for executing multiple SQL statements is incorrect.

aa....aa: Maintenance information

S: Rejects the request from the user.

Action

Correct the specification for executing multiple SQL statements and re-execute.

KFPJ01025-E A

Not prepared to connect to HiRDB. [*aa....aa*]

The environment for connecting to HiRDB is not ready.

aa....aa: Maintenance information

S: Rejects the request from the user.

Action

Check the application to ensure that an access request is issued after OTS initialization is completed.

KFPJ01060-E A

An XA request error occurred.

An error occurred in an XA request.

S: Rejects the request from the user.

Action

Refer to the manual for the connected database.

KFPJ01070-E A

Object is null. (*aa....aa*) [function: *bb....bb*]

No object has been created.

aa....aa: Class name of the object for which the error occurred

bb....bb: Name of the function in which the error occurred

S: Passes `jdbInternalException` to the calling class.

Action

Create an object and re-execute.

KFPJ01071-E A

Object is not instance of *aa...aa*. [function: *bb...bb*]

The object is not an instance of the class specified by the class name.

aa...aa: Class name of the object for which the error occurred

bb...bb: Name of the function in which the error occurred

S: Passes `jdbInternalException` to the calling class.

Action

Create an instance of an appropriate class and re-execute.

KFPJ01072-E A

Array length is too short. (*aa...aa*) [function: *bb...bb*]

The necessary number of array elements has not been generated.

aa...aa: Name of the array in which the error occurred

bb...bb: Name of the function in which the error occurred

S: Passes `jdbInternalException` to the calling class.

Action

Generate the necessary number of array elements and re-execute.

KFPJ01073-E A

Array is null. (*aa...aa*) [function: *bb...bb*]

No array has been generated.

aa...aa: Name of the array in which the error occurred

bb...bb: Name of the function in which the error occurred

S: Passes `jdbInternalException` to the calling class.

Action

Generate an array and re-execute.

KFPJ01074-W A TYPE4

Warning is occurred. [*aaaaaaaa*]

A warning occurred in the connection destination database.

aaaaaaaa: Warning code (warning codes set in logical *OR*)

0x00000001:

A warning occurred

0x00000002:

A truncated value was received during data retrieval.

0x00000004:

A null value was ignored in the processing of a set function.

0x00000010:

UPDATE and DELETE statements without the WHERE clause were executed.

0x00000080:

A repetition column with a subscript was specified in the SET or DELETE clause of an UPDATE statement, but the update was ignored because the row to be updated does not contain any elements.

0x00000400:

The result of a data operation was a nonexistent date. The result was changed to the last day of the month.

0x00000800:

Either an overflow or a division by zero occurred during execution of an SQL statement. The result of the operation was set as a null value.

0x00001000:

The result of a date operation was a day outside the 00 to 99 range.

S: Continues processing.

Action: Verify the cause of the warning, and take action as necessary.

To resolve a 0x00000002 warning code, review the following specification values:

- Value of the property `HiRDB_for_Java_MAXBINARYSIZE` assigned from the `DriverManager` class during connection
- Value specified in the `setMaxBinarySize` method of the `DataSource` class
- Value specified in the `setMaxBinarySize` method of the `ConnectionPoolDataSource` class
- Value specified in the `setMaxBinarySize` method of the `XADatasource` class

KFPJ01074-W A TYPE2

A warning is occurred. [*aa....aa*]

A warning has been issued at the connected database.

aa....aa: Warning code (which is set based on an OR operation)

2. Messages

0x00000001:

A warning has been issued.

0x00000002:

A truncated value was received in a character data search because the embedded variable for receiving the data was too short.

0x00000004:

A null value was ignored in processing a set function.

0x00000008:

The number of columns in the search results does not match the number of embedded variables for receiving those search results.

0x00000010:

An UPDATE or DELETE statement without a WHERE clause was executed.

0x00000040:

A transaction was cancelled implicitly.

0x00000080:

A repetition column with a subscript was specified for the SET or DELETE clause of an UPDATE statement, but the updating was ignored because the row to be updated has no elements in it.

0x00000400:

The result of a date calculation was a nonexistent date, so it was adjusted to the last day of the month.

0x00000800:

Because overflow or division by zero occurred during execution of an SQL statement computation, the computation result was set to the null value.

0x00001000:

In the result of a date calculation, the day portion in the days interval fell outside the range 00 to 99.

S: Sets an SQLWarning.

Action

Take the appropriate action for the particular warning and re-execute.

KFPJ02001-E A

Not found environment definition file. [aa...aa]

The operating environment definition file was not found in the HiRDB directory.

aa....aa: Name of the operating environment definition file

S: Terminates processing.

Action

Create an operating environment definition file in the HiRDB directory.

KFPJ02002-E A

Incorrect environment definition. [*aa....aa*]

The value of an environment variable that was set in the operating environment definition file was incorrect.

aa....aa: Environment variable name

S: Terminates processing.

Action

Correct the value of the environment variable in the operating environment definition file.

KFPJ02003-E A

Incorrect environment definition. LINE= *aa....aa* [*bb....bb*]

One of the following errors was detected:

- Syntax of the operating environment definition file was incorrect.
- Value of an environment variable that was set in the operating environment definition file is incorrect.

aa....aa: Row in which the error occurred

bb....bb: Definition in which the error occurred

S: Terminates processing.

Action

Correct the operating environment definition file.

KFPJ02004-E A

Not installed.

One of the following errors was detected:

- JDBC driver has not been installed.
- JDBC driver installation environment is invalid.

S: Cancels processing.

Action

Reinstall the JDBC driver.

KFPJ02005-E A

System call error occurred. [*aa....aa*]

An error occurred in a system call.

aa....aa: Maintenance information

S: Cancels processing.

Action

If the cause can be determined from the error code (errno), correct the error. If the cause cannot be determined, contact a customer engineer.

KFPJ02006-E A

System call error occurred. [*aa....aa*]

An error occurred in a system call.

aa....aa: Maintenance information

S: Cancels processing.

Action

If the cause can be determined from the error code (errno), correct the error. If the cause cannot be determined, contact a customer engineer.

KFPJ02007-E A

Unable to open message file. [*aa....aa*]

The message log file cannot be opened.

aa....aa: Maintenance information

S: Continues processing. Subsequent outputs of this message consist of the message ID only without the message text.

Action

Because the operation environment has been destroyed, reset the HiRDB environment.

KFPJ02008-E A

System call error occurred during output of *aa....aa* [*bb....bb*]

A system call error occurred during message log output.

aa....aa: Name of the message log file

bb....bb: Maintenance information

S: Continues processing.

Action

If this error recurs repeatedly, contact a customer engineer.

KFPJ02009-E A

Memory became insufficient. [*aa....aa*]

A shortage occurred in the memory needed for an operation.

aa....aa: Maintenance information

S: Terminates processing.

Action

Wait a while, then re-execute. If this error recurs repeatedly, contact a customer engineer.

KFPJ02010-E A

Incorrect connection database definition. LINE= *aa....aa* [*bb....bb*]

One of the following errors was detected:

- Syntax of connection destination database definition file is incorrect
- A value in the connection destination database definition file is incorrect

aa....aa: Row in which the error occurred

bb....bb: Definition in which the error occurred

S: Terminates processing.

Action

Correct the connection destination database definition file.

KFPJ02011-E A

Not have authority to access the environment definition file.
[*aa....aa*]

There is no access privilege for the operating environment definition file.

aa....aa: Name of the operating environment definition file

S: Terminates processing.

Action

Check whether or not the read privilege has been granted for the operating environment definition file. If not, assign the read privilege. If this error recurs repeatedly, contact a customer engineer.

KFPJ02012-E A

Not have authority to access the connection database definition file. [*aa....aa*]

There is no access privilege for the connection destination database definition file.

aa...aa: Name of the connection destination database definition file

S: Terminates processing.

Action

Check whether or not the read privilege has been granted for the connection destination database definition file. If not, assign the read privilege. If this error recurs repeatedly, contact a customer engineer.

KFPJ02013-E A

The database-type-name is duplicated. LINE= *aa...aa* [*bb...bb*]

The database type in the connection destination database definition file is duplicated.

aa...aa: Row in which the error occurred

bb...bb: Block name in which the error occurred

S: Terminates processing.

Action

Correct the value in the connection destination database definition file.

KFPJ02014-E A

The database-name is duplicated. LINE= *aa...aa* [*bb...bb*]

The database name in the connection destination database definition file is duplicated.

aa...aa: Row in which the error occurred

bb...bb: Block name in which the error occurred

S: Terminates processing.

Action

Correct the value in the connection destination database definition file.

KFPJ02015-E A

The [*aa...aa*] was not found. [*bb...bb*]

A required definition was not found in the block of the connection destination database definition file.

aa...aa: Name of the required definition

bb...bb: Block name of the definition

S: Terminates processing.

Action

Use a text editor, etc., to correct the connection destination database definition file.

KFPJ02016-E A

Incorrect Connection-Multi definition. LINE= *aa....aa* [*bb...bb*]

One of the following errors was detected:

- Syntax of the Connection-Multi definition file is incorrect
- A value in the Connection-Multi definition file is incorrect

aa....aa: Row in which the error occurred

bb...bb: Definition in which the error occurred

S: Terminates processing.

Action

Correct the Connection-Multi definition file.

KFPJ02017-E A

Not have authority to access the Connection-Multi file. [*aa....aa*]

There is no access privilege for the Connection-Multi definition file.

aa....aa: Name of the Connection-Multi definition file

S: Terminates processing.

Action

Check whether or not an access privilege has been granted for the Connection-Multi definition file. If not, assign an access privilege. If this error recurs repeatedly, contact a customer engineer.

KFPJ02018-E A

The Connection-Multi-name is duplicated. LINE= *aa....aa* [*bb...bb*]

The Connection-Multi name in the Connection-Multi definition file is duplicated.

aa....aa: Row in which the error occurred

bb...bb: Block name in which the error occurred

S: Terminates processing.

Action

Correct the value in the Connection-Multi definition file.

KFPJ02019-E A

The directory was not found. Use the default directory. [*aa....aa*]

One of the following errors was detected:

- The directory that was set in an environment variable in the operating environment definition file was not found or could not be used.

2. Messages

- The directory that was set by the user in an environment variable was not found or could not be used.

aa....aa: Environment variable name

S: Ignores the directory specified in the environment variable and uses the default directory.

Action

Take one of the following actions:

- Create the directory that was set in the environment variable.
- Correct the value of the environment variable in the operating environment definition file.
- Correct the value of the environment variable that was set by the user.
- Use the environment setup utility to specify the correct directory.

KFPJ02020-E A

The directory was not found. [*aa....aa*]

One of the following errors was found:

- The directory that was set in an environment variable in the operating environment definition file was not found or could not be used.
- The directory that was set by the user in an environment variable was not found or could not be used.

aa....aa: Environment variable name

S: Terminates processing.

Action

Take one of the following actions:

- Create the directory that was set in the environment variable.
- Correct the value of the environment variable in the operating environment definition file.
- Correct the value of the environment variable that was set by the user.

KFPJ04099-E A

Error occurred. (*aa....aa*) [*bb....bb*] [*cc....cc*] [*dd....dd*] [*ee....ee*]

An error occurred.

aa....aa: Message ID

bb....bb: Message's variable information 0

cc....cc: Message's variable information 1

dd....dd: Message's variable information 2

ee....ee: Message's variable information 3

S: Terminates processing.

Action

Contact a customer engineer.

KFPJ20002-E A TYPE4

Statement closed.

Processing cannot be accepted because the Statement instance is already closed.

S: Terminates processing.

Action: Re-create the Statement instance, and then re-execute the command.

KFPJ20002-E A TYPE2

Statement is closed.

Processing cannot be accepted because the Statement instance is already closed.

S: Passes `SQLException` to the calling class.

Action

Re-create the Statement instance and re-execute.

KFPJ20003-E A TYPE4

Failed character convert.

An error occurred during Unicode conversion of character data.

S: Terminates processing.

Action: Review the following specification values:

- ENCODELANG value of the property specified during database connection
- ENCODELANG value of the URL specified during database connection
- `setEncodeLang` value of the connection information setup method

KFPJ20003-E A TYPE2

Failed character convert.

An error occurred during Unicode conversion of character data.

S: Passes `SQLException` to the calling class.

Action

The problem may be in the character string conversion library of the Java execution environment. Check that the Java execution environment, including the

JDK version, is correct.

KFPJ20004-E A TYPE4

Unable to read java.io.Reader or java.io.InputStream

Unable to read from the java.io.Reader java.io.InputStream specified in the following methods for the PreparedStatement interface:

- setAsciiStream
- setCharacterStream
- setUnicodeStream
- setBinaryStream

S: Terminates processing.

Action: Review the specified java.io.Reader or java.io.InputStream.

KFPJ20004-E A TYPE2

Unable to read stream.

Reading from the input stream failed.

S: Passes SQLException to the calling class.

Action

Check the contents of the input stream specified by the setXXX method of the PreparedStatement class.

KFPJ20005-E A

Unable to write stream.

Writing to the output stream failed.

S: Passes SQLException to the calling class.

Action

Because a memory shortage may have occurred, close other applications and re-execute the UAP.

KFPJ20006-E A TYPE4

Connection closed

Processing cannot be accepted because the Connection instance is already closed.

S: Terminates processing.

Action: Re-create the Connection instance, and then re-execute the command.

KFPJ20006-E A TYPE2

Connection is closed.

Processing cannot be accepted because the Connection instance is already closed.

S: Passes `SQLException` to the calling class.

Action

Re-create the `Connection` instance and re-execute.

KFPJ20007-E A

Number format exception.

Because the data obtained from the database is not numerics, the data cannot be obtained with the `getXXX` method of the `ResultSet` class that was used.

S: Passes `SQLException` to the calling class.

Action

Use a `getXXX` method of the `ResultSet` class that corresponds to the data type.

KFPJ20008-E A

Set number is overflow to server.

Overflow occurred during conversion into the format at the mainframe of data specified by the `setDouble` method of the `PreparedStatement` class.

S: Passes `SQLException` to the calling class.

Action

Check the contents of the data specified by the `setDouble` method of the `PreparedStatement` class.

KFPJ20009-E A TYPE4

Not support method, method=*aa....aa*

Method *aa....aa* is unavailable, because it is not supported.

aa....aa: Method name

S: Terminates processing.

Action: Revise the UAP so that method *aa....aa* is not called.

KFPJ20009-E A TYPE2

Not support method. METHOD:*aa....aa*

Method *aa....aa* cannot be used.

aa....aa: Method name

S: Passes `SQLException` to the calling class.

Action

Correct so that the indicated method is not called.

KFPJ20010-E A TYPE4

Unable to execute batch SQL returned ResultSet or out parameters, SQL="*aa....aa*"

SQL statement *aa....aa* cannot be batch-processed, because it returns a result set or an output parameter.

aa....aa: SQL statement

S: Terminates processing.

Action: Review the specified SQL statement.

KFPJ20010-E A TYPE2

Unable to execute BATCH SQL returned ResultSet or OUT parameters. SQL:*aa....aa*

The *aa....aa* SQL cannot be executed in the batch mode because it returns a result set or an output parameter.

aa....aa: SQL statement

S: Passes BatchUpdateException to the calling class.

Action

Check the SQL statement.

KFPJ20011-E A TYPE4

Not support fetch direction, direction=*aa....aa*

Value aa....aa specified in the setFetchDirection method cannot be executed, because it is not supported. (Fetch directions other than ResultSet.FETCH_FORWARD cannot be used.)

aa....aa: Literal defined in the ResultSet value specified in the setFetchDirection method

{ResultSet.FETCH_REVERSE|ResultSet.FETCH_UNKNOWN}

(if the specified value is not defined in ResultSet, the value specified in the setFetchDirection method)

S: Terminates processing.

Action: Specify ResultSet.FETCH_FORWARD.

KFPJ20011-E A TYPE2

Not support fetch direction. Direction:*aa....aa*

aa....aa specified by the setFetchDirection method is invalid (a search direction other than ResultSet.FETCH_FORWARD cannot be used).

aa....aa: Value specified by the setFetchDirection method

S: Passes `SQLException` to the calling class.

Action

Specify `ResultSet.FETCH_FORWARD`.

KFPJ20012-E A TYPE4

Invalid fetch size, size=*aa....aa*

Value *aa....aa* of the argument specified in the `setFetchSize` method contains one of the following errors:

- A negative value
- If the value specified in the `setMaxRows` method is 1 or greater, the value specified in the `setFetchSize` method is greater than that specified in the `setMaxRows` method.

aa....aa: Value of the argument specified in the `setFetchSize` method

S: Terminates processing.

Action: Review the contents of the specified argument.

KFPJ20012-E A TYPE2

Invalid fetch size. SIZE:*aa....aa*

One of the following errors was detected in *aa....aa* of the argument specified by the `setFetchSize` method:

- The argument is less than 0.
- The value specified by the `setFetchSize` method is greater than the value specified by the `setMaxRows` method when the latter is greater than 1.

aa....aa: Argument contents specified by the `setFetchSize` method

S: Passes `SQLException` to the calling class.

Action

Check the contents of the specified argument.

KFPJ20013-E A

DBAccess version unmatched. VERSION-ID:*aa....aa*

The version of the database being accessed is obsolete.

aa....aa: Version code of the database being accessed

S: Passes `SQLException` to the calling class.

Action

Contact a customer engineer.

KFPJ20014-E A TYPE4

Invalid "HiRDB_for_Java_SQL_IN_NUM" value, value=*aa...aa*

The value specified in the HiRDB_for_Java_SQL_IN_NUM property is invalid.

aa...aa: Value specified in HiRDB_for_Java_SQL_IN_NUM

S: Terminates processing.

Action: Review the following values:

- Value specified in the HiRDB_for_Java_SQL_IN_NUM property during database connection
- Value specified in the connection information setup method `setSQLInNum`

KFPJ20014-E A TYPE2

Invalid HiRDB_for_Java_SQL_IN_NUM. VALUE:*aa...aa*

The contents of the HiRDB_for_Java_SQL_IN_NUM property are invalid.

aa...aa: Contents specified for HiRDB_for_Java_SQL_IN_NUM

S: Throws an `SQLException`.

Action

Revise the following specified values:

- Value specified for the HiRDB_for_Java_SQL_IN_NUM property during database connection
- Value specified for the HiRDB_for_Java_SQL_IN_NUM system property during Java startup
- Value specified for the `setSQLInNum` method to set connection information

KFPJ20015-E A TYPE4

Invalid "HiRDB_for_Java_SQL_OUT_NUM" value", value=*aa...aa*

The value specified in the HiRDB_for_Java_SQL_OUT_NUM property is invalid.

aa...aa: Value specified in HiRDB_for_Java_SQL_OUT_NUM

S: Terminates processing.

Action: Review the following values:

- Value specified in the HiRDB_for_Java_SQL_OUT_NUM property during database connection
- Value specified in the connection information setup method `setSQLOutNum`

KFPJ20015-E A TYPE2

Invalid HiRDB_for_Java_SQL_OUT_NUM. VALUE:*aa...aa*

The contents of the HiRDB_for_Java_SQL_OUT_NUM property are invalid.

aa....aa: Contents specified for `HiRDB_for_Java_SQL_OUT_NUM`

S: Throws an `SQLException`.

Action

Revise the following specified values:

- Value specified for the `HiRDB_for_Java_SQL_OUT_NUM` property during database connection
- Value specified for the `HiRDB_for_Java_SQL_OUT_NUM` system property during Java startup
- Value specified for the `setSQLOutNum` method to set connection information

KFPJ20016-E A TYPE4

Invalid "`HiRDB_for_Java_SQLWARNING_LEVEL`" value, value="*aa....aa*"

The value specified in the `HiRDB_for_Java_SQLWARNING_LEVEL` property is invalid.

aa....aa: Value specified in `HiRDB_for_Java_SQLWARNING_LEVEL`

S: Terminates processing.

Action: Review the following values:

- Value specified in the `HiRDB_for_Java_SQLWARNING_LEVEL` property during database connection
- Value specified in the connection information setup method `setSQLWarningLevel`

KFPJ20016-E A TYPE2

Invalid `HiRDB_for_Java_SQLWARNING_LEVEL`. VALUE:*aa....aa*

The contents of the `HiRDB_for_Java_SQLWARNING_LEVEL` property are invalid.

aa....aa: Contents specified for `HiRDB_for_Java_SQLWARNING_LEVEL`

S: Throws an `SQLException`.

Action

Revise the following specified values:

- Value specified for the `HiRDB_for_Java_SQLWARNING_LEVEL` property during database connection
- Value specified for the `setSQLWarningLevel` method to set connection information

KFPJ20017-E A

Invalid `HiRDB_for_Java_CLEAR_ENV` VALUE:*aa....aa*

The contents of the `HiRDB_for_Java_CLEAR_ENV` property are invalid.

aa....aa: Contents specified for `HiRDB_for_Java_CLEAR_ENV`

S: Throws an `SQLException`.

Action

Revise the following specified values:

- Value specified for the `HiRDB_for_Java_CLEAR_ENV` property during database connection
- Value specified for `CLEAR_ENV` in the URL
- Value specified for the `setClear_Env` method to set connection information

KFPJ20018-E A

aa....aa closed

Processing cannot be performed because instance *aa....aa* is closed.

aa....aa: {`XAConnection`|`PooledConnection`}

S: Terminates processing.

Action: Re-create the *aa....aa* instance, and then re-execute the command.

KFPJ20020-E A

`java.io.InputStream` or `java.io.Reader` already closed

The `java.io.InputStream` or the `java.io.Reader` is closed.

S: Terminates processing.

Action: Review the processing.

KFPJ20021-E A

Unable to use `locator.reason` *aa....aa* closed

The locator facility is unavailable because the `Connection`, `Statement`, or `ResultSet` instance is closed.

aa....aa: Class name

S: Terminates processing.

Action: Investigate the cause of an instance of class *aa....aa* closing, and review the processing.

KFPJ20101-E A TYPE4

Unable to register Driver

Registration of the JDBC driver in the driver manager failed.

S: Terminates processing.

Action: The problem may be in the Java execution environment. Make sure the JRE version is correct.

KFPJ20101-E A TYPE2

Unable to register driver.

Registration into the driver manager failed.

S: Passes `SQLException` to the calling class.

Action

The problem may be in the JDBC interface library of the Java execution environment. Check that the Java execution environment, including the JDK version, is correct.

KFPJ20102-E A

Invalid protocol name.

The protocol name specified by the URL is invalid.

S: Passes `SQLException` to the calling class.

Action

Check the protocol name specified by the URL.

KFPJ20103-E A

Invalid subprotocol name.

The subprotocol name specified by the URL is invalid.

S: Passes `SQLException` to the calling class.

Action

Check the subprotocol name specified by the URL.

KFPJ20104-E A

Invalid host name.

The host name specified by the URL is invalid.

S: Passes `SQLException` to the calling class.

Action

Check the host name specified by the URL.

KFPJ20105-E A

Invalid port number.

The port number specified by the URL is invalid.

S: Passes `SQLException` to the calling class.

Action

Check the port number specified by the URL.

KFPJ20106-E A

Invalid DB.

The database type specified by the URL is invalid.

S: Passes `SQLException` to the calling class.

Action

Check the database type specified by the URL.

KFPJ20107-E A

Invalid DBID.

The additional connection information specified by the URL is invalid.

S: Passes `SQLException` to the calling class.

Action

Revise the additional connection information specified by the URL.

KFPJ20108-E A

Invalid DBENV.

The database definition information specified by the URL is invalid.

S: Passes `SQLException` to the calling class.

Action

Check the connection database definition information specified by the URL.

KFPJ20202-E A

Not support LangID. LangID:*aa....aa*

The language passed from the HiRDB client is not supported.

aa....aa: Language name

S: Passes `SQLException` to the calling class.

Action

Check the HiRDB client's language.

KFPJ20204-E A

Active statement over:

The number of statements that can be opened concurrently has exceeded the maximum.

S: Passes `SQLException` to the calling class.

Action

Close the instance of the Statement or ResultSet being used and re-execute.

KFPJ20205-E A TYPE4

Unable to use "*aa....aa*" method in XA connection

Method *aa....aa* being connected to XA is unavailable.

aa....aa: Method name

S: Terminates processing.

Action: Revise the UAP so that it will not call method *aa....aa*.

KFPJ20205-E A TYPE2

Current Connection is XA mode.

The method is invalid. METHOD:*aa....aa*

aa....aa method invocation is invalid because the current connection is in the XA mode.

aa....aa: Method name

S: Passes SQLException to the calling class.

Action

Prevent method *aa....aa* from being invoked.

KFPJ20206-W A TYPE4

Not support TYPE_SCROLL_SENSITIVE ResultSet type. Changed
ResultSet type, ResultSet type=*aa....aa*

An updated, scrollable result set type cannot be used; therefore, the result set type was changed to *aa....aa*.

aa....aa: Result set type after the change

{TYPE_SCROLL_INSENSITIVE}

S: Continues processing.

KFPJ20206-W A TYPE2

Not support TYPE_SCROLL_SENSITIVE ResultSet type. Changed
ResultSet type:*aa....aa*

An updated, scrollable result set type cannot be used; therefore, the result set type was changed to *aa....aa*.

aa....aa: Results set type after the change

S: Sets SQLWarning.

KFPJ20207-W A TYPE4

Not support CONCUR_UPDATABLE ResultSet concurrency.

Changed ResultSet concurrency, ResultSet concurrency=*aa....aa*

Updatable result sets are unavailable; therefore, the result set was changed to the parallel processing type of result set *aa....aa*.

aa....aa: Parallel processing type of the result set after the change

{ CONCUR_READ_ONLY }

S: Continues processing.

KFPJ20207-W A TYPE2

Not support CONCUR_UPDATABLE ResultSet concurrency.

Changed ResultSet concurrency:*aa....aa*

Because an updatable results set could not be used, it was changed to results set *aa....aa*.

aa....aa: Results set after the change

S: Sets SQLWarning.

KFPJ20208-E A TYPE4

Invalid ResultSet type, type=*aa....aa*

The value *aa....aa* of the scroll type of the specified result set is an invalid scroll type not defined in ResultSet.

aa....aa: Value of the scroll type of the specified result set

S: Terminates processing.

Action: Review the scroll type of the result set.

KFPJ20208-E A TYPE2

Invalid ResultSet type. TYPE:*aa....aa*

Scroll type *aa....aa* of the specified results set is invalid.

aa....aa: Scroll type of the results set

S: Passes SQLException to the calling class.

Action

Check the scroll type of the results set.

KFPJ20209-E A TYPE4

Invalid ResultSet concurrency, concurrency=*aa....aa*

The value *aa....aa* of the parallel processing type of the specified result set is an invalid parallel processing type not defined in ResultSet.

aa....aa: Value of the parallel processing type of the specified result set

S: Terminates processing.

Action: Review the parallel processing type of the result set.

KFPJ20209-E A TYPE2

Invalid `ResultSet` concurrency. `CONCURRENCY:aa...aa`

Parallel processing type `aa...aa` of the specified results set is invalid.

`aa...aa`: Parallel processing type of the results set

S: Passes `SQLException` to the calling class.

Action

Check the parallel processing type of the results set.

KFPJ20210-E A

Invalid Escape Syntax.

The specified SQL escape clause is invalid.

S: Passes `SQLException` to the calling class.

Action

Specify the correct SQL statement.

KFPJ20211-E A

No user Id.

An authorization identifier is not specified.

S: Passes `SQLException` to the calling class.

Action

Specify an authorization identifier.

KFPJ20212-E A TYPE4

Invalid `aa...aa` value, `value="bb...bb"`

The connection information specified in `aa...aa` is invalid.

`aa...aa`:

When the `getConnection` method of the `DriverManager` class is used

URL, or a user property specification

When a `setXXX` method of the `DataSource`, `ConnectionPoolDataSource`, or `XADataSource` class is used to set connection information

Name of the `setXXX` method

(Other than above)

System property specification

`bb...bb`: Value specified in `aa...aa`

S: Terminates processing.

Action: Review the connection information specified in *aa....aa*.

KFPJ20212-E A TYPE2

Invalid *aa....aa*. value:*bb...bb*

The connection information specified in *aa....aa* is invalid.

aa....aa:

When the `getConnection` method of the `DriverManager` class is used

URL, or a user property specification

When a `setXXX` method of the `DataSource`, `ConnectionPoolDataSource`, or `XADataSource` class is used to set connection information

Name of the `setXXX` method

bb...bb: Value specified in *aa....aa*.

S: Loads `SQLException`.

Action: Review the connection information specified in *aa....aa*.

KFPJ20213-E A

Invalid `ResultSet` holdability *aa....aa*

The value of retention facility *aa....aa* of the specified result set is an invalid retention facility not defined in the `ResultSet` class.

aa....aa: Value of the retention facility of the specified result set

S: Terminates processing.

Action: Review the value of the retention facility of the result set.

KFPJ20301-E A

Not support cancel.

Asynchronous cancellation cannot be used in the currently connected database.

S: Passes `SQLException` to the calling class.

Action

Do not use asynchronous cancellation.

KFPJ20302-E A TYPE4

Invalid max rows value, value=*aa....aa*

A negative value cannot be assigned to the maximum row search count specified in the `setMaxRows` method.

aa....aa: Value of the maximum row search count specified in the `setMaxRows` method

S: Terminates processing.

Action: Review the maximum row search count specified in the `setMaxRows` method.

KFPJ20302-E A TYPE2

Invalid max rows. MAX ROWS:*aa....aa*

The maximum number of rows to be searched, as specified by `setMaxRows`, is invalid.

aa....aa: Specification in `setMaxRows` of the maximum number of rows to be searched

S: Passes `SQLException` to the calling class.

Action

Check the value of the maximum number of rows to be searched.

KFPJ20303-E A TYPE4

Invalid SQL statement

The specified SQL statement is either a null value or a character string with a zero length.

S: Terminates processing.

Action

Specify the SQL statement correctly.

KFPJ20303-E A TYPE2

Invalid SQL statement.

The specified SQL statement is either a null value or a character string with a zero length.

S: Passes `SQLException` to the calling class.

Action

Specify the SQL statement correctly.

KFPJ20304-E A TYPE4

Invalid query timeout value, value=*aa....aa*

A negative value cannot be assigned to the timeout value specified in the `setQueryTimeout` method.

aa....aa: Timeout value specified in the `setQueryTimeout` method

S: Terminates processing.

Action: Review the timeout value specified in the `setQueryTimeout` method.

KFPJ20304-E A TYPE2

Unable to set timeout.

Setting of a timeout value failed.

S: Passes `SQLException` to the calling class.

Action

Check the timeout value.

KFPJ20305-E A TYPE4

Invalid max field size, size=*aa...aa*

A negative value cannot be assigned to the maximum field length specified in the `setMaxFieldSize` method.

aa...aa: Value of the maximum field length specified in the `setMaxFieldSize` method

S: Terminates processing.

Action: Review the value of the maximum field length specified in the `setMaxFieldSize` method.

KFPJ20305-E A TYPE2

Unable to set max field size.

Setting of the maximum field size failed.

S: Passes `SQLException` to the calling class.

Action

Check the maximum field size.

KFPJ20306-E A

Unable to perform `executeQuery` this SQL

This SQL statement cannot be executed in `executeQuery`.

S: Terminates processing.

P: In `executeQuery`, specify an SQL statement that returns a result set.

KFPJ20307-E A

Unable to perform `executeUpdate` this SQL

This SQL statement cannot be executed in `executeUpdate`.

S: Terminates processing.

P: In `executeUpdate`, specify an SQL statement that does not return a result set.

KFPJ20309-E A

Number of registration exceeded max entry

The number of batches registered exceeds the maximum limit: 2,147,483,647.

S: Terminates processing.

Action: Limit the number of batches registered to 2,147,483,647 or less.

KFPJ20401-E A

Not support boolean(SQL BIT) parameter.

A Boolean-type (SQL BIT type) parameter cannot be used.

S: Passes `SQLException` to the calling class.

Action

Do not use a Boolean-type (SQL BIT type) parameter.

KFPJ20402-E A

Not support byte(SQL TINYINT) parameter.

A byte-type (SQL TINYINT type) parameter cannot be used.

S: Passes `SQLException` to the calling class.

Action

Do not use a byte-type (SQL TINYINT type) parameter.

KFPJ20403-E A

Not support long(SQL BIGINT) parameter.

A long-type (SQL BIGINT type) parameter cannot be used.

S: Passes `SQLException` to the calling class.

Action

Do not use a long-type (SQL BIGINT type) parameter.

KFPJ20405-E A

Not support Object parameter.

An object-type parameter cannot be used.

S: Passes `SQLException` to the calling class.

Action

Do not use an object-type parameter.

KFPJ20406-E A

Not support Ref(SQL REF) parameter.

A ref-type (SQL REF type) parameter cannot be used.

S: Passes `SQLException` to the calling class.

Action

Do not use a ref-type (SQL REF type) parameter.

KFPJ20407-E A

Not support Array(SQL ARRAY) parameter.

An array-type (SQL ARRAY type) parameter cannot be used.

S: Passes `SQLException` to the calling class.

Action

Do not use an array-type (SQL ARRAY type) parameter.

KFPJ20408-E A

Not support NULL parameter for SQL STRUCT.

A NULL parameter cannot be used for the SQL STRUCT type.

S: Passes `SQLException` to the calling class.

Action

Do not use a NULL parameter for the SQL STRUCT type.

KFPJ20410-E A TYPE4

Not support this SQL type, type=*aa....aa*

A parameter of a data type for which the SQL type code defined in `java.sql.Types` is *aa....aa* cannot be assigned.

aa....aa: Literal defined in `java.sql.Types` having a specified SQL type code value

```
{java.sql.Types.ARRAY|java.sql.Types.BIGINT|java.sql.Types.BIT|java.sql.Types.BLOB|java.sql.Types.BOOLEAN|java.sql.Types.CLOB|java.sql.Types.DATALINK|java.sql.Types.DISTINCT|java.sql.Types.JAVA_OBJECT|java.sql.Types.NULL|java.sql.Types.OTHER|java.sql.Types.REF|java.sql.Types.STRUCT|java.sql.Types.TINYINT}
```

If the specified value is other than these SQL type code values, the specified SQL type code value.

S: Terminates processing.

Action: Do not specify *aa....aa* in an SQL type code.

KFPJ20410-E A TYPE2

Not support this SQL type. TYPE:*aa....aa*

A parameter of data type *aa....aa* cannot be set.

aa....aa: Data type

S: Passes `SQLException` to the calling class.

Action

Do not set a parameter of data type *aa....aa*.

KFPJ20411-E A TYPE4

Not set parameter, index=*aa....aa*

The *aa....aa*th parameter has not been set.

aa....aa: Parameter's number

S: Terminates processing.

Action

Set the *aa....aa*th parameter.

KFPJ20411-E A TYPE2

Not set parameter. INDEX:*aa....aa*

The *aa....aa*th parameter has not been set.

aa....aa: Parameter's column number

S: Passes `SQLException` to the calling class.

Action

Set the *aa....aa*th parameter.

KFPJ20412-E A TYPE4

Invalid parameter, code=*aa (bb....bb)*

A parameter is invalid.

The table below gives the reason code and option information:

Reason code	Option information	Meaning
01	invalid length	A negative value cannot be assigned to a stream specified in the argument.

aa: Reason code {01}

bb....bb: Option information {invalid length}

S: Terminates processing.

Action: Review the value specified for this parameter, based on the option information given for the reason code.

KFPJ20412-E A TYPE2

Invalid parameter.

A parameter is invalid.

S: Passes `SQLException` to the calling class.

Action

Check the parameter.

KFPJ20413-E A TYPE4

Invalid parameter index, index=*aa...aa*

The value of the parameter index is invalid.

aa...aa: Value of the parameter index

S: Terminates processing.

Action: Review the value of the parameter index.

KFPJ20413-E A TYPE2

Invalid parameter index. INDEX:*aa...aa*

A parameter index is invalid.

aa...aa: Parameter index

S: Passes `SQLException` to the calling class.

Action

Check the parameter index.

KFPJ20414-E A

Not set parameter for batch.

No parameter for batch execution was specified in the invocation of the `addBatch` method.

S: Passes `SQLException` to the calling class.

Action

Correct so that the `addBatch` method is invoked after a batch execution parameter is set by the `setXXX` method.

KFPJ20415-E A

Not support Blob (SQL BLOB) parameter.

A blob-type (SQL BLOB type) parameter cannot be used.

S: Passes `SQLException` to the calling class.

Action

Do not use a blob-type (SQL BLOB type) parameter.

KFPJ20416-E A

Not support Clob (SQL CLOB) parameter.

A Clob-type (SQL CLOB type) parameter cannot be used.

S: Passes `SQLException` to the calling class.

Action

Do not use a clob-type (SQL CLOB type) parameter.

KFPJ20417-E A TYPE4

Unable to convert object to SQL type, object="*aa...aa*", SQL type="*bb...bb*"

The object *aa...aa* specified in the `setObject` method cannot be converted to a data type whose SQL type code defined in `java.sql.Types` is *bb...bb*.

aa...aa: Name of the specified object

Outputs one of the following character strings:

Character string that is output to <i>aa...aa</i>
Byte
Short
Integer
Long
Float
Double
BigDecimal
Boolean
String
byte[]
Date
Time
Timestamp
Array
Blob
Clob
Ref
Struct

2. Messages

If these objects are not applicable, outputs the character string that is output to `x.getClass().getName()` (where `x` denotes the object specified in the `setObject` method).

bb....bb: Literal defined in `java.sql.Types` having a specified SQL type code value.

Outputs one of the following character strings:

Character string that is output to <i>bb....bb</i>
<code>java.sql.Types.ARRAY</code>
<code>java.sql.Types.BIGINT</code>
<code>java.sql.Types.BINARY</code>
<code>java.sql.Types.BIT</code>
<code>java.sql.Types.BLOB</code>
<code>java.sql.Types.BOOLEAN</code>
<code>java.sql.Types.CHAR</code>
<code>java.sql.Types.CLOB</code>
<code>java.sql.Types.DATALINK</code>
<code>java.sql.Types.DATE</code>
<code>java.sql.Types.DECIMAL</code>
<code>java.sql.Types.DISTINCT</code>
<code>java.sql.Types.DOUBLE</code>
<code>java.sql.Types.FLOAT</code>
<code>java.sql.Types.INTEGER</code>
<code>java.sql.Types.JAVA_OBJECT</code>
<code>java.sql.Types.LONGVARBINARY</code>
<code>java.sql.Types.LONGVARCHAR</code>
<code>java.sql.Types.NULL</code>
<code>java.sql.Types.NUMERIC</code>
<code>java.sql.Types.OTHER</code>
<code>java.sql.Types.REAL</code>
<code>java.sql.Types.REF</code>

Character string that is output to bb...bb
java.sql.Types.SMALLINT
java.sql.Types.STRUCT
java.sql.Types.TIME
java.sql.Types.TIMESTAMP
java.sql.Types.TINYINT
java.sql.Types.VARBINARY
java.sql.Types.VARCHAR
unidentified type ^{#1}
SQL code value ^{#2}

#1: If an SQL type code value is not specified in the `setObject` method, the SQL type code value is `unidentified type`.

#2: If the specified value is other than the SQL type code values listed in the table, the SQL type code is the specified SQL code value.

S: Terminates processing.

Action: Specify a convertible SQL type, or specify an object associated with the SQL type.

KFPJ20417-E A TYPE2

Model of the `JAVA_OBJECT` is not able to be transformed to SQL type.

`JAVA_OBJECT` cannot be transformed to the specified SQL type.

S: Passes `SQLException` to the calling class.

Action

Specify a transformable SQL type, or specify a `JAVA_OBJECT` that corresponds to the SQL type.

KFPJ20418-E A

Invalid object type of value of an array parameter.

The object type of the value specified in the repetition column parameter is invalid.

S: Throws an `SQLException`.

Action

Specify an SQL type that can be converted. Or, specify the `JAVA_OBJECT` that

corresponds to the SQL type.

KFPJ20419-E A

Invalid precision of value of an array parameter.

The precision of the value specified in the repetition column parameter is invalid.

S: Throws an `SQLException`.

Action

Correct the precision of the value.

KFPJ20420-E A

Invalid value of an array parameter.

The value specified in the repetition column parameter is invalid.

S: Throws an `SQLException`.

Action

Correct the value.

KFPJ20421-E A

When determining precision or scale of value specified to be an array parameter, the arithmetic operation exception occurred.

Changing the precision or scale of value of the value specified in the repetition column parameter caused an arithmetic operation exception.

S: Throws an `SQLException`.

Action

Correct the value.

KFPJ20422-E A

When get data from array object, a throw of the `java.sql.SQLException` was carried out. `TraceInfo = aa....aa`

When data was obtained from an array object, a `java.sql.SQLException` was thrown.

aa....aa: Stack trace

S: Throws an `SQLException`.

Action

Determine the cause from the stack trace, and take appropriate action.

KFPJ20423-E A

Value of `getBaseType` method in Array object and object type of `getArray` method in Array object is not agreement.

The array element type returned by the array object is not in agreement with the format

of the array element object.

S: Throws an `SQLException`.

Action

Make the array element type returned by the array object agree with the format of the array element object.

KFPJ20424-E A

Value of `getBaseType` method in `Array` object is not support.

The array element type returned by the array object is not supported.

S: Throws an `SQLException`.

Action

Use an array element type that is supported.

KFPJ20425-E A

Specified column is not an array column, so a `getArray` method of `ResultSet` class cannot be used.

The specified column is not a repetition column, so the `getArray` method of the `ResultSet` class cannot be used.

S: Throws an `SQLException`.

Action

Specify a `getXXX` method of the `ResultSet` class that is appropriate for the column's data type.

KFPJ20426-E A

Invalid number of index.

The index specified by `java.sql.Array.getArray` or `java.sql.Array.getResultSet` is invalid.

S: Throws an `SQLException`.

Action

Correct the index specified by `java.sql.Array.getArray` or `java.sql.Array.getResultSet`.

KFPJ20427-E A

Invalid number of start position.

The value of the start position specified by `java.sql.Blob.getBytes` or `java.sql.Blob.position` is invalid.

S: Throws an `SQLException`.

Action

Correct the start position specified by `java.sql.Blob.getBytes` or `java.sql.Blob.position`.

KFPJ20428-E A

Invalid number of length.

The value specified by `java.sql.Blob.getBytes` for the length of the operation is invalid.

S: Throws an `SQLException`.

Action

Correct the value specified by `java.sql.Blob.getBytes` for the length of the operation.

KFPJ20429-E A

Max length over of pattern data.

The size specified by `java.sql.Blob.position` of the byte array to be retrieved exceeds the maximum value.

S: Throws an `SQLException`.

Action

Correct the size specified by `java.sql.Blob.position` of the byte array to be retrieved.

KFPJ20430-E A TYPE4

Unable to adapt data to table definition

The number of digits in the integer portion of the specified data is greater than the number of digits in the integer portion of the table definition; therefore, the data cannot be converted to the data type in the table definition.

S: Throws an `SQLException`.

Action

Review the specified data.

KFPJ20430-E A TYPE2

Unable to adapt data to table definition

The number of digits in the integer portion of the specified data is greater than the number of digits in the integer portion of the table definition; therefore, the data cannot be converted to the data type in the table definition.

S: Terminates processing.

Action: Review the specified data.

KFPJ20431-E A TYPE4

Invalid data beside the range of table definition or unable to adapt, data type=*aa....aa*, parameter index=*bb...bb*

The data has a value outside the range of the conversion destination data type, or it is in a nonconvertible format.

aa....aa: Conversion destination data type

If the processing involves a conversion to the data type of the corresponding ? parameter, one of the following HiRDB data types:

```
{ BINARY | BLOB | CHAR | DATE | DECIMAL | FLOAT | INTEGER | MCHAR | MVAR
  CHAR | NCHAR | NVARCHAR | REAL | SMALLINT | TIME | TIMESTAMP | VARCHA
  R }
```

If the processing involves a conversion to the SQL data type of the JDBC driver specified in the `setObject` method, one of the following literals defined in `java.sql.Types`:

```
{ java.sql.Types.BIGINT | java.sql.Types.DATE | java.sql.Types.DECIMAL | java.sql.Types.DOUBLE | java.sql.Types.FLOAT | java.sql.Types.INTEGER | java.sql.Types.NUMERIC | java.sql.Types.REAL | java.sql.Types.SMALLINT | java.sql.Types.TIME | java.sql.Types.TIMESTAMP | java.sql.Types.TINYINT }
```

bb...bb: Specified parameter index

S: Terminates processing.

Action: Review the data.

KFPJ20431-E A TYPE2

Data is the value besides the range of a column attribute or the form which cannot be used. Data Type:*aa....aa*

The value of the data is outside the range for the column attribute or is in a format that cannot be used.

aa....aa: Table definition attribute

S: Throws an `SQLException`.

Action

Revise the data.

KFPJ20432-E A

Not support this parameter type, type=*aa....aa*, index=*bb...bb*

This `setXXX` method cannot be used on the data type of the ? parameter associated with the specified parameter index.

aa....aa: Data type of the parameter (HiRDB data type)

2. Messages

{ BINARY | BLOB | CHAR | DATE | DECIMAL | FLOAT | INTEGER | MCHAR | MVARCHAR
| NCHAR | NVARCHAR | REAL | SMALLINT | TIME | TIMESTAMP | VARCHAR }

bb...bb: Specified parameter index

S: Terminates processing.

Action: Use a `setXXX` method compatible with the data type of the parameter.

KFPJ20501-E A

CallableStatement is closed.

Processing cannot be accepted because the CallableStatement instance is already closed.

S: Passes SQLException to the calling class.

Action

Re-create the CallableStatement instance and re-execute.

KFPJ20502-E A

Unable to get data *aa...aa*

The specified column data cannot be obtained using a `getXXX` method of the CallableStatement class.

aa...aa: Specified column data

S: Passes SQLException to the calling class.

Action

Specify a `getXXX` method of the CallableStatement class that corresponds to the column data type.

KFPJ20503-E A

Invalid number of get scale.

The contents of scale specified by the `getBigDecimal` method of the CallableStatement class are invalid.

S: Passes SQLException to the calling class.

Action

Check the contents of scale.

KFPJ20504-E A

Invalid parameter index. INDEX:*aa...aa*

A parameter index is invalid.

aa...aa: Parameter index

S: Passes SQLException to the calling class.

Action

Check the parameter index.

KFPJ20505-E A

Attribute that designated it with IN and OUT differs.

The IN parameter specified in the INOUT parameter has an attribute different from the OUT parameter.

S: Passes `SQLException` to the calling class.

Action

Check the attributes. Make sure the `java.sql.Types` specified in the `registerOutParameter` method has the same type as the type specified as an argument of `setXXX`.

KFPJ20506-E A

Output attribute is not able to acquire information because it does not exist in a parameter.

The information cannot be acquired because there is no parameter in which OUT is specified.

S: Passes `SQLException` to the calling class.

Action

Check the following:

- Whether or not there is a parameter with OUT specified in the Java stored procedure that is to be executed; if a parameter with OUT specified is needed, add it and re-create the Java stored procedure.
- Whether or not the Java stored procedure to be executed is the correct one; if necessary, correct the UAP so that the intended Java stored procedure will be executed.
- Executing the `clearParameters` method clears the parameter information at the time of execution. Make sure the `clearParameters` method is not executed after the execution of the `execute` method and before the execution of the `getXXX` method.

KFPJ20601-E A TYPE4

Invalid column name, column name="*aa...aa*"

The column name specified in the `getXXX` method of the `ResultSet` class is invalid.

aa...aa: Column name

S: Terminates processing.

Action: Review the specified column name.

KFPJ20601-E A TYPE2

Unable to get number of result columns.

A column name specified by the `getXXX` method of the `ResultSet` class is invalid.

S: Passes `SQLException` to the calling class.

Action

Check the column names.

KFPJ20604-E A

Unable to get data string.

The specified column data cannot be obtained using the `getString` method of the `ResultSet` class.

S: Passes `SQLException` to the calling class.

Action

Specify a `getXXX` method of the `ResultSet` class that corresponds to the column data type.

KFPJ20605-E A TYPE4

Unable to get data by "getBoolean" method, column index=*aa...aa*, data type=*bb...bb*

Data for the specified column cannot be acquired using the `getBoolean` method of the `ResultSet` class.

aa...aa: Column number

bb...bb: Data type of the column (HiRDB data type)

{ BINARY | BLOB | DATE | TIME | TIMESTAMP }

S: Terminates processing.

Action: Specify a `getXXX` method of the `ResultSet` class that corresponds to the column data type.

KFPJ20605-E A TYPE2

Unable to get data boolean.

The specified column data cannot be obtained using the `getBoolean` method of the `ResultSet` class.

S: Passes `SQLException` to the calling class.

Action

Specify a `getXXX` method of the `ResultSet` class that corresponds to the column data type.

KFPJ20606-E A TYPE4

Unable to get data by "getBytes" method, column index=*aa...aa*, data type=*bb...bb*

The specified column data cannot be obtained using the `getBytes` method of the `ResultSet` class.

aa...aa: Column number

bb...bb: Data type of the column (HiRDB data type)

{ BINARY | BLOB | CHAR | DATE | DECIMAL | FLOAT | INTEGER | MCHAR | MVARCHAR
| NCHAR | NVARCHAR | REAL | SMALLINT | TIME | TIMESTAMP | VARCHAR }

S: Terminates processing.

Action

Specify a `getXXX` method of the `ResultSet` class that corresponds to the column data type.

KFPJ20606-E A TYPE2

Unable to get data byte.

The specified column data cannot be obtained using the `getBytes` method of the `ResultSet` class.

S: Passes `SQLException` to the calling class.

Action

Specify a `getXXX` method of the `ResultSet` class that corresponds to the column data type.

KFPJ20607-E A TYPE4

Unable to get data by "getShort" method, column index=*aa...aa*, data type=*bb...bb*

The specified column data cannot be obtained using the `getShort` method of the `ResultSet` class.

aa...aa: Column number

bb...bb: Data type of the column (HiRDB data type)

{ BINARY | BLOB | CHAR | DATE | DECIMAL | FLOAT | INTEGER | MCHAR | MVARCHAR
| NCHAR | NVARCHAR | REAL | TIME | TIMESTAMP | VARCHAR }

S: Terminates processing.

Action

Specify a `getXXX` method of the `ResultSet` class that corresponds to the column data type.

KFPJ20607-E A TYPE2

Unable to get data short.

The specified column data cannot be obtained using the `getShort` method of the `ResultSet` class.

S: Passes `SQLException` to the calling class.

Action

Specify a `getXXX` method of the `ResultSet` class that corresponds to the column data type.

KFPJ20608-E A TYPE4

Unable to get data by "getInt" method, column index=*aa....aa*, data type=*bb....bb*

The specified column data cannot be obtained using the `getInt` method of the `ResultSet` class.

aa....aa: Column number

bb....bb: Data type of the column (HiRDB data type)

{ BINARY | BLOB | CHAR | DATE | DECIMAL | FLOAT | MCHAR | MVARCHAR | NCHAR | NVARCHAR | REAL | TIME | TIMESTAMP | VARCHAR }

S: Terminates processing.

Action

Specify a `getXXX` method of the `ResultSet` class that corresponds to the column data type.

KFPJ20608-E A TYPE2

Unable to get data int.

The specified column data cannot be obtained using the `getInt` method of the `ResultSet` class.

S: Passes `SQLException` to the calling class.

Action

Specify a `getXXX` method of the `ResultSet` class that corresponds to the column data type.

KFPJ20609-E A TYPE4

Unable to get data by "getLong" method, column index=*aa....aa*, data type=*bb....bb*

The specified column data cannot be obtained using the `getLong` method of the `ResultSet` class.

aa....aa: Column number

bb...bb: Data type of the column (HiRDB data type)

{ CHAR | DATE | DECIMAL | FLOAT | MCHAR | MVARCHAR | NCHAR | NVARCHAR | REAL
| TIME | TIMESTAMP | VARCHAR }

S: Terminates processing.

Action

Specify a `getXXX` method of the `ResultSet` class that corresponds to the column data type.

KFPJ20609-E A TYPE2

Unable to get data long.

The specified column data cannot be obtained using the `getLong` method of the `ResultSet` class.

S: Passes `SQLException` to the calling class.

Action

Specify a `getXXX` method of the `ResultSet` class that corresponds to the column data type.

KFPJ20610-E A TYPE4

Unable to get data by "getFloat" method, column index=*aa...aa*, data type=*bb...bb*

The specified column data cannot be obtained using the `getFloat` method of the `ResultSet` class.

aa...aa: Column number

bb...bb: Data type of the column (HiRDB data type)

{ BINARY | BLOB | CHAR | DATE | MCHAR | MVARCHAR | NCHAR | NVARCHAR | TIME | T
IMESTAMP | VARCHAR }

S: Terminates processing.

Action

Specify a `getXXX` method of the `ResultSet` class that corresponds to the column data type.

KFPJ20610-E A TYPE2

Unable to get data float.

The specified column data cannot be obtained using the `getFloat` method of the `ResultSet` class.

S: Passes `SQLException` to the calling class.

Action

Specify a `getXXX` method of the `ResultSet` class that corresponds to the column data type.

KFPJ20611-E A TYPE4

Unable to get data by "getDouble" method, column index=*aa...aa*, data type=*bb...bb*

The specified column data cannot be obtained using the `getDouble` method of the `ResultSet` class.

aa...aa: Column number

bb...bb: Data type of the column (HiRDB data type)

{ BINARY | BLOB | CHAR | DATE | MCHAR | MVARCHAR | NCHAR | NVARCHAR | TIME | TIMESTAMP | VARCHAR }

S: Terminates processing.

Action

Specify a `getXXX` method of the `ResultSet` class that corresponds to the column data type.

KFPJ20611-E A TYPE2

Unable to get data double.

The specified column data cannot be obtained using the `getDouble` method of the `ResultSet` class.

S: Passes `SQLException` to the calling class.

Action

Specify a `getXXX` method of the `ResultSet` class that corresponds to the column data type.

KFPJ20612-E A TYPE4

Unable to get data by "getBigDecimal" method, column index=*aa...aa*, data type=*bb...bb*

The specified column data cannot be obtained using the `getBigDecimal` method of the `ResultSet` class.

aa...aa: Column number

bb...bb: Data type of the column (HiRDB data type)

{ BINARY | BLOB | CHAR | DATE | MCHAR | MVARCHAR | NCHAR | NVARCHAR | TIME | TIMESTAMP | VARCHAR }

S: Terminates processing.

Action

Specify a `getXXX` method of the `ResultSet` class that corresponds to the column data type.

KFPJ20612-E A TYPE2

Unable to get data `BigDecimal`.

The specified column data cannot be obtained using the `getBigDecimal` method of the `ResultSet` class.

S: Passes `SQLException` to the calling class.

Action

Specify a `getXXX` method of the `ResultSet` class that corresponds to the column data type.

KFPJ20613-E A TYPE4

Unable to get data by "getBytes" method, column index=*aa....aa*, data type=*bb....bb*

The specified column data cannot be obtained using the `getBytes` method of the `ResultSet` class.

aa....aa: Column number

bb....bb: Data type of the column (HiRDB data type)

{DATE | DECIMAL | FLOAT | INTEGER | REAL | SMALLINT | TIME | TIMESTAMP}

S: Terminates processing.

Action

Specify a `getXXX` method of the `ResultSet` class that corresponds to the column data type.

KFPJ20613-E A TYPE2

Unable to get data bytes.

The specified column data cannot be obtained using the `getBytes` method of the `ResultSet` class.

S: Passes `SQLException` to the calling class.

Action

Specify a `getXXX` method of the `ResultSet` class that corresponds to the column data type.

KFPJ20614-E A TYPE4

Unable to get data by "getDate" method, column index=*aa....aa*, data type=*bb....bb*

The specified column data cannot be obtained using the `getDate` method of the `ResultSet` class.

2. Messages

aa...aa: Column number

bb...bb: Data type of the column (HiRDB data type)

{ BINARY | BLOB | DECIMAL | FLOAT | INTEGER | REAL | SMALLINT | TIME }

S: Terminates processing.

Action

Specify a *getXXX* method of the `ResultSet` class that corresponds to the column data type.

KFPJ20614-E A TYPE2

Unable to get data Date.

The specified column data cannot be obtained using the `getDate` method of the `ResultSet` class.

S: Passes `SQLException` to the calling class.

Action

Specify a *getXXX* method of the `ResultSet` class that corresponds to the column data type.

KFPJ20615-E A TYPE4

Unable to get data by "getTime" method, column index=*aa...aa*, data type=*bb...bb*

The specified column data cannot be obtained using the `getTime` method of the `ResultSet` class.

aa...aa: Column number

bb...bb: Data type of the column (HiRDB data type)

{ BINARY | BLOB | DATE | DECIMAL | FLOAT | INTEGER | REAL | SMALLINT }

S: Terminates processing.

Action

Specify a *getXXX* method of the `ResultSet` class that corresponds to the column data type.

KFPJ20615-E A TYPE2

Unable to get data Time.

The specified column data cannot be obtained using the `getTime` method of the `ResultSet` class.

S: Passes `SQLException` to the calling class.

Action

Specify a `getXXX` method of the `ResultSet` class that corresponds to the column data type.

KFPJ20616-E A TYPE4

Unable to get data by "getTimestamp" method, column index=*aa....aa*, data type=*bb....bb*

The specified column data cannot be obtained using the `getTimestamp` method of the `ResultSet` class.

aa....aa: Column number

bb....bb: Data type of the column (HiRDB data type)

{ BINARY | BLOB | DECIMAL | FLOAT | INTEGER | REAL | SMALLINT | TIME }

S: Terminates processing.

Action

Specify a `getXXX` method of the `ResultSet` class that corresponds to the column data type.

KFPJ20616-E A TYPE2

Unable to get data Timestamp.

The specified column data cannot be obtained using the `getTimestamp` method of the `ResultSet` class.

S: Passes `SQLException` to the calling class.

Action

Specify a `getXXX` method of the `ResultSet` class that corresponds to the column data type.

KFPJ20617-E A TYPE4

Unable to get data by "getAsciiStream" method, column index=*aa....aa*, data type=*bb....bb*

The specified column data cannot be obtained using the `getAsciiStream` method of the `ResultSet` class.

aa....aa: Column number

bb....bb: Data type of the column (HiRDB data type)

{ DATE | DECIMAL | FLOAT | INTEGER | REAL | SMALLINT | TIME | TIMESTAMP }

S: Terminates processing.

Action

Specify a `getXXX` method of the `ResultSet` class that corresponds to the column data type.

KFPJ20617-E A TYPE2

Unable to get `ascii` stream.

The specified column data cannot be obtained using the `getAsciiStream` method of the `ResultSet` class.

S: Passes `SQLException` to the calling class.

Action

Specify a `getXXX` method of the `ResultSet` class that corresponds to the column data type.

KFPJ20618-E A

Unable to get `unicode` stream.

The specified column data cannot be obtained using the `getUnicodeStream` method of the `ResultSet` class.

S: Passes `SQLException` to the calling class.

Action

Specify a `getXXX` method of the `ResultSet` class that corresponds to the column data type.

KFPJ20619-E A TYPE4

Unable to get data by "`getBinaryStream`" method, column index=`aa...aa`, data type=`bb...bb`

The specified column data cannot be obtained using the `getBinaryStream` method of the `ResultSet` class.

`aa...aa`: Column number

`bb...bb`: Data type of the column (HiRDB data type)

{ `CHAR` | `DATE` | `DECIMAL` | `FLOAT` | `INTEGER` | `MCHAR` | `MVARCHAR` | `NCHAR` | `NVARCHAR` | `REAL` | `SMALLINT` | `TIME` | `TIMESTAMP` | `VARCHAR` }

S: Terminates processing.

Action

Specify a `getXXX` method of the `ResultSet` class that corresponds to the column data type.

KFPJ20619-E A TYPE2

Unable to get `binary` stream.

The specified column data cannot be obtained using the `getBinaryStream` method of the `ResultSet` class.

S: Passes `SQLException` to the calling class.

Action

Specify a `getXXX` method of the `ResultSet` class that corresponds to the column data type.

KFPJ20621-E A TYPE4

`ResultSet` closed

Because the `ResultSet` instance is already closed, the processing cannot be accepted.

The JDBC driver might have closed the `ResultSet` instance because the `Statement` instance was closed.

S: Terminates processing.

Action

Re-create the `ResultSet` instance and re-execute.

KFPJ20621-E A TYPE2

`ResultSet` or `Statement` is closed.

Processing cannot be accepted because the `ResultSet` or `Statement` instance is already closed.

S: Passes `SQLException` to the calling class.

Action

Re-create the `ResultSet` instance and re-execute.

KFPJ20622-E A TYPE4

Unable to get data by "getCharacterStream" method, column index=*aa...aa*, data type=*bb...bb*

The specified column data cannot be obtained using the `getCharacterStream` method of the `ResultSet` class.

aa...aa: Column number

bb...bb: Data type of the column (HiRDB data type)

{DATE | DECIMAL | FLOAT | INTEGER | REAL | SMALLINT | TIME | TIMESTAMP }

S: Terminates processing.

Action

Specify a `getXXX` method of the `ResultSet` class that corresponds to the column data type.

KFPJ20622-E A TYPE2

Unable to get character stream.

The specified column data cannot be obtained using the `getCharacterStream` method of the `ResultSet` class.

S: Passes `SQLException` to the calling class.

Action

Specify a `getXXX` method of the `ResultSet` class that corresponds to the column data type.

KFPJ20627-E A TYPE4

Invalid column index, `index=aa...aa`

The column index specified in the `getXXX` method of the `ResultSet` class is invalid.

aa...aa: Column index

S: Terminates processing.

Action: Review the specified column index.

KFPJ20627-E A TYPE2

Invalid number of get column index.

The index or column name specification by the `getXXX` method of the `ResultSet` class is invalid.

S: Passes `SQLException` to the calling class.

Action

Check the name of the index or column.

KFPJ20629-E A TYPE4

Invalid scale, `scale=aa...aa`

The scale specified by the `getBigDecimal` method of the `ResultSet` class is invalid.

aa...aa: Value of specified scale

S: Terminates processing.

Action

Check the scale.

KFPJ20629-E A TYPE2

Invalid number of get scale.

The scale specified by the `getBigDecimal` method of the `ResultSet` class is invalid.

S: Passes `SQLException` to the calling class.

Action

Check the scale.

KFPJ20630-E A TYPE4

Invalid data format for `java.sql.Date`

Because the data obtained from the database does not match the date data format, data cannot be obtained using the `getDate` method of the `ResultSet` class used.

S: Terminates processing.

Action

Specify a `getXXX` method of the `ResultSet` class that matches the data type.

KFPJ20630-E A TYPE2

Date format exception.

Because the data obtained from the database does not match the date data format, data cannot be obtained using the `getXXX` method of the `ResultSet` class used.

S: Passes `SQLException` to the calling class.

Action

Specify a `getXXX` method of the `ResultSet` class that matches the data type.

KFPJ20631-E A TYPE4

Invalid data format for `java.sql.Time`

Because the data obtained from the database does not match the time data format, data cannot be obtained using the `getTime` method of the `ResultSet` class used.

S: Terminates processing.

Action

Specify a `getXXX` method of the `ResultSet` class that matches the data type.

KFPJ20631-E A TYPE2

Time format exception.

Because the data obtained from the database does not match the time data format, data cannot be obtained using the `getXXX` method of the `ResultSet` class used.

S: Passes `SQLException` to the calling class.

Action

Specify a `getXXX` method of the `ResultSet` class that matches the data type.

KFPJ20632-E A TYPE4

Invalid data format for `java.sql.Timestamp`

Data acquired from the database is incompatible with the format of time stamp data; data cannot be acquired using the `getTimestamp` method of the `ResultSet` class that was used.

S: Terminates processing.

Action

Specify a `getXXX` method of the `ResultSet` class that matches the data type.

KFPJ20632-E A TYPE2

Timestamp format exception.

Because the data obtained from the database does not match the timestamp data format, data cannot be obtained using the `getXXX` method of the `ResultSet` class used.

S: Passes `SQLException` to the calling class.

Action

Specify a `getXXX` method of the `ResultSet` class that matches the data type.

KFPJ20633-E A TYPE4

Unable to scroll cursor due to current `ResultSet` type
`TYPE_FORWARD_ONLY`

Because the result set type of this `ResultSet` object is `TYPE_FORWARD_ONLY`, it is not amenable to scrolling.

S: Terminates processing.

Action: Specify a `ResultSet` object having a result set type compatible with scrolling operations.

KFPJ20633-E A TYPE2

Current `ResultSet` is `TYPE_FORWARD_ONLY`. The method is invalid.
METHOD:*aa....aa*

Because the current results set is only for the forward direction, the invocation of method *aa....aa* is invalid.

aa....aa: Method name

S: Passes `SQLException` to the calling class.

Action

Do not invoke method *aa....aa*.

KFPJ20634-E A

Not support `CONCUR_UPDATABLE` `ResultSet` concurrency. The method is invalid. METHOD:*aa....aa*

Because an updatable results set could not be used, the invocation of method *aa....aa* is invalid.

aa....aa: Method name

S: Passes `SQLException` to the calling class.

Action

Do not invoke method *aa....aa*.

KFPJ20635-E A TYPE4

Zero specified

A zero is specified in the absolute method.

S: Terminates processing.

Action: Specify a non-zero value.

KFPJ20635-E A TYPE2

Zero is designated to the row.

0 is specified for the row.

S: Passes `SQLException` to the calling class.

Action

Do not specify 0 for the row.

KFPJ20636-E A TYPE4

Invalid cursor position

The cursor is not in a valid row.

S: Terminates processing.

Action: Place the cursor in a valid row.

KFPJ20636-E A TYPE2

Row that was designated without existing.

An operation was performed on a results set that has no rows.

S: Passes `SQLException` to the calling class.

Action

Do not perform an operation on a results set that has no rows.

KFPJ20637-E A TYPE4

Unable to get data by "getBlob" method, column index=*aa....aa*, data type=*bb....bb*

Data from the specified column cannot be obtained using the `ResultSet` class `getBlob` method.

aa....aa: Column number

bb....bb: Data type of the column (HiRDB data type)

{ CHAR | DATE | DECIMAL | FLOAT | INTEGER | MCHAR | MVARCHAR | NCHAR | NVARCHAR | REAL | SMALLINT | TIME | TIMESTAMP | VARCHAR }

S: Terminates processing.

Action

Specify a `getXXX` method of the `ResultSet` class that is appropriate for the column's data type.

KFPJ20637-E A TYPE2

Unable to get data BLOB.

Data from the specified column cannot be obtained using the `ResultSet` class `getBlob` method.

S: Throws an `SQLException`.

Action

Specify a `getXXX` method of the `ResultSet` class that is appropriate for the column's data type.

KFPJ20701-E A

Invalid column index. INDEX:*aa....aa*

The index specified by the `getXXX` method of the `ResultSetMetaData` class is invalid.

aa....aa: Index

S: Passes `SQLException` to the calling class.

Action

Correct the error by checking the `SQLException`.

KFPJ21001-E A

Invalid argument.number:*aa....aa* value:*bb....bb* method:*cc....cc*

An invalid argument parameter is specified.

aa....aa: Argument sequence number

bb....bb: Argument value

cc....cc: Method name

S: Terminates processing.

Action: Review the argument parameters.

KFPJ31002-E A

Not found native library.

Loading of the native library failed.

S: Passes `SQLException` to the calling class.

Action

Check whether or not the native library exists in the system's standard library

directory.

KFPJ50001-E A

Argument is null.

The argument specified for the connection information setting method is the null value.

S: Passes `SQLException` to the calling class.

Action

Check the argument value.

KFPJ50002-E A

Mandatory property no set. `PROPERTY:aa....aa`

Required connection information `aa....aa` has not been set.

`aa....aa`: Connection information

S: Passes `SQLException` to the calling class.

Action

Set the `aa....aa` connection information.

KFPJ50003-E A TYPE4

Invalid login timeout value, `value=aa....aa`

A negative value cannot be assigned to the logon timeout limit specified in the `setLoginTimeout` method.

`aa....aa`: Logon timeout limit specified in the `setLoginTimeout` method

S: Terminates processing.

Action: Review the value of the logon timeout limit specified in the `setLoginTimeout` method.

KFPJ50003-E A TYPE2

Invalid `LoginTimeout`. `VALUE:aa....aa`

Specification value `aa....aa` for the `setLoginTimeout` method is invalid.

`aa....aa`: Specification value for the `setLoginTimeout` method

S: Passes `SQLException` to the calling class.

Action

Check the specification value.

KFPJ50004-E A

Invalid `NetworkProtocol`. `VALUE:aa....aa`

Specification value `aa....aa` for the `setNetworkProtocol` method is invalid.

aa...aa: Specification value for the `setNetworkProtocol` method

S: Passes `SQLException` to the calling class.

Action

Check the specification value.

KFPJ50005-E A

Invalid `PortNumber`. VALUE:*aa...aa*

Specification value *aa...aa* for the `setPortNumber` method is invalid.

aa...aa: Specification value for the `setPortNumber` method

S: Passes `SQLException` to the calling class.

Action

Check the specification value.

KFPJ50006-E A

Invalid `DatabaseName`. VALUE:*aa...aa*

Specification value *aa...aa* for the `setDatabaseName` method is invalid.

aa...aa: Specification value for the `setDatabaseName` method

S: Passes `SQLException` to the calling class.

Action

Check the specification value.

KFPJ50007-E A

Invalid `DBEnv`. VALUE:*aa...aa*

Specification value *aa...aa* for the `setDBEnv` method is invalid.

aa...aa: Specification value for the `setDBEnv` method

S: Passes `SQLException` to the calling class.

Action

Check the specification value.

KFPJ50008-E A TYPE4

Invalid character set

Either a null value or a zero-length character string was specified as an argument in the `setEncodeLang` method.

S: Terminates processing.

Action: Review the value specified in the `setEncodeLang` method.

KFPJ50008-E A TYPE2

Encoding Lang is null.

Encoding is not specified.

S: Passes `SQLException` to the calling class.

Action

Check the encoding character string.

KFPJ50009-E A TYPE4

Invalid description value, value="aa....aa"

Value *aa....aa* specified in the `setDescription` method is invalid.

aa....aa: Value specified in the `setDescription` method

S: Terminates processing.

Action: Review the value specified in the `setDescription` method.

KFPJ50009-E A TYPE2

Invalid Description. VALUE:*aa....aa*

Value *aa....aa* specified in the `setDescription` method is invalid.

aa....aa: Value specified in the `setDescription` method

S: Throws an `SQLException`.

Action

Revise the specified value.

KFPJ55001-E A

Current connection is not XA mode. The `getXAResource` method is invalid.

Because the connection is not in the XA mode, invocation of the `getXAResource` method is invalid.

S: Passes `SQLException` to the calling class.

Action

Do not invoke the `getXAResource` method.

KFPJ55002-E A

Current `NetworkProtocol` is not `NativeLibrary` mode. The `getXAResource` method is invalid.

Because the connection type is not native library connection, invocation of the `getXAResource` method is invalid.

S: Passes `SQLException` to the calling class.

Action

Change the connection type to native library connection.

KFPJ56001-E A

XA session is closed.

XA processing cannot be accepted because the XA session is closed.

S: Passes `XAException` to the calling class.

Action

Re-create an `XAConnection` instance, obtain the `XAResource` instance again using the `getXAResource` method, and re-execute.

KFPJ56002-E A

XID is null.

The XID argument is the null value.

S: Passes `XAException` to the calling class.

Action

Check the XID argument value.

KFPJ70001-I A

SQL process is canceled.

SQL processing has been cancelled.

S: Passes `SQLException` to the calling class.

KFPJ70002-E A TYPE4

Object not active due to termination of transaction

The transaction was terminated (including an internal rollback); this object is nullified.

S: Terminates processing.

Action: Close the `ResultSet` object, and re-execute the command.

KFPJ70002-E A TYPE2

Transaction is completed.

Processing cannot be accepted because the transaction has already been committed or rolled back.

S: Passes `SQLException` to the calling class.

Action

Close the `ResultSet` instance and re-execute.

KFPJ70003-E A TYPE4

Unsupported SQL type appeared in SQL, type:*aaa*, number:*bbbb*

The SQL execution results include a data type not supported by the JDBC driver.

aaa: Invalid data code (decimal)

bbbb: Ordinal number of parameters, beginning with 1

S: Terminates processing.

Action: Review the SQL and the data type in the table to be searched.

For details about the correspondence between data types and about data codes that cannot be used, see the section on the length of data codes and data that are assigned in an SQL descriptor area in the manual *HiRDB Version 8 UAP Development Guide*.

KFPJ70003-E A TYPE2

Not support SQL type exist in result. TYPE:*aa....aa*

The SQL execution results include an unusable data type.

aa....aa: Unusable data type

S: Passes `SQLException` to the calling class.

Action

Check the SQL and the data types in the table to be retrieved.

KFPJ80001-E A

Server version incompatible, server version=*aa....aa*, client version=*bb....bb*

The version of the HiRDB server is invalid.

Use HiRDB server version 08-00 or later.

aa....aa: HiRDB server version

bb....bb: HiRDB client version

S: Terminates processing.

Action: Verify that the HiRDB server version is 08-00 or later, and then re-execute the command.

KFPJ80002-E A

BINARY/BLOB data truncated

The retrieval data length of a BINARY or BLOB column exceeds the following specification values:

- Value of the `HiRDB_for_Java_MAXBINARYSIZE` property assigned at connection time from the `DriverManager` class
- Value specified in the `setMaxBinarySize` method of the `DataSource` class

- Value specified in the `setMaxBinarySize` method of the `ConnectionPoolDataSource` class
- Value specified in the `setMaxBinarySize` method of the `XADataSource` class

S: Terminates processing.

Action: Review the specification values.

If truncation of the retrieval data in the `BINARY` or `BLOB` column does not cause a problem, set the following specification values to `FALSE`:

- Value of the `HiRDB_for_Java_LONGVARBINARY_TRUNCERROR` property assigned at connection time from the `DriverManager` class
- Value specified in the `setLONGVARBINARY_TruncError` method of the `DataSource` class
- Value specified in the `setLONGVARBINARY_TruncError` method of the `ConnectionPoolDataSource` class
- Value specified in the `setLONGVARBINARY_TruncError` method of the `XADataSource` class

KFPJ80100-E A

Current connection closed. "getXAResource" method invalid

Not connected to the database. The `getXAResource` method call is invalid.

S: Terminates processing.

Action: Re-create the `XAConnection` instance, re-acquire the `XAResource` instance by means of the `getXAResource` method, and continue the processing.

KFPJ80101-E A

Incorrect `OpenString`, reason=*aaaaaaa*

The assigned open character string value contains an error.

aaaaaaa: Reason code

`STR_OVR`:

The character string is longer than 256 bytes.

`FRM_ERR`:

The format of the character string is invalid.

S: Terminates processing.

Action: For details about using open character strings, see the manual *HiRDB Version 8 UAP Development Guide*.

KFPJ80102-E A

Error occurred in XAResource, method=*aa....aa*, reason=*bb...bb*, code=*cc....cc*

An XAResource interface error occurred.

aa....aa: Method name of the XAResource interface that produced the error

bb...bb: Character string that indicates the type of error

SVR PROC:

An error occurred on the HiRDB server during transaction termination processing.

SQL ERR:

An error occurred during SQL processing.

RPC CALL:

An error occurred during communication execution.

TRN COMMIT:

An error occurred on the HiRDB server during transaction recovery (commit) processing.

TRN ROLB:

An error occurred on the HiRDB server during transaction recovery (rollback) processing.

TRN WAIT:

An error occurred on the HiRDB server during monitoring of the termination of transaction recovery processing.

TRN RCV:

An error occurred on the HiRDB server during acquisition of information about unterminated transactions.

TXA DRIV:

An error occurred in the JDBC driver.

cc....cc: Code indicating the cause of the error

S: Terminates processing.

Action: Take action according to the code indicating the cause of the error.

2. Messages

Error type character string	Error cause code	Meaning	Action
SVR PROC	-902	An improper rollback occurred.	Contact a customer engineer.
SQL ERR	SQL code	See the explanation for the applicable SQL code.	Refer to the explanation for the applicable SQL code.
RPC CALL	-2404	A memory shortage occurred.	Possible causes: network error, or server not being activated. Check the network or server status.
	-2406 -2418	A network error occurred.	
	-2407	Timeout occurred during send/receive.	
	-2410 -2411 -2414 -2415	HiRDB server not activated.	
	-2412 -2413 -2432	HiRDB server being shut down.	
	-2416	System error occurred on HiRDB server.	
	-2417	Memory shortage occurred on HiRDB server.	
	-2420	Activating the HiRDB server.	
	-2431	Maximum number of users who can be connected to HiRDB exceeded.	
TRN CMIT TRN ROLB TRN WAIT TRN RCV	-4	Invalid inter-host communications.	Possible cause: server not being activated. Check the server status.
	-6	Improper rollback occurred.	Contact a customer engineer.
	-7	No applicable transaction found on HiRDB.	The applicable transaction was terminated independently by HiRDB. Check the status of the transaction in the OLTP system.

Error type character string	Error cause code	Meaning	Action
	100	Connection destination HiRDB is a standby system unit.	Review the client environment variable <code>PDHOST</code> specified in the OLTP system. Make sure the connection destination is the host name of a running system unit. However, note that if the version of the HiRDB client is 06-02/A or earlier, this code can be output if the running system unit is waiting as a standby system unit. If this is the case, update the HiRDB client to version 06-02/B or later.
TXA DRIV	-1	Not connected to a HiRDB server.	It is possible that the program has not performed processing to connect to the HiRDB, or started a transaction in a disconnected state. Check the program.
	-2	Thread interrupt exception occurred.	Check the program to make sure it is not executing the <code>Thread.Interrupt</code> method.

KFPJ99001-E A

DBA Internal Error. Return Code = *aa....aa*, Detail code = *bb....bb*, Message = *cc....cc*

An internal error occurred during the database access session.

aa....aa: Return code from the database access session

bb....bb: Detailed code from the database access session

cc....cc: Message from the database access session

S: Passes `SQLException` to the calling class.

Action

Contact a customer engineer.

2.8 KFPK messages

KFPK00001-E E

aaaaaaaa: file not found, *file_kind:bb...bb* *file_name:cc...cc*

Specified file or temporary file created by a utility was not found. Or, specified directory does not contain an analyzable file.

aaaaaaaa: Utility:

Pdstedit: Statistics analysis utility

bb...bb: File type

control file: Control statements file

sort data file: Work file for sorting

unload log file: Unload log file

cc...cc: File name or directory name

S: Terminates processing.

O: Take one of the following actions, depending on the file type:

unload log file or control file:

Check the command name and reenter the command. If *file_name* is a directory name, check the files under the directory and reenter the command.

sort data file:

Check if the temporary file automatically created by the utility was deleted by mistake.

KFPK00002-E D+E

aa....aa: file open failed, *file_kind:bb...bb*, *file_name:cc...cc*,
errno=dd...dd

Specified file or temporary file created by a utility cannot be opened.

aa....aa: Utility:

Pddbst: Database condition analysis utility

Pdstedit: Statistics analysis utility

bb...bb: File:

control file: Control statements file

edit work file: Work file

sort data file: Work file for sorting

unload log file: Unload log file

DAT file: DAT-format file

predict csv file: CSV output file

cc...cc: File name

dd...dd: `errno` returned from the open system call

S: Message is output to standard error:

Terminates processing.

Message is output to the error message dialog:

Redisplays the screen immediately before the error occurred.

O: Statistics analysis utility:

Based on `errno`, check `errno.h` and the manual for the operating system in use to eliminate the cause of the error, and then re-execute the command.

If `***` is indicated in `errno`, check the cause of the error based on the preceding error message.

Database condition analysis utility:

Based on `errno`, check `errno.h` and the manual for the operating system in use to eliminate the cause of the error, and then re-execute the command.

KFPK00003-E D+E

aa...aa: file close failed, `file_kind:bb...bb`, `file_name:cc...cc`,
`errno=dd...dd`

A file cannot be closed.

aa...aa: Utility

`Pddbst`: Database condition analysis utility

`Pdstedit`: Statistics analysis utility

bb...bb: File

control file: Control statements file

edit work file: Work file

sort data file: Work file for sorting

unload log file: Unload log file

predict csv file: CSV output file

cc...cc: File name

dd...dd: `errno` returned from the `close` system call

S: Message is output to standard error:

Terminates processing.

Message is output to the error message dialog:

Redisplays the screen immediately before the error occurred.

O: Statistics analysis utility:

Based on `errno`, check `errno.h` and the manual for the operating system in use to eliminate the cause of the error, and then re-execute the command.

If `***` is indicated in `errno`, check the cause of the error based on the preceding error message.

Database condition analysis utility:

Based on `errno`, check `errno.h` and the manual for the operating system in use to eliminate the cause of the error, and then re-execute the command.

KFPK00004-E D+E

aa...aa: I/O error, cause:*bb...bb*, file_name:*cc...cc*, `errno`=*dd...dd*

An I/O error occurred.

aa...aa: Utility:

`Pddbst`: Database condition analysis utility

`Pdstedit`: Statistics analysis utility

bb...bb: Type of system call that caused the error

`LSEEK`: `lseek` system call

`READ`: `read` system call

`WRITE`: `write` system call

cc...cc: File name

dd...dd: `errno` returned from the system call

S:

Message is output to standard error:

Terminates processing.

Message is output to the error message dialog:

Redisplays the screen immediately before the error occurred.

O:

Statistics analysis utility:

Based on `errno`, check `errno.h` and the manual for the operating system in use to eliminate the cause of the error, and then re-execute the command.

If `***` is indicated in `errno`, check the cause of the error based on the preceding error message.

Database condition analysis utility:

Based on `errno`, check `errno.h` and the manual for the operating system in use to eliminate the cause of the error, and then re-execute the command.

KFPK00005-E D+E

aa....aa: system call error, *func=bb....bb*, *errno=cc....cc*

A system call (function) error occurred.

aa....aa: Utility:

`Pddbst`: Database condition analysis utility

`Pdstedit`: Statistics analysis utility

bb....bb: Name of system call resulting in the error

cc....cc: `errno` returned from the system call

S:

Message is output to standard error:

Terminates processing.

Message is output to the error message dialog:

Redisplays the screen immediately before the error occurred.

O: Check the meaning of the error number (`errno`: external integer variable indicating the error status), refer to `errno.h` and the applicable OS manual to eliminate the cause of the error, then re-execute the command.

KFPK00006-E D+E

aa....aa: unrecoverable error, *func=bb....bb*, *errno=ccc*

An unrecoverable error occurred.

aa....aa: Utility:

`Pddbst`: Database condition analysis utility

`Pdstedit`: Statistics analysis utility

bb....bb: Type of system call that caused the error

CLOSEDIR: `closedir` system call

CREATE: `create` or `open` system call

DELETE: `unlink` system call

OPENDIR: `opendir` system call

READDIR: `readdir` system call

ccc: `errno` returned from the system call

S:

Message is output to standard error:

Terminates processing.

Message is output to the error message dialog:

Redisplays the screen immediately before the error occurred.

O: Check the meaning of the error number (`errno`: external integer variable indicating the error status), refer to `errno.h` and the manual describing the applicable function to eliminate the cause of the error, and then re-execute the command. When the error number is `***`, check for the cause based on the error message previously output. If a control statement file is specified and *bb...bb* is `CREATE`, review the path name specified in the control statement.

KFPK00007-W E

aa...aa error occurred in log element file, *server_name:bb...bb*
file_name:cc...cc system A/B:*d* reason=(*eee,ffff*)

An error occurred in the system log file.

aa...aa: Processing resulting in the error:

Close: Close processing

Open: Open processing

Read: Read processing

bb...bb: Server name corresponding to the file group

cc...cc: File group name

d: System in which the error occurred

eee: Reason code

ffff: Detail code

S: If the error was not in a log file of the other system, the HiRDB system resumes processing by using the log file in the other system.

O: Take action appropriate to the reason code:

Reason code	Explanation	Action
-40 -41 -42 -43	I/O error occurred.	Find the detail code corresponding to the error code in Section 5.1 to eliminate the cause of the error.
-50 -51 -52 -53	File contents are invalid.	Determine which of the following caused the message to be output, eliminate the cause of the error, and re-execute the command: <ol style="list-style-type: none"> 1. The current group was specified. 2. An unused file group was specified after initialization. 3. Non-system log file group was specified. 4. The log file has been damaged (check whether the log file definition was changed or initialized or whether the status was changed erroneously). The detail code consists of system maintenance information.

KFPK00008-E E

aa...aa error occurred in log element file, server_name:*bb...bb*
file_name:*cc...cc* system A/B:*d* reason=(*eee,ffff*)

An error occurred in the system log file.

aa...aa: Processing resulting in the error:

Close: Close processing

Open: Open processing

Read: Read processing

bb...bb: Server name corresponding to the file group

cc...cc: File group name

d: System in which the error occurred

eee: Reason code

ffff: Detail code

S: Terminates processing.

O: Take action appropriate to the reason code:

Reason code	Explanation	Action
-40 -41 -42 -43	I/O error occurred.	Find the detail code corresponding to the error code in Section 5.1 to eliminate the cause of the error.
-50 -51 -52 -53	File contents are invalid.	The log file may have been damaged (check whether the log file definition was changed or initialized or whether the status was changed erroneously). The detail code consists of system maintenance information.

KFPK00009-E E

aaaaa error occurred, file=*bb...bb*

A file I/O error occurred.

aaaaa: Process that caused the error:

Open: An error occurred on an open process

Read: An error occurred on a read process

Close: An error occurred on a close process

bb...bb: File name

S: Terminates processing.

O: Refer to the error message output immediately after this message to eliminate the error cause, and then re-execute the command.

KFPK00010-E E

File I/O error occurred, reason=*aa...aa*, func=*bb...bb*, errno=*cc...cc*,
(*dd...dd*)

An error occurred when inputting or outputting a file.

aa...aa: Error cause

Invalid-parameter: The combination of specified parameters is invalid.

Invalid-permission: The user does not have access permission for the file.

Invalid-device: The file entry type (attribute) is invalid. A directory name might be specified where a file name must be specified (or the converse). In UNIX, a character special file might be assigned to a file on which a character special file cannot be used.

File-format: The file formats are different. It is possible that the specified file name is incorrect, or the file format specified on the command line or in the control statement does not match the file contents.

`Invalid-file`: The specified file was not created correctly.

`File-lock`: The file is being used by another user. The file name specified in the command line or control statement might be in use by another job. In UNIX, there might be a shortage of file locking resources for an OS kernel parameter.

`No-file`: Cannot find the file.

For `Invalid-device`, when the entry type of the specified file can be identified, the device type is displayed with the entry type in parentheses. In UNIX, the content is the same as the entry for the mode displayed by the operating system's `ls -l` command.

`bb...bb`: Name of the system function where an error occurred

- If the operating system detected the error, the system function name
- If the HiRDB file system detected the error, the HiRDB file system function name beginning with `p_f_ios`
- If other than the above, `***`

`cc...cc`: Error code

- If the operating system detected the error, the error number (`errno`: foreign reference variable that shows the error status) returned by the system function name
- If the error was detected by the HiRDB file system, the HiRDB file system error code (for details on HiRDB file system error codes, see *5.1 Error codes returned from HiRDB file system access requests*)
- If an error cause other than the above, `0`

`dd...dd`: Troubleshooting information (source file name and row number that detected the error). This information is used by the customer engineer.

`S`: Terminates processing.

`O`: From the error cause, function name, and error code, check `errno.h`, the manual for the operating system in use, and *5.1 Error codes returned from HiRDB file system access requests* to eliminate the cause of the error, and re-execute.

KFPK00011-E E

HiRDB file `aa...aa` error, `errno=bb...bb`, HiRDB file name=`cc...cc`

An error occurred when accessing a HiRDB file.

`aa...aa`: Process where the access error occurred

`open`: An open process of a HiRDB file

`read`: A read process from a HiRDB file

`close`: A close process of a HiRDB file

`bb...bb`: Error code of the HiRDB file system

`cc...cc`: HiRDB file name

S: Terminates processing.

O:

When `bb...bb` is error code -1562, the applicable HiRDB file system area may not be the UTL type. Check if the HiRDB file system area specified in the input is the correct type.

When `bb...bb` is an error code other than -1562, see *5.1 Error codes returned from HiRDB file system access requests* to eliminate the error cause, and then re-execute.

KFPK00012-E E

`aa...aa`: file already exist, `file_kind=bb...bb`, `file_name=cc...cc`

Temporary work file created by the utility already exists.

`aa...aa`: Utility type

`Pdstedit`: Statistics analysis utility

`bb...bb`: File type

`sort data file`: Temporary work file

`cc...cc`: File name

S: Terminates processing.

O: Make sure that the same command is not executing concurrently, delete file `cc...cc`, and then re-execute the command.

KFPK00013-E D+E

`aa...aa`: system call error, `func=bb...bb`, `file_name=cc...cc`, `errno=dd...dd`

Error occurred with the system call (function) That accesses the file.

`aa...aa`: Utility type

`Pdstedit`: Statistics analysis utility

`Pddbst`: Database condition analysis utility

`bb...bb`: Name of system call causing the error

`cc...cc`: File name

`dd...dd`: Error number set in `errno`

S: When output to standard error, this message terminates processing. When output to

a message dialog, the display returns to the screen displayed before the error occurred.

O: Check the error number (`errno`: external integer variable expressing the error status), see the documentation that describes `errno.h` and the applicable functions to eliminate the cause of the error, and then re-execute the command.

KFPK00050-E D+E

aa....aa: insufficient memory, *size=bb....bb*

A memory shortage occurred.

aa....aa: Utility:

`Pddbst`: Database condition analysis utility

`Pdstedit`: Statistics analysis utility

bb....bb: Size (in bytes) of area that was to be allocated

S:

Message is output to standard error:

Terminates processing.

Message is output to the error message dialog:

Redisplays the screen immediately before the error occurred.

O: Check for a process that uses a large amount of memory:

When there is a process using a large amount of memory:

Wait for the process to terminate, and then re-execute the command.

When there is no process using a large amount of memory:

Use one of the following methods to prepare sufficient memory:

- Reduce the number of simultaneously executing processes.
- Increase the size of the swap area.
- Increase the memory.

KFPK00100-E D+E

aa....aa: interface error, *func=bb....bb*, *return code=cccc*

An interface error occurred between program functions.

aa....aa: Utility:

`Pddbst`: Database condition analysis utility

`Pdstedit`: Statistics analysis utility

bb....bb: Name of function that returned an invalid code

cccc: Detail code

S:

Message is output to standard error:

Terminates processing.

Message is output to the error message dialog:

Redisplays the screen immediately before the error occurred.

O: Contact the HiRDB administrator.

Action

Contact a customer engineer.

KFPK00200-I E

```
Usage: pdstedit [-k edit_item[,edit_item]...]
[-m interval] [-t [start_time] [,end_time]]
[-u uap_name[,uap_name]...]
[-x host_name[,host_name]...]
[-s server_name[,server_name]...]
[-f foreign_server_name[,foreign_server_name]...]
[-o dat_dir[-e ext_fmt[,ext_fmt]]] [-i unload_log] [-w work_dir]
[-d control_file] [-b]
```

Following is a description of how to use the Statistics analysis utility (pdstedit):

- b: Specifies that the title bar is to be displayed for a DAT-format file.
- d: Specifies the name of the control statements file.
- e: Specifies the value of the extended format specification.
- i: Specifies the unload file or unload file storage directory.
- k: Specifies the types of statistical analysis information (more than one information type can be specified).
- m: Specifies the editing interval in minutes (up to 1440 can be specified).
- o: Specifies the name of the DAT-format file output destination directory.
- s: Specifies the server names (a maximum of 32 server names can be specified).
- t: Specifies the editing startup time and end time (the start time and end time cannot both be omitted).
- u: Specifies the UAP names (a maximum of 16 UAP names can be specified).
- x: Specifies the host names (a maximum of 32 host names can be specified).
- w: Specifies the name of the directory under which work files are to be created.

S: Terminates processing.

O: Check the `pdstedit` parameters for any errors.

KFPK00201-E E

aa....aa: invalid parameter

An invalid parameter was specified in the utility activation command. This message is displayed because an invalid option was specified:

aa....aa: Utility:

`Pddbst`: Database condition analysis utility

`Pdstedit`: Statistics analysis utility

S: Terminates processing.

O: Check for errors in each utility's runtime input parameters.

KFPK00202-E E

aa....aa: invalid combination of options

A combination of utility activation command options is invalid. Or, the combination of the options and the control statement is invalid.

aa....aa: Utility:

`Pddbst`: Database condition analysis utility

`Pdstedit`: Statistics analysis utility

S: Terminates processing.

O: Check for errors in the specification of each utility's runtime parameters (command line and control statements).

KFPK00203-E E

aa....aa: invalid *bb* option

Option *bb* is invalid in a utility activation command.

This message is displayed in one of the following cases:

- No key is specified in the option.
- Specified key format is invalid in the option.
- The key specified in the option exceeds the repetitions limit.
- The key specified in the option exceeds the limit.
- The `-G` option was specified in an environment where the HiRDB Staticizer Option cannot be used.
- Although not using the facility for predicting reorganization time (`y` specified in the system definition `pd_rorg_predict` operand), the `-e`, `-k pred`, `-m`, `-R`,

2. Messages

-c, or -v option was specified.

aa...aa: Utility:

pddbst: Database condition analysis utility

pdstedit: Statistics analysis utility

b: Name of invalid option

S: Terminates processing.

O: Check for errors in the specification of each utility's runtime input parameters.

KFPK00204-E L+E

Invalid attribute exists in Control file, line=*aa...aa*

An invalid value was detected in line *aa...aa* of the control statement file specified in the -v option.

aa...aa: Control statement line number

S: Throws an `SQLException`.

O:

pddbst execution:

When executing the facility for predicting reorganization time (when -k *pred* is specified), check the control statement specification and correct the error. Then, re-execute *pddbst*.

If other than the above and the -v option is specified, delete the -v option and re-execute.

HiRDB CM execution:

Contact the HiRDB administrator.

Action

If output during the execution of HiRDB CM, contact the customer engineer.

KFPK00205-E E

Length of unload log file name exceeds bytes

Invalid file name was specified for the statistics analysis utility (*pdstedit*).

S: Terminates processing.

O: Check the parameters of the utility activation commands for errors.

KFPK00206-E E

aaaaaaaa: invalid directory name, kind=*bb...bb*

The name of a file creation directory specified in a utility activation command is invalid for one of the following reasons:

1. Specified directory was not found.
2. The command executor does not have write privilege for the specified directory.
3. The directory with the specified name does not have the directory attribute.
4. Specified directory name exceeds 128 bytes.

aaaaaaa: Utility:

pdstedit: Statistics analysis utility

bb...bb: Directory:

DAT data file: DAT format file creation

sort data file: Work file for sorting

S: Terminates processing.

O: Check for errors in the specification of each utility's runtime input parameters.

KFPK00207-E E

aaaaaa: unable to assume user id

For the reasons indicated below, the default for the authorization identifier cannot be assumed:

- The `PDUSER` environment variable is undefined.
- The authorization identifier or password defined in the `PDUSER` environment variable exceeds the maximum length.
- In the authorization identifier or password defined in the `PDUSER` environment variable, double quotation marks (") are not paired.
- An authorization identifier is not specified in the `PDUSER` environment variable.

aaaaaa: Utility:

pdcbst: Database condition analysis utility

S: Terminates processing.

O:

If the `-u` option is omitted when the command is executed, make sure the correct authorization identifier or password is specified in the `PDUSER` environment variable, and then re-execute the command.

When the Windows version is being used and the `-u` option is omitted, check that the authorization identifier and password specified at the command prompt are not enclosed in single quotation marks (').

Example of correct specification:

```
PDUSER="root"/"root"
```

When specifying an authorization identifier or password in the client environment definition (`hirdb.ini`), enclose it in single quotation marks (').

Example of correct specification: `PDUSER=' "root"/"root" '`

KFPK00208-E E

Invalid attribute exists in Base value file, line=*aa...aa*

One of the following errors occurred in line *aa...aa* of the standard value definition file specified in the `-c` option.

- Invalid standard value item name
- Invalid analysis specification
- Invalid specification value descriptor or invalid range

aa...aa: Control statement line number

S: Terminates processing.

O: Check the contents of the standard value definition file, correct the specification error, and re-execute.

KFPK00250-W E

Invalid unload log file, file_name:*aa...aa*

An error was detected in the input file for the statistics analysis utility (`pdstedit` command).

When the input of the statistics input unload file specified for the statistics analysis utility is a file name:

- A file of the specified file's type is not subject to analysis.
- The specified file is not an unload statistics log file or unload log file
- A pipe file was specified, but the file contained data other than an unload statistics log file. (UNIX version only.)
- The name of an unload statistics log file obtained in 64-bit mode HiRDB is specified in a 32-bit mode HiRDB.

When the input of the statistics input unload file specified for the statistics analysis utility is a directory name:

- A file of file *aa...aa*'s type in the specified directory is not subject to analysis.
- The specified file is not an unload statistics log file or unload log file of file *aa...aa* under the specified directory.
- The HiRDB file (*aa...aa*) in the HiRDB file system area in the specified

directory is not an unload log file.

- File *aa....aa* located in the specified directory is an unload statistics log file obtained in a 64-bit mode HiRDB; it cannot be input in a 32-bit mode HiRDB.

When the specified input of the statistics input unload file in the statistics analysis utility is a HiRDB file system area name

- No HiRDB file was found in HiRDB file system area *aa....aa*.
- HiRDB file *aa....aa* in the specified HiRDB file system area is not an unload log file.
- HiRDB file *aa....aa* in the specified HiRDB file system area is being unloaded.
- The user does not have read or write privileges to the specified HiRDB file system area.

aa....aa: File name

S: Resumes processing, ignoring the invalid file (does not edit the file).

O: Check the `pdstedit` command parameters for an error. Alternatively, if the user does not have the necessary privileges to the specified HiRDB file system area, grant the user read or write privileges.

KFPK00251-E E

Invalid log record, record_number:*aa....aa*

A log record is invalid.

aa....aa: Serial number of log record

S: Terminates processing.

O: Contact the HiRDB administrator.

Action

Check the data in the unload log file or unload statistics log file for any damage.

KFPK00252-E E

Invalid sort data file, cause:*aa....aa* file_name:*bb....bb*

A work file for sorting is invalid.

aa....aa: Reason:

corrupt record: Records are corrupted

invalid type: Not a work file for sorting

bb....bb: Invalid work file for sorting

S: Terminates processing.

O: Check that no change was made to the sort work file created internally by the pdstedit.

KFPK00253-E E

Invalid log block, block_number:aa...aa

A log block is invalid.

aa...aa: Serial number of log block

S: Terminates processing.

O: Contact the HiRDB administrator.

Action

Check the data in the unload log file for any damage.

KFPK00254-E E

aa...aa : Invalid contents in file, file_kind : bb...bb file_name : cc...cc record_length=dd...dd read_length=ee...ee

The contents of the input file are invalid. The file's contents may have been damaged.

aa...aa: Utility type:

pdstedit: Statistics analysis utility

bb...bb: File type:

unload log file: Unload log file

unload stj log file: Unload statistics log file

sort data file: I/O file for sorting

cc...cc: File name

dd...dd: Record length that was to be loaded (maintenance information)

ee...ee: Length of the data that was loaded successfully (maintenance information)

S: Terminates processing.

O: Contact the HiRDB administrator.

Action

When the file type is unload log file or unload stj log file:

Check as follows for whether or not the data in the unload file has been damaged:

- For data transfer using FTP, check if the data in the unload file has been damaged.

- Check if the unload file has been updated illegally.
 - If the file type is `unload log file`:

UNIX version:

If the statistics log file (statistics log file named `pdstj1` or `pdstj2` that was output under `$PDDIR/spool` before unloading was performed using the OS's `cp` command or the `pdstjacm` shell script) before `cc....cc` was unloaded is available, use a command such as `cmp` to compare the contents of `cc....cc` with the contents of the file before unloading to make sure they are identical.

Windows version:

If the statistics log file output before `cc....cc` was unloaded is available, use the `fc` command to compare `cc....cc` and the contents of the file before it was unloaded, and make sure they are identical.

- If the file type is `unload stj log file`:

If `cc....cc` is an unload log file that was backed up using the `pdlogunld` command and if there is a subsequent unload file acquired using the `pdlogunld` command and associated with that file, use the `cmp` command (in UNIX) or the `fc` command (in Windows) to compare the contents of the two files, and make sure they are identical.

When the file type is `sort data file`:

Check as follows for whether or not the I/O file for sorting that is created internally by the statistics analysis utility has been modified inadvertently:

UNIX version:

Check whether or not the files under `$PDDIR/tmp` or `/usr/tmp` were deleted or updated illegally during execution of the statistical analysis utility.

Windows version:

Determine whether a file under `%PDDIR%\tmp` was deleted or improperly updated during execution of the statistical analysis utility.

If none of the above is applicable, contact a customer engineer.

KFPK00255-W E

```
aaaaaaaa:Invalid contents in file, file_kind:bb...bb file_name:
cc....cc record_length=dd....dd read_length=ee....ee
```

The contents of the input file are invalid. The file's contents may have been damaged. Perform editing using the records that had been input before the invalid record was detected.

aaaaaaaa: Utility:

`pdstedit`: Statistics analysis utility

bb...bb: File type:

`unload log file`: Unload log file

`unload stj log file`: Unload statistics log file

cc...cc: File name

dd...dd: Record length that was to be loaded (maintenance information)

ee...ee: Length of the data that was loaded successfully (maintenance information)

S: Continues processing.

O: Contact the HiRDB administrator. For the acquisition time for the log record that was input successfully, refer to `FIRST` and `LAST` in the input log file summary information.

Action

When the file type is `unload log file` or `unload stj log file`:

Check as follows for whether or not the data in the unload file has been damaged:

- For data transfer using FTP, check if the data was transferred in the binary mode.
- Check if the unload file has been updated illegally.

When the file type is `unload stj log file`:

1. Check that the disk at the statistics log file's output destination (`%PDDIR%\spool`) did not become full during acquisition of the statistics log file before unloading of *cc...cc*.
2. In UNIX, if the statistics log file (statistics log file named `pdstj1` or `pdstj2` that was output under `$PDDIR/spool` before unloading was performed using the OS's `cp` command or the `pdstjacm` shell script) before *cc...cc* was unloaded is available, use the `cmp` command to compare the contents of *cc...cc* and the file before it was unloaded, and make sure they are identical.

In Windows, if the statistics log file output before *cc...cc* was unloaded is available, use the `fc` command to compare *cc...cc* and the contents of the file before it was unloaded, and make sure they are identical.

When the file type is `unload log file`:

If *cc...cc* is an unload log file that was backed up using the `pdlogunld` command and if there is a subsequent unload file acquired using the `pdlogunld` command and associated with that file, use the `cmp` command

(in UNIX) or the `fc` command (in Windows) to compare the contents of the two files, and make sure they are identical.

If none of the above is applicable, contact a customer engineer.

KFPK00300-I E

`Pdstedit terminated, return code=aa....aa`

Execution of the statistics analysis utility is completed.

aa....aa: Return code:

0: Terminated normally

4: Terminated normally, but a warning message was issued

8: Processing was cancelled due to an error

12: Processing was cancelled due to an interrupt (signal generated)

S: Terminates processing.

O:

4 set as the return code:

Check the cause on the basis of the message with type W that was issued during processing.

8 set as the return code:

Check the cause on the basis of the message with type E that was issued during processing.

KFPK00301-I E

`Stdin assumed as input`

Processing was performed using the standard input, because the `-i` option was omitted, or processing was placed on input wait status, because the `-i` option was omitted. Therefore, the standard input was assumed.

S: Resumes processing.

O: Determine whether or not the processing should be resumed using the standard input. To cancel the processing, terminate the utility with the following methods:

Processing placed on input wait status:

Press the return key again.

Other:

In UNIX, specify a process ID, and enter the `kill` command.

In Windows, specify a process ID, and enter the `pdkill` command.

KFPK00400-E E

Sort program error

An error occurred during sort processing.

S: Terminates processing.

O: Refer to the preceding sort processing error message, and investigate the cause of the error. If the cause of the error cannot be identified, contact the HiRDB administrator.

Action

Correct the error and re-execute.

KFPK00901-E E

Unable to make an entry SQL_DB_STATE_ANALYZED

Because the result of condition analysis could not be registered in the database management table, the reorganizing time cannot be predicted for the most recent database condition.

S: Terminates processing.

O: Refer to the message* output before this message and remove the cause of the error. Then, re-execute `pddbst`, and register the result of condition analysis in the database management table.

* For KFPK011204-E, `pdmob` must be used to create the RDAREA used by the data dictionary to store the database state analyzed table and the database management table.

KFPK00911-W E

Unable to make an entry SQL_DB_STATE_ANALYZED, RDID=*aa...aa*, OBJID=*bb...bb*, code=*ccc*

The facility for accumulating condition analysis results was executed in a merge analysis; the results could not be merged with the database state analysis table.

aa...aa: RDAREA ID

bb...bb: Table or index ID

ccc: Reason code for merge failure

-10: Table or index deleted during execution of `pddbst`

Other than above: Multiple `pddbst` commands executed simultaneously

S: Continues processing.

O: Do not execute multiple `pddbst` commands simultaneously on the same RDAREA. Also, do not delete a table or index during execution of `pddbst`.

KFPK00999-E L+E

HiRDB Control Manager interface file I/O error occurred,
reason=*aa....aa*

An error occurred in the file that interfaces with HiRDB CM.

aa....aa: Error cause

PATH_NAME: The file path name is too long.

FILE_OPEN: File open failed.

FILE_WRITE: File write failed.

FILE_CLOSE: File close failed.

S: Terminates processing.

O:

- If *aa....aa* is PATH_NAME, see the HiRDB CM manual, and change the file output destination.
- If *aa....aa* is FILE_OPEN, FILE_WRITE, or FILE_CLOSE, refer to pdlog, the event log, or the KFPK00005-E or KFPK00010-E error message that was output to the event log (in UNIX, syslogfile) to resolve the error.

KFPK05200-E E

Invalid format exists in control file, line=*aa....aa*

The format of line *aa....aa* in the control statements file specified with the -d option of the statistics analysis utility is incorrect.

aa....aa: Line number resulting in the error during analysis

S: Terminates processing.

P: Correct the indicated line in the control statements file and re-execute the command.

KFPK05201-E E

Invalid attribute exists in control file, line=*aa....aa*

The value of line *aa....aa* in the control statements file specified with the -d option of the statistics analysis utility is incorrect.

aa....aa: Line number resulting in the error during analysis

S: Terminates processing.

P: Correct the indicated line in the control statements file and re-execute the command.

KFPK05202-E E

Line of file_group sentence in control file exceeds the limit

The number of file_group statements in the control statements file specified with the -d option of the statistics analysis utility exceeds the maximum.

S: Terminates processing.

P: Correct the control statements file so that the number of `file_group` statements specified does not exceed 34 and re-execute the command.

KFPK05203-E E

server name specified twice in control file, `server_name: aa...aa`

The same server name was specified more than once in the control statements file with the `-d` option of the statistics analysis utility.

`aa...aa`: Duplicated server name

S: Terminates processing.

P: Correct the control statements file so that the same server name is specified only once and re-execute the command.

KFPK05204-E E

Error occurred in log file group, `server_name:aa...aa`,
`file_name:bb...bb`, `reason=(cc...cc, dd...dd)`

An error was detected in a log file group specified with a control statement of the statistics analysis utility.

`aa...aa`: Server name corresponding to the file group

`bb...bb`: File group name

`cc...cc`: Reason code

`dd...dd`: Detail code

S: Terminates processing.

Action

Following are the reason codes and actions:

Reason code	Explanation	Action
-1	Argument is invalid.	Contact a customer engineer.
-2	Fatal error or unexpected error occurred.	
-30	Error in log file definition analysis function	Refer to the error message output before this message to eliminate the cause of the error. The detail code consists of system maintenance information.
-31	Error in log file definition analysis	Log file definition has been changed incorrectly. Refer to the detail code to return to the original definition.

Following are the detail codes:

Detail code	Explanation
-1	File group name in definition is incorrect.
-2	System A file name in definition is incorrect.
-3	System B file name in definition is incorrect.
Other	Maintenance information

KFPK05300-I E

No data in log file, *record_kind=aaa*, *reason=bb...bb*

The log file that was to be subject to the analyses contained no records.

aaa: Record type:

sop: SQL static optimization information log records

dop: SQL dynamic optimization information log records

pcd: SQL object execution information log records

obj: SQL object transfer information log records

cnc: connect/disconnect information log records

sqh: SQL statement information log records

plg: Plug-in statistical information log records

bb...bb: Reason:

NOOPT:

-d option not specified:

- The indicated edit item record was not found in the total analysis log file.

-d option specified:

- The indicated edit item record was not found in the total analysis log file.
- The server specified in the -s option was not defined in the control statements file specified in the -d option.

HOST:

There was no statistics log record that was output from the host specified in the -x option.

SERVER:

The statistical record output from the server specified in the `-s` option cannot be found.

UAP:

There was no statistics log record that was output from the UAP specified in the `-u` option.

TIME:

There was no statistics log record that was output within the edit interval specified in the `-t` option.

S: Resumes processing.

Action

Check the *HiRDB Version 8 Command Reference* for the message that is output when there is no edit data for the statistics analysis utility, and take appropriate action.

KFPK10012-E D+E

Transaction start error on *aa...aa*, func=*bb...bb* return code=*cc...cc*

An error occurred during transaction startup processing.

aa...aa: Name of server where the error occurred

bb...bb: Name of processing resulting in the error

cc...cc: Error code

S: Message is output to standard error:

Terminates processing.

Message is output to the error message dialog:

Redisplays the screen immediately before the error occurred.

O: Contact the HiRDB administrator.

Action

See 4. *Error Detail Codes* to eliminate the cause of the error, then re-execute the command. If the error cannot be corrected, contact a customer engineer.

KFPK10013-E D+E

Transaction termination error on *aa...aa*, func=*bb...bb* return code=*cc...cc*

An error occurred during transaction termination processing.

aa...aa: Name of server where the error occurred

bb...bb: Name of processing resulting in the error

cc...cc: Error code

S: Message is output to standard error:

Terminates processing.

Message is output to the error message dialog:

Redisplays the screen immediately before the error occurred.

O: Contact the HiRDB administrator.

Action

See *4. Error Detail Codes* to eliminate the cause of the error, then re-execute the command. If the error cannot be corrected, contact a customer engineer.

KFPK10014-E D+E

aa...aa lock request failed, name=[*bb...bb*] "*cc...cc*"

Locking of a resource failed.

aa...aa: Resource type:

Index: Index

RDAREA: RDAREA

Table: Table

bb...bb: Authorization identifier (displayed only when *aa...aa* is Index or Table)

cc...cc: Name of resource

S: If the facility for accumulating condition analysis results is being executed and there is another process making exclusive use of the target resource, skips the analysis of the target resource, and continues processing. Information on the RDAREA whose processing is skipped is not accumulated.

Terminates processing in the following cases:

- A locking error occurred due to other causes
- The database condition analysis facility and the facility for predicting reorganization time are being executed

O: Refer to the message that is output to the message log file, resolve the error, and re-execute the command. If the output message is *KFPA11770-I*, wait until the other process making exclusive use of the target resource terminates, and then re-execute the command.

KFPK10015-E D+E

Directory access error, server=*aa...aa*

An error occurred while a directory was being accessed.

aa...aa: Server name

S: Message is output to standard error:

Terminates processing.

Message is output to the error message dialog:

Redisplay the screen immediately before the error occurred.

O: Eliminate the cause of the error on the basis of the message that was output to the log file, then re-execute the command. If the output message is *KFPA11815-E*, the table definition was modified during execution of the command. If that is the case, re-execute the command when the table definition is not being modified.

KFPK10016-E D+E

Insufficient memory in message buffer pool due to concurrent execution of "pddbst"

A temporary memory shortage occurred in the message storage buffer pool for the utility server when *pddbst* was executed concurrently.

The *KFPS00854-W* message may be output when this error occurs; however, a server error has not occurred in this case.

S: Message is output to standard error:

Terminates processing.

Message is output to the error message dialog:

Redisplay the screen immediately before the error occurred.

O: Re-execute the command after execution of the current command is completed.

KFPK10017-E D+E

Unable to send message from *aa...aa* to *bb...bb*

Data cannot be sent from host *aa...aa* to host *bb...bb* because a communication error occurred.

aa...aa: Send source host name *

bb...bb: Send destination host name *

* If the system switching facility is being used, the host name of the primary system is indicated.

S: Message is output to standard error:

Terminates processing.

Message is output to the error message dialog:

Redisplays the screen immediately before the error occurred.

Action

Take action appropriate to the KFPK10100-E message output before this message. If the error was 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.

KFPK10018-E E

Dynamic load error occurred, shared library=*aa...aa*

An error occurred in dynamic loading of a shared library required for processing.

aa...aa: Full path name of the shared library

S: Terminates processing.

O: Refer to the preceding KFPK00005-E message.

UNIX version:

Check the following, resolve the error, and re-execute the command:

- GUI function used

Check whether X Window System and Hitachi Motif have been installed correctly

- GUI function not used

Check whether processing is being executed with output of analysis results to standard output specified

Windows version:

Determine whether processing is being executed with output of analysis results to standard output specified, resolve the error, and re-execute the command.

KFPK10019-E E+D

HiRDB file error, func=*aa...aa* return code=*bb...bb* filename=*cc...cc*

An error that produces error code *bb...bb* occurred in file access function *aa...aa* for file *cc...cc*.

aa...aa: Function name

bb...bb: Error code

cc...cc: HiRDB file name

S: Terminates processing.

Action

Correct the error by referring to *5.1 Error codes returned from HiRDB file system access requests*, and then re-execute.

KFPK10020-E D+E

RDAREA "*aa...aa*" not found

RDAREA "*aa...aa*" could not be found.

Possible cause:

- RDAREA to be processed was deleted while a utility was running.

aa...aa: RDAREA name

S: Terminates processing.

O: When the RDAREA to be processed is deleted while a utility is running, reconstruct the environment so that the utility can be executed, and then re-execute the utility. If the RDAREA cannot be deleted, contact a customer engineer.

KFPK10100-E D+E

RPC(system) error, func=*aa...aa*, return code=*bbbb*

An RPC-related error or system-related error occurred.

aa...aa: Name of function resulting in the error

bbbb: Error detail code

S: Message is output to standard error:

Terminates processing.

Message is output to the error message dialog:

Redisplays the screen immediately before the error occurred.

O: See *4. Error Detail Codes* to eliminate the cause of the error and re-execute the command. If the HiRDB administrator cannot handle the error, contact a customer engineer.

KFPK10101-E E

Unable to start pddbst

The database condition analysis utility cannot be started for one of the following reasons:

- The maximum number of concurrently executable utilities has been reached.
- HiRDB is engaged in termination processing.

S: Terminates processing.

O: Eliminate the cause of the error and restart.

KFPK10102-W D+E

Specified value not found in system *aa...aa*="*bb...bb*"

Specified RDAREA name, table identifier, or index identifier was not found (if *aa...aa* is `table`, it may be a table specified with a table alias). Or, no replica RDAREA was found in the generation specified by the `-q` option.

aa...aa: Identifier:

index: Index

RDAREA: RDAREA

table: Table

bb...bb: Specified identifier

S: Resumes processing.

O: Check if the specified name exists in the system, specify the correct name, then restart.

KFPK10103-W D+E

Unable to get status information

aa...aa="*bb...bb*" [`server=ee...ee`]

cc...cc="*dd...dd*" [`server=ff...ff`]

Information cannot be collected for the specified RDAREA or table identifier for one of the following reasons:

1. The server subject to analysis is not active.
2. The RDAREA subject to analysis is on the following status:
 - When the RDAREA attribute is `INITIAL`
The RDAREA is not on one of the following statuses:
 - Open without shutdown
 - Open with reference-possible backup hold
 - Referencing-possible backup-hold
 - Updatable backup-hold
 - When the RDAREA attribute is `DEFER` or `SCHEDULE`
The RDAREA is not on one of the following statuses:
 - Open without shutdown
 - Closed without shutdown
 - Open with reference-possible backup hold

- Closed with reference-possible backup hold
- Reference-possible backup hold
- Updatable backup-hold

aa...aa: Identifier:

index: Index

RDAREA: RDAREA

table: Table

bb...bb: Specified identifier

cc...cc: Identifier:

index: Index

RDAREA: RDAREA

table: Table

dd...dd: Specified identifier

ee...ee: Server name

ff...ff: Server name

S: Resumes processing.

O: Address the reason that information could not be obtained and restart.

KFPK10104-W D+E

No select privilege for authorization id

aa...aa="*bb...bb*" [server=*ee...ee*]

cc...cc="*dd...dd*" [server=*ff...ff*]

The user does not have the SELECT privilege for the specified table or index authorization identifier.

aa...aa: Identifier:

index: Index

RDAREA: RDAREA

table: Table

bb...bb: Specified identifier

cc...cc: Identifier:

index: Index

RDAREA: RDAREA

table: Table

dd...dd: Specified identifier

ee...ee: Server name

ff...ff: Server name

S: Resumes processing.

O: Check if the user has the `SELECT` privilege for the table or index authorization identifier subject to analysis, specify a table or index permitted by the `SELECT` privilege, then re-execute the command.

KFPK10105-E D+E

Unable to connect to HIRDB, user=*aa...aa*

Connection with HiRDB cannot be established.

aa...aa: authorization identifier

S:

Message is output to standard error:

Terminates processing.

Message is output to the error message dialog:

Redisplays the screen immediately before the error occurred.

O:

SQL statement-related message issued before this message:

Eliminate the cause of the error indicated by the message and re-execute the command.

No SQL statement-related message issued before this message:

Check if the user has the DBA privilege for the HiRDB system and re-execute the command.

KFPK10106-W D+E

Unable to analyze *aa...aa*="*bb...bb*", kind=*cc...cc*

Cannot analyze the specified RDAREA, table identifier, or index identifier.

aa...aa: Analysis target:

RDAREA: RDAREA name

table: Table identifier

index: Index identifier

bb...bb: Name

cc....cc: Type:

When RDAREA is displayed in *aa....aa*:

master directory: Master directory RDAREA

data directory: Data directory RDAREA

list: List RDAREA

other: Others

When table is displayed in *aa....aa*:

view table: View table

foreign table: Foreign table

cluster: Table without a cluster key definition

other: Other

When index is displayed in *aa....aa*:

foreign index: Foreign index

other: Others

S:

Message is output to standard error:

Terminates processing.

Message is output to the error message dialog:

Redisplays the screen immediately before the error occurred.

O: Check if the specified resource is subject to analysis. If it is not subject to analysis, correct the specification and re-execute.

KFPK10107-W D+E

No data

RDAREA="*aa....aa*" server=*bb....bb*

Specified RDAREA contains no table or index, so the status cannot be displayed.

aa....aa: RDAREA name

bb....bb: Server name

S:

Message is output to standard error:

Terminates processing.

Message is output to the error message dialog:

Redisplay the screen immediately before the error occurred.

KFPK10108-W D+E

No original RDAREA
RDAREA="aa...aa"

The specified RDAREA is not the original RDAREA. If the facility for predicting reorganization time is used, the target is the original RDAREA.

aa...aa: RDAREA name

S: Continues processing.

O: Check to determine if the specified RDAREA is the original RDAREA. If it is not the original RDAREA, specify the original RDAREA and re-execute. Also, to perform condition analysis of the specified replica RDAREA, delete the -q option and re-execute.

KFPK10200-I E

```
Usage: pddbst -r rdarea_name [-k logi] [-d] [-q
generation_number] [-u user_id[-p password]] [-b] [-v
control_file_name] | -r rdarea_name[,rdarea_name]... -k phys
[-f] [-a [-h]] [-q generation_number] [-u user_id[-p password]]
[-b] [-v control_file_name] | -t [auth_id.]table_name [-s] [-d]
[-q generation_number] [-u user_id[-p password]] [-b] [-v
control_file_name] | -t [auth_id.]table_name -k clus [-q
generation_number] [-u user_id[-p password]] [-b] [-v
control_file_name] | -i [auth_id.]index_name [-d] [-q
generation_number] [-u user_id[-p password]] [-b] [-v
control_file_name] | -r {rdarea_name | ALL} [-k logi] -e
predict_level [-I] [-n divided_number] [-w
sleep_time,segment_number] [-u user_id[-p password]] [-v
control_file_name] | [-r ALL] -k pred [-m] -e predict_level [-R
watch_time[,maintenance_extension_time]] [-c
base_value_define_file_name] [-v control_file_name] [-u
user_id[-p password]]
```

Displays the format of the pddbst utility.

-u: Specifies an authorization identifier.

-p: Specifies a password. This option must be specified together with the -u option.

-b: Specified to avoid online performance degradation of the application due to execution of pddbst.

-r: Specifies the name of an RDAREA. Specify this to perform analysis in units of RDAREAs. If -k phys is specified, multiple RDAREA names can be specified. If -k pred or -k logi -e is specified, -r all can be specified.

-k: Specifies the analysis type in units of RDAREAs. Specify either logi, phys, clus, or pred. Specify logi and phys in pairs with the -r option. Similarly, specify

- `clus` in pairs with the `-t` option. Specify `pred` when the facility for predicting reorganization time is used.
- `-d`: Specifies the display of detailed information on a page.
 - `-q`: When a replica RDAREA is found, specifies the generation to be analyzed.
 - `-f`: Specifies that HiRDB file information is to be displayed.
 - `-a`: Specifies the display in DAT format. Specify together with `-k phys`.
 - `-h`: When displaying in DAT format, specifies to output the title bar. Specify together with `-a`.
 - `-t`: Specifies [*authorization-identifier.*] *table-identifier*. Specify this to perform analysis in units of tables.
 - `-s`: Specifies that the number of stored lines is to be analyzed in units of tables. This option can be specified when the `-t` option is specified. However, it cannot be specified when the `-k` option is specified.
 - `-i`: Specifies the index identifier. This option is specified to perform analysis in units of indexes. The `-r` option, the `-t` option, and the `-i` option cannot be specified together.
 - `-e`: When executing the condition analysis results depository facility or the facility for predicting reorganization time, this specifies the prediction level. Specify together with `-k logi` or `pred`.
 - `-m`: When `-k pred -e 1` is specified, specifies performance of a detail analysis.
 - `-R`: Specifies the monitoring time and the maintenance delay time. Specify together with `-k pred`.
 - `-c`: Specifies the name of the standard value definition file. Specify together with `-k pred`.
 - `-v`: If the results of the facility for predicting reorganization time are to be output in CSV format or if the `work` file used by `pddbst` is to be output to a file other than `%PDDIR%\tmp`, specifies a control statement specifying an output destination file.
 - `-I`: When accumulating analysis information, specify this option when accumulated information on the RDAREA being analyzed is to be reset.
 - `-n`: Specify this option when analysis information is to be accumulated multiple times. For the accumulation of analysis information, this option can be specified if 2 is specified in the `-e` option.
 - `-w`: Specify this option when the accumulation of analysis information is to be executed in the background to transactions. For the accumulation of analysis information, this option can be specified if 2 is specified in the `-e` option.
- S**: Terminates processing.

O: Check the database condition analysis utility (pddbst) parameters for any errors.

KFPK10201-W D

No parameter in input area

Nothing is specified in the screen input area.

S: Redisplays the input screen on which the error occurred.

P: Set the appropriate value in the input area and re-execute.

KFPK10202-W D

Length of parameter is too long

The specification in the screen input area exceeds the maximum length.

S: Redisplays the input screen on which the error occurred.

P: Specify the correct value in the input area and re-execute.

KFPK10203-W D

Value of *aa....aa* is not specified

The specification on the screen is invalid. This message is output in either of the following cases:

1. Authorization identifier cannot be identified because a period is specified at the beginning of the table or index identifier
2. Table name or index name cannot be identified because a period is specified at the end of the table or index identifier.
3. An error was found in the specified generation number.

aa....aa: Item specified incorrectly:

authid: Authorization identifier

table name: Table name

index name: Index name

generation number: Generation number

S: Redisplays the input screen on which the error occurred.

O: Specify the correct value in the input area and re-execute.

KFPK10204-W D

Number of RDAREA names exceeds 128

More than 128 RDAREA names are specified.

S: Redisplays the input screen on which the error occurred.

O: Specify the correct values in the input area and re-execute.

KFPK10250-E D+E

User RDAREA inconsistent with dictionary, *aaaaa-bb...bb."cc...cc"*

Table or index subject to analysis was found in the dictionary but not in the user RDAREA. An inconsistency was found between the dictionary table and a user RDAREA or a user LOB RDAREA.

aaaaa: Identifier:

table: Table

index: Index

bb...bb: Authorization identifier

cc...cc: Specified identifier

S: Skips processing of the table or index resulting in the error and resumes processing.

O: Make sure the problem is not one of the types indicated below. If none of these potential causes applies, contact a customer engineer.

- If synchronization was ensured when a master directory RDAREA, a data directory RDAREA, and a data dictionary RDAREA were restored from their backups

In this case, perform restoration by ensuring synchronization. If synchronization was not achieved at the time of backup, unload all databases by using the database reorganization utility, re-initialize the databases, and re-create them.

- If the status file was initialized and HiRDB was restarted without terminating HiRDB normally, or if HiRDB was started using the `pdstart -dbdestroy` command

In this case, re-create the database by re-initializing the database.

- If tables and indexes were deleted during execution of the command

In this case, re-execute the command when table or index definitions are not being modified.

KFPK10251-W E

Unable to get status information, cause cluster index incomplete RDAREA="*aa...aa*"

The system was unable to obtain the correct information because the cluster index specified for analysis has not been created.

aa...aa: RDAREA name

S: Resumes processing.

O: Re-execute the command after creating the cluster index.

KFPK10300-I E

Pddbst started

Execution of the database condition analysis utility has started.

S: Resumes processing.

KFPK10301-I E

Pddbst terminated, return code=*aa....aa*

Execution of the database condition analysis utility is completed.

aa....aa: Return code:

0: Terminated normally

4: Terminated normally, but a warning message was issued. Or, part of the processing might have been skipped.

8: Processing was cancelled due to an error

S: Terminates processing.

O: If the return code is 4 or 8, refer to the warning or error message that is output to standard error or to the message log file, and resolve the error.

KFPK10311-I E

Applied objects nothing

The result of executing the facility for predicting reorganization time is that no resources require maintenance in the specified day range.

S: Continues processing.

KFPK10312-I E

Number of saved data a few, RDAREA *aa....aa*

Due to insufficient data for predicting with the facility for predicting reorganization time, prediction processing was skipped. For details on the amount of data required for predicting, see the section on the facility for predicting reorganization time in the manual *HiRDB Version 8 Command Reference*.

aa....aa: Name of the RDAREA

S: Continues processing.

Action

Execute the condition analysis results depository facility on the RDAREA to be analyzed, and after at least four results have been registered, re-execute.

KFPK10313-I E

No data in SQL_DB_STATE_ANALYZED

None of the data required for predicting using the facility for predicting reorganization

time is in the condition analysis table (SQL_DB_STATE_ANALYZED).

S: Continues processing.

Action

Execute `pddbst` for the RDAREA to be analyzed, and register at least four condition analysis results in the condition analysis table. Then, re-execute.

KFPK10314-I E

aaaaa bb...bb."cc...cc" not found, in dd...dd

During execution of the facility for predicting reorganization time, resources in the RDAREA were deleted.

aaaaa: Resource type in the RDAREA

TABLE: Table

INDEX: Index

bb...bb: Authorization identifier

cc...cc: Table identifier or index identifier

dd...dd: Name of the RDAREA

S: Continues processing.

Action

Register the condition analysis result of the condition analysis results depository facility, and re-execute the facility for predicting reorganization time.

KFPK10315-I E

Unable to predict due to data on same time, RDAREA *aa...aa*

For the following reason, prediction cannot be made from the analysis information table, and so processing of the prediction target RDAREA was skipped.

- Data of the prediction target RDAREA was all collected at the same time (within 1 second).

aa...aa: Name of the RDAREA to be analyzed

S: Continues processing.

Action

Execute the condition analysis results depository facility on the prediction target RDAREA at an appropriate interval (in units of 1 day is recommended), and re-execute the facility for predicting reorganization time.

KFPK10316-I E

Number of saved data a few, RDAREA *aa...aa, bb...bb=cc...cc.dd...dd*

Prediction processing on a table or index in an RDAREA was skipped, because the amount of data necessary for prediction by the facility for predicting reorganization time was insufficient.

aa....aa: RDAREA name

bb....bb: Analysis type

table: Table

index: Index

cc....cc: Authorization identifier

Displays "(Data dictionary)" in the case of a dictionary table or an index in a dictionary table.

dd....dd: Table identifier or index identifier

S: Continues processing.

Action: Execute the facility for accumulating condition analysis results on the RDAREA storing the table or index that is the object of prediction, register four or more pieces of analysis information, and then re-execute the command.

KFPK10400-E D+E

Sort program error -*aa....aa*

An error occurred during sorting.

aa....aa: Cause of the error:

destroyed file, *file_name*: Name of the damaged file

incorrect version: Invalid version

insufficient memory: Insufficient memory

I/O error, *file_name*: Name of file resulting in the I/O error

logical error (*maintenance-code*): Logical error

S:

Message is output to standard error:

Terminates processing.

Message is output to the error message dialog:

Redisplays the screen immediately before the error occurred.

O: Check the cause of the error on the basis of the displayed cause, correct the error, then re-execute. In the case of a logical error, contact a customer engineer.

KFPK10450-E E

Pddbst must be executed at unit defined as manager

The database condition analysis utility must be executed on the unit where the system manager (MGR) is defined.

S: Terminates processing.

O: Re-execute the utility on the unit where the system manager (MGR) is defined.

KFPK10451-E E

Unable to analyze with -e option, *aa....aa*

For one of the following reasons, condition analysis result processing with the -e option specification could not be executed:

- The system definition `pd_rorg_predict` operand is not `Y`.
- The data dictionary RDAREA that stores the analysis information table and the database management table does not exist.
- The replica RDAREA is specified by the `-q` option.

aa....aa: {not predict mode 'Y' | not found datadictionary of dbmanagement | on replica RDAREA}

S: Terminates processing.

Action

When using the facility for predicting reorganization time, take the following actions:

1. Specify `Y` in the system definition `pd_rorg_predict` operand, and restart HiRDB. Then, execute the facility for predicting reorganization time.
2. Use `pdmod` to create the data dictionary RDAREA to store the analysis information table and the database management table, and then execute the facility for predicting reorganization time.
3. Remove the specification of the `-q` option, and execute the facility for predicting reorganization time.

KFPK10999-E D+E

Directory kind=*aa....aa*, file=*bb....bb*, line=*cc....cc*

Outputs information about the directory where an access error occurred.

aa....aa: Directory type

SGMB: Segment-managing directory

bb....bb: Internal information 1 (name of the analyzed file)

cc....cc: Internal information 2 (analyzed row)

S: Terminates processing.

O: Refer to the preceding message, resolve the error, and then re-execute the command.

2.9 KFPL messages

KFPL00700-I E+L

Retry reopen *aa*-time of *bb* after *cc*-minute, host=*dd...dd*,
file=*ee...ee*, reason=*ff...ff*

Multivolume reopen processing will be performed *cc* minutes from now. The maximum retries count is *bb*, and the next retry is number *aa*. The name of the file is *ee...ee*, and its host name is *dd...dd*.

aa: Next retry number

bb: Maximum retries count

cc: Retry interval

dd...dd: Host name

ee...ee: File name

If the length of the file name exceeds 104 characters, the last 104 characters of the file name are output.

ff...ff: Reason for retry:

No-file: File is not set

Same-file: The same file as before is set

S: Resumes processing.

O: Set the next file during retry processing.

KFPL00701-I E+L

File swapping started, file=*aa...aa*, reason=*bb...bb*

Processing has begun on file *aa...aa* on the second or subsequent volume of a multivolume file.

aa...aa: File name

If the length of the file name exceeds 150 characters, the last 150 characters of the file name are output.

bb...bb: Reason code:

ENOSPC: There is no more space on the device

EOV: End-of-volume was detected

S: Resumes processing.

KFPL00702-I L

Pdload started, table=*aa...aa.bb...bb*, *cc...cc*, *dd...dd*

Data loading or file partitioning (creation of the partitioning input data file) has started.

aa....aa: Authorization identifier

bb....bb: Table identifier

cc....cc: Double-byte space conversion level (*spacelvl=space-conversion-level*)

If the space conversion level is specified in the system common definition *pd_space_level* operand or the database load utility *option* statement's *spacelvl* operand, this displays *spacelvl=space-conversion-level*. Further, if space conversion processing is not performed, *spacelvl=space-conversion-level* is not displayed.

dd....dd:

For data loading:

generation=generation-number is displayed. However, this is only valid when the HiRDB Staticizer Option is included.

For file partitioning:

mode=split is displayed.

S: Resumes processing.

KFPL00703-I L

aa....aa rows loaded

aa....aa rows were stored.

aa....aa: Number of rows stored

S: Resumes processing.

KFPL00704-I L+S

Pdload terminated, return code=*aa*

pdload utility processing is completed.

aa: Return code:

For data loading:

0: Data loading terminated normally.

4: Data loading terminated normally; however, a processing-unrelated warning error occurred or an input data error was detected, and some of the data was not stored.

8: Data loading terminated abnormally. Further, this return code is output even with an input data error, when there is a duplicate key error with the *dataerr=rollback* operand specified or the *-i c* option (index batch creation mode) is specified.

For file partitioning (creation of the partitioning input data file):

0: All data in the input data file is output to the partitioning input data file.

4: Normal data in the input data file was output to the partitioning input data file. However, error data was not output to the partitioning input data file.

8: Creation of the partitioning input data file terminated abnormally.

S: Terminates processing.

O:

8 set as the return code:

Refer to the error message that was output to standard error or message log file to eliminate the cause of the error, then re-execute the command. Further, if data loading was executed in no-log mode, and the RDAREA performs a no-log shutdown or a duplicate key error is detected during batch index creation, which leads to incompatibility between the tables and the indexes, return the database to its status before the database load utility (`pdload`) was executed, and then re-execute.

4 set as the return code:

Check for erroneous data by referring to the error information file. If there is any erroneous data, for data loading, re-execute data loading with the corrected data only. For file partitioning, correct the data, and then re-execute the database load utility.

KFPL00705-I L

aa....aa rows processing

Row *aa....aa* is being processed.

aa....aa: Number of rows

S: Resumes processing.

KFPL00707-I E

LOB load started, RDAREA=*aa....aa*

Data loading of LOB data to the LOB RDAREA *aa....aa* has started.

aa....aa: RDAREA name

S: Continues processing.

KFPL00708-I L

LOB load ended, RDAREA=*aa....aa*, return code=*bb*

Data loading of LOB data to the LOB RDAREA *aa....aa* has ended with return code *bb*.

aa....aa: RDAREA name

bb: Return code

0: Data loading of LOB data terminated normally.

8: Data loading of LOB data terminated abnormally.

S: Continues processing if the return code is 0. Terminates processing if the return code is 8.

O: If the return code is 8, refer to the error message output to standard error output, the message log file, or the error information file, and remove the cause of the error. Then, use a LOB intermediate file to re-execute data loading for the LOB RDAREA that had the error or the LOB RDAREA that was not processed.

KFPL00709-I L

aa....aa file was created, file=*bb....bb*

Because specification of an error information file or a LOB intermediate file was omitted, file *bb....bb* was created.

aa....aa: File type

Error information: Error information file

Lobmid: LOB intermediate file

bb....bb: Unique file name generated by the system

If the length of the file name exceeds 150 characters, the last 150 characters of the file name are output.

S: Resumes processing.

KFPL00710-I L

Index information file assigned, index=*aa....aa.bb....bb*,
RDAREA=*cc....cc*, file=*dd....dd*

Index information for index *aa....aa.bb....bb* in RDAREA *cc....cc* was output to *dd....dd*.

aa....aa: Authorization identifier

bb....bb: Index identifier

cc....cc: RDAREA name

dd....dd: File name

If the length of the file name exceeds the value obtained from the following formula, the last number of characters obtained from the formula are output.

$150 - \textit{authorization-identifier-length} - \textit{index-name-length} - \textit{RDAREA-name-length}$

S: Resumes processing.

KFPL00712-I L

aa....aa started, table=*bb....bb.cc....cc*, server=*dd....dd*, spacelvl=*e*,
generation=*ff*

Unload or reload processing has started for table *bb....bb.cc....cc* at server *dd....dd*.

spacelvl=*e* is displayed when a space conversion level is specified in the spacelvl operand of the option statement of the database reorganization utility. spacelvl=*e* is not displayed if no space conversion is performed by the utility.

When the inner replica facility is being used, generation=*ff* is displayed.

aa....aa: Executed processing:

{ LOB reload|LOB unload|Reload|Unload }

bb....bb: Authorization identifier

cc....cc: Table identifier

dd....dd: Server name

e: Space conversion level

ff: Generation number

S: Resumes processing.

KFPL00713-I L

aa....aa rows *bbbbbb*, table=*cc....cc.dd....dd*, server=*ee....ee*

aa....aa rows of table *cc....cc.dd....dd* on server *ee....ee* were unloaded or reloaded.

aa....aa: Number of rows processed

bbbbbb: Executed processing:

{ unloaded|reloaded }

cc....cc: Authorization identifier

dd....dd: Table identifier

ee....ee: Server name

If the -g option is specified with respect to a row-partitioned table, displays the name of the server storing the RDAREA that matches the last partitioning condition in the table definition.

S: Resumes processing.

KFPL00714-I L

aa....aa ended, table=*bb....bb.cc....cc*, server=*dd....dd*, return code=*ee*

Unload processing, reload processing, used free page release processing, or used page read processing has terminated for table *bb....bb.cc....cc* at server *dd....dd*.

aa....aa: Executed processing:

{ Unload|Reload|LOB unload|LOB reload|Reclaim|Page read }

bb....bb: Authorization identifier

cc....cc: Table identifier

dd....dd: Server name

ee: Return code

S: If the return code is 0 or 4, resumes processing; otherwise, terminates processing.

O: If the return code is neither 0 nor 4, refer to the error message that was output to the message log file to eliminate the cause of the error, then re-execute the command.

KFPL00715-I L

Index load started at *aa....aa*, index=*bb....bb*."*cc....cc*", RDAREA=*dd....dd*, generation=*ee*

Index loading has started.

When the inner replica facility is being used, generation=*ee* is displayed.

aa....aa: Server name

bb....bb: Authorization identifier

cc....cc: Index identifier

dd....dd: RDAREA name

ee: Generation number

S: Resumes processing.

KFPL00716-I L

Index load ended at *aa....aa*, index=*bb....bb*, RDAREA=*cc....cc*, return code=*dd*

Index loading terminated with return code *dd*.

aa....aa: Server name

bb....bb: Index identifier

cc....cc: RDAREA name

dd: Return code:

0: Normal termination

8: Abnormal termination

S: Resumes processing.

O: If the processing terminated abnormally, refer to the error message that was

displayed before this message to eliminate the cause of the error.

KFPL00717-I L

Pdrorg started, *func=aaaa*

Database reorganization utility processing *aaaa* has started.

aaaa: Processing:

rorg: Table reorganization

unld: Table unloading

reld: Table reloading

ixmk: Batch index creation

ixrc: Index re-creation

ixor: Index reorganization

rclm: Used free page release processing

bfon: Page read processing

S: Resumes processing.

KFPL00719-I E+L

Pdrorg terminated, *return code=aa*

Database reorganization utility (*pdrorg*) processing has terminated.

aa: Return code:

0: Terminated normally.

4: Terminated normally, but a processing-unrelated warning error occurred.

8: Terminated abnormally.

S: Terminates processing.

O: If the return code is neither 0 nor 4, refer to the error message that was output to standard output or message log file to eliminate the cause of the error, then re-execute the command.

KFPL00720-I L

aaaaa file *bb...bb*, *server=cc...cc*, *file=dd...dd*

An index information file was deleted.

aaaaa: Index

bb...bb: deleted

cc...cc: Server name

dd...dd: File name

If the length of the file name exceeds 150 characters, the last 150 characters of the file name are output.

S: Resumes processing.

KFPL00721-I L

aa....aa in table *bb....bb.cc....cc* deleted, RDAREA=*dd....dd*

Row data or LOB data was deleted from table *bb....bb.cc....cc* in RDAREA *dd....dd*.

aa....aa: Type of data that was deleted:

Data: Row data

LOB data: LOB data

bb....bb: Authorization identifier

cc....cc: Table identifier

dd....dd: RDAREA name

S: Resumes processing.

KFPL00722-I L

Unload file output completely, server=*aa....aa*, file=*bb....bb*

Output to an unload data file has been completed at server *aa....aa*.

aa....aa: Server name

bb....bb: Name of unload data file

If the length of the unload data file name exceeds 150 characters, the last 150 characters of the unload data file name are output.

S: Resumes processing.

KFPL00723-I L

aa....aa rows *bb....bb*, table=*cc....cc.dd....dd*, RDAREA=*ee....ee*

bb....bb processing for *aa....aa* rows was executed for RDAREA *ee....ee* in table *cc....cc.dd....dd*.

aa....aa: Number of rows processed

bb....bb: Processing type

{ loaded|unloaded|reloaded }

cc....cc: Authorization identifier

dd....dd: Table identifier

ee....ee: RDAREA name

S: Resumes processing.

KFPL00724-I L

Index not created, index=*aa...aa.bb...bb*, RDAREA=*cc...cc*

Because index *aa...aa.bb...bb* in RDAREA *cc...cc* is only part of a non-partitioned index, the index is left on uncompleted status.

aa...aa: Authorization identifier

bb...bb: Index identifier

cc...cc: RDAREA name

S: Resumes processing.

O: Create the index using the index information file for the entire index.

KFPL00725-I L

Index *aa...aa* started at *bb...bb*, index=*cc...cc."dd...dd"*, RDAREA="*ee...ee*", source=*ff...ff*, generation=*gg*

Index information unload processing has started.

When the inner replica facility is being used, *generation=gg* is displayed.

aa...aa: unload

bb...bb: Server name

cc...cc: Authorization identifier

dd...dd: Index identifier

ee...ee: RDAREA name

***** is displayed for the RDAREA name in the case of index re-creation by index (*idxname* statement specified) or in the case of index reorganization.

ff...ff: Data to be unloaded:

row: Table data

key: Index key

gg: Generation number

S: Resumes processing.

KFPL00726-I L

Index *aa...aa* ended at *bb...bb*, index=*cc...cc."dd...dd"*, RDAREA="*ee...ee*", return code=*ff...ff*

Index information unload processing is completed.

aa...aa: unload

bb...bb: Server name

cc....cc: Authorization identifier

dd....dd: Index identifier

ee....ee: RDAREA name

***** is displayed for the RDAREA name in the case of index re-creation by index (*idxname* statement specified) or in the case of index reorganization.

ff....ff: Return code (0: normal termination; 8: abnormal termination)

S: Resumes processing.

O: In the case of abnormal termination, check the message that was output before this message, eliminate the cause of the error, then re-execute the command.

KFPL00727-I L

aa....aa keys processed, index=*bb....bb*."*cc....cc*", RDAREA="*dd....dd*"

aa....aa plug-in indexes were batch-created.

aa....aa: Number of records

bb....bb: Authorization identifier

cc....cc: Index identifier

dd....dd: RDAREA name

S: Continues processing.

KFPL00728-I L

Index not reorganized, PLUGIN index *aa....aa*."*bb....bb*"

Plug-in index *aa....aa*."*bb....bb*" is included in the indexes to be reorganized. Because plug-in indexes cannot be reorganized, reorganization processing for the plug-in index was skipped.

aa....aa: Authorization identifier

bb....bb: Index identifier

S: Continues processing.

O: If the plug-in index needs to be re-created, take one of the following actions:

- Reorganize the table for which the plug-in index is defined
- Re-create the plug-in index

KFPL00732-I L

aa....aa started, table=*bb....bb*."*cc....cc*", *spacevl=d*, generation=*ee*

Unload or reload processing for table *bb....bb*."*cc....cc* has started.

spacevl=d is displayed when a space conversion level is specified by the *spacevl* operand of the *option* statement of the database reorganization utility.

2. Messages

space1v1=d is not displayed if no space conversion is performed by the utility.

When the inner replica facility is being used, *generation=ee* is displayed.

aa....aa: Processing that was executed:

{ LOB reload | LOB unload | Reload | Unload }

bb....bb: Authorization identifier

cc....cc: Table identifier

d: Space conversion level

ee: Generation number

S: Resumes processing.

KFPL00733-I L

aa....aa rows *bb....bb*, table=*cc....cc.dd....dd*

Unload or reload processing for *aa....aa* rows has started for table *cc....cc.dd....dd*.

aa....aa: Number of processed rows

bb....bb: Processing type:

unload: Unloading

reload: Reloading

cc....cc: Authorization identifier

dd....dd: Table identifier

S: Resumes processing.

KFPL00734-I L

aa....aa ended, table=*bb....bb.cc....cc*, return code=*dd*

Unload or reload processing for table *bb....bb.cc....cc* has terminated.

aa....aa: Processing type:

Unload: Unloading

Reload: Reloading

LOB unload: LOB data unloading

LOB reload: LOB data reloading

bb....bb: Authorization identifier

cc....cc: Table identifier

dd: Return code

S: Return code 0 or 4: Resumes processing.

Return code other than 0 or 4: Terminates processing.

O: Return code other than 0 or 4:

Refer to the error message that was output to the log file to eliminate the cause of the error, then re-execute the command.

KFPL00735-I L

Unload file output completed, file=*aa....aa*

Output processing of an unload data file terminated.

aa....aa: Unload data file name

If the length of the unload data file name exceeds 150 characters, the last 150 characters of the unload data file name are output.

S: Resumes processing.

KFPL00736-I L

Pdrgorg restarted, at *aa....aa*, table=*bb....bb*. "*cc....cc*" *dd....dd*

The table reorganization process was restarted from *aa....aa*.

aa....aa: Process type

unload: Unload process

delete: Data deletion process

reload: Reload process

ixrc: Index re-create process

status clear: Status clear process

bb....bb: Authorization identifier

cc....cc: Table identifier

dd....dd: ", server=*server-name*" is displayed when the -g option is not specified.

S: Continues processing.

KFPL00738-I L

Pdpgbfon terminated, return code=*aa*

Processing of the global buffer residence utility (pdpgbfon) Terminated with return code *aa*.

aa: Return code

0: Terminated normally (reading into the global buffer completed).

4: A buffer flush occurred (not all pages were read into the global buffer).

8: Terminated abnormally (reading into the global buffer failed).

12: Terminated abnormally (`pdrorg` could not start, or it terminated abnormally).

S: Terminates processing.

O:

If the return code is 4:

If all table and index pages must be read into the global buffer, consider extending the global buffer. If there is an increase in dummy pages due to reduced data storage efficiency, resulting in an increased volume of used pages, consider releasing free pages or reorganizing the database.

If the return code is 8:

Refer to the message that was output before this message, and remove the cause of the error. Then, re-execute.

If the return code is 12:

Execution of `pdrorg` operating as an extension of `pdpgbfon` failed. Refer to the message that is output to standard error, the message log file, or the event log (in UNIX, `syslogfile`), resolve the error that caused abnormal termination of `pdrorg`, and then re-execute the command. For the system function return values to determine the reason for the execution of `pdrorg` failing, see the KFPL22000-E message output immediately before this message.

KFPL00739-I L

`Pdreclaim terminated, return code=aaa`

The free page release utility (`pdreclaim`) process terminated with return code *aaa*.

aaa: Return code:

0: Normal termination (releasing of used free page is complete)

4: A time-out occurred (now releasing a used free page)

8: Abnormal termination (releasing of used free page failed)

Other values: Abnormal termination (`pdrorg` cannot be started or `pdrorg` terminated abnormally).

S: Terminates processing.

O:

- When the return code is 4:

Increase the wait time specified with the `-w` option. Alternatively, wait for the UAP accessing the table in which used free pages are to be released to

terminate, and then re-execute.

- When the return code is 8:

See the message output before this message to eliminate the cause of the error, and then re-execute.

- When the return code is not 0, 4, or 8:

Failed to execute `pdrorg` when extending `pdreclaim`. The value returns to the return value of the system function. Refer to the message that is output to standard error, the message log file, or the event log (in UNIX, `syslogfile`), resolve the error that caused abnormal termination of `pdrorg`, and then re-execute the `pdreclaim` command.

KFPL00740-I S

Error exists in command line, usage is as follows

An error was detected in the specified command. The command's format is output after this message.

S: Terminates processing.

O: Correct the error in the command and re-execute.

KFPL00750-I L

Audit trail *aa...aa* file load started(*b,c,d*), file=*ee...ee*

Data began loading into the audit trail table.

aa...aa: Generation

b: *c* (current) or *s* (other than current)

c: *d* (waiting for data loading) or - (data loading is complete)

d: *h* (currently holding) or - (not currently holding)

ee...ee: Absolute path name of the audit trail file

If the length of the file name exceeds 150 characters, the last 150 characters of the file name are output.

S: Continues processing.

KFPL00751-I L

Audit trail *aa...aa* file loaded, file=*bb...bb*

Data has been loaded into the audit trail table.

aa...aa: Generation

bb...bb: Absolute path name of the audit trail file

If the length of the file name exceeds 150 characters, the last 150 characters of the file name are output.

S: Continues processing.

KFPL00800-I E+L

Loading until *aa....aath* row committed

The loading transaction was completed up to the *aa....aath* row.

aa....aa: Number of rows from the beginning of the input data file or unload file (number of rows from the beginning is also displayed in the case of re-execution)

S: Continues processing.

KFPL00810-I E+L

aa....aa restart at *bb....bbth* row

The utility's processing was restarted at the *bb....bbth* row.

aa....aa: Utility:

pdload: Database load utility

pdrorg: Database reorganization utility

bb....bb: Number of rows from the beginning of the input data file or unload file

S: Continues processing.

KFPL00900-I L

Error detail, *aa....aa*

This is error detail information.

aa....aa: Internal error information

S: The higher system that received the message handles it.

KFPL10000-E L

Command option '-i s' cannot be specified in this case

For processing tables defined with non-partitioned key indexes processed in units of RDAREAs, -i s (index update mode) cannot be specified as the index creation method.

S: Continues processing.

O: Change the index creation method to -i n (index information output mode) and re-execute the command.

KFPL10001-E L

Command option '-r' cannot be used when partitioning condition altered

Processing in units of RDAREAs cannot be specified for unload data file consolidation (-g option specified) because the partitioning condition for a table in the unload data file differs from the partitioning condition of the table to be reloaded.

S: Terminates processing.

Action

To change the table partitioning condition, restore the previous partitioning condition and make a backup of the table. Specify the `-g` option and unload the file in table units.

After changing the table partitioning condition, specify the `-g` option and reload the file in table units.

KFPL10002-E E+L

Command option "*aa....aa*" cannot be specified in this case

If *aa....aa* is `-w`:

- When the `lobunload` statement (for unloading LOB data) is specified in the control information file, the `-w` option cannot be specified.
- When the `unload` statement (`uoc`) is specified in the control information file, the `-w` option cannot be specified.
- The `-w` option cannot be specified for a table containing abstract data type columns.

If *aa....aa* is `-k unload`:

- Unload processing cannot be executed for a table for which a LOB column has been defined, except in the following cases:
 - For unloading data by specifying the `-w` option
 - Both the LOB column structure base table and the LOB data are unloaded at the same time with the `-j` option specified
- The falsification prevented table cannot perform unload processes for which the `-w` option is not specified.

If *aa....aa* is `-g`:

The `-g` option cannot be specified for the processing of a LOB column structure base table relative to a hash-partitioned table in which a LOB column is defined.

If *aa....aa* is `-j`:

When the `-j` option is specified, the `-w` option cannot also be specified.

If *aa....aa* is `-k c, -f`:

These options cannot be specified for a table that includes an abstract data type.

If *aa....aa* is `-b`:

If `-k f` (default) or `-k c` is specified, a binary-format input data file cannot be used for a table containing a column of abstract data type for which BLOB is an

input parameter.

If *aa...aa* is `-i n`, `-i x`:

These options cannot be specified for a table for which a plug-in index is defined.

If *aa...aa* is `-c`:

The `-c` and `-w` options cannot both be specified for a `FIX` table.

If *aa...aa* is `-t`:

Reloading by schema cannot be executed for an unload data file created by means of unloading by table. Also, if a `tblname` statement is specified by table, reloading by schema cannot be executed.

If *aa...aa* is `-k`:

When using UOC, only `rorg` or `unld` can be specified with the `-k` option.

If *aa...aa* is `-c dic`:

When using UOC, `-c dic` (specified for a dictionary table) cannot be specified.

S: Terminates processing.

O: Take one of the following actions:

If *aa...aa* is `-w`:

- For the unloading operation, either specify the `unload` statement or delete the `lobunld` statement.
- To create an unload data file with `pdrorg` while using a UOC, specify the unload data file in the `unload` statement. To create an unload data file using a UOC, delete the `-w` option.
- If data loading is being performed, delete the `-w` option.

If *aa...aa* is `-k unld`:

When reorganizing a table, specify `-k rorg`. For unloading, specify the `-w` option.

If *aa...aa* is `-g`:

Delete the `-g` option.

If *aa...aa* is `-j`:

When unloading both LOB column structure base table data and LOB data simultaneously, delete the `-w` option. When unloading row data only, delete the `-j` option.

If *aa...aa* is `-kc`, `-f`:

When specifying a table containing an abstract data type, delete the `-k c`, `-f` option.

aa....aa is `-b`:

Specify the `-k v` option.

If *aa....aa* is `-i n`, `-i x`:

When specifying a table for which a plug-in index is defined, delete the `-i n`, `-i x` option.

If *aa....aa* is `-c`:

Correct the contents of the column structure information file by specifying the `-a` and `-w` options for a `FIX` table.

If *aa....aa* is `-t`:

Correct the `-t` option specification.

If *aa....aa* is `-k`:

When using a UOC, specify `rorg` or `unld` with the `-k` option. Also, when not using UOC, delete the `unlduoc` statement.

If *aa....aa* is `-c dic`:

When using a UOC, no process can be performed on the dictionary table. To process the table the user defined, specify `-c user`. Also, when not using UOC, delete the `unlduoc` statement.

KFPL10003-E E+L

Unable to specified command option '*aa....aa*' when *bb....bb*

If *bb....bb* is `ADT column` defined:

The *aa....aa* option cannot be specified because the abstract data type is defined.

If *bb....bb* is `unload_row(uoc)`:

The *aa....aa* option cannot be specified because (`uoc`) is specified in the `unload` statement.

If *bb....bb* is `INSERT ONLY` table:

The *aa....aa* option cannot be specified in the falsification prevented table.

If *bb....bb* is `ORG status`:

The *aa....aa* option cannot be specified because the `RDAREA` that stores the table is in online reorganization hold.

aa....aa: `{-w|-j|-k rorg|-f|-d}`

bb....bb: `{ADT column defined|unload_row(uoc)|INSERT ONLY table|ORG`

status}

S: Terminates processing.

O:

If *bb...bb* is ADT column defined:

With the *-w* option, the data to be input from the indicated table to the Database Load Utility (pdload) cannot be created by the Database Reorganization Utility (pdrorg). Therefore, use a UAP to create the data.

With the *-j* option, delete the *-j* option and re-execute.

If *bb...bb* is unload_row(uoc):

-w: Delete the *-w* option and execute.

-k rorg: Change to *-k unld* and execute.

-f: Delete the *-f* option and execute.

If *bb...bb* is INSERT ONLY table:

Delete the *aa....aa* option and execute.

If *bb...bb* is ORG status:

Execute after releasing online reorganization hold or after deleting the *aa....aa* option.

KFPL10004-E E+L

Unable to specified *aa....aa* in Control file when *bb...bb*

If *bb...bb* is ADT column defined:

aa....aa cannot be specified because an abstract data type is defined.

If *bb...bb* is INSERT ONLY table:

aa....aa cannot be specified because the table is a falsification prevented table.

If *bb...bb* is invalid condition:

aa....aa cannot be specified because the specification conditions are different.

If *bb...bb* is Not divided table:

For non-partitioned tables, the *src_work* control statement cannot be specified.

If *aa....aa*: Control statement information

{tblname|unlduoc option job|option_row(diverskip)|src_work}

If *bb...bb*: Reason information

{ADT column defined|INSERT ONLY table|invalid condition|Not

divided table}

S: Terminates processing.

O:

If *bb...bb* is ADT column defined:

Data cannot be transferred to the indicated table. To transfer data to the indicated table, use a UAP to create data from the source table and then move it to the indicated table.

If *bb...bb* is INSERT ONLY table:

To port a falsification prevented table, specify the `-w` option, unload the table, and then use the database load utility (`pdload`) To port the table. Alternatively, if the *aa....aa* option cannot be specified for a falsification prevented table, delete the *aa....aa* option and re-execute.

If *bb...bb* is invalid condition:

option `diverskip=on` cannot be specified in the control statement. Remove it, and re-execute, or ensure a condition that can be specified.

If *bb...bb* is Not divided table:

Creation of the partitioning input data file can be executed for a partitioning table. Check whether the table specified on the command line is a partitioning table.

KFPL10005-E L

Unable to execute *aa....aa* command by each RDAREA, RDAREA="*bb...bb*"

Data reloading by RDAREA or reorganization by RDAREA cannot be executed for the following reason:

- Although an added RDAREA is the processing target, the rebalancing utility has not been executed on that RDAREA.

aa....aa: Utility:

`pdload`: Database load utility

`pdrorg`: Database reorganization utility

bb...bb: RDAREA name

S: Terminates processing.

O: Take one of the following actions:

- After execution of the rebalancing utility, execute data reloading by RDAREA or reorganization by RDAREA
- Execute data loading by table or reorganization by table

KFPL10006-E L

Unable to execute *aa...aa* command, Table status=*bb...bb*, RDAREA=*cc...cc*, table=*dd...dd*. "*ee...ee*"

When *bb...bb* is DATA_UNFINISH:

The following utilities cannot be executed because the table is in reload-not-completed data status:

- pdload
- pdrorg -k {rorg|ixmk|ixrc|ixor}
- pdrbal

When *bb...bb* is completed:

The following utility cannot be executed because table reloading is complete (the table is not in reload-not-completed data status):

- pdrorg -k reld

aa...aa: Utility name

pdload: Database load utility

pdrorg: Database reorganization utility

pdrbal: Rebalancing utility

bb...bb: Table status

DATA_UNFINISH: Reload-not-completed data status

completed: Reload is complete

cc...cc: RDAREA name

dd...dd: Authorization identifier

ee...ee: Table identifier

S: Terminates processing.

Action

When *bb...bb* is DATA_UNFINISH:

Use the database reorganization utility to reorganize the table, and then re-execute.

bb...bb is completed:

You cannot reregister a row in the applicable table or RDAREA.

KFPL10007-E L

Unable to execute *aa....aa* command on ORG status, RDAREA="*bb....bb*", reason=*cc....cc*

When the RDAREA is in online reorganization hold status, *aa....aa* could not be executed for reason *cc....cc*.

aa....aa: Utility name

pdload: Database load utility

pdroorg: Database reorganization utility

pdreclaim: Free page release utility

bb....bb: RDAREA name

cc....cc: Reason

BLOB COLUMN defined: A BLOB column was defined.

INSERT ONLY table: A falsification prevented table.

replica RDAREA: The RDAREA is a replica RDAREA.

current RDAREA: The RDAREA is the current RDAREA.

S: Terminates processing.

Action

After releasing online reorganization shutdown, re-execute.

KFPL11111-E L

Time over, no response from utility server, time=(*aa....aa*, *bb....bb*)

Because the process did not terminate within the utility run monitoring time specified in the *pd_utl_exec_time* operand of the system definition or the *option* statement in the utility, a no-response failure was judged to have occurred.

aa....aa: The value set as the utility run monitoring time (in seconds)

bb....bb: The response wait time for a time-out to occur (in seconds)

S: Abnormally terminates.

O: If the value *aa....aa* set as the processing time for the utility is not appropriate, change the specified value of the *exectime* operand in the *option* statement in the utility (after recovering from an error such as logless shutdown), and then re-execute. If the specified value is appropriate, after recovering from an error such as logless shutdown, re-execute the utility. If a similar error recurs even after re-executing the utility, contact the HiRDB administrator.

Action

If a timeout occurred even though value *aa....aa* set as the processing time for the

utility is appropriate, a no-response error may have occurred. Back up the files in the %PDDIR%\spool\save directory and the %PDDIR%\tmp*command-name* *YYYYMMDDHHMMSS process-ID*.txt file as investigation data and contact a customer engineer.

KFPL11724-E E+L

PLUGIN environment definition error, code=*aaa*

The environment variable is incorrectly specified.

aaa: Error reason code

-30: The storage area for the environment variable is invalid.

-90: The specification value for the environment variable is greater than the maximum length that can be specified.

S: Terminates processing.

O: If the reason code is -90, correct the environment variable specification and re-execute the command.

Action

If the reason code is -30, contact a customer engineer.

KFPL13002-E E

Row length too long

A value specified in the table definition exceeds the row length that can be processed by a utility.

S: Terminates processing.

O: Consider revising the table definition as follows:

- Reduce the number of elements in a repetition column
- Reduce the column definition length

KFPL15007-E L

Dynamic load error occurred, shared library=*aa...aa*

An error occurred during dynamic loading of a shared library required for processing.

aa...aa: Absolute pathname of shared library

S: Terminates processing.

O: Refer to the preceding KFPL22000-E message.

UNIX version:

Resolve the error as follows, and then re-execute the command:

1. If using EasyMT, check its installation for an error.

2. If not using EasyMT, check the control information file and delete the information about the usage of EasyMT.

Windows version:

Review the control information file.

KFPL15010-E E+L

Invalid environment for *aa....aa*, reason=*bb...bb*

The environment required to execute utility *aa....aa* is invalid.

aa....aa: Name of utility

bb...bb: Reason code:

`No-tty`: There is no terminal in the execution environment.

S: Terminates processing.

O: Eliminate the cause of the error on the basis of the displayed reason code and re-execute:

`No-tty`: Specify the identifier and password in the PDUSER environment variable and re-execute without specifying `-u` in the command line.

KFPL15027-E E

Unable to execute `pdload` command without *aa....aa* privilege

Because the user does not have privilege *aa....aa* for the table that was to be subject to data loading, the `pdload` utility could not be executed.

aa....aa: Privilege:

- `insert`: INSERT privilege
- `delete`: DELETE privilege
- `audit`: Audit privilege

S: Terminates processing.

O: After being granted the privilege required during data loading, re-execute the command. When the target table for data loading is the audit trail table, the auditor must execute the command.

KFPL15029-E E

Table *aa....aa.bb...bb* not found in system

The table specified on the command line was not found.

When `*all*` is displayed for *bb...bb*, the specified schema has no tables. Or, the tables in the schema were deleted during execution of the utility.

aa....aa: Authorization identifier

bb...bb: Table identifier

S: Terminates processing.

O: Correct the authorization identifier or table identifier specified on the command line and re-execute the command. Also, do not delete the tables during execution of the utility.

KFPL15030-E L

Table definition altered (*aa...aa/bb...bb*)

Definition of a table subject to processing was modified during utility execution.

aa...aa: Internal information

bb...bb: Internal information

S: Terminates processing.

O: Do not modify the tables during execution of the utility; check the table definition and re-execute.

KFPL15031-E E

Unable to specify *aa...aa* table

A view or foreign table cannot be specified as a table to be processed by the utility.

aa...aa: Table type

viewed: View table

foreign: Foreign table

S: Terminates processing.

O: Change the table name specified on the command line to a base table name and re-execute the command.

KFPL15032-E E

Specified constraint *aa...aa."**bb...bb**"* not found

The specified constraint name is not defined in HiRDB.

aa...aa: Authorization identifier

bb...bb: Constraint name

S: Terminates processing.

P: Revise the constraint name, and then re-execute the command.

KFPL15034-E E

Specified RDAREA *aa...aa* not found

Specified RDAREA does not contain a table or index to be processed.

aa...aa: RDAREA name

S: Terminates processing.

O: Correct the RDAREA name and re-execute the command.

KFPL15035-E E

Only one RDAREA name can be specified

An attempt was made to execute the database load utility (pdload) by specifying multiple RDAREA names, but the corresponding table was not partitioned by values.

S: Terminates processing.

O: Delete the incorrect information from the control information file and re-execute the command.

KFPL15036-E E+L

Specified RDAREA ID not found, ID=*aa....aa*

The applicable utility (the RDAREA may have been deleted by mistake) cannot be executed because the RDAREA with the RDAREA ID *aa....aa* was not found.

aa....aa: RDAREA ID (real RDAREA ID)

S: Terminates processing.

O: If the user inadvertently deleted the RDAREA while the utility was executing, create the deleted RDAREA and re-execute the utility. Alternatively, specify the generation number of the RDAREA to be processed and re-execute the utility.

KFPL15037-E L

Changed *aa....aa*, RDAREA "*bb....bb*"

When *aa....aa* is current generation:

If the utility was executing without the generation (-q option) specified, the generation of RDAREA "*bb....bb*" was changed from the current generation.

When *aa....aa* is inner replica status:

If the utility was executing with the generation (-q option) specified, the replica status of RDAREA "*bb....bb*" was changed.

aa....aa:

current generation: Current generation

inner replica status: Replica status

bb....bb RDAREA name

S: Terminates processing.

O:

- When *aa....aa* is current generation:

When executing the utility without specifying the generation, do not change the current generation of the RDAREA storing the table that is being executed.

When re-executing the utility without specifying the generation, return the generation of RDAREA *aa....aa* to the generation from when the utility was executed previously.

- When *aa....aa* is inner replica status:

When executing the utility while specifying the generation, do not change the inner replica status of the RDAREA being executed.

KFPL15040-E E+L

Insufficient memory on PROCESS

A work area shortage occurred.

S: Terminates processing.

O: Check whether there are other processes that use a large amount of memory.

There are processes that use a large amount of memory:

Wait for the associated processes to terminate, then re-execute the command.

There are no processes that use a large amount of memory:

Use one of the following methods to ensure that there is sufficient memory:

- Reduce the number of simultaneously executing processes.
- Increase the size of the swap area.
- Increase the amount of memory.

Note

If this message is displayed during the execution of a plug-in-supplied command, the message is output only to the indicated output device type (L).

KFPL15046-E E+L

aaaaaa error occurred, file=*bb....bb*

A file I/O error occurred.

aaaaaa: Processing resulting in the error:

{ Open|Read|Write|Close|Reopen }

bb....bb: File name

S: Terminates processing (in the case of the `close` error, the system may resume processing).

O: Refer to the message that is output after this message to eliminate the cause of the

error, then re-execute the command.

KFPL15047-E E+L

File I/O error occurred, reason=*aa...aa*, func=*bb...bb*, errno=*cc...cc*,
(*dd...dd*)

A file I/O error occurred.

aa...aa: Reason for the error:

Date-check:

The creation date of the mounted tape is earlier than the date specified in the `validate` operand.

Empty-file:

The specified file is empty (0 bytes).

File-format:

The specified format and the actual file format are different. It is possible that the specified file name is invalid, or the file format specified on the command line or in the control statement does not match the contents. Further, for a DAT format input file, if the length of a single row of data exceeds 32 kilobytes, the `maxreclen` operand must be specified in the `source` control statement.

File-lock:

The file is being used by another user. The file name specified in the command line or control statement might be in use by another job. In UNIX, there might be a shortage of file locking resources for an OS kernel parameter.

File-sequence:

The multi-volume file sequence was incorrect.

Invalid-device:

The entry type (attribute) of the specified file is invalid. Or, when `MTguide` is being used, `MTguide` has not been started. If the system can identify the entry type, it displays one alphabetic character enclosed in parentheses; this character is the same as the entry in the mode output by the OS's `ls -l` command. It is possible that a directory name was specified in a location that requires a file name (or vice versa), or that a character special file was assigned to a file where a character special file cannot be used.

Invalid-environment:

Because the set value 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 satisfies the prerequisite conditions of the HiRDB system or related program products.

Invalid-parameter:

The combination of specified parameters is invalid.

Invalid-path:

The path name is invalid.

Invalid-permission:

The specified file version is invalid (access privilege error). It is possible that a file is being used for which an access privilege has not been granted by an HiRDB administrator, or for MT, the write protect may be enabled.

No-data:

The data for the number of data items stored at the synchronization point was not found in the specified file.

No-file:

File to be read was not found or file into which data was to be written has been deleted.

No-space:

There is not enough space in the file to which data is to be written.

- UNIX version:

If this error occurs when there is sufficient disk space, it is possible that either the HiRDB file system area is not defined as a large file, or an operating system kernel parameter restriction applies. For details about OS kernel parameter limitations, see the section on estimating operating system parameters in the manual *HiRDB Version 8 Installation and Design Guide*.

- Windows version:

If this error occurs when there is sufficient disk space, it is possible that the HiRDB file system area is not defined as a large file (2048 MB or greater) in the `pd_large_file_use` operand.

No swap-file:

There is no unload data file for multivolume (check the file size or specify a multivolume file). If this error occurs during read processing, it is possible that a file is used for which write processing (unloading processing, etc.) did not terminate normally.

Same-file:

The file processed immediately before was specified as a multivolume file. Or, an attempt was made to overwrite a previous volume during multivolume write processing.

Unmatch-entry:

An entry in the file header does not match the information in the control information file (the system displays the inconsistent entry name in parentheses).

bb...bb: Name of the system function in which the error occurred

- If the operating system detected the error: The system function name
- If the HiRDB file system detected the error: The name of the HiRDB system function name beginning with `p_f_ios`
- If other than the above: ***

cc...cc: Error code

- If the operating system detected the error, this is the error number (`errno`: the foreign reference variable that displays the error status) returned by the system function.
- If the error is detected by the HiRDB file system, this is the HiRDB file system error code. For details on error codes, see *5.1 Error codes returned from HiRDB file system access requests*. The primary error causes and measures to consider are listed below:
 - 1511: It is possible that the specified file path name violates the file name rules of the HiRDB file system. Area names have a maximum of 117 characters, and file names have a maximum of 30 characters.
 - 1532: It is possible that the specified file path name is invalid. Correct the file path name. Further, specify only the HiRDB file system name; if it is not specified up to the file name, specify it up to the file name.
 - 1534: It is possible that the specified file name is the same as a file name in use by another job. Change the file name.
 - 1535: There is insufficient volume. Further, if the insufficient volume appears immediately after the beginning of processing, consider that the value specified for the file size on the command line or in a control statement may exceed the HiRDB file system restriction. Use the `pdfmkfs` command to create a large HiRDB file system, or revise the initial volume and incremental volume specified on the command line or in the control statement.
 - 1538: The `pdfmkfs` command specifies a file that has not been initialized. Have the `pdfmkfs` command use an initialized file.

-1540: There is no access privilege to the HiRDB file system name. Have the HiRDB administrator grant an access privilege.

-1562: There is no HiRDB file system initialized by the `pdfmkfs -k UTL` command. Use the `pdfmkfs` command with `UTL` specified in the `-k` option to specify an initialized file.

- If an error cause other than the above: 0.

dd...dd: Troubleshooting information (source file name and number that detected the error). This information is used by the customer engineer.

S: Terminates processing.

O: From the error reason, function name, and error code, refer to `errno.h`, the manual for the operating system in use, and *5.1 Error codes returned from HiRDB file system access requests* to remove the cause of the error, and re-execute.

KFPL15048-E E+L

File operation was canceled by *aa...aa*

Multi-volume file exchange was cancelled.

aa...aa: Cause of cancellation:

system: Cancelled by the system.

user: Cancelled by the user.

S: Terminates processing.

O: Re-execute the processing, if necessary.

KFPL15049-I L+S

MT was created at *aa...aa*

The MT creation date specified in the input data file is *YYYY-MM-DD*.

aa...aa: Creation date specified in the mounted MT label (in the format *YYYY-MM-DD*)

Format: *YYYY-MM-DD*

YYYY: Year

MM: Month

DD: Date

S: Cancels processing if the file was created prior to the date or number of days specified in the `validate` operand of the control information file; continues processing if the file was created after the date or number of days specified in the operand.

O: If processing is cancelled, mount the MT with the correct creation date and

re-execute.

KFPL15050-E L

EasyMT error occurred, func=*aa....aa*, reason=*bb...bb*

File I/O processing using EasyMT resulted in an error.

aa....aa: Name of function resulting in the error

bb...bb: Error detail information

S: Terminates processing.

O: Based on the error detail information, check the documentation for JPI/Magnetic Tape Access or EasyMT, eliminate the cause of the error, and then re-execute.

KFPL15052-E L

Invalid *aa....aa* statement *bb....bb* entry in Control file, value=*cc....cc*, reason=*dd....dd*

Value *cc....cc* specified for entry *bb....bb* of control statement *aa....aa* in the control information file is invalid.

aa....aa: Control statement type

bb....bb: Entry name

cc....cc: Specified value

dd....dd: Reason code:

Invalid-device: File format is invalid.

Invalid-permission: File permission is invalid.

No-directory: There is no directory.

Pathname-length: The length of the file path name is invalid.

For items omitted from the control information file, the default values are displayed.

S: Terminates processing.

O: Check the corresponding item in the control information file, eliminate the cause of the error, then re-execute.

KFPL15059-E L

aa....aa directory not found

The name specified for an index information file is not a directory.

aa....aa: Directory name specified in the control information file

S: Terminates processing.

O: Correct the directory name in the control information file and re-execute the

command.

KFPL15060-E L

Invalid file for index information file, file=*aa...aa*,
reason=*bb...bb*

File *aa...aa* specified as an index information file is invalid.

aa...aa: Specified file name

If the length of the file name exceeds 134 characters, the last 134 characters of the file name are output.

bb...bb: Reason code:

Duplicated-entry:

When multiple files were specified, the same file was specified more than once.

Invalid-device:

File format is invalid.

Invalid-header:

Header ID is missing.

Invalid-permission:

Specified file permission is invalid.

Invalid-record-length:

When multiple files were specified, some of the files have different record lengths.

No-file:

Specified file was not found.

No-header:

Header is missing.

S: Terminates processing.

O: Refer to the specified index information file and the reason code to eliminate the cause of the error, then re-execute.

KFPL15061-E L

Incomplete record found in index information file, file=*aa...aa*,
reason=*bb...bb*

Index information file *aa...aa* contains an invalid record.

aa...aa: Specified file name

If the length of the file name exceeds 118 characters, the last 118 characters of the file name are output.

bb...bb: Reason code:

Tally-length:

Total length of fixed-length records is not a multiple of the record length.

Variable-record:

The length of the data part of a variable-length record is invalid.

S: Terminates processing.

O: Because the index information file is damaged, re-create the index and re-execute.

KFPL15062-E E+L

aa...aa error occurred, func=*bb...bb*, rc=*cc...cc*

An error occurred in one of the following processing operations:

- Sort processing
- Magnetic tape I/O processing

aa...aa: Processing that generated the error

- SORT: Sort processing
- EasyMT: Magnetic tape I/O processing

bb...bb: Name of function resulting in the error

cc...cc: Return code set by the function resulting in the error

S: Terminates processing.

O: Take the following action:

- If *aa...aa* is SORT:

Refer to *7. Messages Related to Sort Processing*, and take corrective action.

Messages related to sort processing are output in the format `KBL$nnn-E`, where *nnn* denotes the absolute value of the return code that is output to *cc...cc*.

The table below summarizes frequently output return codes and the required corrective action:

Return code	Action
-202	Memory shortage. Reduce the work buffer size specified in the <code>sort</code> operand.
-290	Work buffer shortage. Increase the work buffer size specified in the <code>sort</code> operand.

Return code	Action
-210, -230	An I/O error occurred. It is possible that the disk space for sort processing is insufficient. If insufficient disk space is the cause of the error, specify a disk with sufficient space in the <code>sort</code> operand, and then re-execute the processing.

If the error cannot be resolved, acquire the `sortdump`, `SORTIODUMP`, and `SORTDMP2` that are output to `C:\windows` (in UNIX, `/tmp` or `/usr/tmp`), and contact a customer engineer.

- If `aa....aa` is EasyMT:
Contact a customer engineer.

KFPL15063-E L

`aa....aa` failed, `index=bb....bb`, `authid=cc....cc`, `file=dd....dd`,
`RDAREA=ee....ee`

An error occurred during processing `aa....aa`.

`aa....aa`: Processing:

Check-status: Checking the index status

Commit: Terminating index creation

Load-index: Creating an index

Preparation: Preparing for processing

Purge-index: Deleting an index

Unfinish-index: Processing the incomplete index status

`bb....bb`: Index identifier

`cc....cc`: Authorization identifier

`dd....dd`: File name

If the length of the file name exceeds 52 characters, the last 52 characters of the file name are output.

`ee....ee`: RDAREA name (if the RDAREA name cannot be identified, `**....**` is displayed)

S: Terminates processing.

O: Refer to the message that was output before this message to eliminate the cause of the error, and re-execute.

KFPL15064-E L

Specified index record `file=aa....aa` conflicted with command line specification, `reason=bb....bb`

Specification on command line is in conflict with index information file *aa....aa* due to *bb....bb* reason.

aa....aa: File name

If the length of the file name exceeds 95 characters, the last 95 characters of the file name are output.

bb....bb: Reason code:

Invalid-table: Authorization identifier or table identifier is invalid.

S: Terminates processing.

O: Check the specification of the authorization identifier or table identifier on the command line and in the index information file to eliminate the cause of the error, then re-execute.

KFPL15065-E L

Index *aa....aa* on table *bb....bb.cc....cc* not found in server=*dd....dd*

Index *aa....aa* of table *bb....bb.cc....cc* was not found on server *dd....dd*.

aa....aa: Index name

bb....bb: Authorization identifier

cc....cc: Table identifier

dd....dd: Server name

S: Terminates processing

O: Correct the server name specified in the control statement or command line, and then re-execute.

KFPL15066-E L

Index record in *aa....aa* not available for *bb....bb.cc....cc*, reason=*dd....dd* (system=*ee....ee*, file=*ff....ff*)

Index information file *aa....aa* is not the most recent file for index *bb....bb.cc....cc*.

aa....aa: File name

If the length of the file name exceeds the value obtained from the following formula, the last number of characters obtained from the formula are output.

Where the reason code is Table-division:

$100 - \textit{authorization-identifier-length} - \textit{index-identifier-length}$

Where the reason code is Unload-time:

$97 - \textit{authorization-identifier-length} - \textit{index-identifier-length}$

bb....bb: Authorization identifier

cc....cc: Index identifier

dd....dd: Reason code:

Table-division:

The number of partitions does not match the actual table partitions.

Unload-time:

The date the index information file was created does not match. *ee....ee* displays the date the most recent index information file was created (when `-i c` or `n` was specified) or the date the index was invalidated (when `-i x` was specified). *ff....ff* displays the date the specified index information file was created. Both dates are displayed in the format `%Y-%m-%d %H:%M:%S`. If reload processing has already been completed, `loaded` is displayed.

ee....ee: Value in the HiRDB system

ff....ff: Value in index information file

S: Terminates processing.

O: Re-execute specifying the most recent information file, or re-create the index.

KFPL15067-E L

Unmatched number of index record file(s)=*aa....aa*, table division=*bb....bb* at server=*cc....cc*, index=*dd....dd*

The number of index information files specified in the `index` statements of the control information file does not match the number of table partitions in the server.

aa....aa: Number of index statements specified in the control information file

bb....bb: Number of table partitions in the server

cc....cc: Server identifier

dd....dd: Index name

S: Terminates processing.

O: Specify as many `index` statements in the control information file as there are table partitions in the server, then re-execute.

KFPL15068-E L

Specified index record file=*aa....aa* conflicted with Control file specification, reason=*bb....bb*

Information in the control information file contradicts the information in index information file *aa....aa* in terms of *bb....bb*.

aa....aa: File name

If the length of the file name exceeds 113 characters, the last 113 characters of the

file name are output.

bb...bb: Reason code:

Unload-condition:

The user specified the file into which the non-partitioning index of a partitioned table was unloaded in units of RDAREAs using the control information file, but the file contains the index information file unloaded in units of tables

Invalid-index:

Index name is different.

Invalid-RDAREA:

RDAREA name is different.

Invalid-RDAREA-id:

RDAREA identification number is different.

S: Terminates processing.

O: Check the index information file specified in the `index` statement of the control information file, eliminate the cause of the error, then re-execute.

KFPL15069-E L

Unmatched index records, files=*aa....aa,bb...bb*

Index information in index information file *aa....aa* is different from that in index information file *bb...bb*.

aa....aa: Name of index information file

bb...bb: Name of index information file

If the length of the file name exceeds 85 characters, the last 85 characters of the file name are output.

S: Terminates processing.

O: Correct the control information file and re-execute.

KFPL15070-E L

aa....aa failed, status=*bb*

An error occurred during the *aa....aa* processing.

aa....aa: Processing:

Check-Status: Index status checking

bb: Status:

1: After the index information file had been created, the table was modified by one of the following means, so the index information file's contents no longer match the table's contents, making the index information file unusable:

- By execution of `pdload` or `pdrorg` by RDAREA
- By reinitialization of an RDAREA storing the index's table (execution of `pdmod`)

3 or 4: An index has been created.

S: Terminates processing.

O:

- When the status is 1:
Create an index based on the index information file created with `pdload` or `pdrorg`; or, use `pdrorg (-k ixrc)` To re-create the index.
- When the status is 3 or 4:
Check that the correct index was created.

KFPL15071-E L

Unmatched generation number between number "*aa*" of *bb...bb* "*cc...cc*" and number "*dd*" of command line

Generation number "*aa*" of *bb...bb* and generation number "*dd*" of the `-q` option (the current generation number when the `-q` option is not specified) do not match.

aa: Generation number of *bb...bb*

bb...bb: File type

`index-record-file`: Index information file

`Lobmid-file`: LOB middle file

`unload-file`: Unload data file

cc...cc: The file name of *bb...bb*

dd: The generation number specified by the `-q` option (the current generation number if the `-q` option is not specified)

S: Terminates processing.

O:

- If "*dd*" is correct:
Specify *bb...bb* created by the generation number specified by the `-q` option in the control statement, and then re-execute.
- If "*dd*" is incorrect:

Specify in the `-q` option the generation number that created `bb...bb`, and then re-execute.

KFPL15101-E E

Specified column `aa...aa` not found

Column name specified in the column structure information file is not found in the names of columns comprising the table.

`aa...aa`: Column name

S: Terminates processing.

O: Correct the column name in the column structure information file and re-execute the command. Note that neither unneeded tabs nor spaces can be specified in the column structure information file. Accordingly, do not use any unneeded tabs or spaces when specifying the column name.

KFPL15102-E E

Column `aa...aa` is duplicated

A duplicated column name was specified in the column structure information file.

`aa...aa`: Column name

S: Terminates processing.

O: Delete the duplicate column name from the column structure information file and re-execute the command.

KFPL15199-E L

Logical inconsistency occurred in `aa...aa`, `data=bb...bb`

Logical inconsistency was detected in a program.

`aa...aa`: Name of function

`bb...bb`: Invalid data

S: Terminates processing.

O: Contact the HiRDB administrator.

Action

Contact a customer engineer.

KFPL15224-E L

Insert error occurred at `aa...aa`TH row, `table=bb...bb.cc...cc`

An error occurred during reloading of row `aa...aa`.

`aa...aa`: Row number

`bb...bb`: Authorization identifier

2. Messages

cc....cc: Table identifier

S: Terminates processing.

O: Refer to the message output to the log file before this message to check the cause of the error, and re-execute the command.

KFPL15225-E L

Rollback called

Processing was rolled back for the reason indicated in the message log file before this message.

S:

n specified in the *-l* option:

Terminates abnormally (the database remains on error status)

a or *p* specified in the *-l* option:

Terminates processing

O: Eliminate the cause of the rollback by checking the message log file that was output before this message. If *n* was specified in the *-l* option, use the backup copy to recover the database to the status it was in before the utility executed.

KFPL15226-E L

aa....aa request failed, table=*bb....bb.cc....cc*, server=*dd....dd*

An error occurred in a table during processing *aa....aa*.

aa....aa: Processing:

Scan: Row retrieval

Delete: Row deletion

Insert: Row insertion

LOB delete: LOB data deletion

LOB insert: LOB data insertion

LOB scan: LOB data retrieval

Map purge: Deletion of LOB data definition information

LOB length: Acquisition of LOB data length

bb....bb: Authorization identifier

cc....cc: Table identifier

dd....dd: Server name

S: Terminates processing.

O: Refer to the message that was output to the message log file before this message to eliminate the cause of the error.

KFPL15227-E E

Unable to *aa....aa* without *bbbbbb* privilege

The *aa....aa* command cannot be executed because the user does not have table access privilege.

aa....aa: Command

pdroorg: Database reorganization utility

pdreclaim: Free page release utility

pdpgbfon: Global buffer residence utility

bbbbbb: Required access privilege

DBA: DBA privilege

audit: Audit privilege

delete: DELETE privilege

insert: INSERT privilege

select: SELECT privilege

S: Terminates processing.

O: After being granted table access privileges, re-execute the command. When the audit trail table is being processed, the auditor must execute this command.

KFPL15229-E L

Unable to get *aa....aa* information, *table=bb....bb."cc....cc"*

Definition information *aa....aa* cannot be obtained due to the message that was output before this message.

aa....aa: Type of definition information:

ADT: Abstract data type information

AUDIT: Audit definition information

cluster: Cluster key information

column: Column information

divide: Partitioning information

gen: Generation number

index: Index information

LOB: LOB information

`multidim`: Matrix partitioning information

`privilege`: Access privilege information

`rdarea`: RDAREA information

`schema`: Schema information

`server`: Server information

`table`: Table information

`constraint`: Constraint information

`bb...bb`: Authorization identifier

`cc...cc`: Table identifier

If a name cannot be determined, HiRDB displays the symbol `**....**`.

For schema units, HiRDB displays the symbol `*all*`.

S: Terminates processing.

O: Refer to the message in the log file that was output before this message to eliminate the cause of the error, and re-execute the command.

Note

If this message is displayed during the execution of a plug-in-supplied command, the message is output to the indicated output device type (E+L).

KFPL15231-E L

`cc...cc table aa...aa.bb...bb` cannot be specified for table name

The specified table cannot be processed because it is not a base table.

`aa...aa`: Authorization identifier

`bb...bb`: Table identifier

`cc...cc`: Table type

`viewed`: View table

`foreign`: Foreign table

S: Terminates processing.

O: Check the specified table name, specify the correct name of a base table, then re-execute the command.

Note

If this message is displayed during the execution of a plug-in-supplied command, the message is output to the indicated output device type (E+L).

KFPL15234-E E+L

Specified RDAREA *aa....aa* not found, table=*bb...bb.cc....cc*

RDAREA *aa....aa* specified in the `-r` option does not contain table *bb...bb.cc....cc*.

aa....aa: RDAREA name

bb...bb: Authorization identifier

cc....cc: Table identifier

S: Terminates processing.

O: Correct the RDAREA name and re-execute the command.

KFPL15240-E L

Insufficient memory on PROCESS, size=*aa....aa*, part=*bb...bb*, code=*cc....cc*

A memory shortage occurred.

aa....aa: Size (in bytes) of memory resulting in shortage

However, a negative value is displayed because the size of the target memory exceeds 2 gigabytes.

bb...bb: Part number

cc....cc: Part code

S: Terminates processing.

O: Check whether there are other processes that use a large amount of memory.

There are processes that use a large amount of memory:

Wait for the associated processes to terminate, then re-execute the command.

There are no processes that use a large amount of memory:

Use one of the following methods to ensure that there is sufficient memory:

- Reduce the number of simultaneously executing processes.
- Increase the size of the swap area.
- Increase the amount of memory.

KFPL15246-E L

aa....aa error occurred, file=*bb...bb*

File deletion failed.

aa....aa: Unlink

bb...bb: File name

If the length of the file name exceeds 150 characters, the last 150 characters of the

file name are output.

S: Resumes processing.

O: The file is not deleted. Delete the file if it is not needed.

KFPL15281-E L

No index on table *aa...aa.bb...bb*

An index is not defined on the specified table *aa...aa.bb...bb*; therefore, the following operations cannot be performed: index creation, used free page release processing, or reading data into the global buffer.

aa...aa: Authorization identifier

bb...bb: Table identifier

S: Terminates processing.

O: Check the specified table name, specify the name of a table for which an index has been defined, then re-execute the command.

KFPL15282-E L

No LOB column on table *aa...aa.bb...bb*

LOB processing is disabled because no LOB column is defined in the specified table.

aa...aa: Authorization identifier

bb...bb: Table identifier

S: Terminates processing.

O: Check the specified table name. To process LOB data, specify the name of a table for which a LOB column has been defined, then re-execute the command.

KFPL15283-E L

Unable to execute `pdrorg` command, *aa...aa* does not support

aa...aa, which is not supported by the current version of the Database Reorganization Utility (`pdrorg`), cannot be executed. Similarly, `pdreclaim` and `pdpgbfon`, which also use `pdrorg`, cannot be executed.

aa...aa:

ADT `column`: Abstract data type column

ADT `return`: Constructor parameter reverse generation function for returning the abstract data type

S: Terminates processing.

O: When ADT `return` is displayed for *aa...aa*, unloading with `-w` specified cannot be executed. To reorganize a table or transfer data to another table, check if unloading without the `-w` specification might be possible. To reference the unload data from a

UAP, use another facility to unload the data or use a UAP to extract the data.

Action

Cancel the execution of the database reorganization utility (`pdrorgr`), the free page release utility (`pdreclaim`), and the global buffer residence utility (`pdpgbfn`).

KFPL15284-E L

Unable to execute *aa....aa*, PLUGIN does not support *bb...bb* function

The function *bb...bb* is not supplied by the plug-in; the function *aa....aa* cannot be executed. Or, the function *aa....aa* cannot be executed because the function *bb...bb* of the plug-in used by the LOB RDAREA is not supported.

aa....aa: Function for which execution was attempted

`ixmk`: Batch creation of an index

`pdreclaim`: Free page release utility

`pdpgbfn`: Global buffer residence utility

bb...bb: Plug-in-supplied function

`INDEX_LOAD`: Plug-in index batch-created section recovery function

`PAGE_FREE`: Release used free pages

`PAGE_READ`: Data read facility to the global buffer

S: Terminates processing.

O: To create a plug-in index, execute the index creation function (`-k ixrc`). Also, `pdpgbfn` cannot be processed for a LOB RDAREA. Terminate the command.

KFPL15285-E L

Unable to specified *aa....aa* option, PLUGIN does not support *bb...bb* function

The function *bb...bb* is not supplied by the plug-in; the option *aa....aa* cannot be executed.

aa....aa: Option `{-i n: index information output mode}`

bb...bb: Implementation function `{INDEX_LOAD: Plug-in index batch-created section recovery function}`

S: Terminates processing.

O: If *aa....aa* is `-i n`, set index creation mode to either `-i c` (batch index creation mode) or `-i s` (index update mode).

KFPL15286-E E+L

Column "*aa....aa*" cannot be specified in *bb...bb*

Because column "*aa....aa*" does not support the constructor parameter reverse generation function for returning the BLOB attribute, it cannot be specified for *bb....bb*.

aa....aa: Column name

bb....bb: Type:

`blobtovarchar_row`: Row in the `blobtovarchar` statement

S: Terminates processing.

O: When `blobtovarchar_row` is displayed for the type, specify an abstract data type whose return value from the constructor parameter reverse generation function is the BLOB type, and re-execute the command.

KFPL15287-E E+L

Unable to convert data, column=*bb....bb*, line=*aa....aa*

Data in the *bb....bb*th row of column *aa....aa* cannot be converted.

aa....aa: Column name

bb....bb: Row number

S: Terminates processing.

O: Check if there is more than 32 KB of data in the BLOB-type data that is returned by the constructor parameter reverse generation function and that has the abstract data type specified by the `blobtovarchar` statement. If so, reduce the data size to no more than 32 KB and re-execute.

KFPL15288-E E+L

Unable to data copy, data size=*aa....aa*, limit=*bb....bb*, line= *cc....cc*

BLOB data in the *cc....cc*th line with data size *aa....aa* cannot be copied because it is larger than the allocated memory size of *bb....bb*.

aa....aa: Data size

bb....bb: Allocated memory size

cc....cc: Line number

S: Terminates processing.

O:

- If the `loblimit` operand is specified in the `option` statement, change the specified value so that it is greater than the data size and re-execute.
- If the `loblimit` operand is not specified in the `option` statement, specify a value greater than the data size in the `loblimit` operand in the `option` statement and re-execute.

KFPL15300-E L

Invalid unload file, file=*aa....aa*

Specified unload data file was not created correctly.

aa....aa: Name of unload data file

If the name of the unload data file exceeds 150 characters, the last 150 characters of the unload data file name are output.

S: Terminates processing.

O: Specify an unload data file that was created correctly during unload processing and re-execute the command.

KFPL15301-E L

Unable to reload file by *aa....aa*, file=*bb....bb*

Because the specified unload data file was not created in units of tables in a user RDAREA or dictionary RDAREA, data cannot be reloaded in the units specified in the -c option.

aa....aa: Reload unit:

{ user table|dictionary }

bb....bb: Name of unload data file

If the name of the unload data file exceeds 150 characters, the last 150 characters of the unload data file name are output.

S: Terminates processing.

O: If the unload data file was created for each table in a user RDAREA, reload the data in units of tables. If the unload data file was created for tables in a dictionary RDAREA, reload the data in units of dictionary tables.

KFPL15302-E L

Invalid *aa....aa* file, kind=*bb....bb*, file=*cc....cc*

The file specified for *aa....aa* processing contains *bb....bb*. The file cannot be used because the processing to be executed does not match the file contents.

aa....aa: Processing to be executed

{ lobunld|unload }

bb....bb: Specified file contents:

table: Base table

LOB: LOB data

table (LOB): Base table and LOB data

cc....cc: Name of the unload data file

If the name of the unload data file exceeds 150 characters, the last 150 characters of the unload data file name are output.

S: Terminates processing.

O: Match the processing to be executed with the file contents and re-execute.

lobunld statement executed:

Specify a file to which LOB data was unloaded.

unload statement executed:

Specify a file to which a base table was unloaded. To use a file to which base table and LOB data were unloaded simultaneously, specify the command's -j option.

KFPL15305-E L

Table *aa...aa.bb...bb* not found in unload file, file=*cc...cc*

Specified table *aa...aa.bb...bb* was not found in the unload data file.

aa...aa: Authorization identifier

bb...bb: Table identifier

cc...cc: Name of unload data file

If the length of the unload data file name exceeds the value obtained from the following formula, the last number of characters of the unload data file name obtained from the formula are output.

$169 - \text{authorization-identifier-length} - \text{table-identifier-length}$

S: Terminates processing.

O: Specify the unload data file containing the table and re-execute the command. Or, if the specified table name is invalid, correct it and re-execute the command.

KFPL15308-E L

Number of *aa...aa.bb...bb* columns not equal to unload file, file=*cc...cc*

The number of columns in table *aa...aa.bb...bb* in the unload data file does not match the number of columns in the reload destination table.

aa...aa: Authorization identifier

bb...bb: Table identifier

cc...cc: Name of unload data file

If the length of the unload data file name exceeds the value obtained from the following formula, the last number of characters of the unload data file name obtained from the formula are output.

$157 - \text{authorization-identifier-length} - \text{table-identifier-length}$

S: Terminates processing.

O: Create an unload data file for the specified table and re-execute the command.

KFPL15310-E L

aa....aa information of *bb....bb.cc....cc* not equal to unload file, file=*dd....dd*

Reloading cannot be executed because the definition (partitioning definition or LOB column definition) for table *bb....bb .cc....cc* in the unload data file does not match the definition of the reload table. LOB cannot be processed if the partitioning definition for the unload data file differs from the reload table definition.

aa....aa: Definition description of the specified table:

Divided: Partitioning definition

LOB: LOB column definition

Divided (LOB): Partitioning definition (LOB process)

bb....bb: Authorization identifier

cc....cc: Table identifier

dd....dd: Name of the unload data file

If the length of the unload data file name exceeds the value obtained from the following formula, the last number of characters of the unload data file name obtained from the formula are output.

$147 - \textit{authorization-identifier-length} - \textit{table-identifier-length}$

S: Terminates processing.

O: Create the unload data file for the specified table and reload.

KFPL15311-E L

Table *aa....aa.bb....bb* definition altered RDAREA information not equal to unload file, file=*cc....cc*

Table *aa....aa .bb....bb* cannot be reloaded because the definition of table storage RDAREAs used during reloading does not match the definition used during unloading.

aa....aa: Authorization identifier

bb....bb: Table identifier

cc....cc: Name of the unload data file

If the length of the unload data file name exceeds the value obtained from the following formula, the last number of characters of the unload data file name obtained from the formula are output.

$131 - \textit{authorization-identifier-length} - \textit{table-identifier-length}$

S: Terminates processing.

O: Specify the RDAREAs used during unloading and re-execute the command.

KFPL15312-E L+E

Unable to reload divided method altered

Loading cannot be executed without the `-g` option specified because the table partitioning method specified for reloading does not match the partitioning method used for unloading. Reloading fails in the following cases when there is a mismatch in the partitioning method specifications:

- Reloading from an unpartitioned table or a table partitioned by flexible hash partitioning or `FIX` hash partitioning to a table with key range partitioning
- Reloading from an unpartitioned table or a table partitioned by key range partitioning or flexible hash partitioning to a table with `FIX` hash partitioning
- Reloading from a table partitioned by `FIX` hash partitioning to a table with `FIX` hash partitioning when the partitioning conditions have been changed
- Reloading from a table partitioned by key range partitioning to a table with key range partitioning when the partitioning conditions have been changed

Data cannot be reloaded between tables partitioned with different partitioning methods during reorganization by RDAREA.

S: Terminates processing.

O: Change the partitioning method; use the following procedure, as applicable:

When the data can be placed in one unload file:

Unload with the `-g` option specified, modify the table definition, then reload with the `-g` option specified.

When the data cannot be placed in one unload file:

Unload with the `-w` option specified, modify the table definition, then use the database load utility to load the data.

KFPL15313-E L

Abstract data type definition altered, table=*aa....aa*.*"bb....bb"*,
COLUMN="*cc....cc*", TYPE="*dd....dd*", attribute=*ee....ee*

Reloading cannot be executed because the abstract data type definition during unloading differs from the abstract data type definition during reloading. For details, see the KFPL15314-E message.

aa....aa: Authorization identifier

bb....bb: Table identifier

cc....cc: Column name

dd...dd: Abstract data type name

ee...ee: Attribute that is different from the one used during unloading:

TYPE_NAME: Data type name

PLUGIN_ID: Plug-in ID

DEF_ATTR_NUM: Abstract data type attributes count

DEF_ATTR_DTYPE: Attribute data type

DEF_ATTR_DLEN: Attribute definition length

DEF_ATTR: Abstract data type attribute definition

LOB_RDAREA_NUM: Number of LOB column storage RDAREAs

LOB_RDAREA: RDAREA for storing LOB attribute data

LOB_RDAREA_ID1, -2, -3: Attributes 1 to 3 of the LOB column storage RDAREAs

LOB_RDAREA_ID: LOB column storage RDAREA ID

LOB_RDAREA_SERV: Server name where LOB column storage RDAREAs are located

ADT_NUMBER: Abstract data type column definitions count

UNLOAD_TYPE: Abstract data type unload method

FUNC_PARAM_NUM: Function parameters count

FUNC_PARAM_TYPE: Function parameter data type

FUNC_PARAM_LEN: Function parameter data length

S: Terminates processing.

Action

A table whose abstract data type definition has been modified cannot be reloaded. Use a UAP, etc., to transfer the data. Or, set the abstract data type definition to that used during unloading and then reload.

If the plug-in that provides the applicable abstract data type supports the constructor parameter reverse generation function, recover the table from the backup or set the abstract data type definition to that used during unloading and then reload. Then specify the constructor parameter reverse generation function (`unld_func` statement) in the control information file and unload the table, modify the abstract data type attribute, and then reload the table by specifying the constructor function facility (`unld_func` statement).

2. Messages

KFPL15314-E L

Unload=*aa....aa*, Reload=*bb....bb*, position=*cc....cc*

Displays detailed information (definition contents during unloading and reloading) for the preceding KFPL15313-E message.

aa....aa: Definition contents during unloading

bb....bb: Definition contents during reloading

cc....cc: Definition position (0 if the position cannot be identified)

The relationships between *ee....ee* in the KFPL15313-E message and *aa....aa*, *bb....bb*, and *cc....cc* in this message are shown below:

ee....ee in KFPL15313-E	Output aa....aa and bb....bb	Output format	cc....cc
TYPE_NAME	<i>authorization-identifier .abstract-data-type-name</i>	Characters	—
PLUGIN_ID	Plug-in ID	Decimal number	
DEF_ATTR_NUM	Attributes count	Decimal number	
DEF_ATTR_DTYPE	Attribute data type: <ul style="list-style-type: none"> • INTEGER • SMALLINT • CHAR • VARCHAR • NCHAR • NVARCHAR • MCHAR • MVARCHAR • FLOAT • SMALLFLT • BLOB 	Characters	Definition sequence number of abstract data type attribute definition
DEF_ATTR_DLEN	Attribute definition length	Decimal number	
DEF_ATTR	Abstract data type type ID	Decimal number	

ee....ee in KFPL15313-E	Output aa....aa and bb....bb	Output format	cc....cc
LOB_RDAREA_NUM	Number of LOB column storage RDAREAs	Decimal number	LOB definition sequence number
LOB_RDAREA	Name of LOB column storage RDAREA	Characters	
LOB_RDAREA_ID1	LOB column storage RDAREA definition sequence	Decimal number	
LOB_RDAREA_ID2	LOB column storage RDAREA storage sequence	Decimal number	
LOB_RDAREA_ID3	ID of table storage RDAREA corresponding to LOB column storage RDAREA	Decimal number	
LOB_RDAREA_ID	ID of LOB column storage RDAREA	Decimal number	
LOB_RDAREA_SERV	Name of server where LOB column storage RDAREA is located	Characters	
ADT_NUMBER	Number of abstract data type columns defined in table	Decimal number	—
UNLOAD_TYPE	Abstract data type unloading and reloading method: unload_func: Unloading with unload_func statement specified reld_func: Reloading with reld_func statement specified instance: Unloading without using unld_func statement or UNLOAD function Reloading without using reld_func statement or UNLOAD function unload: Unloading or reloading with UNLOAD function	Characters	

ee....ee in KFPL15313-E	Output aa....aa and bb....bb	Output format	cc....cc
FUNC_PARAM_NUM	<i>aa....aa</i> : Number of functions specified by unld_func statement <i>bb....bb</i> : Number of parameters specified by reld_func statement	Decimal number	Specification sequence of function parameter of reld_func statement
FUNC_PARAM_TYPE	Parameter data type (each data type is the same as DEF_ATTR_DTYPE): <i>aa....aa</i> : Data type of value returned by function specified by unld_func statement <i>bb....bb</i> : Data type of function parameter specified by reld_func statement	Characters	
FUNC_PARAM_LEN	Parameter data size <i>aa....aa</i> : Definition length of value returned by function specified by unld_func statement <i>bb....bb</i> : Definition length of function parameter specified by reld_func statement	Decimal number	

— : Not applicable

S: Terminates processing

O: Refer to the action to be taken for the KFPL15313-E message.

KFPL15315-E L

Unable to restart pdrorg, status unmatched, kind=*aa....aa*

The table reorganization process cannot be restarted because the status of the table does not match.

When *aa....aa* is `option_control`:

The option and specified control statement during restart do not match the option and specified control statement when table reorganization failed.

When *aa....aa* is `server`:

The table status of the row partitioning among servers table does not match.

When *aa....aa* is `unload_time`:

The unload data file specified in the `unload` statement or `lobunload` statement

during restart and the unload data file specified when table reorganization failed do not match.

When *aa...aa* is `restart_inf`:

The re-execution information does not match.

When *aa...aa* is `schema` or `table_inf`:

The table status of each table in the schema is different.

aa...aa: Status type

`option_control`: Specified option or control statement

`server`: Status between servers

`unload_time`: Unload time

`restart_inf`: Re-execution information

`schema`: Table status in the schema

`table_inf`: Table information

S: Terminates processing.

Action

When *aa...aa* is `option_control`:

When a different option and control statement is specified, and the table reorganization process is re-executed, specify the option and control statement specified when table reorganization failed.

When *aa...aa* is `server_status` or `unload_time`:

Take one of the following actions:

1. When one RDAREA is recovered from backup or an RDAREA is initialized, the table reorganization process cannot be restarted. Recover all stored RDAREAs from backup, and then execute the table reorganization process (in this case, no restarting occurs).
2. When any applicable tables are manipulated before restart, restarting does not occur. Recover the tables from backup.
3. When a different unload data file is specified, specify the unload data file specified when table reorganization failed.

When actions 1 through 3 are not taken, table reorganization (`pdrorg -k rorg`) cannot be executed. To forcibly execute table reorganization, specify `tblstatus=clear` in the option statement, clear the table's status, and then execute.

When *aa...aa* is `restart_inf`, `schema` or `table_inf`:

When the reload process is performed on the applicable table (a table in the schema), restarting cannot be performed. In this case, execute reloading (`pdrcorg -k reld`) and complete the reload process.

KFPL15316-E L

Unable to reload table kind unmatched, `kind=aa...aa`

An unloaded table cannot be reloaded because the unload file and table to reload are different file types.

When *aa...aa* is `INSERT ONLY` table:

The unloaded table cannot be reloaded in either of the following situations:

- When the unloaded table is a non-falsification prevented table and the reload destination is a falsification prevented table.
- When the unloaded table is a falsification prevented table and the other table (table of another system) at the reload destination is a falsification prevented table.

aa...aa: Table type

`INSERT ONLY` table: Falsification prevented table

S: Terminates processing.

Action

Specify the correct unload table or table name, and then re-execute.

KFPL15317-E L

Table *aa...aa.bb...bb* not unloaded by cluster key sequence, `file=cc...cc`

Table *aa...aa.bb...bb* in the unload data file was not unloaded in the order of cluster key values of the reload destination table.

aa...aa: Authorization identifier

bb...bb: Table identifier

cc...cc: Name of unload data file

If the length of the unload data file name exceeds the value obtained from the following formula, the last number of characters of the unload data file name obtained from the formula are output.

$157 - \text{authorization-identifier-length} - \text{table-identifier-length}$

S: Terminates processing.

O: Create the unload data file in the order of cluster key values and re-execute the

command.

KFPL15318-E L

Cluster information not equal to *aa....aa.bb....bb* on unload file,
file=*cc....cc*

The cluster key definition for table *aa....aa.bb....bb* in the unload data file does not match that for the reload destination table.

aa....aa: Authorization identifier

bb....bb: Table identifier

cc....cc: Name of unload data file

If the length of the unload data file name exceeds the value obtained from the following formula, the last number of characters of the unload data file name obtained from the formula are output.

$152 - \textit{authorization-identifier-length} - \textit{table-identifier-length}$

S: Terminates processing.

O: Create the unload data file for the specified table in the order of cluster key values and re-execute the command.

KFPL15319-E L

Unable to unload order by physical, table=*aa....aa.bb....bb*

Because a cluster key has been defined for table *aa....aa.bb....bb*, the table cannot be reorganized in physical order.

aa....aa: Authorization identifier

bb....bb: Table identifier

S: Terminates processing.

O: Unload the table in the order of cluster key values and re-execute the command.

KFPL15321-E E+L

Index *aa....aa* not found on table *bb....bb.cc....cc*

Specified index *aa....aa* has not been defined for table *bb....bb.cc....cc*.

aa....aa: Index identifier

bb....bb: Authorization identifier

cc....cc: Table identifier

S: Terminates processing.

O: If the index identifier is invalid, correct it and re-execute the command.

KFPL15322-E E+L

aa....aa key not found on table *bb...bb.cc....cc*

Key *aa....aa* is not defined in table *bb...bb.cc....cc*.

aa....aa:

Cluster: Cluster key

Primary: Primary key

bb...bb: Authorization identifier

cc....cc: Table identifier

S: Terminates processing.

O:

If the specified table name is invalid:

Correct the table name and re-execute the command.

If the specified table name is correct:

Check if key *aa....aa* is defined in the table. If it is not defined, specify the keys, except for key *aa....aa*, in the same order as the unloading sequence and re-execute the command.

KFPL15323-E E+L

Unable to unload order by index, index=*aa....aa.bb...bb*

The index specified in the order of unloading in the unload function contains one of the following errors:

- The index has multiple structure columns and descending order was specified:
Because the specified index has multiple structure columns, the index cannot be unloaded in descending order.
- A plug-in index was specified:
The specified index is a plug-in index; an unloading operation with an index specification cannot be performed.
- An index with a repetition column was specified:
The specified index is an index for a repetition column; an unloading operation with an index specification cannot be performed.

aa....aa: Authorization identifier

bb...bb: Index identifier

S: Terminates processing.

O: Take one of the following actions:

- The index has multiple structure columns and descending order was specified:
Specify the unloading order for the index as ascending order or physical sequential order and re-execute the command.
- A plug-in index was specified:
Specify either an index other than a plug-in index or physical sequential order and re-execute the command.
- An index with a repetition column was specified:
Specify either an index other than a repetition column index or physical sequential order and re-execute the command.

KFPL15326-E L

Unable to unload due to specified index except values,
index=*aa....aa*."bb...bb"

The index *aa....aa*."bb...bb", specified in the -b option, contains a defined index exclusion value; the index cannot be unloaded.

aa....aa: Authorization identifier

bb...bb: Index identifier

S: Terminates processing.

O: Either specify an index for which an index exclusion value is not defined or omit the specification of the -b option and re-execute the command.

KFPL15331-E L

aa....aa not held, RDAREA=*bb...bb*

RDAREA *bb...bb* is not in command hold status.

aa....aa: {Data dictionary|USER RDAREA}

bb...bb: RDAREA name

S: Terminates processing.

O: Place the corresponding RDAREA on command shutdown status and re-execute the command.

KFPL15333-E L

Data dictionary lock request failed

Data dictionary RDAREA cannot be locked.

S: Terminates processing.

O: Refer to the message that was output before this message to eliminate the cause of

the error, and re-execute the command.

KFPL15334-E L

Specified data dictionary table not found in system, table=*aa...aa*

Specified table *aa...aa* is not a dictionary table.

aa...aa: Table identifier

S: Terminates processing.

O: Correct the specified table name and re-execute the command.

KFPL15335-E L

Specified *aa...aa* file is many, max=*bb...bb*

The number of files specified in the unload statement, lobunld statement, or idxname statement exceeds the maximum specifiable value *bb...bb*.

aa...aa: Incorrect specification:

{ unload|lobunld|idxname }

bb...bb: Maximum number of files that can be specified

S: Terminates processing.

O:

- For the unload or lobunld statement

Check the specified table definition and the specification of the unload or lobunld statement, correct the unload or lobunld statement, and re-execute.

If the `-g` option is not specified, the maximum number of files that can be specified equals the number of partitioned servers. If the `-g` option is specified, the number is 1.

- For the idxname statement

Check the specified table definition and the specification of the idxname statement, correct the idxname statement, and re-execute.

The maximum number of files that can be specified equals the number of indexes defined in the table. If the asterisk (*) is specified in the name operand of the idxname statement, the maximum number of files that can be specified is 1.

KFPL15336-E E+L

Specified *aa...aa* name *bb...bb* of *cc...cc* file not much

The server name specified by the unload or lobunld statement or by the `server` operand of the idxname statement differs from the server name in the table definition.

aa....aa: server

bb....bb: Specified server name

cc....cc: Processing that was attempted:

{ unload|lobunld|idxname }

S: Terminates processing.

O:

- For the unload or lobunld statement
Correct the server name in the unload or lobunld statement, and re-execute.
- For the idxname statement
Correct the server name specified by the server operand of the idxname statement, and re-execute.

KFPL15337-E E+L

Specified *aa....aa* name *bb....bb* of index file not much

The index information file name or RDAREA name specified in the index information file (index) To be used is different from the name specified in the index definition of the table subject to processing.

aa....aa: Specified name:

{ RDAREA|index }

bb....bb: Index information file name or RDAREA name

S: Terminates processing.

O: Correct the index information file name or RDAREA name in the index information file to be used and re-execute the command.

KFPL15338-E L

Specified *aa....aa* name *bb....bb* of *cc....cc* directory not much

The server name for the directory specified in the control information file does not match the information in the table definition subject to processing.

aa....aa: server

bb....bb: Server name

cc....cc: Specified directory type

{ index|sort }

S: Terminates processing.

O: Correct the server name for the directory specified in the control information file and re-execute the command.

KFPL15339-E L

Index file no specified, index=*aa...aa.bb...bb*, RDAREA=*cc...cc*

An index information file was not specified for index *aa...aa.bb...bb* in RDAREA *cc...cc*.

aa...aa: Authorization identifier

bb...bb: Index identifier

cc...cc: RDAREA name

S: Terminates processing.

O: Specify the index information file for the corresponding RDAREA and re-execute the command.

KFPL15340-E E+L

RDAREA name not specified in index file, index=*aa...aa*

An RDAREA name was omitted for the index information file to be used.

aa...aa: Specified index identifier

S: Terminates processing.

O: Add the RDAREA name to the index information file and re-execute the command.

KFPL15341-E L

Server name not specified in *aa...aa*

No server name was specified for the directory or file name specified in the control information file.

aa...aa: Invalid specification:

```
{ unload file (unload file)
  | index directory (index directory)
  | sort directory (sort directory)
  | lobunld file (LOB unload file) }
```

S: Terminates processing.

O: Specify the server name for the directory or file name specified in the control information file and re-execute the command.

KFPL15342-E L

Specified *aa...aa* directory is too many, max=*bb...bb*

The number of directories specified in the control information file exceeds the

permitted maximum *bb....bb*.

aa....aa: Type of directory

{ index|sort work }

bb....bb: Permitted maximum

S: Terminates processing.

O: Check the table definition, correct the number of directories, then re-execute the command.

KFPL15343-E L

Index file duplicated, index=*aa....aa.bb....bb*, RDAREA=*cc....cc*

A duplicated name was specified for the index or RDAREA to be used.

aa....aa: Authorization identifier

bb....bb: Index identifier

cc....cc: RDAREA name

S: Terminates processing.

O: Correct the duplicated name of the index information file or RDAREA to be used and re-execute the command.

KFPL15344-W L

Control character found, skip row=*aa....aa*, table=*bb....bb."cc....cc"*

A NULL or linefeed character was found in row data; this row was not output.

Row data (character data, national character data, or mixed character data) That contains a NULL or linefeed character cannot be output in DAT format.

aa....aa: Number of lines skipped

bb....bb: Authorization identifier

cc....cc: Table identifier

S: Resumes processing.

O: In the -w option, specify either *bin* or *extdat*, and output the file in binary format or extended DAT format.

KFPL15345-E E+L

Unable to execute *aa....aa* for PLUGIN index *bb....bb."cc....cc"*

Function *aa....aa* cannot be executed for plug-in index *bb....bb."cc....cc"*.

aa....aa: Function:

ixor: Index reorganization

`pdreclaim`: Free page release utility

`pdpgbfon`: Global buffer residence utility

`bb...bb`: Authorization identifier

`cc...cc`: Index identifier

S: Terminates processing.

O: Take one of the following actions:

When `aa...aa` is `ixor`:

- When you want to reorganize the plug-in index:

Instead of reorganizing the plug-in index, reorganize the table in which the plug-in index is defined or re-create the plug-in index.

- When there is no need to reorganize the plug-in index:

Delete the index or `idxname` statement that specifies the plug-in index, then re-execute index reorganization.

When `aa...aa` is `pdreclaim`:

When a plug-in index is specified in the `idxname` statement of `pdreclaim`, delete the `idxname` statement. When releasing a plug-in index used free page, re-create the index (`pdroorg -k ixrc`).

When `aa...aa` is `pdpgbfon`:

Because the plug-in index cannot be processed by `pdpgbfon`, terminate the command.

KFPL15346-W L

Table `aa...aa."bb...bb"` `cc...cc` skipped

- When `cc...cc` is `reload`:

During reloading by schema, because the information for table `aa...aa."bb...bb"` was not found in the unload data file, the reload process was skipped. Or, when resuming table reorganization, the reloading process was skipped because reloading of table `aa...aa."bb...bb"` is complete. If the timing of the abnormal termination is such that it occurs before the table status is written as *reorganizing*, the table status becomes like the initial status. In other words, the status is the same as when reloading has completed, such that the reload processing of the unloaded table is skipped. In this case, specify the relevant table only, with the `-t` option, and re-execute the reloading (`-k reld`).

- When `cc...cc` is `ixrc`:

The index recreation process was skipped because creation of the index for table `aa...aa."bb...bb"` was complete when table recreation resumed.

aa....aa: Authorization identifier

bb....bb: Table identifier

cc....cc: Process type

reload: Reload process

ixrc: Index reorganization process

S: Continues processing.

KFPL15347-E E+L

Unmatched *aa....aa* between *bb....bb* "*cc....cc*" of RDAREA "*dd....dd*" and *bb....bb* "*ee....ee*" of RDAREA "*ff....ff*"

aa....aa ("*cc....cc*") of RDAREA "*dd....dd*", which is the target when executing the utility, and *aa....aa* ("*ee....ee*") of RDAREA "*ff....ff*" do not match.

aa....aa:

generation number: Generation number

inner replica status: Replica status

bb....bb:

number: Number

status: Status

cc....cc: Generation number

current: Current RDAREA

not current: Other than the current RDAREA

dd....dd: RDAREA name

ee....ee: Generation number

current: Current RDAREA

not current: Other than the current RDAREA

ff....ff: RDAREA name

S: Terminates processing.

O:

- When *aa....aa* is *generation number*:

If the utility is executed (during current access) without the generation number (using the *-q* option) specified, use the *pdadbchg* command to match up the generation number of the RDAREA to be processed, and re-execute.

- When *aa...aa* is inner replica status:

If the utility is executed with the generation number (using the `-g` option) specified, use the `pddbchg` command to match up all replica statuses of the RDAREA to be processed.

KFPL15348-E E+L

No specified generation RDAREA="*aa...aa*", generation=*bb*

No RDAREA "*aa...aa*" of specified generation *bb* was found.

aa...aa: RDAREA name (** is output when no RDAREA of the specified generation was found)

bb: Generation number (if a table or index is dropped while the utility is executing, the generation number cannot be determined, and -1 is output)

S: Terminates processing.

O:

If the specified generation number is correct:

Create a replica RDAREA for the target RDAREA, and then re-execute the utility.

If the specified generation number is in error:

Specify the correct generation number, and then re-execute the utility.

If a definition SQL is executed on a table on which a utility is being executed:

Execute the definition SQL when the utility is not being executed.

KFPL15349-E L

aa...aa scan failed, code=*bb*

A data access error occurred during retrieval of BLOB or BINARY column data.

aa...aa: Attribute of the column that generated the error

LOB: BLOB column

BIN: BINARY column

bb: Error code

4: A data access error occurred during acquisition of BLOB or BINARY data.

12: Updating of a BLOB column or a BINARY column was detected during acquisition of BLOB or BINARY data.

S: Terminates processing.

O:

Error code 4:

Refer to the message that was output to the message log file before this message, resolve the error, and then re-execute the command.

Error code 12:

Make sure that tables subject to unload processing are not being updated, and then re-execute the command.

KFPL16300-E L

Invalid lobmid file, file=*aa....aa*

The specified LOB middle file has not been created correctly.

aa....aa: Name of the LOB middle file

If the length of the LOB intermediate file name exceeds 150 characters, the last 150 characters of the LOB intermediate file name are output.

S: Terminates processing.

O: Specify a LOB middle file that was output correctly during creation of the LOB column structure base table and re-execute the command.

KFPL16310-E L

Divided information of *aa....aa.bb....bb* not equal to lobmid file, file=*cc....cc*

LOB column data loading is disabled because the partitioning definition for table *aa....aa.bb....bb* in the LOB middle table differs from the partitioning definition for the table for loading the LOB column data.

aa....aa: Authorization identifier

bb....bb: Table identifier

cc....cc: Name of the LOB middle file

If the length of the LOB middle file name exceeds the value obtained from the following formula, the last number of characters of the LOB middle file name obtained from the formula are output.

$152 - \textit{authorization-identifier-length} - \textit{table-identifier-length}$

S: Terminates processing.

O: Use the LOB middle file for the specified table to load the LOB column data.

KFPL16320-E L

Unmatched LOB load type "*a*" in command line with LOB load type "*b*" of LOBMID file *cc....cc*

Value "*a*" specified in the *-k* option on the command line during LOB creation does not match value "*b*" specified in the *-k* option on the command line during creation

of the LOB column structure base table.

a: LOB creation type specified in the *-k* option during LOB creation:

f: Creation of a file for each item of LOB data

c: Creation of a LOB column input file

b: LOB creation type specified in the *-k* option during creation of the LOB column structure base table:

f: Creation of a file for each item of LOB data

c: Creation of a LOB column input file

cc...cc: Name of LOB middle file

If the length of the LOB middle file name exceeds 66 characters, the last 66 characters of the LOB middle file name are output.

S: Terminates processing.

O: For LOB creation, specify the same LOB creation type in the *-k* option that was specified for creation of the LOB column structure base table.

KFPL16321-E L

Unmatched number of "lobcolumn" statements with *aa...aa* (number of LOB columns)

The number of lobcolumn statements in the control information file does not match the number of LOB columns.

The number of lobcolumn statements required for creation is *aa...aa*.

aa...aa: Number of required lobcolumn statements

S: Terminates processing.

O:

LOB creation in units of tables or RDAREAs of LOB column structure base table:

Specify as many lobcolumn statements as there are LOB columns in the table to be created. When a column structure information file is used, specify as many lobcolumn statements as there are LOB columns specified in the column structure information file.

LOB creation in units of LOB RDAREAs:

Specify one lobcolumn statement.

KFPL16322-E L

LOB column "*aa...aa*" not found, table=*bb...bb*. "*cc...cc*"

Specified LOB column "*aa...aa*" was not found in the table.

aa...aa: Column name

bb...bb: Authorization identifier

cc...cc: Table identifier

S: Terminates processing.

O: Specify a LOB column name entered in the table definition and re-execute the command.

KFPL16323-E L

RDAREA "*aa...aa*" conflicted with LOB column "*bb...bb*"

LOB RDAREA "*aa...aa*" specified in the `lobmid` control statement contradicts the information about LOB column "*bb...bb*" specified in the `lobcolumn` statement.

aa...aa: LOB RDAREA name

bb...bb: Column name

S: Terminates processing.

O: Check the correspondence between the LOB RDAREA name specified in the `lobmid` control statement and the LOB column name specified in the table definition, then re-execute the command.

KFPL16324-E L

Unable to continue LOB load, because of invalid LOB middle file, `file=aa...aa`

LOB cannot be created due to invalid LOB middle file *aa...aa*.

- LOB middle files obtained by using the same input data file as when LOB column structure base table was created:

The order of the LOB middle files specified during LOB creation is invalid.

- LOB middle file obtained by using a different input data file as when LOB column structure base table was created:

LOB middle file specified during LOB creation is invalid.

aa...aa: LOB middle file name

If the length of the LOB middle file name exceeds 140 characters, the last 140 characters of the LOB middle file name are output.

S: Terminates processing.

O:

LOB middle files obtained by using the same input data file as when LOB column structure base table was created:

Specify the LOB middle files in the same order as the corresponding input data

file lines in the LOB column structure base table, then re-execute the command.

LOB middle file obtained by using a different input data file as when LOB column structure base table was created:

A LOB middle file obtained from a different input data file cannot be specified at the same time. Use a separate control statement to specify a LOB middle file for a different input data file, then execute the command to create its LOB data.

KFPL16325-W L

LOBCOLUMN for "*aa...aa*" ignored, because of not specified LOB column in column structure information file

The `lobcolumn` statement for "*aa...aa*" was ignored, because this control statement is for a LOB column that is not specified in the column structure information file (a LOB column that is not specified in the input file for the LOB column structure base table).

aa...aa: Name of the ignored LOB column

S: Ignores the specified `lobcolumn` statement and resumes processing.

KFPL16326-E E

Unable to omit *aa...aa* in "*bb...bb*" statement

aa...aa cannot be omitted from statement "*bb...bb*" that was specified in the control information file.

aa...aa: Omitted information:

column name: Column name

bb...bb: Name of control statement:

`lobcolumn`: `lobcolumn` statement

S: Terminates processing.

O: Specify *aa...aa* in statement "*bb...bb*" of the control information file and re-execute the command.

KFPL16327-E E+L

Unable to continue LOB load, because invalid column structure information file

LOB data cannot be created due to incorrect information in the column structure information file specified in the `-c` option.

- The LOB column specified during LOB creation is not the one specified in the input data file during LOB column structure base table creation.

S: Terminates processing.

O:

Column structure information file not specified in `-c` option during LOB column structure base table creation:

Create LOB data by omitting specification of the column structure information file in the `-c` option during LOB creation and specifying `lobcolumn` control statements for all LOB columns.

Column structure information file specified in `-c` option during LOB column structure base table creation:

Check that the column structure information file specified in the `-c` option for LOB column structure base table creation is the same file specified for LOB creation, specify the corresponding `lobcolumn` control statement, then re-execute the command.

KFPL16328-W E

Unable to check LOB data count, because error data exist in input data file

During LOB column structure base table creation, erroneous data was found in the input data file for the LOB column structure base table. If the `-e` option was specified, the system cancels data load processing for the LOB column structure base table, in which case the number of LOB data items in the LOB column input file cannot be verified during LOB data creation.

S: Resumes processing.

KFPL17000-E E+L

Unmatched *aa...aa* DB=*bbbbbb*, UTL=*cccccc*

One of the following errors was detected:

- The job name associated with the synchronization point information stored in the database does not match the job name specified in the utility control statement.
- The index creation method associated with the synchronization point information stored in the database does not match the index creation method used during the execution of the utility.
- The utility name associated with the synchronization point information stored in the database does not match the utility that was executed.

aa...aa: Mismatching information type:

job name: Job name

index mode: Index mode

bbbbbb:

job name displayed for *aa...aa*: The job name stored in the database (L in parentheses indicates `pdload`; R indicates `pdroorg`)

index mode displayed for *aa....aa*: The index creation method stored in the database (value specified in *-i* option)

cccccc:

job name displayed for *aa....aa*: The job name specified during utility execution (if ***** is displayed, no job name was specified)

index mode displayed for *aa....aa*: The index creation method specified during utility execution (value specified in *-i* option)

S: Terminates processing.

O:

job name displayed for *aa....aa*:

Execute the utility of the abnormally terminated job, then re-execute. If there is no need to re-execute the utility of the abnormally terminated job, specify CLR in the *job* operand and execute.

index mode displayed for *aa....aa*:

Re-execute the utility of the abnormally terminated job without modifying the index creation method (*-i* option). If there is no need to re-execute the utility of the abnormally terminated job, specify CLR in the *job* operand and execute.

KFPL17001-E L

Unload file not available for *aa....aa.bb...bb* of RDAREA *cc....cc*, reason=*dd....dd* (system=*ee....ee*, file=*ff....ff*)

The unload data file cannot be used because it is not recent.

aa....aa: Authorization identifier

bb....bb: Table identifier

cc....cc: RDAREA name

dd....dd: Reason (Unload-time: Unload data file creation date)

ee....ee: Date on DB side

ff....ff: Date on unload data file side

S: Terminates processing.

O: Specify a recent unload data file (the last reorganization (*-k rorg*) executed on the applicable table) and re-execute.

KFPL17010-E E+L

Unmatched row count RDAREA=*aa....aa(bb...bb)*, RDAREA=*cc....cc(dd...dd)*

The synchronization point rows counts for a row-partitioned table stored in different RDAREAs do not match.

aa....aa: RDAREA name

bb....bb: Rows count

cc....cc: RDAREA name

dd....dd: Rows count

S: Terminates processing.

O: Take one of the following actions:

- After executing the utility at the level of the RDAREAs that terminated abnormally, re-execute the utility at the table level.
- When re-executing the utility at the RDAREA level is not necessary, specify CLR in the `job` operand.
- When *** is output to the RDAREA, see the KFPL15036-E message output before this message was output.

KFPL20000-E E+L

Internal function (*aa....aa*) error occurred, `code=bbbb`

HiRDB detected an error in the extension of the utility process.

aa....aa: Name of the function where the error was detected

bbbb: Error detail code

S: Terminates processing.

O: See the error detail code to eliminate the cause of the error, and then re-execute the command. For more information about the error detail code, see *4.1 Detail codes for RPC-related errors*, or *4.2 Detail codes for system-related errors*. If an error occurs that operators cannot solve, contact the HiRDB administrator. The table below summarizes the most common causes of the error and the required action:

Detail code	Cause	Action
-307	A timeout occurred.	If processing does not terminate within the utility execution monitoring time specified in the <code>pd_utl_exec_time</code> operand or the <code>option</code> statement's <code>exectime</code> operand, take the action indicated in the KFPL11111-E message.
-310	The communication destination unit or server is not running.	If the unit or server specified in the control statement or on the command line has stopped, have the HiRDB administrator start the unit or server. If the unit or server cannot be started, change the name of the unit or server specified in the control statement or on the command line to the name of a running unit or server.

Detail code	Cause	Action
-314	Communication among processes executed by the utility is unavailable.	<ul style="list-style-type: none"> • If the utility's processes were forcibly terminated by the <code>pdcancel</code> command, ignore this message. • It is possible that messages cannot be output to standard output and the communication buffer is full of messages that cannot be output, so that the messages cannot be received. In this case, enable messages to be output to standard output on the monitor where the command was executed. • If the utility's processes are executing in parallel on multiple servers, or if an error occurred in the processes on a server causing processing to be interrupted, such that there are no processes to receive the statements transmitted from processes that are being processed, take action based on the error message that was output from the first server where an error occurred.
-364	An error occurred on the communication destination server.	If the communication destination process was forcibly terminated due to the reason cited in the error message output before this message, take the action indicated in that message.
-5303	HiRDB did not start normally.	Refer to the error message that was output before this message, investigate the cause of the error, and take corrective action. If necessary, re-execute the command.

Action

If the problem is that the unit or server stopped, restart the unit or server. However, if the problem is that a network error caused a temporary stop, HiRDB may automatically restart. In this case, no restart is necessary. For details on when HiRDB automatically restarts, see the *HiRDB Version 8 System Operation Guide*.

If an error occurs that the HiRDB administrator cannot solve, contact a customer engineer.

KFPL20001-E L

Insufficient memory in message buffer pool due to concurrent execution of `aa...aa`

A temporary memory shortage occurred in the message storage buffer pool for the utility server when `pdload`, `pdrorg` (including `pdreclaim` and `pdpgbfn`), `pdrbal`, or a plug-in-provided command was executed concurrently. The KFPS00854-W message may be output when this error occurs; however, a server error

has not occurred in such a case.

aa....aa: Program name:

```
{ "pload" | "pdrorg" | "pdrbal" | "COMMAND" }
```

S: Terminates processing.

O: Re-execute the command after the current execution of `pload`, `pdrorg`, `pdrbal`, or the plug-in-provided command is completed.

KFPL20003-E L

Unable to send message from *aa....aa* to *bb....bb*

A communication error occurred between servers *aa....aa* and *bb....bb*.

aa....aa: Name of the send source host

bb....bb: Name of the send destination host

S: Terminates processing.

Action

Take action appropriate to the KFPL20000-E or KFPL20100-E message output before this message. If the error was 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.

KFPL20005-E L

Server down detected

Abnormal server termination was detected. Or, processing cannot be resumed because the system was switched.

S: Terminates processing.

O: Correct the cause of the abnormal server termination on the basis of error messages that have already been output and re-execute the command. If system switchover occurred during processing, set the host that executes the command so that it can reference and update files needed for command processing, then re-execute.

KFPL20010-E E

aa....aa error occurred, code=*bbbb*

Connection establishment or release with HiRDB failed.

aa....aa: Processing:

```
{ Connect | Disconnect }
```

bbbb: Error detail code

S: Terminates processing.

O: See *4.2 Detail codes for system-related errors* to eliminate the cause of the error, and re-execute the command.

Note

If this message is displayed during the execution of a plug-in-supplied command, the message is output only to the indicated output device type (L).

KFPL20020-E L

Transaction (*aa....aa*) error occurred, code=*bbbb*

Transaction startup or settlement failed.

aa....aa: Type of transaction:

{ begin|commit|rollback }

bbbb: Error detail code

S: Terminates processing.

O: See *4.2 Detail codes for system-related errors* to eliminate the cause of the error. If commit or rollback processing, other than during `pdrorg` unload processing, caused an error, re-execute the command after restoring the database to the status it was in before the utility was executed. If the error cannot be corrected, contact the HiRDB administrator.

Action

Contact a customer engineer.

KFPL20041-E E+L

Staticizer Option not setup

The `-q` option can only be used when the HiRDB Staticizer Option is embedded.

S: Terminates processing.

Action

Embed the HiRDB Staticizer Option, and then re-execute.

KFPL20050-E E

Invalid host name

This utility cannot be executed with the specified host name.

S: Terminates processing.

O: Correct the host name on the command line or in the control information file and re-execute the command.

KFPL20051-E E

Invalid server name

The server name specified in the control statement or command line is invalid.

S: Terminates processing.

O: Correct the server name specified in the control statement or command line, and then re-execute the command.

KFPL20060-E E+L

Security Audit inactive, status=*aa....aa*, reason=*bbbb*

The security audit facility has stopped, so the history of the utility was not output to the audit trail file.

aa....aa: Run status of the security audit facility

INACTIVE: The security audit facility has stopped.

OTHER: Another error occurred.

bbbb: Error detail code

S: Continues processing.

O: When it is necessary to fetch an audit trail, take one of the following actions according to the run status of the security audit facility:

- INACTIVE: Start the security audit facility.
- OTHER: See the Detail codes for the system-related error. For information on system-related errors, see *4.2 Detail codes for system-related errors*. If an error occurs that programmers cannot solve, contact the HiRDB administrator.

Action

If an error occurs that the HiRDB administrator cannot solve, contact a customer engineer.

KFPL20061-E E+L

Audit trail generation file write error, reason=*aaaaa*

The history of this utility was not output to the audit trail file because an error occurred during output to the audit trail file.

aaaaa: Error detail code

S: Continues processing.

O: When it is necessary to fetch an audit trail during re-execution of the utility, see the error detail code to eliminate the cause of the error. For information on system-related errors, see *4.2 Detail codes for system-related errors*. If an error occurs that programmers cannot solve, contact the HiRDB administrator.

Action

If an error occurs that the HiRDB administrator cannot solve, contact a customer

engineer.

KFPL20090-E L

Unable to output message to *aa...aa*

Messages cannot be output to *aa...aa*.

aa...aa: Output destination

{ stdout|stderr }

S: Resumes processing.

Action

Refer to the message that was output before this message to determine the cause of the error.

KFPL20091-E L

Unable to output information to report file

Information cannot be output to the processing results file.

S: Continues processing.

Action

For the cause and action to be taken, refer to the message that is output immediately before this message.

KFPL20100-E L

Communication (*aa...aa*) error occurred, code=*bbbb*

A communication error occurred.

aa...aa: Type of communication processing

bbbb: Error detail code

S: Terminates processing.

O:

See *4.1 Detail codes for RPC-related errors* and remove the cause of the error, then re-execute the command. If an error occurs that the programmer cannot handle, contact the HiRDB administrator.

If *aa...aa* is `p_f_sqa_rcomb_open` or `p_f_sqa_rcomb_close` and the error detail code is 8, there is insufficient memory. In UNIX, if the error detail code is other than 8, an error occurred in `combuf` communications. If there is insufficient memory, re-estimate the memory. Also, stop any unnecessary processes. In UNIX, if an error occurred in `combuf` communications, refer to the OS documentation to resolve the error.

If one of the following codes is output, the error may not be a communication

error. In that case, take the appropriate action.

-307: If processing does not terminate within the utility execution monitoring time specified in the `pd_utl_exec_time` operand or the `option` statement's `exectime` operand, take the action indicated in the KFPL11111-E message.

-314: Communication among processes executed by the utility is unavailable. Consider the following causes.

(1) If the utility's processes were forcibly terminated by the `pdcancel` command, ignore this message.

(2) It is possible that messages cannot be output to standard output and the communication buffer is full of messages that cannot be output, so that the messages cannot be received. In this case, enable messages to be output to standard output on the monitor where the command was executed.

(3) If the utility's processes are executing in parallel on multiple servers, or if an error occurred in the processes on a server causing processing to be interrupted, such that there are no processes to receive the statements transmitted from processes that are being processed, take action based on the error message that was output from the first server where an error occurred.

-364: If the communication destination process was forcibly terminated due to the reason cited in the error message output before this message, take the action indicated in that message.

Action: If the error cannot be corrected by the HiRDB administrator, contact a customer engineer.

KFPL20200-E L

Database access (*aa....aa*) error occurred, code=*b*

An error occurred before or after the database was referenced or updated.

aa....aa: Processing resulting in the error

b: Error code:

4: Memory shortage

8: I/O error

S: Terminates processing.

O:

If the error code is 4:

Allocate enough memory to the process and re-execute the command.

If the error code is 8:

Refer to the message that is output to standard error or to the message log file,

resolve the error, and then re-execute the command.

KFPL21000-E L

PLUGIN function error occurred, operation=*aa...aa*, code=*bb...bb*,
line=*cc...cc*

An error occurred in a plug-in function.

aa...aa: Operation name

bb...bb: The return code received from the plug-in function

cc...cc: Row number of the data in which the error occurred

S: Terminates processing.

O: Correct the cause of the error by referring to the preceding error message and re-execute the command.

KFPL21111-E L

Unable to make parameter, operation=*aa...aa*, code=*bb...bb*,
line=*cc...cc*

Unable to generate the argument to be passed to the constructor function.

aa...aa: Parameter generation processing type

bb...bb: Return code from the parameter generation function

cc...cc: Line number at which the error occurred

S: Terminates processing.

O:

Correct the cause of the error by referring to the preceding error message and re-execute the command.

When data-loading using a binary-format input data file, if the preceding error message is KFPA11930-E (insufficient memory) and the allocation area size is different from the input parameter size, the problem is an invalid input data file format. In this case, review the input data file.

KFPL21112-E L

ADT operation error, operation=*aa...aa*, code=*bb...bb*

An error occurred during abstract data type operation *aa...aa*.

aa...aa: Operation function name

bb...bb: Operation code

S: Terminates processing.

O: Correct the error by referring to the error message that was output immediately before this message, and re-execute the command. If no error message has been output,

contact a customer engineer.

KFPL22000-E E+L

System call error, func=*aa....aa*, errno=*bbb*

A system call (function) error occurred.

aa....aa: Name of system call (function)

bbb: Error number set in errno

S: Terminates processing.

O:

Check the meaning of the error number (errno: external integer variable indicating the error status), refer to `errno.h` and to the applicable OS manual to eliminate the cause of the error, then re-execute the command.

If `errno = 0`, eliminate the cause of the error by referring to the KFPL22001-E message output before this message, and re-execute the command.

In some cases, messages are not output to standard output device during the execution of a plug-in-supplied command.

KFPL22001-E E+L

aa....aa

Displays information about an error that occurred during a system call. If the OS's system log facility does not support Japanese character codes, messages may not be output correctly to the system log. In such a case, refer to the HiRDB message log.

aa....aa: Error information

S: Terminates processing.

O: Correct the error by referring to the error information, and re-execute the command.

KFPL22222-I E+L

Max row length=*aa....aa*

The maximum row length of the unload data file output in the DAT format is *aa....aa* bytes.

aa....aa: Maximum row length

S: Continues processing.

O: If the output unload data file will be the input to `pdload` and the maximum row length displayed in this message is 32 kilobytes or more, specify the maximum row length in the `maxreclen` operand of the source statement.

KFPL22223-I L

Delete row count=*aa....aa*, table=*bb....bb*. "*cc....cc*", file=*dd....dd*

aa...aa rows were not output to the unload data file because a UOC issued a deletion request during the unload processing of table *bb...bb*. "*cc...cc*".

aa...aa: The number of rows for which a deletion request was issued

bb...bb: Authorization identifier

cc...cc: Table identifier

dd...dd: Unload data file name

If the name of the unload data file exceeds 101 characters, the last 101 characters of the unload data file name are output.

S: Continues processing.

KFPL23000-E L

Error occurred on server=*aa...aa*

An error occurred at the server.

aa...aa: Server name

S: Terminates processing.

O: Refer to the error message that was output immediately before this message to eliminate the cause of the error, and re-execute the command. If the processing is being executed in the no-log mode, re-execute after restoring the database to the status it was in before the utility was executed.

KFPL23001-E L

Server *aa...aa* not running

A server is not active.

aa...aa: Server name

S: Terminates processing.

O: Activate the server indicated in the message and re-execute the command.

KFPL23100-E E+L

HiRDB file *aa...aa* error, errno=*bb...bb*, HiRDB file name=*cc...cc*

A HiRDB file access error occurred.

aa...aa: HiRDB file function:

close: HiRDB file close processing

open: HiRDB file open processing

read: HiRDB file read processing

write: HiRDB file write processing

reopen: Opening of HiRDB file or the second or subsequent volume of a

multivolume file

bb...bb: HiRDB system error code

cc...cc: Name of the HiRDB file

If the length of the HiRDB file name exceeds 150 characters, the last 150 characters of the HiRDB file name are output.

S: Terminates processing.

Action

See *5.1 Error codes returned from HiRDB file system access requests* to eliminate the cause of the error.

KFPL23201-W L

Skip load process, audit trail *aa...aa* file
status=(*b, c, d*), file=*ee...ee*

Data loading was stopped because the status of the specified audit trail file was not appropriate. This message is output to each audit trail file. When there are multiple applicable files, this message only outputs the number of those files.

aa...aa: Generation

b: c (current) or s (not current)

c: d (waiting for data loading) or - (data loading is complete)

d: h (currently on hold) or - (not currently on hold)

ee...ee: Audit trail file name displayed by the absolute path name

If the length of the file name exceeds 144 characters, the last 144 characters of the file name are output.

S: Continues processing when there is another audit trail file that can load data (RC=0). Otherwise, terminates processing (RC=8).

Action

Check the status of the specified audit trail file. If the name of the audit trail file is incorrect, correct it and re-execute. If the specified audit trail file completely loaded data, check if you have to load data, and then forcibly load the data if necessary.

KFPL23202-E E+L

Error occurred at change audit trail *aa...aa* file status,
file=*bb...bb*, reason=*cccc*

The data loaded status of the audit trail file cannot be changed.

aa...aa: Generation

bb...bb: Audit trail file name displayed by the absolute path name

If the length of the file name exceeds 128 characters, the last 128 characters of the file name are output.

cccc: Error code

S: Terminates processing.

Action

The data from the specified audit trail file has already been registered to the audit trail table. If an error occurs and this audit trail file is again loaded with data, the data is duplicated, therefore deletion of data using the `pdaudrm -f` command is recommended. To understand why the status of the audit trail file could not be changed, see the error detail code on the message that was output, and remove the cause of the error. For details on error detail codes, see *4. Error Detail Codes*.

KFPL23203-E E+L

Table *aa...aa.bb...bb cc...cc* table

Table *aa...aa.bb...bb* specified an audit trail data registration UOC even though it is not an audit trail table. Or, this table did not specify an audit trail data registration UOC even though it is an audit trail table.

aa...aa: Authorization identifier

bb...bb: Table identifier

cc...cc: Table type

- `not audit`: Non-audit trail table
- `audit`: Audit trail table

S: Terminates processing.

Action

Specify an audit trail data registration UOC for audit trail tables, and then re-execute the command without specifying an audit trail data registration UOC for non-audit trail tables.

KFPL23500-E L

RDAREA *aa...aa bb...bb*

RDAREA is in hold status (error shutdown, logless shutdown, reference-possible backup hold, or updatable backup hold), close status, frozen update status, or online reorganization hold status.

aa...aa: RDAREA name

bb...bb: Status of the RDAREA

held: Held

closed: Closed

frozen: Frozen

ORG: Online reorganization hold

S: Terminates processing.

O:

Other than online reorganization hold

- RDAREA opening attribute set to INITIAL

Place the RDAREA in open, shutdown release, command shutdown, referable shutdown, or frozen update release status and then re-execute the command.

- RDAREA opening attribute set to DEFER or SCHEDULE

Release the RDAREA from shutdown status, place it in referencing-permitted shutdown status or frozen update release status, and then re-execute the command.

Online reorganization hold

Release online reorganization hold and re-execute the command.

KFPL24000-E E

Unable to specify configuration file

A column structure information file cannot be specified using a binary-format input data file.

S: Terminates processing.

O: Match the attribute of the input data column of the binary-format input data file with the attribute of the column data of the table so that a column structure information file need not be specified, then re-execute the command.

KFPL24001-E E

Unable to specify null-information file

A null value information file cannot be specified using a binary-format input data file.

S: Terminates processing.

O: Specify the null value to input the DAT-format input data file, delete the null value information file, then re-execute the command.

KFPL24100-E E+L

Unable to convert data, column=*aa....aa*

The input data file specified in the column structure information file cannot be changed

to the data type of table column *aa....aa*.

aa....aa: Column name

S: Terminates processing.

O: If the data type specification in the column structure information file is invalid, correct it and re-execute the command.

KFPL24150-E E

No *aa....aa* on table

Neither table nor index was defined, but an index information file or work directory for sorting was specified. Or, LOB was not defined in the table, but information about a LOB input file or LOB middle file was specified.

aa....aa: One of the following:

index: Index information

LOB: LOB column

S: Terminates processing.

O: Delete unnecessary information from the control information file. Or, check the name of the table subject to processing for an error and re-execute the command.

KFPL24151-E E

Cannot omit *aa....aa* name

Name *aa....aa* cannot be omitted for a file for a table partitioned by values.

aa....aa: Missing name:

RDAREA: RDAREA name

server: Server name

S: Terminates processing.

O: Specify the name of the RDAREA or server that is to use the file or directory and re-execute the command.

KFPL24152-E E+L

Index *aa....aa* not found, table=*bb....bb.cc....cc*

Index *aa....aa* has not been defined for table *bb....bb.cc....cc*.

aa....aa: Index identifier (when name=* is specified in the idxname statement, *** is output when there is no target index in the table)

bb....bb: Authorization identifier

cc....cc: Table identifier

S: Terminates processing.

O: Correct the index name specified in the control information file and re-execute the command. When *** is output to the index identifier, check if an index exists in the table.

KFPL24153-E E

Index *aa...aa* not found in RDAREA *bb...bb*

Index *aa...aa* was not found in RDAREA *bb...bb*.

aa...aa: Index identifier

bb...bb: RDAREA name

S: Terminates processing.

O: Correct the RDAREA name specified in the control information file and re-execute the command.

KFPL24154-E E

Unnecessary *aa...aa* directory specified

A work file for index information or sorting was specified for a server for which no index has been defined.

aa...aa: Type of directory{ { index|sort work } }

S: Terminates processing.

O: Correct the server name for the directory specified in the control information file and re-execute the command.

KFPL24155-E E

Function *aa...aa*.*bb...bb* not found, column="*cc...cc*"

The function "*bb...bb*" cannot be found in the abstract data type of the column "*cc...cc*". Following are the possible causes of this problem:

- The function specified in the column structure file (with the same name and parameter) is not defined.
- The return value of the function specified in the column structure file is not the abstract data type of the column.

aa...aa: Authorization identifier

bb...bb: Function name

cc...cc: Column name

S: Terminates processing.

O: Specify the correct function information specified in the column structure file and re-execute the command.

KFPL24156-E E

Required function not specified

The constructor function necessary for generating a value to be stored in a column of the abstract data type is not specified. Or, the constructor parameter reverse generation function for reverse-generating a data value of the abstract data type is not specified. Following are possible causes of this problem:

- The indicated function is not one in which a constructor function is plug-in-implemented.
- If a column structure information file was omitted, either a function with the same name as the data type name is not defined as an abstract data type, or multiple functions with the same name are defined.
- A column of abstract data type for which a function is not defined has been found.
- `unld_func` statement is not specified in the control information file.

S: Terminates processing.

O:

Specify in the column structure information file a plug-in-implemented constructor function that generates the values to be stored in a column of the abstract data type, and then re-execute the command.

Alternatively, specify a constructor parameter reverse generation function that reverse generates abstract data type data values to the control information file, and then re-execute the command.

KFPL24157-E E

Function *aa...aa.bb...bb* not found, type=*cc...cc*, "*dd...dd*", kind=*ee...ee*

Function "*bb...bb*" specified by *ee...ee* is not defined in abstract data type "*dd...dd*".

aa...aa: Authorization identifier of the function

bb...bb: Function name

cc...cc: Authorization identifier of the abstract data type

dd...dd: Abstract data type name

ee...ee: Type:

{ `unld_func|reld_func` }

S: Terminates processing.

O: Specify the correct function by referring to the manual for the applicable plug-in of the abstract data type, and re-execute.

KFPL24158-E E

Specified type not found in this table, type=*aa...aa.bb...bb*

Abstract data type *aa....aa*. "*bb....bb*" specified by the `type` operand of the `unld_func` statement in the control information file is not defined in this table.

aa....aa: Authorization identifier of the abstract data type

bb....bb: Abstract data type name

S: Terminates processing.

O: Specify an abstract data type name defined in the table and re-execute.

KFPL24159-E E

Function_row missing in Control file, column="*aa....aa*"

An `unld_func` statement corresponding to the abstract data type defined in column "*aa....aa*" is not specified in the control information file.

aa....aa: Column name

S: Terminates processing.

O: Specify a constructor parameter reverse generation function in the `unld_func` statement in the control information file by referring to the manual for the plug-in that provides the abstract data type defined in the applicable column, and re-execute. If the constructor parameter reverse generation function is not implemented by the plug-in or if the `-j` option is specified, delete this option and re-execute.

KFPL24500-E E+L

Unable to continue pdload because of invalid *aa....aa* length, line=*bb....bb*

A negative value was detected in the length section for the length of variable-length data in the binary-format input data file or in an effective element count for a repetition column. Or, the length of the input data exceeded the area reserved by `maxreclen`.

aa....aa: Data type

{ VARCHAR | NVARCHAR | MVARCHAR | BINARY | BLOB | ARRAY }

bb....bb: Line number

S: Terminates processing.

O:

Determine whether an invalid length is specified in the length section for the length of variable-length data or in the effective element count storage area for a repetition column. Also determine whether there is an error in column data in the binary-format input file. If an error is found, correct the contents of the file and then re-execute the command.

Or, if the length of the input data is greater than the value specified by `maxreclen`, check the maximum length of the input data, specify a value greater than the maximum length in `maxreclen`, and then re-execute.

KFPL24509-E L

Insert error occurred, line=*aa....aa*

An error occurred during data storage processing for line *aa....aa*.

aa....aa: Line number

S: Terminates processing.

O: Correct the cause of the error by referring to the preceding error message and re-execute the command.

Note when re-executing:

If the KFPL15225-E message (rollback) is output concurrently with this message, re-execute from the first row. If the KFPL15225-E message is not output, specify the *-r* option, and then re-execute from the row output to this message.

KFPL24510-E L

Error data detected, process stopped, error code=*aa*

An error was detected in the input data during execution of the *pdload* utility. Processing is terminated.

aa: Logical error number

For logical error numbers and their descriptions, see the *HiRDB Version 8 Command Reference*.

S: Terminates processing.

O:

Data loading:

Correct the data in the row number indicated in the KFPL24509-E message that was displayed together with this message.

If a KFPL15225-E message is displayed, all database storage processing is cancelled (rolled back). Therefore, the command is re-executed to store data from the beginning of the input file. If this command was executed in the logless mode, the database needs to be restored from its backup.

If a KFPL15225-E message is not displayed, the storage of the data immediately preceding the error was completed (committed); therefore, the command is re-executed to store the data at and following the revised data (by using the *-r* option).

File partitioning (creation of the partitioning input data file):

See the error message output to the error information file, correct the relevant data, and re-execute the command.

KFPL24990-E E

Only one *aa...aa* can be specified in Control file
aa...aa can be specified only once in a control information file.

aa...aa: Type:

source_row: source statement row
 mtguide_row: mtguide statement row
 emtdef_row: emtdef statement row
 input_file: Input file
 unload_file: Unload file
 tblname_row: tblname row
 lobmid_row: lobmid statement row
 lobdata_row: lobdata statement row
 idxname_row: idxname statement row
 array_row: array statement row
 option_row: option statement row
 report_row: report statement row
 blobtovarchar_row: blobtovarchar statement row
 execstop_row: execstop statement row
 extdat_row: extdat statement row
 src_work_row: src_work statement row
 fixtext_option_row: fixtext_option statement row
 constraint_row: constraint statement row

S: Terminates processing.

O: Take one of the following actions, as appropriate to the displayed type:

- If source_row, mtguide_row, emtdef_row, lobmid_row, lob_data_row, array_row, or blobtovarchar_row is displayed:
 Change the source row, mtguide row, emtdef row, lobmid row, lobdata row, array row, or blobtovarchar row in the control information file to one row each, and then re-execute the command.
- If input_file is displayed:
 When specifying EasyMT information, specify only one input data file, and

then re-execute the command.

- If `unload_file` is displayed:
When specifying EasyMT information, specify only one unload data file, and then re-execute the command.
- If `idxname_row` is displayed:
Delete all `idxname` statements except in rows in which (*) is specified in the name operand, and re-execute the command.
- If `tblname_row` or `fixtext_option_row` is displayed:
Specify one `tblname` or `fixtext_option` statement and re-execute the command.
- If `option_row`, `report_row`, `execstop_row`, `extdat_row`, `src_work_row`, or `constraint_row` is displayed:
Specify one `option`, `report`, `execstop`, `extdat`, `src_work`, or `constraint_row` statement in the control information file and re-execute the command.

KFPL24991-E E

Specified `aa...aa` conflicted with command line specification

Information specified in the control information file contradicts the information specified on the command line, as shown below:

Database load utility:

- `-f easymt` was not specified on the command line, but EasyMT information or the `validate` operand was specified in the control statement.
- `-f easymt` was specified on the command line, but file input by a UOC was specified in the control statement.
- `-k c` was not specified on the command line, but the `lobcolumn` statement was specified.
- The `vv` option was specified in the type option of the array statement for control statements even when a fixed-length data-format file was specified.
- The `fv` option was specified in the type option of the array statement for control statements even when a DAT format file was specified.
- The `srcuoc` statement was specified in the control statement even when `-k d` was specified on the command line.
- The `job` operand was specified in the `option` statement in the control statement even when `-l n`, `-k f`, `-k v`, or `-k c` was specified on the

command line.

- `nowait=yes` was specified in the `option` statement when the `-n` option or `-I s` was not specified on the command line.
- The `extdat` statement was specified even though no DAT format file was specified.
- The `null_string` operand was specified in the `option` statement even though no DAT format file was specified.
- The `enclose_del` operand was specified in the `option` statement for an input data file that is not in the fixed-size data format.
- Although the `-b` option was specified on the command line, the `src_work` statement was specified (if a binary format input data file, the partitioning input data file cannot be created).

Database reorganization utility:

- `-f easymt` was not specified on the command line, but EasyMT information was specified in the control statement.
- `-f hirdb` was not specified on the command line, but the HiRDB file information was specified in the control statement.
- `-k reld` was specified on the command line, but `fileno=ADD` was specified in the control statement.
- `-k reld -c dic` was specified on the command line, but the `tblname` control statement was specified.
- `-k reld` was specified on the command line, but the `lobunld` and `tblname` control statements were specified.
- The `idxname` statement was specified in the control statement even when `-k ixrc` was not specified on the command line.
- The `job` operand was specified in the `option` statement in the control statement even when `-l n`, `-k unld`, `-k ixrc`, `-k ixor`, `-k ixmk`, `-c dic`, or `-t all` (reorganization by schema) was specified on the command line.
- The `lobunld` statement was specified even though the `-j` option was specified in the command line.
- Although `-W extdat` was specified on the command line, multiple unload file names were specified in the `unload` statement.
- The `unldenq` operand is specified in the option statement, but `-k unld` is not specified in the command line.

Free page release utility or global buffer residence utility:

- The `idxname` statement cannot be specified when the target resource is a table, when processing a dictionary table, or when processing at the schema level.

aa...aa: Type:

`array_row`: array statement
`easymt_information`: EasyMT information
`emtdef_row`: emtdef statement
`extdat_row`: extdat statement
`fileno`: File sequence number
`hirdb_information`: HiRDB file information
`idxname_row`: idxname statement
`lobcolumn_row`: lobcolumn statement
`lobunld_row`: lobunld statement
`option_row(enclose_del)`: option statement `enclose_del` operand
`option_row(job)`: option statement `job` operand
`option_row(nowait)`: option statement `nowait` operand
`option_row(null_string)`: `null_string` operand in the option statement
`option_row(tblstatus)`: `tblstatus` operand in the option statement
`option_row(unldenq)`: option statement `unldenq` operand
`src_work_row`: `src_work` statement
`srcuoc_row`: `srcuoc` statement
`tblname_row`: `tblname` statement
`unload_row`: unload statement

S: Terminates processing.

O:

aa...aa is `array_row`:

Specify either `ff` or `fv` if the input data file is a fixed-length data format file and re-execute the command. Or specify either `ff` or `vv` if the input data file is a DAT format file and re-execute the command.

aa...aa is `easymt_information` or `emtdef_row`:

- EasyMT used:
Add the `-f easymt` specification to the command line and re-execute the command.
- EasyMT not used:
Delete the EasyMT information from the source row, the `validate` operand, or the `emtdef` row from the control information file and re-execute the command.

aa....aa is `extdat_row`:

The `extdat` statement is valid only for DAT format files, so when processing fixed-size data format or binary format files, delete the `extdat` statement, and then re-execute.

aa....aa is `fileno`:

For `-k reld` specified, correct the specification of `fileno=ADD` and re-execute the command.

aa....aa is `hirdb_information`:

To use a HiRDB file system as the unload file, specify `-f hirdb` on the command line and re-execute the command. Otherwise, delete the HiRDB file information from the control file and re-execute the command.

aa....aa is `idxname_row`:

- For the database reorganization utility:
To re-create indexes by index, specify `-k ixrc` and re-execute the command.
- For the free page release utility or global buffer residence utility:

Specify the `idxname` statement when releasing a specific index, an RDAREA, or free pages on which only a server is using an index; or when reading data into the global buffer.

aa....aa is `lobcolumn_row`:

To use a LOB column input file, specify `-k c` on the command line and re-execute the command. Otherwise, delete the `lobcolumn` statement from the control file and re-execute the command.

aa....aa is `lobunld_row`:

Delete the `lobunld` statement, and then re-execute.

aa....aa is `option_row(enclose_del)`:

Specify the `-a` option when the input data file is a fixed-size data format file. For

input data files in other formats, delete the `enclose_del` operand.

aa...aa is `option_row(job)`:

- For `pdload`

When the `job` operand is specified in the `option` statement, re-execute the command without specifying `-l n`, `-k f`, `-k v`, or `-k c`.

- For `pdrorg`

When the `job` operand is specified in the `option` statement, re-execute the command without specifying `-l n`, `-k unld`, `-k ixrc`, `-k ixor`, `-k ixmk`, or `-c dic`.

aa...aa is `option_row(nowait)`:

To execute a `NOWAIT` search concurrently with `pdload`, omit the `-n` option or specify `-i s`. If the `NOWAIT` search is not to be executed concurrently with `pdload`, specify `nowait=no` in the `option` statement.

aa...aa is `option_row(null_string)`:

When the `null_string` operand is specified using the `option` statement, it is valid only when in the `DAT` format. For the binary format or fixed-size data format, delete the `null_string` operand of the `option` statement.

aa...aa is `option_row(tblstatus)`:

The `tblstatus` operand in the `option` statement can be specified only with `-k rorg`. Therefore, either delete the `tblstatus` operand or change to `-k rorg`.

If *aa...aa* is `option_row(unldeng)`:

The `unldeng` operand of the `option` statement can be specified only with `-k unld`. Therefore, either delete the `unldeng` operand or change it to `-k unld`.

aa...aa is `src_work_row`:

If the input data file is composed of all columns in fixed length binary format, it is handled as a fixed length data format input data file, and a partitioning input data file can be created. If there are also variable length columns, consider either performing data loading in table units or partitioning the input data file.

aa...aa is `srcuoc_row`:

When `-k d` is specified, change so that the UOC is not used.

aa...aa is `tblname_row`:

A dictionary table or a table in which a LOB column is defined cannot be reloaded to another table. Check the option on the command line or the `tblname` statement, correct it, then re-execute the command.

aa...aa is unload_row:

If *extdat* is specified in the *-w* option, specify a single unload file name and re-execute.

KFPL24992-E E

Specified *aa...aa* conflicted with Control file specification

One of the following contradictions was found in the control information file:

- This is a multivolume file, but *Mtguide* is not to be used according to the specified information.
- The *mtguide* or *emtdef* statement is not specified at the beginning of the control information file.
- A control statement not necessary for creating a LOB column only is specified.
- A UOC is declared, but the *srcuoc* or *source* statement is missing.
- Processing in units of tables is specified for a table containing a LOB column, but an attempt was made to process the LOB column in units of RDAREAs.
- A control statement is specified that is not needed for creation of the LOB column structure base table only. Or, a control statement needed for LOB creation is missing.
- Because the input data file is a binary-format file, the specification of the array data format for a column of variable-length data type is invalid.
- An *idxname* and an *index* statement are both specified.
- An *unld_func* or *reld_func* statement is specified for an abstract data type with the LOB attribute even when the *-j* option is not specified.
- The *unld_func* and *reld_func* statements are not specified as a pair even when *-k rorg* is specified.
- The *job* operand of the *option* statement is specified at the same time as the *lobunld* statement.
- An RDAREA name is specified in the *source* statement even when *nowait=yes* is specified in the *option* statement.
- The *lobunld* statement was not specified when using a UOC (when the *unld_uoc* statement is specified).
- (UOC) was specified in the *unload* statement when using a UOC (when the *unld_uoc* statement is not specified).
- (*uoc*) or UOC information was specified in the *unload* statement when not using a UOC (when *unld_uoc* statement is not specified).
- HiRDB information or EasyMT information was specified when (*uoc*) is

specified in the `unload` statement.

- `Y` was specified in the `fixrow` operand in the `unld_uoc` statement for a non-FIX table.
- When creating the partitioning input data file (when the `src_work` statement is specified), the RDAREA name or the `report` statement is specified in the source statement. Or, the source statement is not specified.

aa...aa: Conflicting contents:

`multi_volume`: Volume names

`mtguide_row`: `mtguide` statement

`emtdef_row`: `emtdef` statement

`srcuoc_row`: `srcuoc` statement

`idxwork_row`: `idxwork` statement

`index_row`: `index` statement

`sort_row`: `sort` statement

`lobmid_row`: `lobmid` statement

`source_row`: `source` statement

`lobcolumn_row`: `lobcolumn` statement

`array_row`: `array` statement

`idxname_row`: `idxname` statement

`func`: `unld_func` or `reld_func` statement

`option_row(job)`: `option` statement `job` operand

`option_row(nowait)`: `option` statement `nowait` operand

`lobunld_row`: `lobunld` statement

`unload_row(hirdb)`: HiRDB information in the `unload` statement

`unload_row(EASYMT)`: EasyMT information in the `unload` statement

`unld_uoc_row`: `fixrow` in the `unld_uoc` statement

`lobunld_row(uoc)`: (uoc) or UOC information in the `unload` statement

`src_work_row`: `src_work` statement

S: Terminates processing.

O: Take action appropriate to the displayed information and re-execute the command:

`multi_volume`:

To specify a multivolume, specify `mtguide use`.

`mtguide_row` or `emtdef_row`:

Specify the `mtguide` or `emtdef` statement after the source or unload statement.

`srcuoc_row`:

Specify the `source` statement or delete the `srcuoc` statement.

`lobmid_row`:

Delete the RDAREA name in the `lobmid` statement. Or, add the RDAREA name in the `source` statement.

`source_row`:

Specify the `srcuoc` statement. Alternatively, specify the file name in the `source` statement.

`lobcolumn_row`:

To create only a LOB column structure base table, delete the `lobcolumn` statement.

To create LOB data, add the `lobdata` statement.

`array_row`:

Revise the specification of the array data format.

`idxname_row`:

To re-create indexes by index-storage RDAREA, delete the `idxname` statement. To re-create indexes by index, delete the `index` statement.

In the case of `pdreclaim` and `pdpgbfon`, either limit operands to the name operand or avoid mixing an `idxname` statement that has a server operand specification with an `idxname` statement that has an `rdarea` operand specification.

`func`:

If the `unld_func` and `reld_func` statements are not specified as a pair in `-k rorg`, specify them as a pair.

To specify an `unld_func` or `reld_func` statement for an abstract data type with the LOB attribute, specify the `-j` option concurrently.

`option_row(job)`:

To perform data loading or reloading with synchronization point setting specified, delete the `lobunld` statement.

`option_row(nowait):`

To execute a `NOWAIT` search concurrently with `pdload`, do not specify an `RDAREA` name in the `source` statement. If the `NOWAIT` search is not to be executed concurrently with `pdload`, specify `nowait=no` in the `option` statement.

`lobunld_row:`

When using `UOC` (when specifying the `unlduoc` statement), the `lobunld` statement cannot be specified, so delete it.

`unload_row(uoc):`

When not using `UOC` (when not specifying the `unlduoc` statement), delete the `unload` statement (`uoc`) or the `UOC` information.

`lobunld_row(hirdb):`

Delete the `HiRDB` information.

`lobunld_row(ESAYMT):`

Delete the `EasyMT` specification.

`unld_uoc_row(fixrow):`

Delete the `fixrow` specification.

`src_work_row:`

Delete the `RDAREA` name specification or the `report` statement from the `source` statement. Also, if the `source` statement is not specified, specify the `source` statement.

Other:

Delete all the control statements that are not related to `LOB` creation.

KFPL24993-E E

Invalid absolute pathname, file=*aa....aa*

The absolute path of file *aa....aa* exceeded the permitted maximum length of 1,023. This error may occur in the following cases:

- The length of the absolute path exceeded the maximum value of 1,023, including the directory name for the `LOB` input file specified in the `lobdata` statement and the name of the `LOB` column input file specified in the `lobcolumn` statement in the control information file.
- The absolute path of the `LOB` column input file specified in the `lobcolumn` statement of the control information file exceeded the maximum length of 1,023.

aa....aa: Name of `LOB` column input file specified in `lobcolumn` statement

If the length of the LOB input file name exceeds 150 characters, the last 150 characters of the LOB input file name are output.

S: Terminates processing.

O: Check the control information file for the directory name for the LOB input file specified in the `lobdata` statement and the name of the LOB column input file specified in the `lobcolumn` statement and correct any error. If the specified information is correct, move the LOB column input file to a location where the absolute path length does not exceed 1023, specify that absolute path in the control statement, then re-execute the command.

KFPL24999-E E

aa...aa invalid

The specified `-u` option value or the authorization identifier or password specified in an environment variable was invalid during utility execution. Or, the password entered as a response to an input request message was invalid.

aa...aa: Information resulting in the error:

Auth_id: Authorization identifier

Password: Password

S: Terminates processing.

O:

Auth_id displayed:

Check the `-u` option on the command line, or correct the `PDUSER` environment variable and re-execute the command.

Password displayed:

Correct the `PDUSER` environment variable and re-execute the command. Or, if the password was entered in response to the input request message, re-execute the command by entering the correct password.

Note on specifying an authorization identifier or a password (Windows version only):

When omitting the `-u` option, make sure the character string specifying an authorization identifier or password in the command prompt is not enclosed in single quotation marks (`'`).

Example of correct specification: `-u "root"/"root"`

When specifying an authorization identifier or password in a client environment definition (`hirdb.ini`), enclose it in single quotation marks (`'`).

Example of correct specification: `PDUSER=' "root"/"root" '`

KFPL25000-E E

Invalid format exists in command line

The format of the command line is invalid for the utility.

S: Terminates processing.

O: Correct the command line and re-execute the command.

KFPL25001-E E

Invalid attribute exists in command line

An invalid value for the utility was specified on the command line. This message is also displayed when an identifier that uses national characters is specified while the LANG environment variable is not set correctly.

S: Terminates processing.

O: Take one of the following actions:

UNIX version:

- Correct the command line and re-execute the command
- Use character codes of the type specified in the LANG environment variable in `pdsetup` and re-execute the command.

Windows version:

- Revise the command line, and re-execute the command.
- Change the value of the LANG environment variable to a Shift JIS kanji code (`sjis`), and then re-execute the command.

KFPL25002-E E

Inconsistent specification in command line

Mutually exclusive options were specified on the command line for the utility.

S: Terminates processing.

O: Correct the command line and re-execute the command.

KFPL25003-E E

Mandatory specification missing in command line

A required option was omitted from the command line for the utility.

S: Terminates processing.

O: Specify the required information on the command line and re-execute the command.

KFPL25004-E E

Invalid format exists in Control file, line=*aa....aa*

The format of line *aa....aa* in the control information file for the utility is invalid.

aa....aa: Line number of erroneous line

S: Terminates processing.

O: Correct the indicated line in the control information file and re-execute the command.

KFPL25005-E E

Invalid attribute exists in Control file, line=*aa....aa*

An invalid value was specified on line *aa....aa* in the control information file for the utility.

aa....aa: Line number of line containing invalid value

S: Terminates processing.

O: Correct the indicated line in the control information file and re-execute the command.

KFPL25006-E E

Mandatory specification missing in Control file, line=*aa....aa*

A required item was omitted from line *aa....aa* in the control information file for the utility.

aa....aa: Line number of erroneous line

S: Terminates processing.

O: Specify the required item on the indicated line in the control information file and re-execute the command.

KFPL25007-E E

Duplicate attribute *aa....aa* exists in Control file

aa....aa was duplicated in the control information file for the utility.

aa....aa: Duplicated information in the control information file

S: Terminates processing.

O: Correct the duplicated information in the control information file and re-execute the command.

KFPL25009-E E

Mandatory specification does not exist in Control file

A control statement required in a control information file for the database load utility (pdload) was not specified.

- The source statement was not specified when data was loaded.
- During LOB loading, either the lobmid or the lobdata statement was not

specified.

S: Terminates processing.

O: In the control information file, specify the source, lobmid, or lobdata statement, and then re-execute the command.

KFPL25010-E E+L

HiRDB Dataextractor interface error occurred, code=*aa*,
file=*bb...bb* [, contents='*cc...cc*' x]

An interface error occurred between the HiRDB Dataextractor or DataStage and the database load utility (pdload). [, contents='*cc...cc*' x] is output when *aa* is 2.

aa: Maintenance code

1:

The file specified by the file operand in the `extractorinf` clause is not a pipe file.

2:

The content of the file specified by the `file` operand in the `extractorinf` clause is not COMPLETED (an error may also occur when there is a newline or other character after COMPLETED).

bb...bb: Maintenance information 1

This is the file name specified by the `file` operand in the `extractorinf` clause.

If the length of the file name exceeds 110 characters, the last 110 characters of the file name are output.

cc...cc: Maintenance information 2

This is the content (displayed in hexadecimal numbers) of the file specified by the file operand in the `extractorinf` clause. x is displayed when nothing is specified to the file.

S: Terminates processing.

O:

When an error occurs in the HiRDB Dataextractor or DataStage:

See the message output by HiRDB Dataextractor or DataStage, and then take appropriate action.

When HiRDB Dataextractor or DataStage was cancelled:

Ignore this message.

Other:

Contact a customer engineer.

KFPL25011-E E

Invalid option specified in command line, option=*aa*

Invalid option *aa* is specified in the command line of a utility.

aa: Option name

If more than one invalid option is specified in the command line of a utility, the first invalid option is displayed.

S: Terminates processing.

O: Delete option *aa* or specify a valid option, and then re-execute the command.

KFPL25012-E E

Invalid option value specified in command line, option=*aa*

The value of option *aa*, specified in the command line of a utility, is invalid.

aa: Option name

S: Terminates processing.

O: Revise the value specified in option *aa*, and then re-execute the command.

KFPL25013-E E

Inconsistent specification in command line, option=*aa*, *bb*

The command line for a utility to be executed contains mutually exclusive options *aa* and *bb*.

aa: Option name

bb: Option name

S: Terminates processing.

O: Delete either option *aa* or option *bb*, and then re-execute the command.

KFPL25040-E L

Cannot allocate communication buffer, size=*aaaaa*, code=*b*

Communication buffer cannot be allocated.

aaaaa: Communication buffer size to be allocated

b: Reason code:

4: Area shortage

8: Protocol error

S: Terminates processing.

O: Take the following action:

UNIX version:

Wait until another process using a large amount of the user space terminates and re-execute the command.

If row partitioning among servers is performed and commands are executed by table, consider whether commands can be executed by RDAREA instead. The necessary buffer size is reduced to the reciprocal of the number of servers.

Windows version:

Wait until another process using a large amount of the user space terminates and re-execute the command.

If commands are executed by table, consider whether commands can be executed by RDAREA instead. The necessary buffer size is reduced to the reciprocal of the number of servers.

Action

Reduce the value of `pd_utl_buff_size` (length of communication buffer for utility) in the system common definition.

KFPL25100-E E

Column name missing in configuration file

Column name missing in configuration file. No column name with NOT NULL attribute has been specified in the column structure information file. Or, no column name has been specified.

S: Terminates processing.

O: Specify the required column names in the column structure information file and re-execute the command.

KFPL25101-E E

Invalid format existed in dataload file

The format of an input data file is invalid.

S: Terminates processing.

O: Correct the information in the input data file and re-execute the command.

KFPL25102-E E

Invalid attribute in configuration/null-information file,
line=aaaaa

The column structure information file or null value information file contains erroneous information.

aaaaa: Row number where erroneous information was detected

S: Terminates processing.

O: Correct the information in the column structure information file or null value information file and re-execute the command.

KFPL25200-E L

Unable to get utility definition

The system common definition could not be read, so default values were assumed for the environment.

S: Resumes processing.

Action

Check the contents of the system common definition file the next time the default values are changed for the utility execution environment.

KFPL25210-E L

aa....aa must be executed at unit defined as manager

aa....aa should be executed at the unit where the system manager is defined.

aa....aa: Utility or command for which execution was attempted

pdload: Database Load Utility

pdrorg: Database reorganization utility (including pdreolaim and pdpgbfon)

COMMAND: Plug-in-supplied command

pdrbal: Rebalancing utility

S: Terminates processing.

O: Log in the remote unit where the system manager (MGR) is defined and re-execute the command.

KFPL25211-E E

Cannot specify input file at manager

The server specified for an input data file was not any of the following:

- Front-end server
- Back-end server
- Dictionary server

S: Terminates processing.

O: Change the location of the input data file and re-execute the command.

KFPL25212-E L

Default value length too long, column="*aa....aa*"

Because the column name statement in the column structure information file was

omitted, the default was specified for storage in column "*aa....aa*", but the default could not be stored because the default is longer than the applicable column.

aa....aa: Column name

S: Terminates processing.

O: Either specify the column name statement of the column structure information file or change the length of the applicable column in the table definition so the default can be stored, and then re-execute.

KFPL25213-E E+L

Unable to execute *aa....aa* command due to check pending status, table=*bb....bb*. "*cc....cc*"

Utility *aa....aa* cannot be executed because table *bb....bb*. "*cc....cc*" is in check pending status.

aa....aa: Utility name

bb....bb: Authorization identifier

cc....cc: Table identifier

S: Terminates processing.

Action: Execute the integrity check utility to confirm that there is no row data with a constraint violation. After the check pending status of the table is released, re-execute the utility.

KFPL25222-W L

Unable to output *aa....aa* file, reason=*bb....bb*

An input data error was detected. However, data cannot be output to the error information file or the partitioning input data file for the reasons indicated in *bb....bb*.

Regardless of how many times data could not be output to the error data file or the partitioning input data file, the message is output only once.

aa....aa: File type

error data: Error data file

error information: Error information file

divided: Partitioning input data file

bb....bb: Reason code

ROW LENGTH:

The row length of the error data exceeds 32 KB or it exceeds the value specified in the `maxreclen` operand of the `source` statement.

UNIQUE_ERROR:

Although a duplicate key value error was detected in the index for which unique key or primary key was specified, a shortage of error data file edit buffers occurred.

PLUGIN_ERROR:

Although an error was detected by a plug-in supplied function, an error data file edit buffer shortage occurred.

INSUFFICIENT MEMORY:

The area for editing the dump image list to be output to the error information file could not be allocated due to a memory shortage.

S: Resumes processing.

O:

Error data file:

Although some data was output to the error information file, other data was not output to the error data file. Therefore, search the relevant data not from the error data file but from the input data file, and correct it.

If the buffer size is insufficient, for the next data loading, specify a sufficiently large error data file edit buffer size in the `errwork` operand. Even if the error is detected, the data is output to the error data file.

Error information file:

Because a dump image list is not output to the error information file, refer to the error message that is output to the error information file, retrieve the applicable error data from the input data file, and revise the data.

Partitioning input data file:

Specify the maximum row length in the `maxreclen` operand, and re-execute.

KFPL25338-E L

Invalid RDAREA id found in unload file, RDAREA id=*aa....aa*, file=*bb....bb*

The RDAREA for storing the unloaded rows is different from the RDAREA for storing the rows to be reloaded.

aa....aa: Name of unloaded RDAREA

bb....bb: Name of unload data file

If the length of the unload data file name exceeds 143 characters, the last 143 characters of the unload data file name are output.

S: Terminates processing.

2. Messages

O:

RDAREA name specified in the `-r` option:

Specify the unload data file containing the rows of the corresponding RDAREA and re-execute the command.

`-r` option omitted:

Specify the correct unload data file and re-execute the command. Or, restore the corresponding table, specify reorganization processing (`-k rorg`), then re-execute the command.

`-g` option specified:

Because row data that cannot be stored is in the unload file, refer to the table definition before change, add to the partitioning condition an RDAREA in which rows can be stored, and change the table definition. Then specify reload processing (`-k reld`) and re-execute the command.

KFPL25339-E E+L

Unable to get *aa...aa* information from unload file, file=*bb...bb*

Information *aa...aa* is not found in the unload data file. Therefore, the data cannot be reloaded.

aa...aa: Type of information:

column: Column information

dictionary: Dictionary information

divide: Partitioning information

hash: Hash partitioning information

index: Index information

index rdarea: Information about index storage RDAREA

LOB: LOB information

ADT: Abstract data type

multidim: Matrix partitioning information

bb...bb: Name of unload data file

If the length of the unload data file name exceeds 148 characters, the last 148 characters of the unload data file name are output.

S: Terminates processing.

O: Refer to the message in the message log file that was output before this message to eliminate the cause of the error, then re-execute the command.

KFPL25340-E L

aa....aa information not exists on unload file, file=*bb...bb*

Because information *aa....aa* was not found in the unload data file, data cannot be reloaded.

aa....aa: Type of information:

Column: Column information

Dictionary: Dictionary information

Divide: Partitioning information

Hash: Hash partitioning information

Index: Index information

Index rdarea: Information about index storage RDAREA

LOB: LOB information

ADT: Abstract data type

multidim: Matrix partitioning information

bb...bb: Name of unload data file

If the length of the unload data file name exceeds 150 characters, the last 150 characters of the unload data file name are output.

S: Terminates processing.

O: Specify the correct unload data file and re-execute the command.

KFPL25341-E L

aa....aa lock request failed, id=*bb...bb*

Locking resource *aa....aa* failed.

aa....aa: Name of resource

bb...bb: Resource ID

S: Terminates processing.

O: Re-execute the command after the user processing currently occupying the corresponding resource has terminated.

KFPL25342-E L

Invalid EOF found in unload file, file=*aa....aa*

Indicated unload data file is invalid.

aa....aa: Name of unload data file

If the length of the unload data file name exceeds 150 characters, the last 150

characters of the unload data file name are output.

S: Terminates processing.

O: Specify the correct unload data file and re-execute the command.

KFPL25343-E L

Different column information in unload file, table=*aa...aa.bb...bb*

Because the table definition in the unload data file is different from the table definition in the table to be reloaded, the table cannot be reloaded.

aa...aa: Authorization identifier

bb...bb: Table identifier

S: Terminates processing.

O: Unload the corresponding table (-k unld) and re-execute the command. Or, reorganize the database (-k rorg).

KFPL25344-E L

Insufficient index file, index=*aa...aa.bb...bb*

Specified index information files are not sufficient for index *aa...aa.bb...bb*.

aa...aa: Authorization identifier

bb...bb: Index identifier

S: Terminates processing.

O: Specify the remaining index information files and re-execute the command.

KFPL25347-E L

No specified *aa...aa* in Control file

No unload data file, LOB data unload file, or index information file was specified. Or, no LOB column input file was specified for a LOB column that was specified in the input data file for the LOB column structure base table.

aa...aa: Type of required file:

```
{ index (index information file)
  | unload (unload data file)
  | unload (lobunld) (unload data file or LOB data unload
file)
  | lobcolumn (LOB column input file) }
```

S: Terminates processing.

O: Take one of the following actions:

- Specify an unload data file, LOB data unload file, or index information file

and re-execute the command.

- Specify all the LOB column input files for the LOB columns that were specified in the input data file for the LOB column structure base table.
- To re-create the index (-k ixrc), specify an idxname or index statement and re-execute the command.

KFPL25352-E L

Insufficient unload file, table=*aa...aa.bb...bb*, server=*cc...cc*

No unload data file was specified for server *cc...cc*.

aa...aa: Authorization identifier

bb...bb: Table identifier

cc...cc: Server name

S: Terminates processing.

O: Specify an unload data file and re-execute the command.

KFPL25353-E L

Incompatible byte order between unload and reload system

Reloading cannot be executed because the byte order of the unloaded system differs from the byte order of the system to be reloaded.

S: Terminates processing.

O: Unload/reload objects between systems that support the same byte order.

KFPL25354-E L

Incompatible character code set, HiRDB=*aa...aa*, unload file=*bb...bb*

The character codes of the unload file do not match the character codes of the reload destination HiRDB.

aa...aa: HiRDB character code type:

CHINESE: EUC Chinese kanji codes

LANG-C: One-byte character codes

SJIS: Shift JIS codes

UJIS: EUC Japanese kanji code

UTF-8: Unicode (UTF-8)

bb...bb: Character code type for the unload data file:

CHINESE: EUC Chinese kanji codes

LANG-C: One-byte character codes

2. Messages

SJIS: Shift JIS codes

UJIS: EUC Japanese kanji code

UTF-8: Unicode (UTF-8)

S: Terminates processing.

O: Unload/reload objects between systems that support the same character codes.

KFPL25355-E L

More than *aa...aa* bytes in *bb...bb*

The row length exceeds the maximum length after conversion to DAT format or fixed length data format.

aa...aa: Maximum length

bb...bb: Row length

S: Terminates processing.

Action

If necessary, change the format specification to binary format (-w bin) and re-execute.

KFPL25356-E L

Incompatible unload file version

The specified unload data file cannot be used because the version differs from that of the current HiRDB.

S: Terminates processing.

O: Check that the correct unload data file is specified. If the wrong unload data file is specified, specify the correct unload file and re-execute.

Action

The specified unload data file cannot be reloaded because it was created by a version of HiRDB that is older than the current HiRDB version. If necessary, specify an unload data file that was output by the current HiRDB version and re-execute.

KFPL25357-E L

Invalid LOB data, RDAREA="*aa...aa*"

LOB data is invalid.

aa...aa: LOB storage RDAREA name

S: Terminates processing.

O:

For `pdrorg`:

- During execution in table units:
Reinitialize the LOB data storage RDAREA defined for the table to be processed, specify only `lobunld` in the control statement, then reload the data in table units.
- During execution in RDAREA units:
Reinitialize the output LOB RDAREA, specify only `lobunld` in the control statement, then reload the data in RDAREA units.

For `pdload`:

- In creation mode:
Reinitialize the LOB RDAREA to be processed and load the LOB data. The RDAREA to be reinitialize is the same as for `pdrorg`.
- In add mode:
Back up the table and LOB RDAREA and reload the data. Do not update the table and LOB RDAREA with the UAP until they have been backed up.

KFPL25358-E E+L

Invalid LOB data, RDAREA=*aa....aa*, line=*bb...bb*

Row *bb...bb* of LOB data could not be stored in user LOB RDAREA *aa....aa*.

Possible reasons:

1. Another attempt to load data into a LOB column was made even though data loading to the LOB column is complete.
2. An attempt to load data (including reloading) was made to a user LOB RDAREA that is in DB disrupted status.

aa....aa: User LOB RDAREA name

bb...bb: Number of rows in which errors were detected

S: Terminates processing.

O:

1. Correct the user LOB RDAREA name or the LOB middle file name, and then re-execute.
2. Restore the user RDAREA or user LOB RDAREA from the stored backup, and then re-execute.

KFPL25359-E L

Unable to reload table or unload file due to *aa....aa* defined

2. Messages

A row cannot be re-registered in another table because a LOB column is defined in that table or in the table in the unload data file.

aa....aa: LOB column

S: Terminates processing.

O: An unloaded table or row cannot be re-registered in a table in which a LOB column is defined. Create another table with the database load utility or a UAP.

KFPL25360-E E

aa option not specified when *bb* option specified

Option *bb* is specified, but no option *aa* is specified.

aa: Option name

bb: Option name

S: Terminates processing.

O: Check the combination of options, and then re-execute the command.

KFPL25361-E E+L

Lock time out error occurred, RDAREA=*aa....aa*

A lock wait timeout occurred during lock processing on RDAREA *aa....aa*.

aa....aa: Name of the RDAREA subject to lock processing

S: Terminates processing.

O:

- Wait until the processing using the RDAREA terminates, and then re-execute the command.
- Either increase the value specified with the *-w* option (increasing lock wait time) or increase the value specified with the *-n* option (increasing the retry count), and then re-execute the command.

KFPL25700-I L

UOC information, message=*aa....aa*, code=*bb*

A message output request was received from the UOC.

aa....aa: Output message requested from UOC

bb: UOC's return code

S: If UOC's return code is 4, resumes processing; otherwise, terminates processing.

O: If processing was cancelled, check the message output by the UOC, eliminate the cause of the error, then re-execute the command.

KFPL25710-E L

Invalid value in UOC interface area, code=*aa*, line=*bb...bb*

Invalid value was set by UOC in the UOC interface area.

aa: Error detail code:

10: The address of the data edited by the UOC was not set.

20: For a binary input data file, the length of the data edited by the UOC did not match the table definition. For an expanded DAT format input data file, the length of data edited by the UOC is set to a negative value.

30: No return code or an invalid return code was set by the UOC.

40: Data was updated beyond the data length in the input buffer used to store data input from the utility. Or, the UOC interface area was damaged.

50: There was no linefeed character at the end of the DAT-format input data file. In the case of a binary input data file with `-w` specified that is output by the database reorganization utility, the input data contains BLOB data.

51: The variable length character string type or large object data type is invalid.

52: The sign part of the packed format data is invalid.

53: The packed data value or specified range of packed data in the packed format is invalid.

54: The actual length of the repetition column does not match the returned data.

55: The number of times the repetition column is repeated is invalid.

56: The null value flag of the repetition column is invalid.

57: The null value setting in a `NOT NULL` column is invalid.

60: The value of the store flag is invalid.

70: The parameter of the audit trail data registration UOC is invalid.

bb...bb: Number of row where the error occurred

This is the state when the row number is 0, an error occurs during the UOC start process and no lines were processed.

S: Terminates processing. However, abnormally terminates processing when the error detail code is 40.

O: Reevaluate the content set in the UOC interface area, correct the program, and then re-execute the command.

KFPL25999-W E+L

Unable to make an entry `SQL_DB_MANAGEMENT`, `RDID=aa....aa`,
reason=*bb...bb*

The result of condition analysis could not be registered in the database management table. Therefore, if only one table or one index is stored in the RDAREA with RDAREA ID *aa....aa*,* an error may occur in the RDAREA estimated obsolescence time prediction shown by the facility for predicting reorganization time (the obsolescence prediction time is late).

If multiple RDAREAs are to be processed, a message is output only for the first RDAREA where an error was detected.

* If multiple tables or indexes are stored in a single RDAREA, the RDAREA estimated obsolescence time prediction cannot reference the database management table because, even if some of the tables or indexes in the RDAREA are reorganized, not all of the RDAREA is reorganized, so it is not reflected in the prediction.

aa....aa: RDAREA ID

bb....bb: Error cause

MEMORY: Insufficient memory.

CONNECT: HiRDB connection failed.

ACCESS: Database management table could not be accessed.

HOLD: Access not possible due to command hold.

SQL_ERR: Database management table could not be modified.

MESSAGE_SEND: Communication error.

S: Continues processing.

O:

See the error message* that was output before this message and remove the cause of the error, then re-execute `pdbst`. Then, when the result of `pdbst` execution is reflected in the database management table and the facility for predicting reorganization time is executed, the prediction precision increases. If multiple tables or indexes are defined in a single RDAREA, re-execution is not necessary. Also, even without re-execution, the prediction error can be minimized by executing the condition analysis results depository facility every day.

If the RDAREA estimated obsolescence time prediction is already displayed and most of the reorganization time can be divided, determine the prediction time to be that already displayed in the RDAREA estimated obsolescence time prediction of the previous several days.

* With KFPA11204-E, the data dictionary RDAREA that stores the analysis information table and the database management table must be created using `pdmod`.

KFPL26339-E L

Unable to get *aa...aa* information from lobmid file, file=*bb...bb*
aa...aa information cannot be acquired from the LOB middle file.

aa...aa: Information type:

column: Column information

LOB: LOB information

bb...bb: LOB middle file name

If the length of the LOB intermediate file name exceeds 150 characters, the last 150 characters of the LOB intermediate file name are output.

S: Terminates processing.

O: Refer to the error log file that was output before this message to eliminate the cause of the error, then re-execute the command.

KFPL26340-E L

aa...aa information not exists on lobmid file, file=*bb...bb*

LOB column data cannot be loaded because *aa...aa* information does not exist in the LOB middle file.

aa...aa: Information type:

Column: Column information

LOB: LOB information

bb...bb: LOB middle file name

If the length of the LOB intermediate file name exceeds 150 characters, the last 150 characters of the LOB intermediate file name are output.

S: Terminates processing.

O: Specify the correct LOB middle file and re-execute the command.

KFPL26342-E L

Invalid EOF found in lobmid file, file=*aa...aa*

LOB middle file is invalid.

aa...aa: LOB middle file name

If the length of the LOB intermediate file name exceeds 150 characters, the last 150 characters of the LOB intermediate file name are output.

S: Terminates processing.

O: Specify the correct LOB middle file and re-execute the command.

KFPL27100-E L

Unable to get UOC *aa...aa* information, name=*bb...bb*, errno=*ccc*

The system was unable to obtain the following UOC information:

library: UOC storage library

function: UOC function

aa...aa: Type of UOC information:

library: Shared library name

function: Function name

bb...bb: Name of UOC information

ccc: Error number set in errno

S: Terminates processing.

O: Check `errno.h` and the OS manual for the details of errno (external integer variable indicating the error status) To determine the cause of the error and correct the name specified in the control information file. Or, check the specified library to make sure that it is a shared library and that access permission has been granted, then re-execute the command. If errno = 0, correct the error by referring to the KFPL22001-E message that was output immediately before this message, and re-execute the command.

KFPL27500-E L

Transaction wait time over, index=*aa...aa*. "*bb...bb*", RDAREA=*cc...cc*

An attempt was made to execute `pdreclaim` (release index used free pages), but the time specified in the `-w` option elapsed (because the UAP transaction accessing the applicable index was not completed within the time specified in the `-w` option).

aa...aa: Authorization identifier

bb...bb: Index identifier

cc...cc: RDAREA name

S: Terminates processing.

O: Take one of the following actions when re-executing `pdreclaim`:

- Wait for the UAP of the large object transaction to terminate, and then re-execute.
- Increase the specified value in the `-w` option, and then re-execute.

KFPL28000-E E+L

Internal error occurred, code=*aaa* (*bb...bb*)

An internal error occurred.

aaa: Maintenance code (the following table shows maintenance codes and their meanings)

bb...bb: Maintenance information (the following table shows maintenance information)

S: Terminates processing.

O: Execute this command using the version of HiRDB assumed by the plug-in provided by the command or a newer version.

Because the HiRDB version does not match the version assumed by the plug-in, upgrade the HiRDB version. If the versions match, contact a customer engineer.

Following is a list of maintenance codes and maintenance information:

Maintenance code	Explanation	Maintenance information
1	Invalid execution command line format	—
2	Required option not specified in execution command line	—
100	Duplicate control statements, shown in maintenance information, in control information file	Control statement
101	Plug-in type (<i>index</i> statement) not specified in control information file	—
102	Conflicting plug-in type (<i>index</i> statement) specifications in control information file	—
104	Invalid type format for error row number, shown in maintenance information, specified in control information file	Information type and error row number: <ul style="list-style-type: none"> Information type: <ul style="list-style-type: none"> <i>library_name</i>: Library name <i>function_name</i>: Function name <i>option_string</i>: Option character string <i>mode_kind</i>: Mode type <i>lock_kind</i>: Lock type <i>table_access_kind</i>: Table access type
105	Number of <i>modecheck</i> statements in the control information file greater than the maximum limit	—
107	Invalid error row number format, shown in maintenance information in control information file	Error-causing row number

Maintenance code	Explanation	Maintenance information
108	Required items (<code>func</code> statement and <code>func_type</code> statement) not found in control information file	—
109	Input error on control information file shown in maintenance information	Name of control information file
200	Specified external routine name not registered	Detail code: 1: Library name 2: Plug-in function
201	Not a utility timing	Timing code for specified external routine

— : Not applicable

KFPL28002-E E+L

Invalid HiRDB connect *aa...aa*

Either the environment variable `PDUSER` is not specified, or the authorization identifier or the password specified in the environment variable `PDUSER` is invalid.

aa...aa: Error type

`user_id`: HiRDB connection authorization identifier

`password`: HiRDB connection password

S: Terminates processing.

O:

Correct the contents of the environment variable `PDUSER` and re-execute the command.

Correct specification: `PDUSER="root"/"root"`

When specifying an authorization identifier or password in a client environment definition (`hirdb.ini`), enclose it in single quotation marks (`'`).

Example of correct specification: `PDUSER=' "root"/"root" '`

KFPL28101-E E+L

Table *aa...aa*.*bb...bb* not found

The table to be processed, *aa...aa*.*bb...bb*, is not found.

aa...aa: Authorization identifier

bb...bb: Table identifier

S: Terminates processing.

O: Review and revise the authorization identifier and the table identifier for the table to be processed and re-execute the command.

KFPL28102-E E+L

Index *aa....aa*. "*bb...bb*" not found

The index to be processed, *aa....aa*. "*bb...bb*", is not found.

aa....aa: Authorization identifier

bb...bb: Index identifier

S: Terminates processing.

O: Review and revise the authorization identifier and the index identifier for the index to be processed and re-execute the command.

KFPL28103-E E+L

Column "*aa....aa*" not found in table *bb...bb*. "*cc....cc*"

The column name "*aa....aa*" is not found in the table *bb...bb*. "*cc....cc*".

aa....aa: Column name

bb...bb: Authorization identifier

cc....cc: Table identifier

S: Terminates processing.

O: Correct the column name and re-execute the command.

KFPL28104-E E+L

Privilege not satisfy

The command cannot be executed because the user does not have the requisite privilege.

S: Terminates processing.

O: Check if the current privilege is valid. If it is invalid, change it, and re-execute the command. If the current privilege is the valid one, ask the HiRDB administrator or the owner of the table to grant the privilege for the indicated table, and then re-execute the command.

Action

If a programmer asks to be granted a privilege and his or her request is proper, the requested privilege should be assigned.

KFPL28105-E E+L

Column "*aa....aa*" not ADT

The column name "*aa....aa*" is not an abstract data type (ADT).

aa....aa: Column name

2. Messages

S: Terminates processing.

O: Specify a column of abstract data type and re-execute the command.

KFPL28108-E E+L

PLUGIN not defined in column "*aa...aa*"

A plug-in is not defined for the specified column name "*aa...aa*".

aa...aa: Column name

S: Terminates processing.

O: Change the type of the column to a type defined by a plug-in and re-execute the command.

KFPL28109-E E+L

PLUGIN not defined in index "*aa...aa*"

The index "*aa...aa*" is not a plug-in index.

aa...aa: Index identifier

S: Terminates processing.

O: Change the name of the index to be executed to a plug-in index name and re-execute the command.

KFPL28900-I L

Pdplgexe started, generation=*aa*

Execution of the Plug-in Execution Utility (pdplgexe) has started.

generation=*aa* is displayed when using the inner replica facility.

aa: Generation number

S: Resumes processing.

KFPL28901-I L

Pdplgexe terminated, return code=*aa*

Execution of the Plug-in Execution Utility (pdplgexe) has terminated.

aa: Return code

0: Normal termination

8: An error occurred in the plug-in function

12: An error occurred in a function other than the plug-in function

S: Terminates processing.

O: For a non-0 return code, correct the cause of the error by referring to the error message that was output to either standard output device or the message log file and re-execute the command.

KFPL28904-I E+L

Transaction commit

The transaction was committed.

S: Resumes processing.

KFPL28905-E E+L

Transaction rollback

The transaction was rolled back due to the reason indicated in the message log file that was output prior to this message.

S: Terminates processing.

O: Correct the cause of the roll back by reviewing the message log file that was output prior to this message.

KFPL30000-I R

aa....aa name=*bb....bb*

Displays the beginning of the message for the data that was to be inserted in RDAREA *bb....bb*.

aa....aa:

Server: Server name

RDAREA: RDAREA name

bb....bb: Identifier

S: Outputs the information message to the error information file and terminates processing.

KFPL30001-I R

Rows successfully loaded=*aa....aa*

aa....aa rows of data were loaded successfully.

aa....aa: Number of rows

S: Outputs the information message to the error information file and terminates processing.

KFPL30002-I R

aa....aa rows outputed, RDAREA=*bb....bb*

Data stored in RDAREA *bb....bb* yields *aa....aa* rows output.

aa....aa: Row count

bb....bb: RDAREA name

S: Outputs an information message to the error information file and terminates processing.

KFPL31001-E R

Invalid input data byte, line=*aa....aa*, column=*bb....bb* [, element=*cc....cc*]

The input data length indicated by line=*aa....aa*, column=*bb....bb* (element *cc....cc* for a repetition column if element= is output) is invalid.

aa....aa: Line number

bb....bb: Column number

Because this indicates the position from the beginning of the data in the input data file, the displayed value includes columns and constructor function arguments that are designated for skipping by the `skipdata` statement.

cc....cc: Element number

S: Outputs the error message to the error information file.

O: Correct the data on the indicated line of the input data file.

KFPL31002-E R

Invalid pack format value, line=*aa....aa*, column=*bb....bb* [, element=*cc....cc*]

The packed format data indicated by line=*aa....aa*, column=*bb....bb* (element *cc....cc* for a repetition column if element= is output) is invalid.

aa....aa: Line number

bb....bb: Column number

Because this indicates the position from the beginning of the data in the input data file, the displayed value includes columns and constructor function arguments that are designated for skipping by the `skipdata` statement.

cc....cc: Element number

S: Outputs an error message to the error information file.

O: Correct the packed format data of the indicated line number in the input data file.

KFPL31003-E R

Invalid varchar length, line=*aa....aa*, column=*bb....bb* [, element=*cc....cc*]

The length of the variable-length data (VARCHAR, NVARCHAR, MVARCHAR, BINARY) indicated by line=*aa....aa*, column=*bb....bb* (if element is output, repetition column element *cc....cc*) exceeds the column definition length used during table definition; or the -z option is omitted when storing variable-length data with a zero length.

aa....aa: Line number

bb...bb: Column number

Because this indicates the position from the beginning of the data in the input data file, the displayed value includes columns and constructor function arguments that are designated for skipping by the `skipdata` statement.

cc...cc: Element number

S: Outputs an error message to the error information file.

O: Correct the data of the indicated line number in the input data file.

KFPL31004-E R

Data conversion error occurred, line=*aa...aa*, column=*bb...bb*[, element=*cc...cc*]

An error occurred during the conversion processing of the input data indicated by line=*aa...aa*, column=*bb...bb* (element *cc...cc* for a repetition column if element= is output).

aa...aa: Line number

bb...bb: Column number

Because this indicates the position from the beginning of the data in the input data file, the displayed value includes columns and constructor function arguments that are designated for skipping by the `skipdata` statement.

cc...cc: Element number

S: Outputs an error message to the error information file.

O: Correct the data of the indicated line number in the input data file.

KFPL31005-E R

Number of columns in input file not equal to table columns, line=*aa...aa*

The number of input data rows at line *aa...aa* does not match the number of rows to be stored.

aa...aa: Line number

S: Outputs the error message to the error information file.

O: Correct the data of the relevant row number in the input data file.

If the data includes $(00)_{16}$, this appears as a space when viewed in a text editor, so that the data can be viewed correctly. However, HiRDB considers $(00)_{16}$ to represent the end of data, and it may handle it as a column count mismatch. Check the data contents using a binary editor.

KFPL31006-E R

Invalid null value, line=*aa...aa*, column=*bb...bb*

Invalid null value was specified for the input data on line *aa....aa*, column *bb....bb*.

aa....aa: Line number

bb....bb: Column number

Because this indicates the position from the beginning of the data in the input data file, the displayed value includes columns and constructor function arguments that are designated for skipping by the `skipdata` statement.

S: Outputs the error message to the error information file.

O: Correct the data on the indicated line of the input data file.

KFPL31007-E R

Invalid input record for cluster key sequence, line=*aa....aa*

The input records at line *aa....aa* are not sorted in order of cluster key values.

aa....aa: Line number

S: Outputs the error message to the error information file.

O: Correct the data on the indicated line of the input data file.

If it is difficult to rearrange the data in cluster key order, the data can be stored without checking the order by specifying the `-x` option. However, with this storage method, there is no cluster key benefit.

KFPL31008-E R

Key duplication error occurred, line=*aa....aa* [*bb....bb*]

The input data key values in line=*aa....aa* are duplicate. If the message `No output for error data` is displayed, the work buffer for the creation of an error data file is too small.

aa....aa: Line number

bb....bb: (No output for error data)

S: Resumes processing after outputting an error message to the error information file.

O: Correct the data associated with the indicated line number in the input data file and re-execute the command. If a message `No output for error data` is output, error data is not output to the error data file. This problem can be resolved by specifying a large enough size for the work buffer for the creation of an error data file and by re-executing the command.

KFPL31009-E R

Invalid partitioning key value, line=*aa....aa*

Input data contains a column value at line *aa....aa* that does not satisfy the partitioning storage condition for a table to be created.

aa....aa: Line number

S: Outputs the error message to the error information file.

O: Correct the data on the indicated line of the input data file.

KFPL31010-E R

Invalid row length, line=*aa....aa*

The length is invalid of the row data in row number *aa....aa* in the input file.

- Binary-format file:

The row length or column offset is invalid in the binary-format file output by `pdrcrg`.

- Fixed-size data format file:

Data cannot be input at the row length specified in the column structure information file.

aa....aa: Row number

S: Outputs the error message to the error information file and terminates processing.

O:

Binary-format file:

Correct the row length or column offset in the row data.

Fixed-size data format file:

Correct the column structure information file so that the column information matches the input data length.

In either file format, the intended file may not be specified as the input file; in such a case, specify the correct file and re-execute the command.

KFPL31011-E R

Invalid LOB format, line=*aa....aa*, column=*bb....bb*

Specification was invalid for LOB column line = *aa....aa*, column = *bb....bb*.

- Length of the LOB input file name specified in the input file for the LOB column structure base table was invalid.
- LOB data length specified in the LOB column input file was invalid.
- Invalid EOF was detected when acquiring 4-byte LOB data from the LOB column input file or when acquiring the specified LOB data.

aa....aa: Row number

Row number in the input data file. When a LOB column input file is used, this is the number of the data item in the LOB column input file that resulted in the error.

bb....bb: Column number

Because this indicates the position from the beginning of the data in the input data file, the displayed value includes columns and constructor function arguments that are designated for skipping by the `skipdata` statement.

S: Outputs information to the error information file and terminates processing.

O:

Separate file is provided for each item of LOB data:

Check that the length of the LOB input file name corresponding to the row number in the input data file for the LOB column structure base table is greater than 0 and not greater than 1023. If the length is invalid, correct it. If the length of the file name is correct, change the specification to the absolute path name.

When EasyMT is being used, check that the length of the file name is greater than 0 and not greater than 17. If the length is invalid, correct it.

LOB column input file is provided:

Check that the length of the LOB data in the LOB column input file corresponding to the row number in the input data file for the LOB column structure base table is greater than 0 and not greater than the defined length and that the specified LOB data exists. If there is an error, correct it.

KFPL31012-E R

Specified LOB file not found, line=*aa....aa*

LOB input file specified in line *aa....aa* cannot be found.

aa....aa: Line number

S: Outputs the message to the error information file and terminates processing.

O: Check that the LOB input file is on the specified path.

KFPL31013-E R

LOB data too long, line=*aa....aa*

Length of the LOB data for row *aa....aa* specified in the table definition was greater than the defined LOB column length.

Separate file is provided for each item of LOB data:

The LOB input file data specified for row *aa....aa* of the input data file for the LOB column structure base table exceeded the defined length.

LOB column input file is provided:

LOB data in the LOB column input file corresponding to row *aa....aa* of the input data file for the LOB column structure base table exceeded the defined length.

aa....aa: Row number

Row number in the input data file. When a LOB column input file is used, this is the number of the data item in the LOB column input file that resulted in the error.

S: Outputs information to the error information file and terminates processing.

O:

Separate file is provided for each item of LOB data:

Correct the LOB input file for the indicated row that was specified in the input data file for the LOB column structure base table.

LOB column input file is provided:

Correct the LOB data for the indicated row in the LOB column input file.

KFPL31014-E R

LOBMID file conflicted with LOB data file, line=*aa...aa*

Information specified for the LOB column structure base table obtained from the LOB middle file (LOBMID file) contradicts the information specified for the LOB column input file:

- NULL was specified for the LOB column structure base table, but data with a length of at least 1 byte was specified for the LOB column input file.
- Default value was specified for the LOB column structure base table, but data with a length of at least 1 byte was specified for the LOB column input file.

aa...aa: Row number

Row number in the input data file

S: Outputs information to the error information file and terminates processing.

O: Check the specifications for the LOB column at the row number of the input data file of the LOB column structure base table, correct the LOB data at the row number of the LOB column input file that resulted in the error, then re-execute the command.

KFPL31015-E R

Unmatched LOB data count, line=*aa...aa*

The number of data items of the input data file of the LOB column structure base table does not match *aa...aa* the number of LOB data data items in the LOB column input file.

aa...aa: Row number

Data number that resulted in the error in the LOB column input file

S: Outputs the error message to the error information file.

O: To use a LOB column input file, as many data items are required in the LOB column input file as there are rows in the input data file for the LOB column structure base

table. Check the KFPL00703-I message for the number of data items created during creation of the LOB column structure base table and compare that number with the data number displayed in this message. Make sure that the number of data items in the input data file for the LOB column structure base table matches the number of LOB data items in the LOB column input file, then re-execute the command.

KFPL31016-E R

Invalid parameter, line=*aa...aa*, column=*bb...bb*, code=*cc* [*dd...dd*]

The input parameter for the constructor function that generates the values to be stored in a column of abstract data type is invalid. If the message `No output for error data` is displayed, the data length for the last line of data in the input data file is too short.

aa...aa: Line number

bb...bb: Column number

Because this indicates the position from the beginning of the data in the input data file, the displayed value includes columns and constructor function arguments that are designated for skipping by the `skipdata` statement.

cc: Logical error number

For the logical error numbers, see the *HiRDB Version 8 Command Reference*.

dd...dd: (No output for error data)

S: Resumes processing after outputting an error message to the error information file.

O:

By referring to the logical error details, correct the indicated data in the input data file that was specified as an input parameter for the function and re-execute the command.

If the message `No output for error data` is displayed, not all error data has been output to the error data file. This problem can be resolved by correcting the data in the last line of the input data file and re-executing the command.

KFPL31017-E R

Specified LOB file permission denied, line=*aa...aa*

The user does not have the access privilege to the LOB input file specified in row *aa...aa* of the data.

aa...aa: Row number

S: Outputs the error message to the error information file, and then continues processing.

O: To enable the HiRDB administrator to read the file, grant the access privilege to the LOB input file.

KFPL31018-E R

PLUGIN function error occurred, line=*aa....aa*, reason="*bb...bb*",
column="*cc....cc*" [*dd....dd*]

The value to be stored in a column of abstract data type, using a plug-in-supplied function, is invalid. If the message `No output for error data` is displayed, the work buffer for the creation of an error data file is too small.

aa....aa: Line number

bb...bb: Description of the error detected by a plug-in-supplied function

cc....cc: Column name

dd....dd: (No output for error data)

S: Resumes processing after outputting an error message to the error information file.

O: Correct the indicated data in the input data file by referring to the error message.

If the message `No output for error data` is displayed, error data is not output to the error data file. This problem can be resolved by specifying a large enough size for the work buffer for the creation of an error data file and by re-executing the command.

KFPL31019-E R

Invalid number of element, line=*aa....aa*, column=*bb...bb*

The specification of the element count for the repetition column in line=*aa....aa*, column=*bb....bb* contains an error.

aa....aa: Line number

bb...bb: Column number

Because this indicates the position from the beginning of the data in the input data file, the displayed value includes columns and constructor function arguments that are designated for skipping by the `skipdata` statement.

S: Resumes processing after outputting an error message to the error information file.

O: Determine whether the element count for the repetition column is correct. In addition, check whether the column data in the input data file is error-free. If the element count is invalid or the column data contains an error, correct the file contents and re-execute the command.

KFPL31020-E R

Invalid enclose character detected, line=*aa....aa*, offset=*bb...bb*

An invalid enclosed character was detected at byte *bb...bb* from the beginning of line *aa....aa* in the data.

aa....aa: Row number

bb...bb: Position where the invalid enclosed character was detected

S: Outputs the error message to the error information file, and then terminates processing.

O: For an input data file in the expanded DAT format, specify two consecutive values when handling the same value as the enclosed character with data.

KFPL31090-W/E R

Input data too long, line=*aa...aa*, column=*bb...bb* [, element=*cc...cc*]

The input data length indicated by line=*aa...aa*, column=*bb...bb* (if element is output, repetition column element *cc...cc*) exceeds the column definition length used during table definition.

If the `lengover` operand is not specified, ... KFPL31090-W

- During data loading

The data portion that exceeds the definition length is truncated when the data is stored.

- During file partitioning (partitioning input data file creation)

Data is output to the partitioning input data file.

If the `lengover` operand is specified, ... KFPL31090-E

- During data loading

Data handled as error data is not stored.

- During file partitioning

Data is not output to the partitioning input data file.

aa...aa: Line number

bb...bb: Column number

cc...cc: Element number

S: Outputs an error message to the error information file and continues processing.

O:

- If the `lengover` operand is not specified

See the message, and check that the data that exceeds the data definition length was truncated, so that there is no problem.

- If the `lengover` operand is specified

See the message, correct the data that exceeds the definition length, and re-execute `pdload`.

KFPL33000-I L

`pdrbal` started, table=*aa....aa*. "*bb....bb*", execmode=*cc....cc*

Rebalancing of table *aa....aa*. "*bb....bb*" has begun.

aa....aa: Authorization identifier

bb....bb: Table identifier

cc....cc: Operation mode:

share: Shared mode

exclusive: Exclusive mode

S: Continues processing.

KFPL33001-I E+L

`pdrbal` terminated, return code=*aa*

The `pdrbal` processing terminated with return code *aa*.

aa: Return code.

0: Normal termination (all data was rebalanced)

4: Normal termination (some data was not rebalanced)

8: Abnormal termination

S: Terminates processing.

O:

- Return code is 4:

Re-execute `pdrbal`.

- Return code is 8:

Correct the error by referring to the error message that is output to standard output or the message log file, and re-execute `pdrbal`.

KFPL33002-I L

Report file *aa....aa* assigned

Processing results file *aa....aa* has been created.

aa....aa: Processing results file name

If the length of the execution result file name exceeds 129 characters, the last 129 characters of the execution result file name are output.

S: Continues processing.

KFPL33003-I E+L

Activation of dictionary information completed, status=*aa....aa*

Dictionary information was activated.

aa....aa: Dictionary information activation timing:

START:

At the time of rebalancing startup:

- If an error occurs after this message has been output, the execution status of `pdrbal` is rebalancing.

END:

At the time of rebalancing termination:

- If an error occurs after this message has been output, rebalancing has been completed, and it is not necessary to re-execute `pdrbal`.

S: Continues processing.

KFPL33004-I L

aa....aa rows *bb...bb*, table=*cc....cc*. "*dd....dd*"

aa....aa rows were processed during rebalancing of table *cc....cc*. "*dd....dd*".

aa....aa: Number of rows

bb...bb:

processing: Processed

cc....cc: Authorization identifier

dd....dd: Table identifier

S: Continues processing.

KFPL33005-I L

`pdrbal` stopped at `execstop`, table=*aa....aa*. "*bb...bb*"

Rebalancing of table *aa....aa*. "*bb...bb*" was halted by specification of the `execstop` statement.

aa....aa: Authorization identifier

bb...bb: Table identifier

S: Terminates processing.

KFPL33500-E E+L

Unable to specify "*aa....aa*" in this case

Cannot specify the following control statements in the control information file when "*aa....aa*" is specified in the command line:

"*aa....aa*" is `-k share` or `-k exclusive`:

- index statement
- idxwork statement
- sort statement

"*aa....aa*" is -k exclusive:

- option statement (*check_itv* operand)

aa....aa: Option name (-k share or -k exclusive)

S: Terminates processing.

O:

"*aa....aa*" is -k share:

Respecify the command line or the control information file, and then re-execute.

"*aa....aa*" is -k exclusive:

Delete the *check_itv* operand or change the command line to -k share and re-execute.

KFPL33501-E E+L

Unable to execute *pdrbal* due to *aa....aa* table

pdrbal cannot be executed for table *aa....aa*.

aa....aa: Table type:

non base:

Table other than a base table

non rebalance:

Table other than a rebalancing table

ADT:

Table in which one of the following abstract data types is specified:

- User-defined type
- One of the following abstract data types provided by a plug-in:
 - Has a supertype
 - Has an abstract data type for the attribute
 - Attribute is BLOB-type but has no unload function

S: Terminates processing.

O: Stop execution of *pdrbal*.

KFPL33502-E E+L

Unable to execute pdrbal without *aa...aa* privilege

Access privilege *aa...aa* has not been granted for the table that is to be processed.

aa...aa: Access privilege type:

select: SELECT privilege

insert: INSERT privilege

delete: DELETE privilege

S: Terminates processing.

O: Have the table owner grant the executor the access privilege for the table to be processed, and re-execute pdrbal.

KFPL33503-E E+L

Unable to execute pdrbal command without addition of RDAREA,
table=*aa...aa*. "*bb...bb*"

pdrbal cannot be executed without addition of an RDAREA.

aa...aa: Authorization identifier

bb...bb: Table identifier

S: Terminates processing.

O: Check that the name of the table to be rebalanced is correct. If it is, add an RDAREA for the rebalancing table and re-execute pdrbal.

KFPL33504-E E+L

Table *aa...aa* during execution of pdrbal, table_name=*bb...bb*. "*cc...cc*"

The rebalancing table was deleted or the table definition was changed during execution of pdrbal.

aa...aa: Reason code:

dropped: Rebalancing table was deleted.

changed: Rebalancing table was changed (or deleted, or created).

bb...bb: Authorization identifier

cc...cc: Table identifier

S: Terminates processing.

O: Based on the reason code, check the definition of the target table.

KFPL33505-E E+L

Activation of dictionary information failed

Activation of dictionary information failed.

S: Terminates processing.

O: Correct the error based on the error message that was output before this message, and re-execute pdrbal.

KFPL33506-E E+L

Unable to execute pdrbal command because of NONDIV_IDX defined, index_name=aa....aa."bb....bb"

pdrbal cannot be executed because a non-partitioning key index is defined in the rebalancing table.

aa....aa: Authorization identifier

bb....bb: Index identifier

S: Terminates processing.

O: Delete the non-partitioning key index and re-execute pdrbal.

KFPL33507-E E+L

Unable to recompile routine, type=aa....aa, name="bb....bb"."cc....cc", error_sql_no=dd....dd, err_sql=ee....ee

Recompilation of the routine failed.

aa....aa: Routine type:

PROCEDURE: Procedure

FUNCTION: Function

bb....bb: Schema name

cc....cc: Routine identifier

dd....dd: Number indicating the SQL procedure statement in the routine that caused the error

For the numbers that indicate SQL procedure statements, see ERR_SQL_NO in GET DIAGNOSTICS in the *HiRDB Version 8 SQL Reference*.

ee....ee: SQL procedure statement in the routine that caused the error

For SQL procedure statements, see ERR_SQL in GET DIAGNOSTICS in the *HiRDB Version 8 SQL Reference*.

S: Terminates processing.

O:

Take appropriate action based on ERR_SQL_NO, ERR_SQL, and the message that was output immediately before this message, and recompile the procedure or function using ALTER PROCEDURE or ALTER ROUTINE. (Re-executing the rebalancing utility will not recompile the procedure or function.)

If **START** is displayed for **STATUS** in the **KFPL33003-I** message that was output before this message, take the above action, and then re-execute the rebalancing utility. If **END** is displayed for **STATUS**, there is no need to re-execute (an attempt to re-execute will cause an error).

KFPL33508-E L

Unable to execute `pdrbal` using replicated RDAREA, table=*aa...aa*.
"*bb...bb*"

Cannot execute `pdrbal` because a replica RDAREA is defined in the target table.

aa...aa: Authorization identifier

bb...bb: Table identifier

S: Terminates processing.

O: When executing `pdrbal`, delete all replica RDAREAs defined in the target table.

KFPL50000-I L

`Pdconstck` started, func=*aa...aa*, table=*bb...bb*. "*cc...cc*" [,
constraint=*dd...dd*. "*ee...ee*"] [, generation=*fff*]

The integrity check utility was started.

If the constraint type is `check`, , constraint=*ee...ee*. "*ff...ff*" is output. If the HiRDB Staticizer Option is installed, , generation=*hhh* is output.

aa...aa: Facility

check: Integrity check facility

set: Facility to force the setting of check pending status (forced setting)

release: Facility to force the setting of check pending status (forced release)

bb...bb: Authorization identifier

cc...cc: Table identifier

dd...dd: Authorization identifier (displayed on a constraint-by-constraint basis)

ee...ee: Generation to be processed

fff: Generation number (displayed if HiRDB Staticizer Option is installed)

all: All generations

0 to 10: Specified generation

cur: Generation of the current RDAREA

S: Continues processing.

KFPL50001-I L+S

`Pdconstck` terminated, return code=*a*

Processing of the integrity check utility terminated.

a: Return code

0: Normal termination

The integrity check found no row data with a constraint violation.

4: Normal termination

The integrity check found row data with a constraint violation; or the processing of the integrity check utility was terminated because the number of key values indicating a constraint violation exceeded the upper limit.

8: Abnormal termination

S: Terminates processing.

O:

Return code 8:

Refer to the error message that is output to standard error or to the message log file, resolve the error, and then re-execute the command.

Return code 4:

Refer to the row data that produced the constraint violation and revise the integrity of the constraint. If necessary, re-execute the command.

To verify the check pending status of the table, refer to the processing results of the integrity check utility or of the database condition analysis facility.

KFPL51200-E E

No constraint defined, table=*aa....aa.bb....bb*

A reference constraint (foreign key) or a check constraint is not defined on the specified table.

aa....aa: Authorization identifier

bb....bb: Table identifier

S: Terminates processing.

P: Revise the table name, and then re-execute the command.

KFPL51201-E E

Unable to execute *aa....aa* command, due to lack of privilege

Command *aa....aa* cannot be executed because the user has neither of the following privileges on the table:

- DBA privilege
- Owner of the table

aa...aa: Command name

S: Terminates processing.

P: Take one of the following actions:

- Re-execute the command as a user with DBA privilege.
- Re-execute the command by granting the DBA privilege to the user.
- Re-execute the command by specifying a table owned by the user.

KFPL51202-E E+L

Replica RDAREA insufficient, table=*aa...aa*."*bb...bb*"

The utility cannot be executed because there is no replica RDAREA associated with [check!!]

the original RDAREA for

table *aa...aa*."*bb...bb*".

aa...aa: Authorization identifier

bb...bb: Table identifier

S: Terminates processing.

Action: Use the `pdrdrefls` command to check the RDAREA associated with the indicated table. Next, use the `pddbl` command to verify that the RDAREA associated with the table satisfies the conditions indicated below, and then re-execute the utility:

- The storage RDAREA does not contain both an RDAREA to which the inner replica facility is applied and one to which it is not applied.
- The numbers defined for replica RDAREAs match.
- Generation numbers for replica RDAREA definitions are consistent.

KFPL51203-E E+L

Check pending status conflicts, table=*aa...aa*."*bb...bb*", constraint type=*cc...cc*

The check pending status of the dictionary table is inconsistent with the check pending status of the constraint.

If the constraint type is REF:

The value specified for the table in `SQL_TABLES` (CHKPEND column) differs from the value specified for the table in `SQL_REFERENTIAL_CONSTRAINTS` (CHKPEND column).

If the constraint type is CHECK:

The value specified for the table in `SQL_TABLES` (CHKPEND2 column) differs from the value specified for the table in `SQL_CHECKS` (CHKPEND2 column).

aa....aa: Authorization identifier

bb....bb: Table identifier

cc....cc: Constraint

REF: Reference constraint

CHECK: Check constraint

S: Terminates processing.

Action: Use the integrity check utility with the `-k set` parameter (`pdconstck -k set`) to forcibly set the table into check pending status, and then use the `check` parameter (`pdconstck -k check`) to perform a constraint integrity check.

KFPL90001-I S

Process *aa....aa* started. *yyy/mm/dd, hh:mm:ss*

The *aa....aa* processing has started.

aa....aa: Processing:

rorg: Reorganization

yyy/mm/dd: Execution start date

hh:mm:ss: Execution start time

S: Continues processing.

KFPL90002-I S

Process *aa....aa* ended. return code=*bb*, *yyy/mm/dd, hh:mm:ss*

The *aa....aa* processing has terminated.

aa....aa: Processing:

rorg: Reorganization

bb: Return code

0: Normal termination (all table reorganization was completed)

4: Normal termination (table is being reorganized)

8: Error termination (recovered from a backup)

12: Error termination (recovery from a backup failed)

yyy/mm/dd: Execution termination date

hh:mm:ss: Execution termination time

S: Terminates processing.

O:

Return code is 4:

The time specified in the `-m` option of `pdrorg` was not sufficient and the KFPL91101-W message was output; re-editing was not performed. Increase the specification value and re-execute.

Return code is 8 or 12:

For the error detail, check the contents of the execution information file displayed in KFPL90003-E. Correct the error and take appropriate action based on the execution status indicated by the KFPL90021-I to KFPL90028-I progress messages that are output.

KFPL90003-E E

Eliminating the cause of the error, refer to executed information file="*aa....aa*"

The error shown in the execution information file occurred.

aa....aa: Execution information file name

S: Terminates processing.

O: Check the error detail in the execution information file and correct the error.

KFPL90010-I S

Process *aa....aa bb....bb/cc....cc* ended.table name=*dd....dd*

The *aa....aa* processing, which is number *bb....bb* out of a total of *cc....cc*, has terminated.

aa....aa: Processing:

`rorg`: Reorganization

bb....bb: Number of completed processes

cc....cc: Total number of processes

dd....dd: Name of the processed table

S: Continues processing.

KFPL90021-I S

DB hold step ended

Database shutdown has terminated.

S: Continues processing.

KFPL90022-I S

Before backup step ended

The backup before processing has been completed.

S: Continues processing.

KFPL90023-I S

aa....aa step started

The *aa....aa* processing has started.

aa....aa: Processing:

Reorganize: Reorganization

S: Continues processing.

KFPL90024-I S

aa....aa step ended

The *aa....aa* processing has been completed.

aa....aa: Processing:

Reorganize: Reorganization

S: Continues processing.

KFPL90025-I S

After backup step ended

The backup after processing has been completed.

S: Continues processing.

KFPL90026-I S

DB release step ended

Database shutdown release has been completed.

S: Continues processing.

KFPL90027-I S

DB stop process started

The database is being stopped for error recovery.

S: Continues processing.

KFPL90028-I S

Recover step started on *aa....aa* error

Database recovery from the backup file is being started.

aa....aa: Processing:

rorg: Reorganization

S: Continues processing.

KFPL90029-I S

Recover step ended on *aa....aa* error

Database recovery from the backup file has terminated.

2. Messages

aa....aa: Processing:

rorg: Reorganization

S: Continues processing.

KFPL90030-I S

DB started process ended

Database startup processing has been completed.

S: Continues processing.

KFPL90101-I R

aa....aa

Outputs the command line during HiRDB command execution.

aa....aa: Command line during *pdrorg* execution

S: Continues processing.

KFPL90102-I R

aa....aa

Displays one control statement line during *pdrorg* execution.

aa....aa: Control statement during *pdrorg* execution

S: Continues processing.

KFPL91000-I E

Usage:*aa....aa* [-m time] -k func_name

Displays the specification format for the *aa....aa* command.

aa....aa: Name of the command that was to be executed

S: Terminates processing.

O: Correct the command line error and re-execute.

KFPL91001-E E

Mandatory specification missing in command line

A required option is not specified on the command line.

S: Terminates processing.

O: Specify the required option for the command and re-execute.

KFPL91002-E E

Invalid *aa....aa* option

Option *aa....aa* is invalid.

aa....aa: Invalid option

S: Terminates processing.

O: Specify the option correctly and re-execute.

KFPL91003-E E

Invalid value of *aa....aa* option

Option *aa....aa*'s specification value is invalid.

aa....aa: Option

S: Terminates processing.

O: Specify the option correctly and re-execute.

KFPL91004-E E

Invalid format exists in command line

The format of the command line for the executed utility is invalid.

S: Terminates processing.

O: Correct the command line and re-execute.

KFPL91100-E E

System call error, func=*aa....aa*, errno=*bb...bb*

An error occurred during the processing of a HiRDB system function.

aa....aa: Name of the HiRDB system function

bb...bb: Error code

S: Terminates processing.

O: Correct the error based on the error code in this message and the error messages that are output before and after this message.

KFPL91101-W E

Unable to execute *aa....aa* due to little value of -m option

The *aa....aa* processing cannot be executed because the value specified in the -m option is too small.

aa....aa: Processing:

 rorg: Reorganization

S: Terminates processing.

O: Specify an appropriate value in the -m option and re-execute.

KFPL91102-E E

aa....aa process already executed

Execution of the *aa....aa* command is already underway.

2. Messages

aa...aa: Name of the command being executed

S: Terminates processing.

O: If necessary, wait for the command being executed to terminate, then re-execute.

KFPL91103-E E

Insufficient memory on PROCESS, size=*aa...aa*, part=*bb...bb*,
code=*cc...cc*

A memory shortage occurred.

aa...aa: Insufficient memory size (in bytes)

bb...bb: Part number

cc...cc: Part code

S: Terminates processing.

O: Wait for other programs that are using a significant amount of memory to terminate, then re-execute.

KFPL91104-E E

Unable to *aa...aa* without *bb...bb* privilege

The *bb...bb* access privilege for the *aa...aa* processing has not been granted.

aa...aa: Name of the command to be executed

bb...bb: Access privilege

DBA: DBA privilege

S: Terminates processing.

O: Obtain the necessary access privilege and re-execute.

KFPL91105-E E

aa...aa invalid

The authorization identifier or password specified by an environment variable is invalid. Or, the password entered in response to an input prompt message is invalid.

aa...aa: Error item:

Auth_id: Authorization identifier

Password: Password

S: Terminates processing.

O: Take one of the following actions, depending on the error item:

Auth_id displayed for *aa...aa*:

Correct the PDUSER environment variable and re-execute.

Password displayed for *aa...aa*:

Correct the `PDUSER` environment variable and re-execute. Or, if a password was entered in response to the input prompt message, re-execute the command and ensure that the correct password is entered.

In the case of Windows, make sure that the character string for the specified authorization identifier or password is not enclosed in single quotation marks (') in the command prompt.

Correct specification example: `PDUSER="root"/"root"`

KFPL91106-E E

aa...aa error occurred, file=*bb...bb*

A file access error occurred.

aa...aa: Processing during which the error occurred:

Open: Opening

Read: Loading

Write: Writing

Delete: Deleting

Close: Closing

Lock: Locking

bb...bb: File name (final portion of path name)

S: Terminates processing.

O: Correct the error based on the messages that are output before and after this message.

KFPL91107-E E

System call error, func=*aa...aa*, errno=*bb...bb*

A file access error occurred.

aa...aa: Name of the system function in which the error occurred

bb...bb: Error number returned by the system function (errno)

S: Terminates processing (may continue processing in the case of a close error).

O: Correct the error by referring to `errno.h` and the error number (errno) in the reference manual that describes the applicable function, and re-execute.

2.10 KFPM messages

KFPM20002-E E+S

Invalid define information in `pdmiibtgt`

There is an error in the settings of the MIB command (`pdmiibcmd`) MIB environment definition file `pdmiibtgt`.

S: Terminates processing.

Action

Check for and correct any error in the `pdmiibtgt` file's definition information under the *HiRDB-installation-directory/sample*. Then re-execute.

KFPM20003-E E+S

System call error, `func="aa....aa"`, `errno=bbb`

An error occurred in system function "`aa....aa`".

aa....aa: System function name

bbb: Error code

S: Terminates processing.

Action

See *4.2 Detail codes for system-related errors* to remove the cause of the error, then re-execute the command. If the cause of the error is still unknown, save the files under `%PDDIR%\spool` and `%PDDIR%\tmp`, and contact a customer engineer.

KFPM20004-E E+S

Command error, `command=aa....aa`, `code=bbb`

HiRDB command `aa....aa` executed in `pdmiibcmd` terminated with return code `bbb`.

aa....aa: HiRDB command name

bbb: Return code

S: Terminates processing.

Action

Refer to the message that was output before this message to the event log (in UNIX, `syslogfile`), resolve the error, and then re-execute the command.

KFPM20005-E E+S

Insufficient memory for PROCESS, `size=aa....aa`

Insufficient memory in the process private area.

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

S: Terminates processing.

Action

Increase the size of the process private memory and re-execute.

KFPM20006-E E+S

System function error occurred, func="*aa....aa*", errno=*bb...bb*

An error occurred in a HiRDB function.

aa....aa: HiRDB function name

bb...bb: Error code

S: Terminates processing.

Action

Refer to messages output before and after this message to the event log (in UNIX, syslogfile).

- If there is a message, take the action indicated in the message. If a KFPU00215-E or KFPU00241-E message was output, the monitored HiRDB system version may be older than version 07-01. In this case, delete the relevant HiRDB system definition from the pdmibtgt file.
- If there is no message, see *4.2 Detail codes for system-related errors*, remove the cause of the error, then re-execute the command. If the cause of the error cannot be determined, save the files under %PDDIR%\spool and %PDDIR%\tmp, and contact the customer engineer.

KFPM20007-E E+S

Make Directry error occurred, directory=*aa....aa*, errno=*bbbb*

Creation of the working directory pdmibwork failed.

aa....aa: Directory path name of pdmibwork, creation of which was attempted

bbbb: Error code

S: Terminates processing.

Action

See *4.2 Detail codes for system-related errors*, remove the cause of the error, and re-execute.

KFPM20008-E E+S

MIB Data format error occurred

An error occurred during MIB information creation.

S: Terminates processing.

Action

Refer to the message that was output before this message to the event log (in UNIX, syslogfile), resolve the error, and then re-execute the command. If the cause of the error cannot be determined, save the files under %PDDIR%\spool and %PDDIR%\tmp, and contact the customer engineer.

KFPM20009-E E+S

File I/O error occurred, func=*aa...aa*, file=*bb...bb*, errno=*cc...cc*

An error occurred during MIB work file I/O.

aa...aa: System function name where the error occurred

bb...bb: MIB work file name

cc...cc: Error code

S: Terminates processing.

Action

See 4.2 *Detail codes for system-related errors*, remove the cause of the error, and re-execute.

KFPM20010-E E+S

Invalid command line, command="pdmi**bc**md"

MIB command (pdmi**bc**md) command arguments, options, or option values are invalid.

S: Terminates processing.

Action

Correct the command line and re-execute.

KFPM20011-E E+S

Invalid define information in pdmi**bc**env, name="*aa...aa*", system="*bbbb*"

The contents of the "*aa...aa*" definition defined in the pdmi**bc**env file of HiRDB system "*bbbb*" are invalid. Or, they were not defined.

aa...aa: Name of the definition that could not be analyzed

bbbb: Name of the monitored HiRDB system that could not be analyzed

S: Terminates processing.

Action

In the pdmi**bc**env file definition information under the working directory %PDDIR%\conf of the monitored HiRDB system "*bbbb*", correct the value related to "*aa...aa*". Then, re-execute.

KFPM20013-E E+S

System call error,func="putenv"

The MIB command (pdmibcmd) attempted to set the environment variables, but failed.

S: Terminates processing.

Action

Contact the customer engineer.

KFPM20014-E E+S

Not Active server

Because there is no working server, data could not be collected.

S: Terminates processing.

Action

Start the HiRDB server, then re-execute the command.

KFPM20015-E E+S

Make MIB table error occurred, table kind=aaa

MIB command (pdmibcmd) Table creation failed.

aaa: Table type

S: Terminates processing.

Action

Check the contents of the pdmibenv file under %PDDIR%\conf and the HiRDB system status, then re-execute the command. For details on the operation of the facility for monitoring MIB performance information, see the *HiRDB Version 8 System Operation Guide*.

KFPM20016-E E+S

Failed MIB data exchanged DAT to CSV

An error occurred during MIB information creation in the MIB command (pdmibcmd) conversion from DAT format to CSV format.

S: Terminates processing.

Action

Save the files under %PDDIR%\spool and %PDDIR%\tmp, and contact the customer engineer.

KFPM20017-W E+S

DATADICTIONARY search failed, RDAREA="aa....aa", SQLCODE=bb....bb

Data dictionary search on RDAREA "aa....aa" failed with SQL code bb....bb.

2. Messages

Therefore, MIB information for RDAREA "*aa....aa*" could not be collected.

aa....aa: RDAREA name

bb....bb: SQL code

S: Continues processing (information for the relevant RDAREA is not displayed).

Action

Ensure that the data dictionary RDAREA hold status or the definition information in the `pdmibenv` file under `%PDDIR%\conf` matches the environment variables used by HiRDB. For details, refer to the value of the displayed `SQLCODE`. If there is an error, correct it, and then re-execute.

2.11 KFPN messages

KFPN00001-E E+L

Cannot allocate *bb...bb* byte-insufficient memory *aaaaaaaa*

A memory shortage occurred.

aaaaaaaa: Type of area:

PROCESS: Process private area

bb...bb: Size (in bytes) of area that was to be allocated

S: Terminates processing.

Action

Check if there are other processes using a large amount of memory.

There are processes using a large amount of memory:

Wait for the processes to terminate, then re-execute the command.

There are no processes using a large amount of memory:

Take one of the following actions and wait until there is sufficient memory available:

- Reduce the number of simultaneously executing processes.
- Increase the size of the swap area.
- Increase the amount of memory.

KFPN00002-E L

Internal error, func=*aa....aa*

An internal contradiction was detected.

aa....aa: Name of the module resulting in the error

S: Terminates processing.

Action

Contact a customer engineer.

KFPN00003-E E+L

System call error, func=*aa....aa*, errno=*bb...bb*

A system call (function) error occurred.

aa....aa: Name of system call (function)

bb...bb: Error number set in errno

S: Terminates processing.

Action

Check the meaning of the error number (errno: external integer variable indicating the error status), refer to `errno.h` and to the applicable OS manual to eliminate the cause of the error, then re-execute the command.

KFPN00010-I E+L

Processing completed, table="*aa...aa*"

Optimizing information about the indicated table has been stored in the dictionary table.

aa...aa: Table identifier subject to collection of optimizing information

S: Resumes processing.

KFPN00011-I E+L

Pdgetcst terminated, return code=*aa...aa*

Execution of the pdgetcst utility has terminated.

aa...aa: Return code

S: Terminates processing.

KFPN00012-I E+L

Pdgetcat started

Execution of the pdgetcat utility has started.

S: Resumes processing.

KFPN00100-E E

Usage: pdgetcst [-u user_id] [-a auth_id] [-p password] -t {table_name|ALL} [-l result_list_file_name] [[-d] | [-c {lv11|lv12}]] [-G generation_number] | [[-v space_level] -s parameter_file_name]]

Displays the format of the pdgetcst utility.

S: Terminates processing.

O: Check the pdgetcst utility parameters for any input errors.

KFPN00101-E E

Identifier "*aa...aa*" exceeds 30 characters

The authorization identifier, password, or table identifier entered on the command line exceeds 30 characters.

aa...aa: Character string truncated to 30 characters

S: Terminates processing.

O: Correct the data so that it does not exceed 30 characters and re-execute.

KFPN00102-E E

Invalid file name

The file name specified in the `-s` option is invalid. The following are possible reasons:

- The file name was not expressed as an absolute path name.
- The file name is not a file (in UNIX, an ordinary file).

S: Terminates processing.

O: Review the following, specify the correct file name, and then re-execute the command:

- Whether a file that is not an ordinary file is specified (UNIX version)
- Whether an item that is not a file is specified (Windows version)
- Whether a file name is specified as a relative path name

KFPN00103-E E

Invalid *aa....aa*

The authorization identifier or password specified in the `PDUSER` environment variable is invalid.

aa....aa: Type of error:

`user_id`: Authorization identifier

`password`: Password

S: Terminates processing.

O:

Correct the value of the `PDUSER` environment and re-execute. Alternatively, specify the `-u` or `-p` option and re-execute.

Note on specifying an authorization identifier or a password (Windows version only):

When omitting the `-u` option, make sure that the character string specifying an authorization identifier or password in the command prompt is not enclosed in single quotation marks (`'`).

Example of correct specification: `PDUSER="root"/"root"`

When specifying an authorization identifier or password in a client environment definition (`hirdb.ini`), enclose it in single quotation marks (`'`).

Example of correct specification: `PDUSER=' "root"/"root" '`

KFPN00151-E L

Error no:*cc...cc*-cannot *aa...aa* file *bb...bb*

A file access error occurred.

aa...aa: Processing resulting in the error:

close: File close processing

open: File open processing

read: Read processing

write: Write processing

bb...bb: File name (if the file name consists of fewer than 127 bytes, the entire file name is displayed; otherwise, only the first 126 bytes are displayed, prefixed with two bytes of periods (..))

cc...cc: Value of errno returned from the system call

S: Terminates processing.

Action

Refer to errno to eliminate the cause of the error, and re-execute.

KFPN00201-E L

Invalid index name "*aa...aa*"

The specified index name is invalid; one of the following conditions applies:

- The specified index name is not defined.
- The specified index name is defined for another table.
- The specified index is not a B-tree index.

aa...aa: Specified index name

S: Terminates processing.

O: Change the index name specified in the parameter file and re-execute.

KFPN00202-E L

Invalid table name "*aa...aa*"

The specified table name is invalid for one of the following reasons:

- Specified table is a view table.
- Specified table is a dictionary table.
- Specified table was not found.
- Specified table was defined with a table alias.
- The specified table is a rebalancing table.

- The specified table is a foreign table.

aa....aa: Specified table name

S: Terminates processing.

Action

Check the specified name and re-execute.

KFPN00203-E L

Inconsistent definition

Table or index definition was modified during utility execution, or a dictionary is damaged.

S: Terminates processing.

Action

Check if the table or index definition was modified during utility execution.

Modification underway:

Re-execute after the modification is completed.

Modification not underway:

Re-execute.

If this message is reissued during re-execution, recover the database from its backup copy and re-execute.

If the same message is reissued after these actions have been taken, contact a customer engineer.

KFPN00204-E L

Invalid RDAREA status, RDAREA="*aa....aa*"

Indicated RDAREA cannot be analyzed for one of the following reasons:

RDAREA with INITIAL opening attribute:

The RDAREA is not on shutdown-release open status or reference-enabled shutdown and open status.

RDAREA with DEFER or SCHEDULE opening attribute:

The RDAREA is not on shutdown-release open status, shutdown-release closed status, reference-enabled shutdown and open status, or reference-enabled shutdown and closed status.

aa....aa: RDAREA name

S: Terminates processing.

Action

Check the RDAREA's status and re-execute the command.

KFPN00206-E L

Unable to operate table during pdgetcst executing

An attempt was made to update (INSERT, DELETE, UPDATE, PURGE TABLE, or LOCK statement) a table by the optimizing information collection utility (pdgetcst) while a UAP or utility was executing.

S: Terminates processing.

O: Check for any UAP or utility that is accessing the corresponding table for the purpose of updating it. If you use the pdls command to check the transaction and lock status, you can check for relevant UAPs or utilities.

There is a relevant UAP or utility

Wait for the UAP or utility to terminate, and re-execute.

There is not a relevant UAP or utility

If there is not relevant UAP or utility transaction, and only a lock remains, contact the customer engineer.

KFPN00207-W L

Optimize information incompletd

Optimizing information to be stored differs from the actual table contents because of updates (INSERT, DELETE, UPDATE, or PURGE TABLE statement) To the table, which the optimizing information collection utility (pdgetcst) was executing.

S: Resumes processing.

O: To acquire valid optimization information, wait until the UAP that is updating the table terminates, then re-execute.

KFPN00208-E L

Invalid column name "aa....aa"

Specified column name is invalid for one of the following reasons:

- The specified column name is undefined.
- The BLOB column is specified.
- The specified column is an abstract data type.

aa....aa: Specified column name

S: Terminates processing.

Action

Specify the correct column name in the optimization information parameter file

and re-execute.

KFPN00209-E L

More than 30 characters in identifier "*aa....aa*"

Name "*aa....aa*" specified in the optimization information parameter file is longer than 30 bytes.

aa....aa: Specified value (index identifier, column name); if more than 30 bytes are specified, only the first 30 bytes are displayed

S: Terminates processing after completion of analysis of optimization information parameter file.

Action

Correct the value at the line number indicated in the KFPN00300-E message that was output immediately before this message, then re-execute.

KFPN00210-E L

Already specified in parameter file, line=*aa....aa*

Item at line *aa....aa* has already been specified in the same section.

aa....aa: Line number

S: Terminates processing after completion of analysis of optimization information parameter file.

Action

Correct the specification so that the item is not duplicated in the same section, then re-execute.

KFPN00211-E L

Invalid parameter, line=*aa....aa*

Value of item at line *aa....aa* is invalid. Following are possible reasons:

- The specified value is outside the value range permitted for the item.
- A mandatory item value is missing.
- The length of the value exceeds the permitted maximum number of digits.

aa....aa: Line number

S: Terminates processing after completion of analysis of optimization information parameter file.

Action

Correct the value specification and re-execute.

KFPN00212-E L

Specified keyword before "INDEX" or "COLUMN" keyword, line=*aa....aa*

Item at line *aa....aa* is specified before INDEX or COLUMN.

aa....aa: Line number

S: Terminates processing after completion of analysis of optimization information parameter file.

Action

When the item at line number *aa....aa* is item optimization information

Specify the item after the INDEX specification and re-execute.

When the item at line number *aa....aa* is item optimization information

Specify the item after the COLUMN specification and re-execute.

KFPN00214-E L

aa....aa not supported, index name "*bb...bb*"

Because *aa....aa* is not supported by the Optimization Information Collection Utility, the collection of optimization information for "*bb...bb*" was skipped.

aa....aa:

Multi-value column: Repetition column

bb...bb: Index name

S: Resumes processing.

KFPN00215-E L

Table not found, schema="*aa....aa*"

There is no table in "*aa....aa*" from which optimization information can be acquired.

aa....aa: Schema name

S: Terminates processing.

O: Check that the table from which optimization information is to be acquired exists in "*aa....aa*". If not, specify in the *-a* option the name of the schema in which is located the table from which optimization information is to be acquired.

KFPN00216-E E+L

Invalid *aa* option

One of the following errors was found in the specification of the *aa* option:

- An error was found in the value specified in the *aa* option.
- When *-q* is specified as the *aa* option and the current environment does not support the HiRDB Staticizer Option.

aa: Option name

S: Terminates processing.

O:

- An error was found in the value specified in the *aa* option:
Correct the value specified in the option, and then re-execute.
- When the *-q* option is specified as *aa*:
Delete the specification of the *-q* option, and then re-execute. Alternatively, specify the *-q* option in an environment that supports use of the HiRDB Staticizer Option, and then re-execute.

KFPN00217-E E+L

Current RDAREA "*aa....aa*" analyze

RDAREA "*aa....aa*" is subject to analysis by the utility as the current RDAREA because no replica RDAREA was found in the specified generation.

aa....aa: RDAREA name

S: Resumes processing.

KFPN00300-E L

Syntax error in parameter file, line=*aa....aa*

The optimization information parameter file contains a syntax error. Following are possible reasons:

- The item name does not begin in the first byte.
- Multiple items or values are specified on the same line.
- The line consists of more than 80 bytes.

aa....aa: Line number containing the syntax error

S: Terminates processing after completion of analysis of optimization information parameter file.

Action

Correct the specification in the optimization information parameter file and re-execute.

KFPN00301-E L

Data conversion error, column type=*aa....aa*, line=*bb....bb*

System was unable to convert to type *aa....aa* a value specified in the optimization information parameter file. Following are possible reasons:

- A numeric value is required, but characters were specified.
- The value specified for the column type in the optimization information parameter file cannot be converted.
- Overflow occurred in the specified value.

aa...aa: Column type to be converted

bb...bb: Line number resulting in the conversion error

S: Terminates processing after completion of analysis of optimization information parameter file.

Action

Correct the data to be converted in the optimization information parameter file and re-execute.

KFPN00303-E L

RDAREA not found, RDAREA id=*aa...aa*

The RDAREA to be processed could not be found for the following reason:

- The RDAREA to be processed was deleted during utility operation.

aa...aa: RDAREA ID

S: Terminates processing.

O: If the RDAREA to be processed was deleted during utility operation, reconstruct an environment that can execute the utility, and then re-execute. If the RDAREA to be processed was not deleted, contact a customer engineer.

KFPN00400-E E+L

RPC(system) error, func=*aa...aa* code=*bb...bb*

An RPC-related error or system-related error occurred.

aa...aa: Name of function resulting in the error

bb...bb: Error detail code

S: Terminates processing.

Action

See *4. Error Detail Codes* to eliminate the cause of the error, and re-execute the command. If the error cannot be corrected by the HiRDB administrator, contact a customer engineer.

KFPN00401-E L

Error occurred on BES(SDS), server=*aa...aa*

An error occurred during HiRDB/Single Server processing or during back-end server processing in a HiRDB/Parallel Server.

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

S: Terminates processing.

Action

Correct the error by referring to the message output to standard error, or to standard output, and re-execute.

KFPN00402-E E

`pdgetcst` must be executed at unit defined as manager

Execute the `pdgetcst` utility from the unit where the system manager (MGR) is defined.

S: Terminates processing.

Action

Remotely log on to the unit on which the system manager (MGR) is defined, and then re-execute the command.

KFPN00403-E L

Directory access error

An error occurred while accessing the data directory. The data directory may be damaged.

S: Terminates processing.

Action

Recover the database from its backup copy and re-execute. If this message is reissued, contact a customer engineer.

KFPN00404-E E+L

Insufficient memory in message buffer pool due to concurrent execution of "`pdgetcst`"

A temporary memory shortage occurred in the message storage buffer pool for the utility server while `pdgetcst` was executing concurrently.

The KFPS00854-W message may be output when this error occurs; however, a server error has not occurred in this case.

S: Terminates processing.

O: Wait until execution of the current `pdgetcst` is completed, then re-execute.

KFPN00405-E L

Unable to send message from *aa....aa* to *bb....bb*

Data cannot be sent from host *aa....aa* to host *bb....bb* because a communication error occurred.

aa....aa: Send source host name*

bb....bb: Send destination host name *

* If the system switching facility is being used, the host name of the primary system is

indicated.

S: Terminates processing.

O: Take action appropriate to the KFPN00400-E message that was output before this message. If a physical communication error has not occurred, 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.

KFPN00406-E E

Current RDAREA changed

The current RDAREA was changed while the utility was running.

S: Terminates processing.

O: Re-execute. Do not change the current RDAREA while the utility is running.

KFPN00450-I L

Deleted optimize information for table "*aa...aa*"

Optimizing information was deleted from a dictionary table.

aa...aa: Table identifier subject to deletion of optimizing information

S: Resumes processing.

KFPN10000-E E

Invalid directory name, option=*aa*

The system was unable to set the directory or device name specified in the *aa* option of the `pdgeter` command for one of the following reasons:

- The specified directory or device was not found.
- The command executor did not have the write privilege for the specified directory.
- The entity corresponding to the specified directory name did not have the directory attribute.
- The entity corresponding to the specified device name did not have the device attribute.
- The device name was specified in the `-w` option.

aa: Invalid option name specified:

-o: Name of output destination directory or device

-w: Name of work directory

S: Terminates processing.

Action

Check the directory name or device name and re-execute the command.

KFPN10050-E E

Unable to set default, option=*aa*

The system was unable to set the default value for the *aa* option of the `pdgeter` command for one of the following reasons:

- The command executor did not have the write privilege for `$PDDIR` or `$PDDIR/erinf`.
- A file with the same default name was found.

aa: Option for which default value setting failed:

-o: Name of the output destination directory

-w: Name of the work directory

S: Terminates processing.

Action

Eliminate the cause of the error and re-execute the command.

KFPN10051-E E

Error information file already exists, directory=*aa....aa*

The system was unable to acquire error information because the directory or temporary work area at the `pdgeter` command output destination contained one of the following directories or files:

- `PDDIR`
- `lib`
- `usr`
- `HiRDB`

aa....aa: Directory specified in the -o or -w option or its default value

S: Terminates processing.

Action

If the indicated directory or file is not needed, delete it and re-execute the command. If it is needed, use another directory for the `pdgeter` command and re-execute the command.

KFPN10100-E E

Invalid parameter

Invalid parameter was specified in the `pdgeter` command:

- An invalid option was specified.

S: Terminates processing.

Action

Correct the parameter in the `pdgeter` command and re-execute the command.

KFPN10101-E E

Invalid *aa* option

Specified option *aa* was invalid in the `pdgeter` command:

- A command argument was missing.

aa: Invalid option:

-o: Name of the output destination directory

-w: Name of the work directory

-x: Name of the host

S: Terminates processing.

Action

Specify the correct parameter in the `pdgeter` command.

KFPN10200-W E

Unable to get HiRDB files

The `-a` option was specified in the `pdgeter` command, but the system was unable to obtain the master directory, data directory, or data dictionary. Following are possible reasons:

- `$PDDIR/conf/INITCONT` (`pdinit` control statements file) was not found at the command startup host.
- `$PDDIR/conf/pdsys` (system common definition) was not found at the command startup host.
- The host containing the master directory, etc. (single server or dictionary server), was not specified in the `-x` option of the `pdgeter` command.
- The `pdstart` operand is missing in the system common definition.
- The HiRDB file system area specified in `$PDDIR/conf/INITCONT` (`pdinit` control statements file) was not found at the host containing the master directory, etc. (single server or dictionary server).

S: Resumes processing.

KFPN10201-W E

Unable to get HiRDB System information, `host_name=aa....aa`

The system was unable to acquire shared memory dump information or system information for host name `aa....aa` by the `pdgeter` command. Following is a possible

reason:

- The HiRDB is not active.

aa...aa: Name of the host for which acquisition of shared memory information or system information failed

S: Resumes processing.

KFPN10202-W E

Unable to get error information, *host_name=aa...aa*

The system was unable to acquire error information for host name *aa...aa* by the `pdgeter` command. Following are possible reasons:

- The specified host name was not found.
- A network error occurred.
- There was not enough space at the command startup host.
- A directory or device specified in the `-o` option may have been deleted for some reason during execution of the `pdgeter` command.
- A directory specified in the `-w` option may have been deleted for some reason during execution of the `pdgeter` command.
- Output of execution results failed for an OS command that was issued within the `pdgeter` command. In this case, the name of the corresponding command startup host is displayed as *host_name*.

aa...aa: Host name

S: Resumes processing.

Action

To acquire error information about the erroneous host, specify the correct host name in the `-x` option and re-execute the command. If a network error has occurred, the command must be executed at the corresponding host.

KFPN10203-E E

HiRDB home directory not defined

The system was unable to execute the `pdgeter` command because the HiRDB directory (`$PDDIR`) was not set.

S: Terminates processing.

Action

Set the HiRDB directory (`$PDDIR`) for the HiRDB administrator and re-execute the command.

KFPN10204-W E

HiRDB home directory not defined, host_name=*aa...aa*

The system was unable to acquire error information about the indicated host, because the \$PDDIR environment variable was not set for host name *aa...aa* specified in the pdgeter command.

aa...aa: Host name

S: Resumes processing.

Action

Set the \$PDDIR environment variable for the HiRDB administrator at the corresponding host and re-execute the command.

KFPN10300-I E

Pdgeter started

Execution of the pdgeter command has started.

S: Resumes processing.

KFPN10301-I E

Pdgeter terminated, return code=*aa...aa*

Execution of the pdgeter command has terminated.

aa...aa: Return code (termination code):

0: Terminated normally.

4: Terminated normally, but a warning message was output.

8: Processing was cancelled due to an error.

12: Processing was cancelled due to an interrupt (signal occurred).

S: Terminates processing.

Action

Return code 4:

Check the warning message that was output during processing and eliminate the cause of the error.

Return code 8:

Check the error message that was output during processing and eliminate the cause of the error.

KFPN10302-I E

Usage: pdgeter [-o dir_name | dev_name] [-w dir_name] [-x host_name [,host_name]...] [-am]

Displays the format of the `pdgeter` command.

- o: Name of the output destination directory or device
- w: Name of the work directory
- x: Name of the host
- a: Acquire all information
- m: Do not acquire shared memory dump or system information

S: Terminates processing.

Action

Specify the correct parameters in the `pdgeter` command and re-execute the command.

KFPN11000-E E

Invalid directory or file name, option=*aa*

The directory or file specified in option *aa* of the `pddefrev` command cannot be set for one of the following reasons:

- The specified directory or file was not found.
- The command executor does not have write privilege for the specified directory.
- The specified directory does not have directory attribute (name specified as a directory name does not belong to a directory).
- The command executor does not have read privilege for the specified file.

aa: Option whose value is invalid:

- o: Definition SQL output file
- w: Work directory name

S: Terminates processing.

Action

Check the directory name or file name and re-execute the command.

KFPN11100-E E

Invalid parameter

The `pddefrev` command contains an invalid parameter:

- An invalid option was specified.

S: Terminates processing.

Action

Correct the parameter in the `pdddefrev` command and re-execute the command.

KFPN11101-E E

Invalid *aa* option

Option *aa* is invalid in the `pdddefrev` command for one of the following reasons:

- A command argument is missing.
- Information specified in `-o` option is not an absolute path.

aa: Option whose value is invalid:

- f: Control statements file name
- o: Definition SQL output file name
- w: Work directory name

S: Terminates processing.

Action

Check the `pdddefrev` command and correct any invalid parameters.

KFPN11302-I E

Usage: `pdddefrev -f control_file_name -o output_file_name [-w work_dir_name]`

Displays the format of the `pdddefrev` command.

- f: Control statements file name
- o: Definition SQL output file name
- w: Work directory name

S: Terminates processing.

Action

Specify the `pdddefrev` command correctly and re-execute.

KFPN90001-E E

Insufficient memory, required memory size=*aa...aa*, area type=*bbbbbbb*

Memory shortage occurred.

aa...aa: Size (in bytes) of area to be allocated

bbbbbbb: Type of area

PROCESS: Process private memory

S: Terminates processing.

Action

Check if there is a process that uses a large amount of memory:

- If there is a process that uses a large amount of memory:
Wait until that process has terminated, then re-execute the command.
- If there is no process that uses a large amount of memory:
Contact a customer engineer.

KFPN90002-E E

Internal error, func=*aa....aa*

Internal conflict was detected.

aa....aa: Name of the module resulting in the error

S: Terminates processing.

Action

Contact a customer engineer.

KFPN90003-E E

System call error, func=*aa....aa*, errno=*bb....bb*

System call resulted in an error.

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

bb....bb: Value of errno for the system call resulting in the error

S: Terminates processing.

Action

Check the value of the error indicator, correct the error by referencing `errno.h` and the applicable OS manual, then re-execute.

KFPN90004-E E

Usage: `pdvwopt [-d] filename`

Displays the format of the `pdvwopt` command (access path display utility).

S: Terminates processing.

Action

Check the `pdvwopt` command for any invalid parameters.

KFPN90006-E E

Access path file *bb....bb* error, file=*cc....cc*, errno=*aa....aa*

File access error occurred.

aa....aa: Value of errno returned from the system call

bb....bb: Processing that resulted in the error:

`close`: File close processing

`open`: File open processing

`read`: Read processing

`write`: Write processing

`cc...cc`: File name

If the file name is less than or equal to 126 bytes, HiRDB displays the entire file name. Otherwise, it outputs the file name by appending 2-byte periods to the first 126 bytes.

S: Terminates processing.

Action

Check the value of the error indicator, correct the error by referencing `errno.h` and the applicable OS manual, then re-execute.

KFPN90007-E E

Command version incompatible, access path file version=`aa...aa`,
command version=`bb...bb`

The version revision number of the access path information file does not match the version revision number of the command.

`aa...aa`: Version revision number of the access path information file

`bb...bb`: Version revision number of the command

S: Terminates processing.

O: Use a command with the same version revision number as the access path information file and re-execute.

KFPN90008-E E

Invalid format of access path file `aa...aa`

The format of specified file `aa...aa` is invalid.

`aa...aa`: Name of the specified file

If the file name is less than or equal to 126 bytes, HiRDB displays the entire file name. Otherwise, it outputs the file name by appending 2-byte periods to the first 126 bytes.

S: Terminates processing.

O: Check if the specified file is an access path information file.

KFPN91001-I S

Usage: `pdobils [-s server_name] [-r]`

There is an error in the `pdobils` command option format.

S: Terminates processing.

O: Re-execute on the basis of the method of command usage.

KFPN91002-E S

Invalid server name *aa....aa*

The server name specified in the `pdobils` command is invalid.

aa....aa: Server name

If the specification is 9 or more characters, the first 9 characters are displayed.

S: Terminates processing.

O: Correct the server name specification in the `pdobils` command, then re-execute the command.

KFPN91003-E S

Internal function error, `func=aa....aa`, return code=`bb....bb`

An error occurred during processing of the `pdobils` command.

aa....aa: Function name where the error occurred

bb....bb: Detail code of the system-related error

S: Terminates processing.

O: See *4.2 Detail codes for system-related errors*, remove the cause of the error, then re-execute the command.

KFPN91004-E S

Insufficient memory on PROCESS, `size=aa....aa`

An attempt was made during execution of the `pdobils` command to allocate the process private area, but it could not be allocated due to insufficient memory.

aa....aa: Size of the attempted allocation area (bytes)

S: Terminates processing.

O: Take one of the following actions and wait until there is sufficient memory available:

- Reduce the number of simultaneously executing processes.
- Increase the size of the swap area.
- Increase the amount of memory.

KFPN91005-E S

Unable to execute `pdobils` command, because unit of hostname *aa....aa* not online

The `pdobils` command could not execute because the unit on hostname *aa....aa* has

2. Messages

not started.

aa....aa: Hostname that the `pdobils` command could not execute

S: Terminates processing.

O: Wait for the system or unit to go online, then re-execute.

KFPN91006-E S

Unable to execute `pdobils` command, because server *aa....aa* not active

The `pdobils` command could not be executed, because server *aa....aa* has not started.

aa....aa: HiRDB server name that could not execute the `pdobils` command

S: Terminates processing.

O: Start the HiRDB server, and re-execute.

2.12 KFPO messages

KFPO00100-E E+L

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

A system call that was issued from within a HiRDB system function resulted in an error.

aa....aa: Name of system call

bbb: Return code from the system call (*errno*)

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

S: Continues processing if processing can be continued. If not, interrupts processing.

O: Contact the HiRDB administrator.

Action

Take one of the following actions:

- If an error message or warning message was output before or after this message, follow the action indicated in that message.
- See 4.3 *System call return codes*, and take action.

If none of these actions is effective, contact the customer engineer.

KFPO00103-E E

Shared memory pool damaged. location=*0xaaaaaaaa* (*0xbbbbbbbb*, *0xcccccccc*)

A segment was damaged; the damaged segment is located at address *0xaaaaaaaa* from the beginning of the shared memory pool.

aaaaaaaa: Location of the damaged segment relative to the beginning of the shared memory pool

bbbbbbbb: Contents of the first 8 bytes of the damaged segment

cccccccc: Contents of the last 8 bytes of the damaged segment (if the contents cannot be displayed, ******* is displayed)

S: Terminates abnormally.

O: Record the location and segment contents displayed in this message and contact the HiRDB administrator. In UNIX, if a core file dump is output, save it and contact a customer engineer.

Action

Check the cause of the damage to the shared memory pool.

KFPO00104-E E

Shared memory subpool damaged. location=0xaaaaaaaa (0xbbbbbbbb, 0xcccccccc)

A memory block was damaged; the damaged memory block is located at address 0xaaaaaaaa from the beginning of the shared memory subpool.

aaaaaaaa: Location of the damaged memory block relative to the beginning of the shared memory subpool

bbbbbbbb: Contents of the first 8 bytes of the damaged memory block

ccccccc: Contents of the last 8 bytes of the damaged memory block (if the contents cannot be displayed, ***** is displayed)

S: Terminates abnormally.

O: Record the location and memory block contents displayed in this message and contact the HiRDB administrator. In UNIX, if a core file dump is output, save it and contact a customer engineer.

Action

Check the cause of the damage to the shared memory subpool.

KFPO00105-E E

Server aa....aa (process ID=bb....bb) killed by code=cc....cc

A HiRDB system server was terminated due to an error.

aa....aa: Server name for the abnormally terminating process

(if the server name cannot be determined, ***** is displayed)

bb....bb: Process ID of the abnormally terminating process

cc....cc: ABORT code (for details on the ABORT code, see 3. *ABORT Codes*)

S: If the system service was terminated during processing, terminates HiRDB (the unit for HiRDB/Parallel Server) abnormally. If the system service was terminated during UAP processing, executes a post-process. Restart the server if necessary.

O: Save files in the following directories and contact the HiRDB administrator:

- %PDDIR%\spool
- %PDDIR%\tmp\home

Action

Take action according to the output abort code.

KFPO00106-E E

```
{ "Malloc(aa...aa)" | "Realloc(bb...bb,aa...aa)" | "Calloc(cc...cc,aa...aa)" }failed,process ID=dd...dd, type=0xee...ee
```

Process private area cannot be allocated due to an error in the standard C function `malloc`, `realloc`, or `calloc`.

aa...aa: Size specified in the `malloc`, `realloc`, or `calloc` function issued internally in the HiRDB system

bb...bb: Area address specified in the `realloc` function issued internally in the HiRDB system

cc...cc: Number of array elements specified in the `calloc` function issued internally in the HiRDB system

dd...dd: ID of the process that issued the `malloc`, `realloc`, or `calloc` function

ee...ee: Type code (identification information set by each component of the HiRDB system)

S: If it is possible to continue system operation, resumes processing. Otherwise, terminates the HiRDB system abnormally.

O: Record this message and contact the HiRDB administrator. In UNIX, if a core file dump is output, save it and contact the HiRDB administrator.

Action

Take one of the following actions:

- If system processing is being resumed, terminate any unneeded processes.
- Reevaluate the value of the `pd_max_users` operand.
- Add a system swap area.
- Add the main storage device.

KFPO00107-E E

```
"aa...aa(bb...bb)" failed, errno=cc: dd...dd
```

An error occurred in a system call that was issued internally in the HiRDB system.

aa...aa: Name of system call

bb...bb: Name of module or function that issued the system call

cc...cc: Value of `errno` set by the system call error

dd...dd: Nature of system call error

S: Takes one of the following actions according to the severity of the error:

- Cancels processing and terminates the process abnormally.

- Cancels processing and returns control to the current service calling source.
- Resumes processing.

O: Refer to the applicable OS manual in order to check the cause of the error on the basis of the system call name and the value of `errno`. In UNIX, if a core file dump is output, save it and contact the HiRDB administrator.

Action

Refer to the applicable OS manual in order to check the cause of the error on the basis of the system call name and the value of `errno`, and correct the UAP, change the system definitions, or regenerate the operating system.

Following are the principal methods by which this problem can be resolved:

System call name	Call module	errno	Error description	Action
open	Arbitrary	23	In UNIX, the number of open files exceeds the maximum value defined for the system. In Windows, a work file for shared memory could not be allocated due to a capacity shortage in installed drives.	In UNIX, increase the value specified for <code>nfile</code> in the operating system kernel parameters. Also, close any extraneous processes and windows. In Windows, allocate free space on installed drives greater than or equal to the shared memory size.
		24	In UNIX, too many files are opened by the indicated process. In Windows, a work file for shared memory could not be allocated due to a capacity shortage in installed drives.	In UNIX, if the error occurred during execution of a HiRDB operating command or utility, increase the value specified for <code>maxfiles</code> in the operating system kernel parameters. In Windows, allocate free space on installed drives greater than or equal to the shared memory size.
		47	In AIX 5L, an attempt was made to open a write-protected volume in write-enabled mode.	If Real Time SAN replication is used, execute the <code>pdriasechk</code> command to verify that the pair logical volume group is configured correctly.

System call name	Call module	errno	Error description	Action
open	logblib.c	999	In the case of Windows, HiRDB work file may have been damaged.	<p>First, ensure that HiRDB has stopped, then delete all the files listed below and recover. Note that the files from number 4 may not always exist.</p> <ol style="list-style-type: none"> 1. %PDDIR%\uxpldir\spool\system\filmng.dat 2. %PDDIR%\uxpldir\spool\system\flg.dat 3. %PDDIR%\uxpldir\spool\system\shmmng.dat 4. %PDDIR%\spool\...pdatmode 5. %PDDIR%\spool\...pdipcid 6. %PDDIR%\spool\oslmqid 7. %PDDIR%\spool\oslsmid 8. %PDDIR%\spool\pdprcsts 9. %PDDIR%\spool\scdqid1 10. %PDDIR%\spool\scdqid2 11. %PDDIR%\tmp\pdommenv 12. All files under %PDDIR%\uxpldir\spool\shm 13. %PDDIR%\uxpldir\spool\system\semmng.dat 14. %PDDIR%\uxpldir\spool\system\msgmng.dat <p>When starting HiRDB after deleting all these files, check that no other applications, such as Explorer, are accessing %PDDIR%\tmp.</p>
write	uss_dump uss_dump_ h uss_dump_ d usm_dump usm_rmdum p usm_svdum p	12	The file system containing the HiRDB operation directory is full.	<p>Delete troubleshooting information under the HiRDB directory.</p> <p>In UNIX, to delete troubleshooting information, use either the OS <code>rm</code> command or the HiRDB <code>pdcsPOOL</code> command.</p> <p>In Windows, to delete troubleshooting information, use either the OS <code>del</code> command or the HiRDB <code>pdcsPOOL</code> command.</p>
	Arbitrary	47	In AIX 5L, an attempt was made to write to a write-protected volume.	If Real Time SAN replication is used, execute the <code>pdriSechk</code> command to verify that the pair logical volume group is configured correctly.

2. Messages

System call name	Call module	errno	Error description	Action
shmact	ommalloc ommrma1c	22	In UNIX, shared memory for HiRDB is missing. (The shared memory for HiRDB might have been deleted). It is possible that a HiRDB command was entered before the OS was started (including when a HiRDB command was coded in an OS environment file, such as /etc/localrc). In the case of Windows, the work file under %PDDIR% may have been deleted while HiRDB was active.	If HiRDB common memory was deleted, contact a customer engineer. If a HiRDB command was executed before the OS was started, re-execute the command after the activation of the OS is completed. UNIX version: If a HiRDB command was coded in the OS environment file /etc/localrc, the command is executed before the OS is started, which results in an error. Therefore, a HiRDB command should not be coded in the /etc/localrc file. Windows version: If HiRDB did not shut down, terminate it forcibly, and then restart HiRDB. If a command that is executable irrespective of the operation of HiRDB was executed, this message appears in error and can be ignored. Check the execution results of the command.
	ommrma1c	24	The number of common memory devices connected to the invocation source process exceeded the system limit.	Specify an appropriate value in the relevant system parameter shown below. For details about how to perform system estimates, see the <i>HiRDB Version 8 Installation and Design Guide</i> . <ul style="list-style-type: none"> • HP-UX: shmseg • Solaris: shminfo_shmseg • Linux: SHMSEG For AIX 5L, set ON in the EXTSHM environment variable.
shmctl	ommfixed	1	The user executing this command is not a super-user. It is possible that the file was improperly modified by the owner of a file under \$PDDIR/bin.	Check the owner of the execute form file (pdommfixed under \$PDDIR/bin) and the owner's privilege. If the owner is not root or his or her execution privilege is not s (with file mode -r-sr-xr-x), the owner of a file under \$PDDIR/bin was changed after the pdsetup command had been executed. As a superuser, execute the pdsetup -d command, reply y to the message, and then re-create the HiRDB execution environment by using the pdsetup command. After that, restart HiRDB.

System call name	Call module	errno	Error description	Action
close	Arbitrary	47	In AIX 5L, an attempt was made to write to a write-protected volume.	If Real Time SAN replication is used, execute the <code>pdrisechk</code> command to verify that the pair logical volume group is configured correctly.
semget	osysemg	12	In the case of Windows, there is no room for semaphore identifiers.	Estimate the number of semaphore identifiers required by HiRDB and set a value greater than the value in the <code>PDUXPLSEMMAX</code> system environment variable. After setting, terminate HiRDB and restart the service. For the procedure for estimating the number of semaphore identifiers, see the <i>HiRDB Version 8 Installation and Design Guide</i> .
	pdi_osm_get	999		

See 4.3 *System call return codes*, for other representative `errno`s.

KFPO00109-E L

Shared memory pool (shared memory ID `aa...aa`, server type=`bb...bb`) for HiRDB server damaged. location=`0xcxxxxxx` (`0xddddddd`, `0xeeeeee`)

A shared memory pool for user server (shared memory ID = `aa...aa`, server identifier = `bb...bb`) was damaged.

`aa...aa`: Identifier of the damaged shared memory pool for user server

`bb...bb`: Server identifier (if this information cannot be displayed, `*****` is displayed)

`xxxxxxx`: Location of the damaged segment relative to the beginning of the shared memory pool

`ddddddd`: Contents of the first 8 bytes of the damaged segment

`eeeeeee`: Contents of the last 8 bytes of the damaged segment (if the contents cannot be displayed, `*****` is displayed)

S: Terminates abnormally.

O: Record the location and segment contents displayed in this message and contact the HiRDB administrator. In UNIX, if a core file dump is output, save it and contact the HiRDB administrator.

Action

Contact a customer engineer. Correct the program, modify the system definitions, or regenerate the operating system.

KFPO00111-E L

Insufficient memory on *aa...aa*, size=*bb...bb*

A memory shortage occurred.

aa...aa: Name of defined variable

bb...bb: Size (in bytes) That was to be allocated

S: Terminates processing.

O: Contact the HiRDB administrator and check the cause of the error.

Action

Contact a customer engineer.

KFPO00112-E L

Getarea request error, size=*aa...aa*

A work area shortage occurred.

aa...aa: Size (in bytes) That was to be allocated

S: Terminates abnormally.

O: Contact the HiRDB administrator and check the cause of the error.

Action

Contact a customer engineer.

KFPO00113-E L

"shmget(manager)" failed. size=*aa...aa*, errno=*bbb*

An error occurred with the shmget system call issued to collect the unit controller shared memory.

aa...aa: Size (in bytes) of shared memory that was to be allocated

bbb: errno value of the shmget system call

S: Terminates abnormally.

O: Take action appropriate to the errno value of the shmget system call:

KFPO00114-E L

"shmget(*aa...aa*)" failed, size=*bb...bb*, errno=*ccc*

An error occurred in the shmget system call while allocating the shared memory for server *aa...aa*.

aa...aa: Server identifier

bb...bb: Size (in bytes) of shared memory that was to be allocated

ccc: errno value of the shmget system call

S: Terminates processing.

O: Take action appropriate to the `errno` value of the `shmget` system call:

errno	Cause	Administrator's action
12	Specified size of shared memory is not available in the operating system.	Terminate the other control statements using the shared memory on the same machine and restart the server where the error occurred. Or, shut down the HiRDB system and increase the real memory in the operating system.
22	The shared memory size exceeded the maximum value for the operating system.	Shut down the HiRDB system and reduce the number of servers defined in the same unit. Or, increase the maximum segment size of the shared memory in the operating system, and re-create the kernel.
28	The shared memory identifiers count exceeded the maximum value for the operating system.	Terminate the other control statements using the shared memory on the same machine and restart the server where the error occurred. Or, shut down the HiRDB system, either reduce the number of shared memory sectors in the operating system or increase the maximum number of shared memory identifiers, then re-create the kernel.
Other	—	Contact a customer engineer.

— : Not applicable

KFPO00115-W E+L

Server *aa....aa* (process ID=*bb....bb*) killed by code=*cc....cc*

A process was terminated forcibly due to an error. This message is output if a process is terminated forcibly when a transaction is canceled.

aa....aa: Name of the server where the process terminated abnormally

If the server name cannot be determined, `*****` is displayed.

bb....bb: Process ID of the process that terminated abnormally

cc....cc: ABORT code

For ABORT codes, see 3. *ABORT Codes*.

S: Re-activates the user server process as necessary. In this case, HiRDB (in the case of a HiRDB/parallel server, a unit) does not terminate abnormally.

O: Error information is output if `put` is specified in the `pd_cancel_dump` operand. If it is not needed, the error information can be deleted.

2.13 KFPR messages

KFPR00754-I L+S

Pdcopy started

Database copy utility (pdcopy) processing has started.

S: Resumes processing.

KFPR00756-I L+S

Pdcopy terminated, return code=*aa*

Database copy utility (pdcopy) processing terminated with the indicated return code.

aa: Return code of the database copy utility (pdcopy):

0: Normal termination

8: Abnormal termination (error occurred during copy processing, but some of the files were backed up successfully)

12: Abnormal termination (all copy processing failed)

S: Resumes processing.

Action

In the case of abnormal termination, refer to the error message that was output before this message to eliminate the cause of the error.

KFPR00757-I E+L

Retry reopen *aa*-time of *bb* after *cc*-minute, host=*dd...dd*,
file=*ee...ee*, reason=*ff...ff*

Multivolume file reopen processing will be executed *cc* minutes later. The maximum retries count is *bb*, and the next retry number is *aa*. The file name is *ee...ee* at host *dd...dd*.

aa: Next retry number

bb: Maximum retries count

cc: Retry interval

dd...dd: Host name

ee...ee: File name

ff...ff: Reason for retry:

No-file: File is not set.

Same-file: The same file as before is set.

S: Resumes processing.

Action

Set the next file during the retry.

KFPR00758-I L

File swapping started, file=*aa....aa*, reason=*bb...bb*

Processing of second or subsequent volume of multivolume file *aa....aa* has started.

aa....aa: File name

bb...bb: Reason code:

ENOSPC: Space ran out at the device.

EOV: End-of-volume was detected.

S: Resumes processing.

KFPR00764-I L+S

`pdrstr` started

Database recovery utility (`pdrstr`) processing has started.

S: Resumes processing.

KFPR00765-I L

`pdrstr` terminated, return code=*aa*

Database recovery utility (`pdrstr`) processing terminated with the indicated return code.

aa: Return code of the database recovery utility (`pdrstr`):

0: Normal termination

4: Termination with warning (close error occurred in the backup file or unload log file; or, the backup file does not contain RDAREA data subject to recovery)

8: Abnormal termination (error occurred, but at least one RDAREA was recovered successfully)

12: Abnormal termination (recovery of all RDAREAs failed)

S: Resumes processing.

Action

In the case of abnormal termination, refer to the error message that was output before this message to eliminate the cause of the error.

KFPR00766-I L

Recovery of "*aa....aa*" ended *bb...bb*

Recovery of RDAREA "*aa....aa*" is complete.

2. Messages

aa....aa: RDAREA name

bb....bb: Completion status:

abnormally: Recovery failed.

normally: Recovery was successful.

S: Resumes processing.

Action

If recovery failed, refer to the error message that was output before this message to eliminate the cause of the error, and re-execute recovery of the corresponding RDAREA.

KFPR00767-I E+L

Retry reopen *aa*-time of *bb* after *cc*-minute, host=*dd....dd*,
file=*ee....ee*, reason=*ff....ff*

Multivolume file reopen processing will be executed *cc* minutes later. The maximum retries count is *bb*, and the next retry number is *aa*. The file name is *ee....ee* at host *dd....dd*.

aa: Next retry number

bb: Maximum retry number

cc: Retry interval

dd....dd: Host name

ee....ee: File name

ff....ff: Reason for retry

S: Resumes processing.

Action

Set the next file during the retry.

KFPR00768-I L

File swapping started, file=*aa....aa*, reason=*bb....bb*

Processing of second or subsequent volume of multivolume file *aa....aa* has started.

aa....aa: File name

bb....bb: Reason code:

ENOSPC: Space ran out at the device.

EOV: End-of-volume was detected.

S: Resumes processing.

KFPR00786-I L+S

Differential recovery by manual mode

Recovery processing that does not use a differential backup management file is being started.

S: Continues processing.

KFPR16003-E L+S

aaaaaa error occurred, file=*bb...bb*

A file I/O error occurred.

aaaaaa: Processing resulting in the error:

close: Close processing

Open: Open processing

Read: Read processing

Reopen: Opening of the second or subsequent volume of a multivolume file

write: Write processing

bb...bb: File name

S: Terminates processing. In the case of the `close` error, the system may resume processing.

Action

Refer to the message that was output after this message to eliminate the cause of the error, and re-execute the command.

KFPR16005-E L+S

Insufficient memory for `PROCESS`, size=*aa...aa*

An attempt to allocate a work area needed for executing the database copy utility (`pdcopy`) failed due to insufficient process private area.

aa...aa: Area size (in bytes) That was to be allocated

S: Terminates processing.

O: Contact the HiRDB administrator.

Action

Determine whether there are other processes that use a large amount of memory.

When there is a process using a large amount of memory:

Wait until the process terminates, and then re-execute the command.

When there is no process using a large amount of memory:

Use one of the following methods to ensure that there is sufficient memory:

- Reduce the number of simultaneously executing processes.
- Increase the size of the swap area.
- Increase the amount of memory.

KFPR16014-E L+S

Pdcopy version *aa...aa* and HiRDB version *bb...bb* do not match

The version of the database copy utility (pdcopy) does not match the HiRDB version.

aa...aa: Version revision number of the database copy utility

bb...bb: Version revision number of HiRDB

S: Terminates processing.

Action

Execute the database copy utility using the version revision number that is the same as that of the HiRDB being used.

KFPR16101-E L+S

File I/O error occurred, reason=*aa...aa*, func=*bb...bb*, errno=*cc...cc*,
(*dd...dd*)

An error occurred during file I/O processing.

aa...aa: Cause of error:

File-format:

The specified file format differs from the actual file format. It is possible that the specified file name is incorrect, or the file format specified on the command line or in the control statement does not match the contents.

File-lock:

The file to be used is locked by another utility and the file read/write operation cannot be executed. The file name specified in the command line or control statement might be in use by another job. In UNIX, there might be a shortage of file locking resources for an OS kernel parameter.

File-sequence:

The sequence of volumes of a multivolume file is invalid.

Invalid-device:

Entry type (attribute) of the specified file is invalid. Or, when MTguide is to be used, MTguide has not been started. If the system can identify the entry type, it displays one alphabetic character enclosed in parentheses. This character is the same as the entry in the mode output by the operating

system's `ls -l` command. It is possible that a directory name was specified in a location that requires a file name (or vice versa), or that a character special file was assigned to a file where a character special file cannot be used.

Invalid-environment:

Because the set value 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 satisfies the prerequisite conditions of the HiRDB system or related program products.

Invalid-parameter:

The combination of specified parameters is invalid.

Invalid-path:

The path name is invalid.

Invalid-permission:

The specified file permission is invalid (access permission error). A file is being used for which the HiRDB administrator has not granted an access privilege, or for MT, the file is write-protected.

No-file:

The file to be opened for read operation was not found, or a file involved in write operation was deleted.

No-space:

There is not enough space in the file subject to write operation. Either review the file size or specify a multivolume file.

UNIX version:

If this error occurs when there is sufficient disk space, it is possible that either the HiRDB file system area is not defined as a large file or an operating system kernel parameter restriction is applied.

It is also possible that the value specified by `pdcopy` with the `-s` option is set to a value smaller than the default or backup data value. If `OB2_WriteObjData` was output to the system function name in error, check the size of the backup data output destination set in JP1/OmniBack II. If the size is sufficient, check the messages output from OmniBack II to determine the source of the problem. If the source of the error cannot be determined, contact the customer engineer.

Windows version:

If this error occurs when there is sufficient disk space, it is possible that the

HiRDB file system area is not defined as a large file (2048 MB or greater) in the `pd_large_file_use` operand.

It is also possible that the value specified by `pdcopy` with the `-s` option is set to a value smaller than the default or backup data value.

No `swap-file`:

Multivolume file cannot be found. Check the size. Or, specify a multivolume file.

Same-file:

The same multivolume file was specified as before (files have not been exchanged). Or, an attempt was made to reuse the same volume during write processing to a multivolume file.

Unmatch-entry:

Header entry for a header file does not match the specification of the control information file. The name of the unmatched entry is enclosed in parentheses.

If the above actions do not eliminate the error, contact the customer engineer.

bb...bb: Name of the system function in which the error occurred

- If an error was detected by the HiRDB file system, the HiRDB file system function names beginning with `p_f_ios`
- If an error was detected by OmniBack II, `OB2_WriteObjdata`
- If an error was detected when a function was not being used, `***`
- If other than the above, the system function name

cc...cc: Error number that is returned by the function (`errno`)

- If an error was detected by the HiRDB file system, the HiRDB file system error code
- If an error was detected when a function was not being used or with OmniBack II, 0
- If an error was detected by the operating system, the error number returned by the system function (`errno`: foreign reference variable that displays the error status)

dd...dd: Name of the source file and the line number at which the error was detected

S: Terminates processing.

Action

Take action based on the following table:

Error cause	Action
Error was detected by the HiRDB file system.	See <i>5.1 Error codes returned from HiRDB file system access requests</i> , remove the cause of the error, and re-execute.
Error was detected by mechanism other than a function or OmniBack II.	From the error cause <i>aa....aa</i> , remove the cause of the error, and re-execute.
Error was detected by the operating system.	See the operating system manual, remove the cause of the error, and re-execute.

If an error occurs on re-execution, contact the customer engineer.

KFPR16102-E E+L

File operation was canceled by *aa....aa*

Multivolume file exchange was cancelled.

aa....aa: Reason for cancellation:

system: Processing was cancelled by the system.

user: Processing was cancelled by the user.

S: Terminates processing.

P: Re-execute the processing, if necessary.

KFPR16104-E L+S

Dynamic load error occurred, shared library=*aa....aa*

An error occurred during dynamic loading of a shared library required for processing.

aa....aa: Absolute path name of the shared library

S: Terminates processing.

O: Refer to the KFPR26003-E message that was output before this message.

UNIX version:

Resolve the error as follows, and then re-execute the command:

- EasyMT used:

Check that the system has been installed correctly.

- EasyMT not used:

Check the specification of the *k* option flag and correct the specification to nonuse of EasyMT or MTguide.

Windows version:

Review the value specified in the *-k* option flag, revise it if necessary, and

then re-execute the command.

KFPR16108-E L+S

Present directory information conflicts with directory information specified when the backup file was made, RDAREA name="aa....aa", code=b

The present directory information does not match the directory information specified when the previous backup file was created. This mismatch is caused because the structure of the RDAREA has been modified since the previous backup file was made.

aa....aa: Name of RDAREA in which mismatch occurred

b: Error code:

- 1: Page size mismatch
- 2: RDAREA attribute mismatch
- 3: HiRDB file name mismatch
- 4: RDAREA name mismatch
- 5: Segment size mismatch
- 6: Mismatch in the number of HiRDB files comprising the RDAREA
- 7: RDAREA initialization date

S: Terminates processing.

Action

Use the `pdcopy` command to make a full backup. In this step, specify creation of a differential backup management file (specify (S) for the differential backup group name in the `-g` option).

KFPR16110-I L+S

Unable to get a backup file aa....aa

The backup file of a database cannot be created.

aa....aa: Name of backup file

S: If another backup file is specified, executes backup processing for that file. If no other backup file is specified, terminates processing.

Action

Refer to the error message that was output before this message to eliminate the cause of the error, and re-execute.

KFPR16126-E L+S

Master RDAREA is not initialized

The master directory RDAREA has not been initialized, or the specified file is not the

master directory.

Possible causes of this error are as follows:

- The database initialization utility (`pdinit`) did not terminate normally.
- The specified file is not the master directory RDAREA.
- The contents of the master directory RDAREA are damaged.

S: Terminates processing.

Action

Eliminate the cause of the error, correct the status of the master directory RDAREA, then re-execute.

Possible causes of the error are as follows:

1. A file other than the master directory was specified.
2. The database initialization utility (`pdinit`) did not terminate normally.
3. The contents of the master directory RDAREA are damaged.

In the case of item 1, make sure the file name of the master directory specified using the `-m` option is correct. If it is in error, correct it, and re-execute the command.

In the case of item 2, verify that the database initialization utility (`pdinit`) terminated normally, perform HiRDB startup processing, and re-execute the command.

If the error cannot be resolved by either of the above actions, it is possible that the contents of the master directory RDAREA are damaged. Either restore the master directory or contact a customer engineer.

KFPR16127-E L+S

Page corrupted, RDAREA name="*aa....aa*", HiRDB file name=*bb...bb*, page no. =*cc....cc*

Page corruption was detected.

aa....aa: RDAREA name

bb...bb: HiRDB file name

cc....cc: Page number in HiRDB file *bb...bb*

S: Cancels RDAREA backup processing. If there is another backup file, the HiRDB system resumes processing.

Action

Contact a customer engineer.

KFPR16128-E L+S

aa....aa error occurred, func=*bb...bb*, return code=*cc....cc*

An error occurred during one of the following processing operations:

- Sort processing
- Magnetic tape I/O processing
- OmniBack II (JP1/OmniBack II) processing

aa....aa: Processing that generated the error

- SORT: Sort processing
- EasyMT: Magnetic tape I/O processing
- OmniBack II: JP1/OmniBack II processing

bb...bb: Name of the function resulting in the error

cc....cc: Return code from the function resulting in the error

S: Terminates processing.

Terminates abnormally when the return code from OmniBack II is 1, 2, or 4.

Action

Take the following action:

- If *aa....aa* is SORT:

Refer to *7. Messages Related to Sort Processing*, and take corrective action.

Messages related to sort processing are output in the format *KBLSnnn-E*, where *nnn* denotes the absolute value of the return code that is output to *cc....cc*.

The table below summarizes frequently output return codes and the required corrective action:

Return code	Action
-202	Memory shortage. Reduce the work buffer size specified in the <i>sort</i> operand.
-290	Work buffer shortage. Increase the work buffer size specified in the <i>sort</i> operand.
-210, -230	An I/O error occurred. It is possible that the disk space for sort processing is insufficient. If insufficient disk space is the cause of the error, specify a disk with sufficient space in the <i>sort</i> operand, and then re-execute the processing.

If the error cannot be resolved, acquire the *sortdump*, *SORTIODUMP*, and *SORTDMP2* that are output to *C:\windows* (in UNIX, */tmp* or */usr/tmp*), and contact a customer engineer.

- If *aa....aa* is EasyMT:

Contact a customer engineer.

- If *aa....aa* is OmniBack II:

Take appropriate action based on the return code.

If the return code is 1, 2, or 4, contact a customer engineer.

If the return code is 3, or 5 through 7, using the session ID of the JP1/OmniBack II session that resulted in the error, execute `omnidb -session session-ID -report` to check the cause of the error. Alternately, use `xomnimonitor` to check the cause of the error. Look for the session ID from the list of session IDs that are displayed with `omnidb -session`.

If the name of the function that resulted in the error is `OB2_Init`, and the return code is 5, make sure that the version of JP1/OmniBack II is 05-20. If it is any other version, change it to 05-20.

For details about how to pinpoint the cause of the error, see the JP1/OmniBack II manual. The meanings of return codes 3, and 5 through 7, are detailed as follows:

Return code	Meaning
3	The function does not match the current operation mode. If the function that caused the error is <code>OB2_Init</code> , use the <code>oministat</code> command to check the JP1/OmniBack II session that is running in the background, wait for that session to end, then re-execute.
5	Operation failed due to a JP1/OmniBack II internal error.
6	Operation failed due to a system error.
7	The privilege for the JP1/OmniBack II service is not adequate. If the name of the function that caused the error is <code>OB2_Init</code> , register the HiRDB administrator as a JP1/OmniBack II user in the admin user class.

KFPR16129-E L+S

EasyMT error occurred, `func=aa....aa`, `reason=bb....bb`

An error occurred during I/O processing of a file used by EasyMT.

aa....aa: Function in which the error was detected

bb....bb: Error detail information

S: Terminates processing.

Action

Based on the error detail information, check the documentation for JP1/Magnetic

Tape Access or EasyMT, eliminate the cause of the error, and then re-execute.

KFPR16203-E L+S

aaaaaa error occurred, file=*bb...bb*

A file I/O error occurred.

aaaaaa: Processing resulting in the error:

Close: Close processing

Open: Open processing

Read: Read processing

Reopen: Opening of the second or subsequent volume of a multivolume file

Write: Write processing

bb...bb: File name (If a system log file I/O error occurred, the file group name is indicated.)

S: Terminates processing. In the case of the `Close` error, the system may resume processing.

Action

Refer to the message that was output after this message to eliminate the cause of the error, and then re-execute the command. If a system log file I/O error occurred, refer to the message output before this message.

KFPR16205-E L+S

Insufficient memory for `PROCESS`, size=*aa....aa*

An attempt to allocate a work area needed for executing the `pdrstr` or `pdbkupls` command failed, due to an insufficient process private area.

aa....aa: Area size (in bytes) That was to be allocated

S: Terminates processing.

Action

Check whether there are processes that use a large amount of memory.

There are processes that use a large amount of memory:

Wait for the associated processes to terminate, then re-execute the command.

There are no processes that use a large amount of memory:

Use one of the following methods to ensure that there is sufficient memory:

- Reduce the number of simultaneously executing processes.
- Increase the size of the swap area.

- Increase the amount of memory.

KFPR16214-E L+S

Pdrstr version *aa...aa* and HiRDB version *bb...bb* do not match

The version of the database recovery utility (pdrstr) does not match the HiRDB version.

aa...aa: Version revision number of the database recovery utility

bb...bb: Version revision number of HiRDB

S: Terminates processing.

Action

Execute the database recovery utility with the version revision number that is the same as that of the HiRDB being used.

KFPR16301-E L+S

File I/O error occurred, reason=*aa...aa*, func=*bb...bb*, errno=*cc...cc*, (*dd...dd*)

An error occurred during file I/O processing.

aa...aa: Cause of error:

Empty-file:

The specified file is empty (0 bytes).

File-format:

The specified file format differs from the actual file format. It is possible that the specified file name is incorrect or the file format specified on the command line or in the control statement does not match the contents.

File-lock:

The file to be used is locked by another utility and the file read/write operation cannot be executed. The file name specified in the command line or control statement might be in use by another job. In UNIX, there might be a shortage of file locking resources for an OS kernel parameter.

File-missing:

The specification of the unload log file or the backup file is incorrect. See the KFPR26265-I message that was output before or after this message, remove the cause of the error, and re-execute.

File-sequence:

The sequence of volumes of a multivolume file is invalid.

Invalid-device:

The specified file entry type (attribute) is invalid. Or, if MTguide is being used, MTguide is not activated. If the system can identify the entry type, it displays one alphabetic character enclosed in parentheses. This character is the same as the entry in the mode output by the operating system's `ls -l` command. It is possible that a directory name was specified in a location that requires a file name (or vice versa), or that a character special file was assigned to a file where a character special file cannot be used.

Invalid-environment:

Because the set value 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 satisfies the prerequisite conditions of the HiRDB system or related program products.

Invalid-file:

A file was specified that was created incorrectly.

Invalid-parameter:

A combination of specified parameters is invalid.

Invalid-permission:

The specified file version is invalid (access privilege error). It is possible that a file is being used, for which an access privilege has not been granted by a HiRDB administrator, or for MT, may be write-protected.

Invalid-path:

The path name is invalid.

No-file:

File to be opened for the read operation was not found, or a file involved in the write operation was deleted.

No-space:

There is not enough space in the file subject to the write operation. Revise the size or specify a multi-volume.

In UNIX, if this error occurs when there is sufficient disk space, it is possible that either the HiRDB file system area is not defined as a large file, or an operating system kernel parameter restriction applies.

In Windows, if this error occurs when there is sufficient disk space, it is possible that the HiRDB file system area is not defined as a large file (2048 MB or greater) in the `pd_large_file_use` operand.

No swap-file:

Multivolume swap file cannot be found. Check the size. Or, specify a multivolume file.

Same-file:

The same multivolume file as before was specified (files have not been exchanged). An attempt was made to reuse the same volume during write processing to a multivolume file.

Unmatch-entry:

Header entry for header file does not match the specification in the control statements file. The name of the unmatched entry is enclosed in parentheses.

bb....bb: Name of the function in which the error occurred

- If an error was detected by the HiRDB file system, the HiRDB file system function names beginning with `p_f_ios`
- If an error was detected when a function was not being used, `***`
- If other than the above, the system function name

cc....cc: Error number that is returned by the function (`errno`)

- If an error was detected by the HiRDB file system, the HiRDB file system error code
- If an error was detected when a function was not being used, `0`
- If an error was detected by the operating system, the error number returned by the system function (`errno`: foreign reference variable that displays the error status)

dd....dd: Name of the source file and the line number at which the error was detected.

S: If *aa....aa* is `File_missing`, processing continues according to the KFPR26265-I message output before or after this message. Otherwise, terminates processing.

Action

Take action based on the following table:

Error cause	Action
Error was detected by the HiRDB file system.	See 5.1 <i>Error codes returned from HiRDB file system access requests</i> , remove the cause of the error, and re-execute.
Error was detected by mechanism other than a function.	From the error cause <i>aa....aa</i> , remove the cause of the error, and re-execute.
Error was detected by the operating system.	Refer to the operating system manual, remove the cause of the error, and re-execute.

If an error occurs on re-execution, contact the customer engineer.

KFPR16302-E E+L

File operation was canceled by *aa...aa*

Multivolume file exchange was cancelled.

aa...aa: Reason for cancellation:

system: Cancelled by the system

user: Cancelled by the user

S: Terminates processing.

Action

Re-execute the processing, if necessary.

KFPR16303-E L+S

Invalid *aa...aa* log file, file=*bb...bb*

Log file *bb...bb* is invalid. Check the following:

For unload file:

- Whether or not an invalid unload log file is specified
- Whether or not both an unload log file before database initialization and an unload log file after database initialization are specified

For system log file:

- Whether or not the database was initialized after the backup file was made

aa...aa: Log file type

unload: Unload log file

sys: System log file

bb...bb: Name of the log file for which the error or initialization was detected

For unload log file:

Name of unload log file

For system log file:

File group name

S: Terminates processing.

O:

For unload log file:

Specify the correct unload log file, and then re-execute. If unload log files made

both before and after database initialization are specified, specify either unload log files made before database initialization or unload log files made after database initialization, and then re-execute.

For system log file:

Specify the backup file after database initialization, and then re-execute.

KFPR16304-E L+S

Dynamic load error occurred, shared library=*aa...aa*

An error occurred during dynamic loading of a shared library required for processing.

aa...aa: Full path name of the shared library

S: Terminates processing.

O: Refer to the KFPR26203-E message that was output before this message.

UNIX version:

Resolve the error as follows, and then re-execute the command:

- EasyMT used:
Check that the system has been installed correctly.
- EasyMT not used:
Check the specification of the *-k* option flag and correct the specification to nonuse of EasyMT or MTguide.

Windows version:

Review the value specified in the *-k* option, revise it if necessary, and then re-execute the command.

KFPR16308-E L+S

Present directory information conflicts with directory information specified when the backup file was made, RDAREA name="*aa...aa*", code=*b*

A conflict was detected between directory information for an RDAREA as specified in the master directory and as specified when a backup file was made; processing of the RDAREA is terminated.

aa...aa: Name of RDAREA containing contradictory information

b: Error code:

- 1: Page length does not match.
- 2: RDAREA attribute does not match.
- 3: RDAREA file name does not match.

4: RDAREA name does not match.

5: Segment size does not match.

6: RDAREA structure does not match the number of HiRDB files.

S: Processes the next RDAREA without recovering the RDAREA containing contradictory information.

Action

Take one of the following actions:

- If the file name specified in the `-m` option for the first HiRDB file name of the master directory RDAREA is invalid, specify the correct file name, and re-execute the command.
- If the configuration of the RDAREA was changed after the applicable backup file was acquired, these RDAREA configuration changes cannot be recovered. Either use a backup file acquired after the RDAREA configuration was changed or specify a time before the RDAREA configuration was changed, and then re-execute the command.

If the error cannot be resolved by either of the above actions, contact a customer engineer.

KFPR16318-E L+S

Backup data not found, RDAREA name="*aa...aa*"

The specified backup file does not contain the backup data of the appropriate RDAREA.

aa...aa: Name of RDAREA whose backup data is missing

S: Recovers the RDAREA without using its backup data. If the unload log file is specified and the update log of the corresponding RDAREA is available, the system recovers the RDAREA only using log information. If the `-L` option is specified, the HiRDB system cancels processing.

Action

Check the items listed below, correct the error, and then re-execute:

- Check the specification of the backup file for an error. If a tape drive is used, determine whether rewinding is specified.
- If the `-L` option is specified, check that there is an RDAREA to be recovered in the backup file created by specifying the `-z` option for `pdcopy` execution.

KFPR16328-E L+S

aa...aa error occurred, func=*bb...bb*, return code=*cc...cc*

An error occurred during one of the following processing operations:

- Sort processing
- Magnetic tape I/O processing
- OmniBack II (JP1/OmniBack II) processing

aa....aa: Processing that generated the error

- SORT: Sort processing
- EasyMT: Magnetic tape I/O processing
- OmniBack II: JP1/OmniBack II processing

bb....bb: Name of the function resulting in the error

cc....cc: Return code from the function resulting in the error

S: Terminates processing.

Terminates abnormally when the return code from OmniBack II is 1, 2, or 4.

Action

Take the following action:

- If *aa....aa* is SORT:

Refer to *7. Messages Related to Sort Processing*, and take corrective action.

Messages related to sort processing are output in the format `KBL$nnn-E`, where *nnn* denotes the absolute value of the return code that is output to *cc....cc*.

The table below summarizes frequently output return codes and the required corrective action:

Return code	Action
-202	Memory shortage. Reduce the work buffer size specified in the <code>sort</code> operand.
-290	Work buffer shortage. Increase the work buffer size specified in the <code>sort</code> operand.
-210, -230	An I/O error occurred. It is possible that the disk space for sort work is insufficient. If insufficient disk space is the cause of the error, specify a disk with sufficient space in the <code>sort</code> operand, and then re-execute the processing.

If the error cannot be resolved, acquire the `sortdump`, `SORTIODUMP`, and `SORTDMP2` that are output to `C:\Windows` (in UNIX, `/tmp` or `/usr/tmp`), and contact a customer engineer.

- If *aa....aa* is EasyMT:

Contact a customer engineer.

- If *aa....aa* is OmniBack II:

Take appropriate action based on the return code.

If the return code is 1, 2, or 4, contact a customer engineer.

If the return code is 3, or 5 through 7, using the session ID of the JP1/OmniBack II session that resulted in the error, execute `omnidb -session session-ID -report` to check the cause of the error. Alternately, use `xomnimonitor` to check the cause of the error. Look for the session ID from the list of session IDs that are displayed with `omnidb -session`.

For details about how to pinpoint the cause of the error, see the JP1/OmniBack II manual.

The meanings of return codes 3, and 5 through 7 are detailed as follows:

Return code	Meaning
3	The function does not match the current operation mode. If the function that caused the error is <code>OB2_Init</code> , use the <code>oministat</code> command to check the JP1/OmniBack II session that is running in the background, wait for that session to end, then re-execute.
5	Operation failed due to a JP1/OmniBack II internal error. If the function that caused the error is <code>OB2_Init</code> , make sure the version of OmniBack II is 05-20; if not, install version 05-20.
6	Operation failed due to a system error.
7	The privilege for the JP1/OmniBack II service is not adequate. If the name of the function that caused the error is <code>OB2_Init</code> , register the HiRDB administrator as a JP1/OmniBack II user in the admin user class.

KFPR16329-E L+S

EasyMT error occurred, `func=aa....aa`, `reason=bb...bb`

An error occurred during I/O processing of a file used by EasyMT.

aa....aa: Function in which the error was detected

bb...bb: Error detail information

S: Terminates processing.

Action

Based on the error detail information, check the documentation for JP1/Magnetic Tape Access or EasyMT, eliminate the cause of the error, and then re-execute.

KFPR16330-E L+S

Log was not found when backup `aa....aa` at `bb...bb -cc....cc`, `server=dd....dd`

Recovery is to be from the backup copy created with the `-M s` option specified for the

backup mode, but the input log does not contain the following log records required for recovery:

- First log record
- Last log record

aa....aa: Missing date and time:

started: Copy start time

ended: Copy end time

bb....bb: Log record number 1

cc....cc: Log record number 2

dd....dd: Name of server subject to recovery

S: Cancels recovery of the corresponding server.

Action

Specify the log containing the first or last log record required for recovery, and then re-execute.

KFPR16333-E L+S

RDAREA *aa....aa* at *bb....bb*, RDAREA name="*cc....cc*"

Because *aa....aa* has been executed on RDAREA "*cc....cc*", the corresponding RDAREA cannot be recovered from the backup copy that was created before that date. Or, no backup file was specified.

aa....aa: Type of RDAREA processing

added: RDAREA addition

altered: RDAREA alteration

deleted: RDAREA deletion

extended: RDAREA expansion

initialized: Reinitialization

bb....bb: Date and time the RDAREA was expanded

cc....cc: Name of expanded RDAREA

S: Recovers the next RDAREA without recovering the indicated RDAREA.

Action

Recover the RDAREA using the correct backup file and log obtained after the RDAREA processing. If no backup file was obtained after manipulation, specify a time *bb....bb* earlier than the recovery end time of the -T option, and then

recover the RDAREA.

KFPR16334-E L+S

RDAREA was updated by logless process, RDAREA name="*aa...aa*",
update time=*bb...bb*

Because the indicated RDAREA was updated at time *bb...bb* by a transaction that does not collect a system log, the RDAREA cannot be recovered.

aa...aa: RDAREA name

bb...bb: Update time

S: Recovers the next RDAREA without recovering the indicated RDAREA.

Action

Re-execute using the backup created after the transaction that does not collect a system log has terminated. If there is no backup, specify a time *bb...bb* earlier than the recovery end time of the `-T` option.

KFPR16338-E L+S

Master RDAREA is not initialized

The master directory RDAREA has not been initialized or the specified file is not the master directory. Possible causes of this error are as follows:

- The database initialization utility (`pdinit`) did not terminate normally.
- The specified file is not the master directory.
- The contents of the master directory are damaged.

S: Terminates processing.

Action

Eliminate the cause of the error, correct the status of the master directory RDAREA, and then re-execute.

Possible causes of the error are as follows:

1. A file other than the master directory was specified.
2. The database initialization utility (`pdinit`) did not terminate normally.
3. The contents of the master directory RDAREA are damaged.

In the case of item 1, make sure the file name of the master directory specified using the `-m` option is correct. If it is in error, correct it, and re-execute the command.

In the case of item 2, verify that the database initialization utility (`pdinit`) terminated normally, perform HiRDB startup processing, and re-execute the command.

If the error cannot be resolved by either of the above actions, it is possible that the contents of the master directory are damaged. Either restore the master directory or

contact a customer engineer.

KFPR16339-E L+S

Invalid backup file, file=*aa...aa*

The specified backup file is invalid. Check the following:

- Whether or not the correct volume was specified in the multivolume specification
- Whether or not the correct file was specified in the multi-file specification

aa...aa: Invalid file contents

- If `Mtguide` is used: Device symbolic name or device group name
- If `Mtguide` is not used or in the Windows version: File name

S: Terminates processing.

Action

Specify the correct backup file, and then re-execute.

KFPR26001-E E+L

Communication "*aa...aa*" error occurred, code=*bbbb*

A communication error occurred while executing the database copy utility (`pdcopy`).

aa...aa: Name of RPC-related function resulting in the error

bbbb: Error code from the RPC-related function resulting in the error

S: Terminates processing.

Action

See 4. *Error Detail Codes* to eliminate the cause of the error, and then re-execute. If the error cannot be corrected by the HiRDB administrator, contact a customer engineer.

KFPR26002-E L+S

Unable to allocate COMBUF area, size=*aaaaaa*

A communication area cannot be allocated because a real or virtual memory space shortage occurred.

aaaaaa: Size (in KB) of communication area that was to be allocated

S: Terminates processing.

Action

1. Re-execute the command after a process that uses a large amount of memory has terminated.
2. If a value greater than 32 was specified for the buffer size (`pd_utl_buff_size` operand) in the system common definition, specify

32, and then re-execute the command.

KFPR26003-E L+S

System call error, func=*aa...aa*, errno=*bbb*

A system call error occurred.

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

bbb: errno value of the system call resulting in the error

S: Terminates processing.

Action

Check the value of the error indicator, refer to `errno.h` and the applicable OS manual to eliminate the cause of the error, and then re-execute.

KFPR26004-I E

Error exists in command line or control file, usage is as follows

An error was detected in the specified command or control statements file. The correct usage is displayed after this message.

S: Terminates processing.

O: Correct the error in the command or control statements file and re-execute.

KFPR26005-E E+L

Invalid option flag exists in command line

The command line contains an invalid option.

S: Cancels processing after analyzing the command line.

Action

Correct the specification on the command line and re-execute.

KFPR26006-E E+L

Invalid parameter *aa...aa* exists at *-b* option in command line

An option on the command line contains an invalid parameter. A list RDAREA is not copied or recovered.

aa...aa: Invalid parameter

b: Option name

S: Cancels processing after analyzing the command line. However, continues processing when all of the following conditions are met:

- The `-J` or `-r` option is specified.
- The KFPR26061-W message was output.

Action

Correct the specification on the command line and re-execute.

When the database copy utility (`pdcopy`) is used in conjunction with JP1/OmniBack II, re-execute `pdsetup` if `-k o` is displayed as the invalid parameter. For `pdsetup`, specify the OmniBack II parameter for the `-p` option (`pdsetup -p OmniBack`).

KFPR26007-E E+L

Duplicate `aa...aa` at `-b` option in command line

Information is duplicated in an option on the command line.

If the differential backup facility is used, an existing differential backup file name is specified in the `-b` option.

`aa...aa`: Duplicated command name

`b`: Option name

S: Terminates processing after analyzing the command line.

Action

Correct the specification on the command line and re-execute.

KFPR26008-E E+L

Invalid combination of option flags (`-a` and `-b`) exists in command line

There is an invalid combination of option flags on the command line.

`a`: Option flag combined invalidly

`b`: Option flag combined invalidly

S: Terminates processing after analyzing the command line.

Action

Correct the specification on the command line and re-execute.

KFPR26009-E E+L

Option flag `-a` is not specified in command line

A required option flag is missing on the command line.

`a`: Required option flag

S: Terminates processing after analyzing the command line.

Action

Correct the specification on the command line and re-execute.

KFPR26010-E E+L

Too long parameter exists at `-a` option in command line

Parameter specification for an option is too long on the command line.

a: Option name

S: Terminates processing after analyzing the command line.

Action

Correct the specification on the command line and re-execute.

KFPR26011-E E+L

Number of *-a* option flag in a control file exceeds *bb*

The number of *-a* option flags in a control statements file exceeds the maximum of *bb*.

a: Name of the option exceeding the maximum value

bb: Maximum value of *-a* option flag

S: Terminates processing after analyzing the command line.

Action

Correct the specification on the command line and re-execute.

KFPR26012-E L+S

HiRDB file *aa....aa* error, *errno=bb....bb*, HiRDB file name=*cc....cc*

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

aa....aa: Nature of the error:

close: Close file

create: Create file

fstat: Collect file information

open: Open file

read: Read file

write: Write data to file

expand: Expand file

reopen: Opening of the second or subsequent volume of a multivolume file

bb....bb: Error code

0: Could not perform read or write of the requested size.

Other: See *5.1 Error codes returned from HiRDB file system access requests*.

cc....cc: Name of the file where the error occurred

S: For a backup file, aborts processing. However, continues processing when there is another backup file or all of the following conditions are met:

- The applicable file is a HiRDB file comprising the RDAREA.
- The `-J` option is specified or the RDAREA is a replica RDAREA.
- The content of the error is `open` or `close`.
- The KFPR26061-W message is output.
- Other RDAREAs were not processed.

Action

For database file:

Recover the RDAREA and re-execute.

For backup file:

See 5.1 *Error codes returned from HiRDB file system access requests* to eliminate the cause of the error and re-execute.

If the error code is -1556 or -1562, the following causes can be assumed:

Error code	Cause
-1556	Secondary allocation expansion of the file failed because the HiRDB file had been expanded the maximum permissible number of times: <ul style="list-style-type: none"> • An attempt was made to expand the file more times than permitted by the increments count specification (<code>-e</code> specification for <code>pdfmkfs</code>) for the HiRDB file system area • An attempt was made to expand the HiRDB file more than 23 times (the maximum for the system)
-1562	Type of the HiRDB file system area is not UTL.

If the cause cannot be determined, contact a customer engineer.

KFPR26015-E L+S

Unable to backup RDAREA at inactive server *aa....aa*

When either of the following options is specified, an RDAREA in an inactive server cannot be backed up:

- `-M s`
- `-z`

aa....aa: Name of the inactive server

S: Terminates processing if the RDAREA included in the applicable server is to be copied. However, if there are other backup files, continues processing if all of the following conditions are met:

- The `-J` option is specified.
- The KFPR26061-W message is output.

- Other RDAREAs were not processed.

Action

Activate the stopped server and re-execute. Or, back up the RDAREA with the -m x option specified.

KFPR26016-E L+S

Too many backup RDAREAs for backup file *aa...aa*

The number of RDAREAs to be backed up into backup file *aa...aa* exceeds the maximum of 1120.

aa...aa: Backup file name

S: Terminates processing.

O: Correct the number of the RDAREAs to be backed up into the backup file to no more than 1120 and re-execute.

KFPR26017-E L+S

Insufficient memory in message buffer pool due to concurrent execution of "pdcopy"

A temporary memory shortage occurred in the message storage buffer pool for the utility server when pdcopy was executed concurrently.

The KFPS00854-W message may be output when this error occurs; however, a server error has not occurred in this case.

S: Terminates processing.

O: Wait until execution of the current pdcopy is completed, then re-execute.

KFPR26018-E L+S

Unable to send message from *aa...aa* to *bb...bb*

Data cannot be sent from host *aa...aa* to host *bb...bb* because a communication error occurred.

aa...aa: Send source host name

If the system switching facility is being used, the host name of the primary system is indicated.

bb...bb: Send destination host name

If the system switching facility is being used, the host name of the primary system is indicated.

S: Cancels processing of the backup file resulting in the communication error.

Action

Take action appropriate to the KFPR26001-E message that was output before this

message. If a physical communication error has not occurred, 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.

KFPR26020-E L+S

System manager "*aa....aa*" failed, return code=*bb...bb*

System-related function "*aa....aa*" resulted in an error.

aa....aa: Name of the system-related function resulting in the error

bb...bb: Error code set by the system-related function resulting in the error

S: Terminates processing.

Action

See 4. *Error Detail Codes* to eliminate the cause of the error, and re-execute. If the error cannot be corrected by the HiRDB administrator, contact a customer engineer.

KFPR26021-E L+S

Unable to output result of `pdcopy`

The result of the database copy utility (`pdcopy`) cannot be output due to the error reported before this message.

S: Terminates processing.

Action

Eliminate the cause of the error and re-execute. If no other error occurred, backup processing terminated; if the execution result is not needed, there is no need to re-execute the processing.

KFPR26022-I L+S

Output result of `pdcopy` to *aa....aa*

The result of the database copy utility (`pdcopy`) was output to file *aa....aa*.

aa....aa: Name of output file

S: Terminates processing.

KFPR26023-I L+S

Unable to output result of backup file *aa....aa*

The processing result of backup file *aa....aa* cannot be output due to the error reported before this message.

aa....aa: Backup file name

S: Terminates processing.

Action

Eliminate the cause of the error and re-execute. If the KFPR26109 message was issued for the backup file, backup processing was terminated; if the execution result is not needed, there is no need to re-execute the processing.

KFPR26024-E L+S

Unable to remove shared memory, key=*aa...aa*

Shared memory cannot be deleted.

aa...aa: Shared memory key value

S: Resumes processing.

Action

Use a command to delete the shared memory after processing has terminated.

KFPR26025-E L+S

No RDAREA to copy on *aa...aa*

Backup file *aa...aa* does not contain the RDAREA to be copied.

aa...aa: Name of backup file (the last portion of the path name)

S: Terminates processing. However, continues processing when both of the following conditions are met.

- The `-J` option is specified.
- Multiple rows in the control statements file are specified.

Action

Correct the specification on the command line and re-execute.

KFPR26026-E L+S

Unable to copy RDAREA's of different servers with `-z` option

When the `-z` option is specified, a backup file of RDAREAs in different servers cannot be made concurrently.

S: Terminates processing.

Action

Make the backup file of RDAREAs in the same server and re-execute.

KFPR26027-E L+S

Unable to output Log point information

Log point information cannot be output because of the error indicated by the error message output before this message.

S: Terminates processing.

Action

Eliminate the cause of the error, input the backup file created with `pdrstr`, then re-create the log point information file by specifying the `-z` option.

KFPR26028-I L+S

Output Log point information to *aa....aa*

Log point information has been output to log point information file *aa....aa*.

S: Resumes processing.

KFPR26029-I L+S

Log point information, (*aa....aa*, *bb....bb*, *ccc*, *dd....dd*, *ee....ee*, *ff....ff*, *gg....gg*, *hh....hh*, *ii....ii*, *jj....jj*, *kk....kk*)

Log point has been set.

aa....aa: HiRDB identifier

bb....bb: Unit identifier

ccc: Log file name:

sys: System log file

dd....dd: Server name

ee....ee: Server run ID (8 hexadecimal digits)

ff....ff: Log server run ID (8 hexadecimal digits)

gg....gg: Name of first file group

hh....hh: Generation number of first file group (up to 8 hexadecimal digits)

ii....ii: First block number (up to 8 hexadecimal digits)

jj....jj: Header updates count (up to 8 hexadecimal digits)

kk....kk: Use start time (8 hexadecimal digits)

S: Resumes processing.

KFPR26030-E L+S

Unable to use `-M s` option to RDAREA for BLOB column with recovery `partial` or `no`, RDAREA name=*aa....aa*

The `-M s` option cannot be used for the RDAREA containing the target LOB column because `recovery partial` or `recovery no` was specified in the LOB column definition of `CREATE TABLE`.

aa....aa: Name of RDAREA that caused the error

S: Terminates processing if the applicable RDAREA is to be copied. However, continues processing if there are other backup files or all of the following conditions

are met:

- The `-J` option is specified.
- The KFPR26061-W message is output.
- Other RDAREAs were not processed.

O: Specify `-M x` or `-M r` and re-execute.

KFPR26031-E L

Unable to output message to standard output, host=*aa...aa*,
file=*bb...bb*, func=*cc...cc*, errno=*ddd*

Messages cannot be output to standard output because a system call error occurred.

aa...aa: Name of the host where the file resulting in the error is located

bb...bb: Name of the file resulting in the error

When the name of the system call resulting in the error is `tempnam`, `*****` is displayed.

cc...cc: Name of the system call resulting in the error

In UNIX, the name of the shell command that was executed is displayed, enclosed in parentheses.

ddd: errno of the system call resulting in the error

S: Resumes processing.

O: Check the value of the error indicator and refer to `errno.h` or the applicable OS manual to eliminate the cause of the error.

KFPR26032-E L

Unable to remove temporary file, host=*aa...aa*, file=*bb...bb*

A temporary file cannot be deleted because of the error that was output before this message.

aa...aa: Name of the host where the file that cannot be deleted is located

bb...bb: File name that cannot be deleted

S: Resumes processing.

O: Waits until processing terminates, then delete the temporary file.

KFPR26033-E L+S

`Pdcopy` must be executed at unit defined as manager

The database copy utility (`pdcopy`) must be executed at the unit where the system manager is defined.

S: Terminates processing.

O: Execute remote login at the unit where the system manager (MGR) is defined and re-execute the command.

KFPR26045-I L+S

OmniBack II backup session id=*aa....aa*

Session whose session ID is *aa....aa* has been backed up.

aa....aa: JP1/OmniBack II session ID

S: Continues processing.

KFPR26047-I L+S

OmniBack II Information = *aa....aa*

Displays JP1/OmniBack II message information.

aa....aa: JP1/OmniBack II message information

Only the first 180 characters are displayed when the message information consists of more than 180 characters.

S: Terminates processing.

Action

For details of the JP1/OmniBack II message information, see the *JP1/OmniBack II* manual.

KFPR26048-E L+S

OmniBack II file not found, host=*aa....aa* file=*bb....bb*

Because JP1/OmniBack II file *bb....bb* was not found at host *aa....aa*, the database copy utility (dbcopy) could not be executed.

aa....aa: Host name

bb....bb: File name

S: Terminates processing.

Action

Ensure that the JP1/OmniBack II disk agent has been installed at host *aa....aa*. If it has not been installed, install it. If it has been installed, contact a customer engineer.

KFPR26049-E L+S

Unable to check OmniBack II file, host=*aa....aa*

Refer to the message that was output before this message. As a result of the error explained in that message, the JP1/OmniBack II file at host *aa....aa* could not be checked and the database copy utility (dbcopy) could not be executed.

aa....aa: Host name

S: Terminates processing.

Action

Correct the error by referring to the message that was output before this message, then re-execute the utility.

KFPR26051-E L+S

Unable to output history of backup group=*aa....aa*

Statistical information on differential backup group *aa....aa* could not be output. For the error cause, refer to the message that was output before this message.

aa....aa: Differential backup group name

S: Terminates processing.

Action

Correct the error and re-execute. If the KFPR26053-I or KFPR26058-I message has been output for the differential backup management file, the backup processing terminated. Therefore, if the history information is not needed, re-execution is not necessary.

KFPR26052-I L+S

Output history of backup group=*aa....aa* to *bb....bb*

Displays the statistical information file (file name *bb....bb*) for differential backup group *aa....aa*.

aa....aa: Differential backup group name

bb....bb: Name of the statistical information file for the differential backup

S: Continues processing.

KFPR26053-I L+S

Create management file=*aa....aa*

Differential backup management file *aa....aa* has been created.

aa....aa: Differential backup management file name

S: Continues processing.

KFPR26054-E L+S

Unable to use management file, reason=*aa....aa*, name=*bb....bb*

Differential backup management file *bb....bb* cannot be used.

aa....aa: Reason:

unfinish maintenance: Maintenance is not completed.

no control block: Control information for the differential backup management file was not found.

bb...bb: Differential backup management file name

S: Terminates processing.

Action

Take one of the following actions:

- `unfinish maintenance`:

If there is a backup of the differential backup management file, use the `pdfrstr` command to recover the differential backup management file and re-execute. If there is no backup of the differential backup management file, make a backup with the `pdcopy` command. In this step, specify creation of a differential backup management file (specify (S) for the differential backup group name in the `-g` option).

- `no control block`:

The specifications of the `-g` and `-K` options for the `pdcopy` command are invalid; make another backup.

KFPR26055-E E+L

Page corrupted, management file name=*aa...aa*, page number=*bb...bb*

Page corruption of differential backup management file *aa...aa* was detected.

aa...aa: Differential backup management file name

bb...bb: Page number in which page corruption was detected

S: Terminates processing.

Action

If there is a backup of the differential backup management file, use the `pdfrstr` command to recover the differential backup management file and re-execute. If there is no backup of the differential backup management file, make a backup with the `pdcopy` command. In this step, specify creation of a differential backup management file (specify (S) for the differential backup group name in the `-g` option).

KFPR26056-E L+S

SystemID of *aa...aa* is invalid

The file cannot be used because the system ID for *aa...aa* does not match the system ID of the HiRDB that is running.

aa...aa: File type

management file: Differential backup management file

S: Terminates processing.

Action

The differential backup management file is specified incorrectly. In the KFPR26006-E message that is output simultaneously, check the parameters for the -g and -K options, specify the correct parameters for these options, and re-acquire a differential backup.

KFPR26057-I L+S

Update start, management file name=*aa...aa*

Updating of differential backup management file *aa...aa* has begun.

aa...aa: Differential backup management file name

S: Continues processing.

KFPR26058-I L+S

Update complete, management file name=*aa...aa*

Updating of differential backup management file *aa...aa* has been completed.

aa...aa: Differential backup management file name

S: Continues processing.

KFPR26059-E E+L

Too many lines for control file

There are too many lines in the command line in the control statements file.

S: Terminates processing.

Action

Correct the command in the control statements file. When using the differential backup facility, enter only one row in the command line described in the control statements file. If the -a or -q option is specified, enter only one line in the command line described in the control statements file.

KFPR26060-I L+S

Backup all used page, RDAREA name=*aa...aa*, LSN=*bb...bb*, differential base LSN=*cc...cc*

Because differential management information for the differential backup could not be obtained, all used pages in this RDAREA will be included. This backup can be used for database recovery.

aa...aa: RDAREA name

bb...bb: Internal information 1

cc...cc: Internal information 2

S: Continues processing.

KFPR26061-W L+S

Unable to backup RDAREA. RDAREA name=*aa....aa*

aa....aa could not be backed up.

aa....aa: RDAREA name

S: Continues processing.

Action

If RDAREA *aa....aa* should not be copied, no particular action is required. If RDAREA *aa....aa* is to be copied, see the message output before or after this message to eliminate the cause of the error, and then re-execute.

KFPR26062-W L+S

Unable to find RDAREA. RDAREA name=*aa....aa*, generation number=*bb*

The RDAREA of the specified generation number could not be found. The process for backing up this RDAREA was skipped.

aa....aa: RDAREA name

bb: Generation number

S: Continues processing.

Action

Reevaluate the specified RDAREA name or generation number. If a backup is necessary, correct the RDAREA name or generation number, and then re-execute. If a backup is not required, ignore this message.

KFPR26063-I L+S

Backup partially ended, file=*aa....aa*

Backup file *aa....aa* could not be created. The RDAREA causing an error during the backup process was skipped.

aa....aa: Backup file name

S: Continues processing.

Action

Check if the RDAREA whose processing was skipped is needed as a backup. If it is, eliminate the cause of the error, and then re-execute.

KFPR26066-E L+S

Unable to use the "-k n" option because the JP1/VERITAS NetBackup Agent for HiRDB license not found

The -k n option cannot be specified because the license required to use the JP1/VERITAS NetBackup linkage facility is missing.

2. Messages

S: Terminates processing.

Action

Obtain and install the license required to use the JP1/VERITAS NetBackup linkage facility.

KFPR26067-E L+S

Dynamic load error occurred, shared library=*aa...aa*, host=*bb...bb*

Dynamic loading of common library *aa...aa* on host *bb...bb* failed.

aa...aa: Full path name of the shared library (in UNIX, the file path name of the shared library)

bb...bb: Host name

S: Terminates processing.

Action

Check if a NetBackup client is installed. If a copy is installed, see the KFPR26003-E message just output to eliminate the cause of the error, and then re-execute.

KFPR26069-E L+S

NetBackup API error occurred, return code=*aa...aa* (*bbbb*), func=*cc...cc*, message=*dd...dd*

A problem occurred in the application programming interface of NetBackup.

aa...aa: Name of the application programming interface return code for NetBackup

bbbb: Application programming interface return code for NetBackup (hexadecimal)

cc...cc: Application programming interface for NetBackup

dd...dd: The message obtained after the application programming interface error return for NetBackup (displays the first 100 characters if the message length exceeds 100 characters)

S: Terminates processing.

Action

Return code (bbbb)	Return code name (aa...aa)	Meaning	Action
0x03	SYSTEM_ERROR	NetBackup internal error	Check the error cause at the NetBackup management console, take appropriate action, and then re-execute.
0x0D	FEATURE_NOT_LICENSED	No license was found or the license was invalid	Obtain a license.

Return code (bbbb)	Return code name (aa....aa)	Meaning	Action
0x4B	VERSION_NOT_SUPPORTED	NetBackup version is not supported	Check if the NetBackup version is correct.
0x4D	ACCESS_FAILURE	Cannot access the object	Check if the NetBackup master server or NetBackup media server stopped. If the server did not stop, contact a customer engineer*.
Other	—	—	Contact a customer engineer*.

—: Does not apply.

* Obtain the following data before contacting a customer engineer:

- The system log file of the host with a single server or system manager, the host with the `-b` option specified, or the host with the target RDAREA when executing the utility
- Files in the `%PDDIR%\spool` directory on the host with a single server or system manager, the host with the `-b` option specified, or the host with the target RDAREA when executing the utility
- Error information from the NetBackup management console
- Messages output to standard output or standard error
- Process results output file from when the utility was executed

KFPR26071-I L+S

NetBackup information, policy=*aa....aa*, date=*bb...bb*, time=*cc....cc*

Obtain a backup with policy name *aa....aa*.

aa....aa: Policy name

bb...bb: Date (YYYY/MM/DD)

cc....cc: Time (HH:MM:SS)

S: Continues processing.

KFPR26072-E L+S

Invalid time stamp found, RDAREA name=*aa....aa*, file name=*bb...bb*, offset=*cc....cc*, time stamp=(*dd....dd, ee....ee*)

Some of the pages were found to have an invalid timestamp.

aa....aa: RDAREA name

bb...bb: HiRDB file name. The last 64 bytes are displayed.

cc....cc: Relative position, in decimal, of the pages with an invalid timestamp from the front of the HiRDB file.

dd....dd: Timestamp at the start of the page. It is converted to the format *YYYY/MM/DD HH:MM:SS* for display.

ee....ee: Timestamp at the end of the page. It is converted to the format *YYYY/MM/DD HH:MM:SS* for display.

S: Terminates processing.

Action

If the backup is collected in reference updatable mode (`pdcopy -Ms`):

A backup cannot be acquired because the page to be backed up is undergoing update. Take one of the following actions:

- Execute the `pdlogsync -w` command and re-execute.
- Perform an updatable backup hold (`pdhold -b -u`) and re-execute.
- Re-execute in referenceable mode (`pdcopy -Mr`) or in reference non-updatable mode (`pdcopy -Mx`).

If backing up in referenceable mode (`pdcopy -Mr`) or reference non-updatable mode (`pdcopy -Mx`):

The area of the displayed RDAREA is corrupt. The previous backup must be used to recover.

KFPR26073-E L+S

Unable to backup shared RDAREA with `-M s` option, RDAREA name="*aa....aa*"

Backup of the shared RDAREA could not be performed using the `pdcopy -M s` specification (updatable mode).

aa....aa: RDAREA name

S: Terminates processing.

Action

To back up multiple RDAREAs, including shared RDAREAs, at one time, specify a mode other than updatable mode and re-execute the command.

To back up in multiple parts, specify only the non-shared RDAREAs and re-execute the command. For the shared RDAREAs, specify a backup mode other than updatable mode and re-execute the command.

KFPR26109-I L+S

Backup completed, file=*aa....aa*

Database has been backed up into backup file *aa....aa*.

aa....aa: Name of backup file

S: Resumes processing.

KFPR26110-E L+S

Invalid RDAREA status, RDAREA name="*aa....aa*"

Because the status of the indicated RDAREA is invalid, it cannot be backed up.

Possible causes of this error are as follows:

- -M x was specified, but the specified RDAREA was not on closed status.
- The specified RDAREA is involved in structure modification.
- If -M s is specified and another user executes an SQL that causes the page to be released, a conflict occurs at resource type 0152 or 0004, and there are cases in which the process waits for lock release until the transaction terminates. The following SQL statements cause pages to be released:
 - DROP TABLE
 - DROP INDEX
 - PURGE TABLE
 - An INSERT statement or UPDATE statement for an indexed column
 - A DELETE statement for an indexed column (with multiple keys)
 - A DELETE statement or UPDATE statement with variable row length after executing the LOCK statement
 - An INSERT statement, DELETE statement, or UPDATE statement for a LOB column

aa....aa: RDAREA name

S: Terminates processing when the applicable RDAREA is to be copied. However, continues processing if there is another backup file or if all the following conditions are met:

- The -J option is specified.
- The KFPR26061-W message is output.
- There are other unprocessed RDAREAs.

Action

Place the corresponding RDAREA on closed status with the `pdclose` command and re-execute. Alternatively, wait until the other user's process terminates, and then re-execute.

KFPR26111-E L+S

To copy Master RDAREA with `-M x` option, `pdstart` should be executed with `-r` option

Start the HiRDB system with `pdstart -r` when backing up the master RDAREA with `-M x` specified.

S: Terminates processing. However, continues processing when all of the following conditions are met.

- The `-J` option is specified.
- The KFPR26061-W message was output.
- There are other unprocessed RDAREAs.

O: Terminate the HiRDB system using the `pdstop` command, restart it with `pdstart -r`, then re-execute.

KFPR26201-E E+L

Communication "*aa....aa*" error occurred, code=*bbbb*

A communication error occurred while the database recovery utility (`pd_rstr`) was being executed.

aa....aa: Name of the RPC-related function resulting in the error

bbbb: Error code set by the RPC-related function resulting in the error

S: Terminates processing.

Action

See 4. *Error Detail Codes* to eliminate the cause of the error, and re-execute. If the error cannot be corrected by the HiRDB administrator, contact a customer engineer.

KFPR26202-E L+S

Unable to allocate COMBUF area, size=*aaaaaa*

A communication area cannot be allocated because a real or virtual memory space shortage occurred.

aaaaaa: Size (in KB) of communication area that was to be allocated

S: Terminates processing.

Action

- Re-execute the command after a process that uses a large amount of memory has terminated.
- In UNIX, If a value greater than 32 was specified for the buffer size (`pd_utl_buff_size` operand) in the system common definition, specify 32, and then re-execute the command.

KFPR26203-E L+S

System call error, func=*aa....aa*, errno=*bbb*

A system call error occurred.

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

bbb: errno value of the system call resulting in the error

S: Terminates processing.

Action

Check the value of the error indicator, refer to `errno.h` and the applicable OS manual to eliminate the cause of the error, then re-execute.

KFPR26204-I E

Error exists in command line or control file, usage is as follows

An error was detected in the specified command or control statements file. The correct usage is displayed after this message.

S: Terminates processing.

O: Correct the error in the command or control statements file and re-execute.

KFPR26205-E E+L

Invalid option flag exists in command line

The command line contains an invalid option.

S: Terminates processing after analyzing the command line.

Action

Correct the specification on the command line and re-execute.

KFPR26206-E E+L

Invalid parameter *aa....aa* exists at *-b* option in command line

An option on the command line contains an invalid parameter. A list RDAREA is not copied or recovered.

aa....aa: Invalid parameter

b: Option name

S: Terminates processing after analyzing the command line.

Action

Correct the specification on the command line and re-execute.

When the database recovery utility (`pdrestore`) is used in conjunction with JP1/OmniBack II, re-execute `pdsetup` if `-k o` is displayed as the invalid parameter. In `pdsetup`, specify the OmniBack II parameter in the `-p` option (`pdsetup -p`

OmniBack).

KFPR26207-E E+L

Duplicate *aa...aa* at *-b* option in command line

Information is duplicated in an option on the command line.

aa...aa: Duplicated name

b: Option name

S: Terminates processing after analyzing the command line.

Action

Correct the specification on the command line and re-execute.

KFPR26208-E E+L

Invalid combination of option flag (*-a* and *-bb...bb*) exists in command line

There is an invalid combination of option flags on the command line.

a: Option flag combined invalidly

bb...bb: Option flag combined invalidly

If "(in control file)" is output after the option flag is combined invalidly, this indicates that the option flags on the command line and the option flags in the control statement are combined invalidly.

S: Terminates processing after analyzing the command line.

Action

Revise the command line or control statement specification and re-execute.

KFPR26209-E E+L

Option flag *-aa...aa* is not specified in command line

A required option flag is missing on the command line.

aa...aa: Required option flag

If the required option flag is a selection item, all selection candidates are output.

S: Terminates processing after analyzing the command line.

Action

Revise the command line specification and re-execute.

KFPR26210-E E+L

Too long parameter exists at *-a* option in command line

Parameter specification for an option is too long on the command line.

a: Option name

S: Terminates processing after analyzing the command line.

Action

Correct the specification on the command line and re-execute.

KFPR26212-E L+S

HiRDB file *aa....aa* error , errno=*bb....bb*, HiRDB file name=*cc....cc*

Error *aa....aa* occurred in file *bb....bb*.

aa....aa: Nature of error:

close: Close file

create: Create file

fstat: Collect file information

open: Open file

read: Read file

write: Write data to file

expand: Expand file

reopen: Open the second or subsequent volume of a multivolume file

bb....bb: Error code

0: Could not perform a read or write in the requested size.

Other: See *5.1 Error codes returned from HiRDB file system access requests*.

cc....cc: Name of the file resulting in the error

S:

For database file:

Skips recovery processing of the affected RDAREA and resumes recovery processing of other RDAREAs.

For backup file:

Cancel recovery processing.

Action

For database file:

Provide a separate HiRDB file system area for the affected RDAREA and re-execute.

For backup file:

Use another backup file and re-execute.

If the error content is `write` and the error code is 0, the operating system file system may have a capacity shortage. If the error content is `read` and the error code is 0, the error may have occurred when only the log was recovered for the RDAREA of the HiRDB file system area created without specifying the `-i` option with the `pdfmkfs` command.

If the cause of the error cannot be determined, contact a customer engineer.

KFPR26215-E L+S

Unable to recover RDAREA at inactive server *aa...aa*

An RDAREA in an inactive server cannot be recovered with `-l`, `-L`, or `-d` specified.

aa...aa: Name of the inactive server

S: Cancels recovery of the RDAREA in this server.

Action

Activate the stopped server and re-execute.

KFPR26216-E L+S

Too many RDAREAs for recovery

The number of RDAREAs to be recovered exceeds the maximum (which is 1120 per server).

S: Terminates processing.

O: Correct the number of RDAREAs to be recovered to no more than 1120 and re-execute.

KFPR26217-E L+S

Insufficient memory in message buffer pool due to concurrent execution of "pdrstr"

A temporary memory shortage occurred in the message storage buffer pool for the utility server when `pdrstr` was executed concurrently.

The KFPS00854-W message may be output when this error occurs; however, a server error has not occurred in this case.

S: Terminates processing.

O: Wait until execution of current `pdrstr` is completed, then re-execute.

KFPR26218-E L+S

Unable to send message from *aa...aa* to *bb...bb*

Data cannot be sent from host *aa...aa* to host *bb...bb* because a communication error occurred.

aa...aa: Send source host name

If the system switching facility is being used, the host name of the primary system is indicated.

bb...bb: Send destination host name

If the system switching facility is being used, the host name of the primary system is indicated.

S: Cancels processing of the backup file resulting in the communication error.

Action

Take action appropriate to the KFPR26201-E message that 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.

KFPR26220-E L+S

System manager "*aa...aa*" failed, return code=*bb...bb*

System-related function "*aa...aa*" resulted in an error.

aa...aa: Name of the system-related function resulting in the error

bb...bb: Error code set by the system-related function resulting in the error

S: Terminates processing.

Action

The name of the system function in which the error occurred is `pdi_omm_attach` and the error code is -144.

To resolve one of the following suspected problems, re-execute the command by specifying the correct host name in the `-m` option:

- The host name was omitted in the `-m` option and the specified master directory RDAREA is not on the server machine into which the `pdrstr` command was entered.
- A master directory RDAREA was not found on the server machine with the host name specified in the `-m` option.

Other cases:

See 4. *Error Detail Codes* to correct the cause of the error and re-execute the command. If an error that cannot be corrected by the HiRDB administrator has occurred, contact a customer engineer.

KFPR26221-E L+S

Unable to output result of `pdrstr`

The result of the database recovery utility cannot be output due to the error reported

before this message.

S: Terminates processing.

Action

Eliminate the cause of the error and re-execute. If no other error has occurred, recovery processing has terminated (if the execution result is not needed, there is no need to re-execute the processing).

KFPR26222-I L+S

Output result of pdrstr to *aa....aa*

The result of the database recovery utility was output to file *aa....aa*.

aa....aa: Name of output file

S: Resumes processing.

KFPR26224-E L+S

Unable to remove shared memory, key=*aa....aa*

Shared memory cannot be deleted.

aa....aa: Shared memory key value

S: Resumes processing.

Action

Delete the shared memory with a command after processing has terminated.

KFPR26225-E L+S

No RDAREA to restore

The RDAREA to be recovered was not found.

S: Terminates processing.

Action

Correct the specification on the command line and re-execute.

KFPR26226-E L+S

System ID of *aa....aa* is invalid

Because the system ID for *aa....aa* does not match the active HiRDB, the database cannot be recovered.

aa....aa: Type of file:

backup file: Backup file

sys log file: System log file

unload log file: Unload log file

management file: Differential backup management file

S: Terminates processing.

Action

Take one of the following actions:

- For backup file or unload log file:
Specify the correct file and re-execute.
- For system log file
System log file may have been damaged. Check whether the log file definition has been changed and initialized.
- For differential backup management file
The specifications of the `-g` and `-k` options are invalid. Specify the correct values and re-execute the `pdrstr` command.

KFPR26227-E L+S

`-l` or `-d` option is not specified for backup file with `-M s` option

No unload log file was specified for recovering data from a backup file that was created with the `-M s` option specified.

S: Terminates processing.

Action

If `-l` is specified:

Specify the unload log file and re-execute.

If `-d` is specified:

Specify the directory where the unload log file is stored and re-execute.

KFPR26228-E L+S

Invalid RDAREA status, RDAREA name="*aa....aa*"

Because the indicated RDAREA is not on hold or on closed status or is in use by another user, it cannot be restored.

aa....aa: RDAREA name

S: Cancels recovery of this RDAREA and recovers another RDAREA.

Action

Place the RDAREA on hold or on closed status and re-execute. Or, wait until the other user's process terminates, then re-execute.

2. Messages

KFPR26229-E L+S

To recover Master RDAREA, `pdstart` should be executed with `-r` option

To recover the master directory RDAREA, start the HiRDB system with `pdstart -r`.

S: Terminates processing.

O: Terminate the HiRDB system with the `pdstop` command, start it with `pdstart -r`, then execute.

KFPR26230-E L+S

Unable to use `-c` option, deleted RDAREA "*aa....aa*" exist in backup file

Although the `-c` option was specified during execution of `pdrstr`, RDAREA "*aa....aa*" in the specified backup file does not exist in the system (the RDAREA may have been deleted after the backup file was made).

Consequently, the `-c` option cannot be specified for the backup file.

S: Terminates processing.

O: Specify the correct backup file and re-execute. Alternatively, specify the RDAREAs to be recovered with an option other than the `-c` option, then re-execute.

KFPR26232-E L+S

Unable to output Log point information

Log point information cannot be output because of the error that was output before this message.

S: Terminates processing.

Action

Eliminate the cause of the error and re-execute.

KFPR26233-I L+S

Output Log point information to *aa....aa*

Log point information was output to log point information file *aa....aa*.

aa....aa: Name of the log point information file

S: Terminates processing.

KFPR26234-E L+S

Log point information not found in backup

Log point information cannot be found in the backup file. Recovery specified by `-L` or re-creation of the log point information file (`-z`) cannot be performed.

S: Terminates processing.

Action

Specify the backup file that was acquired by specifying -z and re-execute.

KFPR26235-E L+S

System log file for recovery not swapped

System log file needed for database recovery has not been swapped out.

S: Terminates processing.

Action

Use the pdlogswap command to swap system log files and re-execute.

KFPR26236-E L+S

Error occurred in log file group, file group=*aa...aa*, reason=(*bbb*,
cccc)

An error occurred in a log file group.

aa...aa: Name of the log file group resulting in the error

bbb: Reason code

cccc: Detail code

S: Terminates processing.

Action

Following are the reason codes and actions:

Reason code	Explanation	Action
-1	Argument is invalid.	Contact a customer engineer.
-2	Fatal error or unexpected error occurred.	
-31	Error in log file definition analysis function	System log file definition has been changed incorrectly; refer to the detail code to revert to the original definition.

Following are the detail codes:

Detail code	Explanation
-1	File group name in definition is invalid.
-2	System A file name in definition is invalid.
-3	System B file name in definition is invalid.

KFPR26237-E L+S

Error occurred in log element file, file group=*aa...aa*, system A/B:*b*, reason=(*ccc*, *dddd*)

An error occurred in a system log file.

aa...aa: Name of the file group resulting in the error

b: System in which the error occurred

ccc: Reason code

dddd: Detail code

S: If the error did not occur in a log file in the other system, the HiRDB system resumes processing using the log file in the other system.

Action

Take action appropriate to the reason code: If a reason code that is not listed is output, contact the customer engineer.

Reason code	Explanation	Action
-40 -41 -42 -43	I/O error occurred.	Refer to the detailed code and the error code in Section 5.1 <i>Error codes returned from HiRDB file system access requests</i> to eliminate the cause of the error.
-50 -51 -52 -53	File contents are invalid.	The log file may have been damaged. Check whether the log file definition has been changed and initialized and whether an invalid status has been set. The detail code is system maintenance information.

KFPR26238-E L+S

Log is out of -T option value, RDAREA name=*aa...aa*, *bb...bb* time=(*cc...cc*), *dd...dd* time=(*ee...ee*)

Recovery based on a time specified in the -T option is not possible because the specified time is not within the period covered by the log.

aa...aa: RDAREA name

bb...bb: Start or end time:

"start": Recovery start time specified in the -T option is later than the log end time

"end": Recovery end time specified in the -T option is earlier than the log start time

cc...cc: Recovery start or end time specified in the -T option

dd....dd: First or last unload log file

("first"|"last")

ee....ee: Log start or end time

S: Terminates processing.

O: Correct the -T option and re-execute.

KFPR26239-E L+S

Invalid *aa....aa* value in -T option for RDAREA name=*bb...bb*, transaction committed at *cc....cc*

The recovery end time specified in the -T option for RDAREA *bb...bb* is invalid. Times earlier and later than the transaction synchronization point time are specified in the -T options as the recovery end times for the RDAREAs updated by the transaction.

aa....aa: Recovery end time specified for the RDAREA

bb...bb: RDAREA name

cc....cc: Time when the transaction synchronization point was reached

S: Terminates processing.

O: Set the -T option recovery end times specified for the RDAREAs updated by the transaction so that they all either include or do not include the synchronization point, then re-execute.

KFPR26240-E L+S

Backup is out of *aa....aa* in -T option value, RDAREA name=*bb...bb*

The recovery end time specified in the -T option for RDAREA *aa....aa* is invalid.

aa....aa: Recovery end time specified for the RDAREA

bb...bb: RDAREA name

S: Terminates processing.

O: Specify in the -T option a recovery end time that is later than the backup acquisition time and re-execute.

KFPR26241-W L+S

Transaction is running at recovery end time, RDAREA name=*aa....aa*, end time=(*bb...bb*), Transaction count=*cc....cc*

The recovery end time specified for recovery of RDAREA *aa....aa* includes a transaction being executed. A transaction being executed at the recovery end time cannot be recovered.

aa....aa: RDAREA name

bb...bb: Recovery end time of the RDAREA

cc....cc: Number of transactions being executed

S: Resumes processing.

O: To recover a transaction being executed at the recovery end time, specify the time that the transaction ended as the recovery end time and re-execute.

KFPR26242-E L

Unable to output message to standard output, host=*aa....aa*,
file=*bb....bb*, func=*cc....cc*, errno=*ddd*

Messages cannot be output to standard output because a system call error occurred.

aa....aa: Name of the host where the file resulting in the error is located

bb....bb: Name of the file resulting in the error

When the name of the system call resulting in the error is `tempnam`, `*****` is displayed.

cc....cc: Name of the system call resulting in the error

In UNIX, the name of the shell command that was executed is displayed, enclosed in parentheses.

ddd: errno of the system call resulting in the error

S: Resumes processing.

O: Check the value of the error indicator and refer to `errno.h` or the applicable OS manual to eliminate the cause of the error.

KFPR26243-E L

Unable to remove temporary file, host=*aa....aa*, file=*bb....bb*

A temporary file cannot be deleted because of the error that was output before this message.

aa....aa: Name of the host where the file that cannot be deleted is located

bb....bb: Name of file that cannot be deleted

S: Resumes processing.

O: Wait until processing terminates, then delete the temporary file.

KFPR26244-E L+S

`pdrstr` must be executed at unit defined as manager

The database copy utility (`pdcopy`) must be executed at the unit where the system manager is defined.

S: Terminates processing.

O: Execute remote login to the unit where the system manager (MGR) is defined and re-execute the command.

KFPR26245-I L+S

OmniBackII backup session id=*aa....aa*

The database will be recovered using the object with session ID *aa....aa* as the backup.

aa....aa: JP1/OmniBack II session ID

S: Continues processing.

KFPR26246-E L+S

OmniBackII object not found

The specified JP1/OmniBack II object was not found.

S: Terminates processing.

Action

The object name specified in the `-b` option is invalid. Specify the correct name and re-execute. A list of object names can be displayed by executing the `omnidb -stream` command of JP1/OmniBack II.

KFPR26247-I L+S

OmniBackII information =*aa....aa*

Displays JP1/OmniBack II message information.

aa....aa: JP1/OmniBack II message information

Only the first 180 characters are output when the message information consists of more than 180 characters.

S: Terminates processing.

Action

For details of the JP1/OmniBack II message information, see the *JP1/OmniBack II* manual.

KFPR26248-E L+S

OmniBack II file not found, host=*aa....aa* file=*bb....bb*

Because JP1/OmniBack II file *bb....bb* was not found at host *aa....aa*, the database recovery utility (`pdrstr`) could not be executed.

aa....aa: Host name

bb....bb: File name

S: Terminates processing.

Action

Ensure that the JP1/OmniBack II disk agent has been installed at host *aa....aa*. If it has not been installed, install it. If it has been installed, contact a customer engineer.

KFPR26249-E L+S

Unable to check OmniBack II file, host=*aa...aa*

Refer to the message that was output before this message. Because of the error explained in that message, the JPI/OmniBack II file of host *aa...aa* could not be checked, and therefore the database recovery utility (`pdrstr`) or the `pdbkupls` command cannot be executed.

aa...aa: Host name

S: Terminates processing.

Action

See the action listed for the message that was output before the relevant message in the `syslogfile`, remove the cause of the error, then re-execute.

KFPR26254-E L+S

Unable to use management file, reason=*aa...aa*, name=*bb...bb*

Differential backup management file *bb...bb* cannot be used.

aa...aa: Reason:

`unfinish maintenance`: Maintenance is not completed.

`no control block`: Control information for the differential backup management file was not found.

bb...bb: Differential backup management file name

S: Terminates processing.

Action

Take one of the following actions:

- `unfinish maintenance`:

If there is a backup of the differential backup management file, use the `pdfstr` command to recover the differential backup management file, and then re-execute the `pdrstr` command. If there is no backup of the differential backup management file, execute recovery without using a differential backup management file. For the recovery procedure when a differential backup management file is not available, see the *HiRDB Version 8 System Operation Guide*.

- `no control block`:

The specifications of the `-g` and `-k` options for the `pdcopy` command are invalid; specify the correct values and re-execute the `pdrstr` command.

KFPR26255-E E+L

Page corrupted, management file name=*aa...aa*, page number=*bb...bb*

Page corruption of differential backup management file *aa....aa* was detected.

aa....aa: Differential backup management file name

bb....bb: Page number in which page corruption was detected

S: Terminates processing.

Action

If there is a backup of the differential backup management file, use the `pdfrstr` command to recover the differential backup management file, then re-execute the `pdrstr` command.

If there is no backup of the differential backup management file, execute recovery without using a differential backup management file. For the recovery procedure when a differential backup management file is not available, see the *HiRDB Version 8 System Operation Guide*.

KFPR26257-I L+S

Update start, management file name=*aa....aa*

Updating of differential backup management file *aa....aa* has begun.

aa....aa: Differential backup management file name

S: Continues processing.

KFPR26258-I L+S

Update complete, management filename=*aa....aa*

Updating of differential backup management file *aa....aa* has been completed.

aa....aa: Differential backup management file name

S: Continues processing.

KFPR26262-W L+S

Unable to find RDAREA. RDAREA name=*aa....aa*, generation number=*bb*

An RDAREA with the specified generation number could not be found. Recovery processing of this RDAREA was skipped.

aa....aa: RDAREA name

bb: Generation number

S: Continues processing.

Action

Reevaluate the specified RDAREA name or generation number. When recovering the RDAREA is necessary, correct the RDAREA name or generation number, and then re-execute. When recovering the RDAREA is not necessary, ignore this message.

KFPR26263-E L+S

Invalid log of RDAREA. RDAREA name=*aa....aa* (*bb*, *cc*),
information= (*dd....dd*, *ee....ee*, *ff....ff*), (*gg....gg*, *hh....hh*, *ii....ii*)

When the logs for generation *bb* and generation *cc* of RDAREA *aa....aa* were read in, a log indicating that both generations were updated at the same time was found. It is possible that updating of generation *bb* and generation *cc* was performed out of synch with each other.

Recovery of RDAREA *aa....aa* failed. Recovery using the *-x* option cannot be performed.

aa....aa: RDAREA name

bb: Generation specified in the *-q* option

cc: Generation specified in the *-x* option

dd....dd: Output time of the previous log (format: *YYYY/MM/DD HH:MM:SS*)

ee....ee: Internal information

ff....ff: Internal information

gg....gg: Output time of the log with updates in reverse order (format: *YYYY/MM/DD HH:MM:SS*)

hh....hh: Internal information

ii....ii: Internal information

S: Continues processing.

Action

For details about what to do if you cannot use second generation RDAREA system logs to recover the RDAREA (if this KFPR26263-E message was output), see the *HiRDB Staticizer Option Version 7 Description and User's Guide*.

KFPR26264-I L+S

Backup generation differ from recovery generation. backup generation=*aa* recovery generation=*bb*

The generation number specified when data was backed up differs from the generation number specified when the database was recovered. Use the *aa* generation backup to recover the *bb* generation.

aa: The generation number specified in the *-q* option during backup

bb: The generation number specified in the *-q* option during recovery

S: Continues processing.

KFPR26265-I L+S

File sequence error information, RDAREA name = *aa...aa* server name = *bb...bb* information = (*cc...cc, dd...dd, ee...ee, ff...ff*) , (*gg...gg, hh...hh, ii...ii, jj...jj*)

This message outputs the detail information relating to the KFPR16301-E message (*reason=File-missing*).

aa...aa: RDAREA name

bb...bb: Server name

cc...cc: Output time of the previous log record*

dd...dd: Run ID* of the previous log record output

ee...ee: Generation number* of the system log output by the previous log record

ff...ff: System internal information

gg...gg: Log report output time

hh...hh: Run ID when the log record is output

ii...ii: Generation number of the system log output by the log record

jj...jj: System internal information

* If the unload log file is not missing, **** . . . **** is output.

S: Terminates the recovery process of all RDAREAs on the applicable server. If a server with other RDAREAs that can be recovered is found, continues the recovery process of that server.

Action

cc...cc	Administrator's action
time	The unload log file including log records output from <i>cc...cc</i> to <i>gg...gg</i> is missing. Specify all unload log files, including the log records output at the applicable time, and then re-execute.
** . . . **	Take one of the following actions: An unload log file that must be specified first on each server may be missing. Refer to time <i>gg...gg</i> , specify the missing unload log file(s), and then re-execute. If all unload log files close to time <i>gg...gg</i> are specified, check if the backup file was obtained near time <i>gg...gg</i> . If the backup file was not obtained near the time <i>gg...gg</i> , specify a backup file obtained near time <i>gg...gg</i> , and then re-execute.

KFPR26266-E L+S

Unable to use the "-k n" option because the JP1/VERITAS NetBackup Agent for HiRDB license not found

The -k n option cannot be specified because the license required to use the JP1/

VERITAS NetBackup linkage facility is missing.

S: Terminates processing.

Action

Obtain and configure the license required to use the JP1/VERITAS NetBackup linkage facility.

KFPR26267-E L+S

Dynamic load error occurred, shared library=*aa...aa*, host=*bb...bb*

Dynamic loading of common library *aa...aa* on host *bb...bb* failed.

aa...aa: Full path name of the shared library (in UNIX, the file path name of the shared library)

bb...bb: Host name

S: Terminates processing.

Action

Check if a NetBackup client is installed. If a copy is installed, see the KFPR26003-E message just output to eliminate the cause of the error, and then re-execute.

KFPR26268-E L+S

NetBackup object not found, policy=*aa...aa*, from=*bb...bb*, to=*cc...cc*

A backup of policy name *aa...aa* obtained in *bb...bb* to *cc...cc* cannot be found.

aa...aa: Policy name

bb...bb: The backup search condition start date of the -U option (YYYY/MM/DD HH:MM:SS). ****/**/** **: **: ** is output if no start date is specified.

cc...cc: The backup search condition end date of the -U option (YYYY/MM/DD HH:MM:SS). ****/**/** **: **: ** is output if no end date is specified.

S: Terminates processing.

Action

Check whether there is a backup file of the policy in the specified period, reevaluate the policy name and specification period, and then re-execute. If the backup search condition start date is ****/**/** **: **: **, the backup search condition start date and time become the policy creation date and time. If the backup search condition end date and time are ****/**/** **: **: **, the backup search condition start date and time are the current new date and time.

KFPR26269-E L+S

NetBackup API error occurred, return code=*aa...aa* (*bbb*),
func=*cc...cc*, message=*dd...dd*

A problem occurred in the application programming interface of NetBackup.

aa....aa: Name of the application programming interface return code for NetBackup

bbbb: Application programming interface return code for NetBackup (hexadecimal)

cc....cc: Application programming interface name for NetBackup

dd....dd: The message obtained after the application programming interface error return for NetBackup (displays the first 100 characters if the message length exceeds 100 characters)

S: Terminates processing.

Action

Return code (bbbb)	Return code name (aa....aa)	Meaning	Action
0x03	SYSTEM_ERROR	NetBackup internal error	Check the error cause at the NetBackup management console, take appropriate action, and then re-execute.
0x0D	FEATURE_NOT_LICENSED	No license was found or the license was invalid	Obtain a license.
0x4B	VERSION_NOT_SUPPORTED	NetBackup version is not supported	Check if the NetBackup version is correct.
0x4D	ACCESS_FAILURE	Cannot access the object	Check if the NetBackup master server or NetBackup media server stopped. If the server did not stop, contact a customer engineer*.
Other	—	—	Contact a customer engineer*.

—: Does not apply.

* Obtain the following data before contacting a customer engineer:

- The system log file of the host with a single server or system manager, the host with the `-b` option specified, or the host with the target RDAREA when executing the utility
- Files in the `%PDDIR%\spool` directory on the host with a single server or system manager, the host with the `-b` option specified, or the host with the target RDAREA when executing the utility
- Error information from the NetBackup management console
- Messages output to standard output or standard error

- The process results output file when executing the utility

KFPR26270-W L+S

Log information, specified log Run ID=*aa...aa* Gen No=*bb...bb*, log Run ID=*cc...cc* Gen No=*dd...dd* in RDAREA name="*ee...ee*"

Unload log files required for the recovery of the database are not specified in the `-l` or `-d` option of the `pdrstr` command. The log information stored in the RDAREA and the log information in the unload log file specified in the `-l` or `-d` option of the `pdrstr` command is displayed.

Note:

If the backup was made under one of the following circumstances, this warning message is output even if all unload log files needed for database recovery have been specified; in this case, this warning message can be ignored:

- Backup was made after HiRDB terminated normally.

This warning message is also output when all unload log files that store the system logs used in the next and subsequent normal starts are specified in the `-l` or `-d` option.

- System log files were swapped after the `pdclose` command had been entered, and then the backup was made.

This warning message is also output when all unload log files that store the system logs used after swapping of system log files are specified in the `-l` or `-d` option.

- System log files were swapped after reference-possible backup-hold (update WAIT mode) or updatable backup-hold (WAIT mode), and then the backup was made.

This warning message is also output when all unload log files that store the system logs used after swapping of system log files are specified in the `-l` option.

aa...aa:

ID of the log information stored in the oldest unload log file¹ in the directory specified in the `-l` option or specified in the `-d` option (log server run ID of the system log file)

bb...bb:

Log information stored in the oldest unload log file¹ in the directory specified in the `-l` option or specified in the `-d` option (generation number of the system log file)

cc...cc:

ID of the log information stored in the RDAREA (log server run ID of the system log file)²

dd....dd:

Log information stored in the RDAREA (generation number of the system log file)²

ee....ee: RDAREA name

¹ The first unload log file at each server is used.

Example:

```
-1 bes1_unlog01, bes1_unlog02, bes2_unlog01, bes2_unlog02
```

When the -1 option is specified as described previously, the log information of unload log files *bes1_unlog01* (unload log file of back-end server 1) and *bes2_unlog01* (unload log file of back-end server 2) is displayed.

² Log information is stored in an RDAREA in the following cases:

- When an RDAREA is on backup-hold
- When an RDAREA is closed
- When HiRDB has terminated normally

Action

When specifying the -1 option of the `pdrstr` command, specify all unload log files that are required for the recovery of the database. Alternatively, when specifying the -d option of the `pdrstr` command, either specify all unload log files that are required for the specified directory or increase the number of directories to be specified. Refer to *cc....cc* and *dd....dd* to determine which unload log files are required.

KFPR26271-I L+S

NetBackup information, policy=*aa....aa*, date=*bb....bb*, time=*cc....cc*

Backup of policy name *aa....aa* obtained by date *bb....bb* and time *cc....cc* was restored.

aa....aa: Policy name

bb....bb: Date (YYYY/MM/DD)

cc....cc: Time (HH:MM:SS)

S: Continues processing.

KFPR26272-W S+L

No unload log file in specified directory, directory name = *aa....aa*

There is no unload log file in the specified directory.

2. Messages

aa....aa: Directory name (if it exceeds 100 characters, the last 100 characters are output)

S: Continues processing.

Action

Check the directory name *aa....aa*. If the directory name is invalid, revise the directory name and re-execute.

KFPR26273-E S+L

Error occurred directory analysis, directory name = *aa....aa*

An error occurred during analysis of directory *aa....aa*.

aa....aa: Directory name (if it exceeds 100 characters, the last 100 characters are output)

S: Terminates processing.

Action

On the basis of the KFPR26203-E message output before or after, remove the cause of the error and re-execute.

KFPR26274-E E+L

Too many parameter exists at -a option in command line.

Too many parameters are specified in the command line options.

a: Option name

Action

The option name and action are listed below:

Option name	Action
<i>a</i>	The total number of specified directory names exceeds the maximum number of 128 that can be specified. Revise the specified number of directories to within 128, move the unload log files in the specified directories, then re-execute.

KFPR26275-I S+L

Pdbkupls started.

The pdbkupls command has been started.

S: Continues processing.

KFPR26276-I S+L

Pdbkupls terminated, return code=*aa*

The pdbkupls command terminated with return code *aa*.

aa: Command return codes

0: Normal termination

12: Error termination

S: Continues processing.

Action

If the return code shows an error termination (12), refer to the error messages output before and after this message to the event log (in UNIX, syslogfile). See the action listed for the error message, remove the cause of the error, then re-execute.

KFPR26277-E S+L

Required backup files not specified.

The backup files required to display the information are insufficient.

S: Terminates processing.

Action

Specify all required backup files and re-execute.

KFPR26278-I L+S

*aa....aa*Gbyte processing.

aa....aa Gigabytes are being read from the backup files.

aa....aa: Size of data read so far

S: Continues processing.

KFPR26279-I L+S

*aa....aa*Gbyte reading completed.

Reading of the backup file has completed approximately *aa....aa* gigabytes.

aa....aa: Size of the backup file (gigabytes)

Rounded up to the nearest 0.01 gigabyte (a backup file of less than 0.01 gigabytes is displayed as 0.01 gigabyte).

S: Continues processing.

KFPR26280-E S+L

Specified backup file invalid. filename=*aa....aa*, code=*bb....bb*

The specified backup file is invalid.

aa....aa: Name of the invalid backup file (if it exceeds 100 characters, the last 100 characters of the backup file name are output).

bb....bb: Error cause

2. Messages

`diff`: Backup file prepared by the differential backup facility

`other`: Backup file prepared by other than `pdcopy`

`error`: Backup file prepared by `pdcopy`, which terminated with an error (return code 12)

S: Terminates processing.

Action

Specify the correct backup file name and re-execute.

KFPR26309-I S+L

Backup file=*aa....aa*

Restores by using backup file *aa....aa*.

aa....aa: RDAREA name

S: Continues processing.

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