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1. Preface

1.1 Edition information
This edition applies to the Hercules S/370, ESA/390 and z/Architecture Emulator Release 4.00.0 and to all subsequent versions, releases and modifications until otherwise indicated in new editions. Make sure you are using the correct edition for the level of software you are using.

1.2 What this book is about
This book describes all messages and codes of the Hercules Emulator.
For guidance in operating or debugging Hercules, for a general overview or for guidance in installation of the product, additional manuals are available. Please see Chapter “Related Publications” for more information on these manuals.
Please note that some information can be found in more than one manual. This redundancy is not intended to unnecessarily expand the manuals but should help to find all necessary information in one place.

1.3 Who should read this book
This book is mainly intended for people who are responsible for operating the Hercules Emulator. It serves as a starting point for resolving errors in the Hercules environment.

1.4 What you need to know to understand this book
To understand this book you should be somewhat familiar with the Microsoft Windows and/or Linux operating systems. You should also be familiar with the installation and operation of the Hercules Emulator itself.
Last but not least you should be familiar with the hardware and software of IBM mainframe environments and their underlying ideas and concepts, as Hercules emulates IBM mainframe hardware.

1.5 How to use this book
This book is designed as a reference book for all messages and codes of the Hercules Emulator and related products. It is not intended to be read chapter by chapter.

1.6 Revision Notice
Hercules Release: Version 4 Release 00 Modification 0
Publication Number: HEMC040000
SoftCopy Name: HerculesMessagesandCodes
Revision Number: HEMC040000-00
Date: November 21, 2015
1.7 Readers Comments

If you like or dislike anything about this book please send an email to the address below. Feel free to comment on any errors or lack of clarity. Please limit your comments on the information in this specific book and also include the “Revision Notice” just above. Thank you for your help.

Send your comments by email to the Hercules-390 discussion group:
hercules-390@yahoogroups.com

1.8 Legal Advice

Hercules implements only the raw S/370, ESA/390, and z/Architecture instruction set, it does not provide any operating system facilities. This means that you need to provide an operating system or standalone program which Hercules can load from an emulated disk or tape device. You will have to write the operating system or standalone program yourself, unless you possess a license from IBM to run one of their operating systems on your PC, or use IBM programs and operating systems which have been placed in the public domain.

**NOTE:** It is YOUR responsibility to comply with the terms of the license for the operating system you intend to run on the Hercules Emulator.

1.9 Trademarks

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- Xmit Manager is copyrighted by Neal Johnston-Ward.
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1.10 Acknowledgements

The Hercules manuals would not have been possible without the assistance of many people and I would like to thank all those who helped me. In particular I would like to thank:

- The Hercules developers for their documentation on various websites from which I derived a great deal of information.
- Roger Bowler and Fish for proof-reading the manuals.
- Loris Degioanni for allowing me to use parts of the original WinPcap documentation.
- Tom Brennan for allowing me to use parts of his Vista tn3270 documentation.
- My colleagues for working with early previews of the documentation, beginning with just a few pages.
- Mike Cairns for reviewing and editing the manuals.
- Robert Allan for providing the “Linux Installation” part.
- Lutz Mader for providing the “Mac OS X Installation” part.

If anyone feels they have been forgotten on this list please let me know.

Peter Glanzmann
2. Related Publications

2.1 Hercules – General Information
The Hercules “General Information” manual provides you an overview of the ideas and concepts of the Hercules Emulator as well as a documentation of the emulator’s functionality. It explains what Hercules does and does not do. It helps you decide if the software fits your needs fulfills your requirements.

2.2 Hercules – Installation Guide
The Hercules “Installation Guide” shows you how to install Hercules and all related optional and required software components under the Microsoft Windows, Linux and Apple MacIntosh OS X operating systems.
After going through the installation guide you will have a working emulator environment ready to IPL a S370, S/390 or z/Architecture mainframe operating system.

2.3 Hercules – User Reference Guide
The Hercules “User Reference” leads you through all aspects of the emulator’s operation. It provides instruction in the operation of the Hercules Emulator with and without the Hercules GUIs. The usage details for the utilities are covered in the “Hercules Utilities” guide.
After reading this manual you should be able to work with Hercules, to create a configuration file and to use Hercules commands through the console.

2.4 Hercules – Operations and Utilities Guide
The Hercules “Operations and Utilities Guide” describes the operation of Hercules as well as additional utilities that are delivered together with the emulator. Selected utilities from third-party suppliers are also covered in this manual.
After reading this manual you should have the knowledge to operate Hercules and use the right utility for a certain housekeeping task within the Hercules environment. You should also be able to create virtual devices and understand backup / restore procedures.

2.5 Hercules – Messages and Codes
The “Messages and Codes” manual provides a detailed explanation of all Hercules related messages. It is the primary source for troubleshooting and debugging if you experience problems with Hercules.

2.6 Hercules – Reference Summary
The Hercules “Reference Summary” booklet lists all the system parameters, device definitions, console commands, Hercules utilities etc. along with their arguments.
This booklet is intended as a quick reference guide for experienced users. Consult the Hercules "User Reference Guide" and "Utilities Guide" for more detailed and additional information.
3. Summary of changes

3.1 Version 4, First Edition (HEMC040000-00)

This section describes briefly the various changes that have been made in the “Messages and Codes” manual related to the previous edition. The most significant changes made in this edition of the manual are the following:

- Chapter 3 (Summary of changes) added.
- Chapter 4 (Introduction): New section “Message Standardization” added.
- Chapter 4 (Introduction): New section “Message Format (Hercules V4.00)” added.
- Chapter 4 (Introduction): New section “Component List (Hercules V4.00)” added.
- Chapter 4 (Introduction): New section “Debug Option” added.
- Part I: New Messages added. Not all messages are documented yet.
- Appendix A. Message Index (New → Old) added.
- Appendix B. Message Index (Old → New) added.
- Appendix C. Links: List of links updated.
4. Introduction

4.1 Overview
This Chapter gives an introduction to the messages and codes of the Hercules Emulator and related tools, as well as the messages written from the various standalone utility programs.

4.2 Locations
All messages are written to the Hercules console (native console as well as the Hercules Windows GUI / Hercules Studio) and to the Hercules log file, if a log file is specified in the startup command.

4.3 Message Standardization
Hercules version 4.00 introduces the message standardization. With this major rework of the message processing it is ensured that messages are issued in a consistent way throughout the various Hercules functions. It is also ensured that message numbers can not be assigned twice.
Due to this change in the message processing it may be necessary for users to review existing HAO (Hercules Automated Operator) rules and self written scripts. Message indices in the appendices of this manual which show the relationship between old and new message identifiers will reduce the amount of work that has to be invested in these tasks. The cross reference tables can be found later on in this book.

4.4 Message Format (Hercules V3.07)
Up to Hercules version 3.07 all Hercules-issued messages had the following format:

\[ \text{HHC m m n n n s } \text{ text} \]

The following table explains the various parts of the old message format:

<table>
<thead>
<tr>
<th>Part</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>HHC</td>
<td>HHC is the message prefix for Hercules. All Hercules messages will have this prefix.</td>
</tr>
<tr>
<td>mm</td>
<td>“mm” specifies the component that issued the message. A detailed list of all components can be found in section 4.6.</td>
</tr>
<tr>
<td>nnn</td>
<td>“nnn” specifies the message number. This number is assigned more or less sequentially.</td>
</tr>
<tr>
<td>s</td>
<td>“s” is the message severity. Details can be found in section 4.8.</td>
</tr>
<tr>
<td>text</td>
<td>“text” is the actual message text.</td>
</tr>
</tbody>
</table>

Table 1: Message Format until Hercules V3.07
4.5 Message Format (Hercules V4.00)

Beginning with Hercules version 4.00 all Hercules-issued messages have the following format:

```
H H C n n n n n s     text
```

The following table explains the various parts of the new message format:

<table>
<thead>
<tr>
<th>Part</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>HHC</td>
<td>HHC is the message prefix for Hercules. All Hercules messages will have this prefix.</td>
</tr>
<tr>
<td>nnnnn</td>
<td>“nnnnn” specifies the message number. This number is assigned more or less sequentially.</td>
</tr>
<tr>
<td>s</td>
<td>“s” is the message severity. Details can be found in section 4.8.</td>
</tr>
<tr>
<td>text</td>
<td>“text” is the actual message text.</td>
</tr>
</tbody>
</table>

Table 2: Message Format since Hercules V4.00

4.6 Component List (Hercules V3.07)

The following table presents all the Hercules component prefixes from the old message format, along with a short description of the issuing component:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>AO</td>
<td>Hercules Automatic Operator</td>
</tr>
<tr>
<td>CA</td>
<td>Communication Adapter Emulation</td>
</tr>
<tr>
<td>CF</td>
<td>Configuration File Processing</td>
</tr>
<tr>
<td>CP</td>
<td>CPU Emulation</td>
</tr>
<tr>
<td>CT</td>
<td>Channel-to-Channel Adapter Emulation</td>
</tr>
<tr>
<td>CU</td>
<td>CCKD Utilities</td>
</tr>
<tr>
<td>DA</td>
<td>DASD Emulation (CKD, CCKD and FBA)</td>
</tr>
<tr>
<td>DC</td>
<td>DASDCOPY Utility</td>
</tr>
<tr>
<td>DG</td>
<td>Dyngui.DLL</td>
</tr>
<tr>
<td>DI</td>
<td>DASDINIT Utility</td>
</tr>
<tr>
<td>DL</td>
<td>DASDLOAD Utility</td>
</tr>
<tr>
<td>Prefix</td>
<td>Component</td>
</tr>
<tr>
<td>--------</td>
<td>-----------------------------------------------</td>
</tr>
<tr>
<td>DS</td>
<td>DASDISUP Utility</td>
</tr>
<tr>
<td>DT</td>
<td>DASDCAT Utility</td>
</tr>
<tr>
<td>DU</td>
<td>DASD Utilities Common Functions</td>
</tr>
<tr>
<td>HD</td>
<td>Hercules Dynamic Loader</td>
</tr>
<tr>
<td>HE</td>
<td>HETINIT Utility</td>
</tr>
<tr>
<td>HG</td>
<td>HETGET Utility</td>
</tr>
<tr>
<td>HM</td>
<td>HETMAP Utility</td>
</tr>
<tr>
<td>HT</td>
<td>HTTP Server</td>
</tr>
<tr>
<td>HU</td>
<td>HETUPD Utility</td>
</tr>
<tr>
<td>IF</td>
<td>Network Interface Configuration Handler (hercifc)</td>
</tr>
<tr>
<td>IN</td>
<td>Hercules Initialization</td>
</tr>
<tr>
<td>LC</td>
<td>LCS Emulation</td>
</tr>
<tr>
<td>LG</td>
<td>System Log Functions</td>
</tr>
<tr>
<td>PN</td>
<td>Hercules Control Panel Command Messages</td>
</tr>
<tr>
<td>PR</td>
<td>Printer Emulation</td>
</tr>
<tr>
<td>PU</td>
<td>Card Punch Emulation</td>
</tr>
<tr>
<td>RD</td>
<td>Card Reader Emulation</td>
</tr>
<tr>
<td>SD</td>
<td>Socket Devices Common Functions</td>
</tr>
<tr>
<td>TA</td>
<td>Tape Device Emulation</td>
</tr>
<tr>
<td>TC</td>
<td>TAPECOPY Utility</td>
</tr>
<tr>
<td>TE</td>
<td>Terminal Emulation</td>
</tr>
<tr>
<td>TM</td>
<td>TAPEMAP Utility</td>
</tr>
<tr>
<td>TS</td>
<td>TAPESPLT Utility</td>
</tr>
<tr>
<td>TT</td>
<td>TOD Clock and Timer Services</td>
</tr>
<tr>
<td>TU</td>
<td>TUN / TAP Driver Support</td>
</tr>
<tr>
<td>VM</td>
<td>VM / CP Emulation Facility</td>
</tr>
</tbody>
</table>

Table 3: Hercules Component List (V3.07)
## 4.7 Component List (Hercules V4.00)

The following table presents all the Hercules components and the assigned messages ranges.

<table>
<thead>
<tr>
<th>Message Range</th>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>HHC00000s - HHC00099s</td>
<td>General Messages</td>
</tr>
<tr>
<td>HHC00100s - HHC00199s</td>
<td>General Messages</td>
</tr>
<tr>
<td>HHC00200s - HHC00299s</td>
<td>Tape Device Emulation</td>
</tr>
<tr>
<td>HHC00300s - HHC00399s</td>
<td>DASD Device Emulation (CCKD)</td>
</tr>
<tr>
<td>HHC00400s - HHC00499s</td>
<td>DASD Device Emulation (CKD)</td>
</tr>
<tr>
<td>HHC00500s - HHC00599s</td>
<td>DASD Device Emulation (FBA)</td>
</tr>
<tr>
<td>HHC00600s - HHC00699s</td>
<td>DASD Device Emulation (SCE)</td>
</tr>
<tr>
<td>HHC00700s - HHC00799s</td>
<td>Shared Device Server</td>
</tr>
<tr>
<td>HHC00800s - HHC00899s</td>
<td>CPU Emulation</td>
</tr>
<tr>
<td>HHC00900s - HHC00999s</td>
<td>CTC Adapter Emulation</td>
</tr>
<tr>
<td>HHC01000s - HHC01099s</td>
<td>Communication Adapter Emulation</td>
</tr>
<tr>
<td>HHC01100s - HHC01199s</td>
<td>Printer Emulation</td>
</tr>
<tr>
<td>HHC01200s - HHC01299s</td>
<td>Card Punch Emulation / Card Reader Emulation</td>
</tr>
<tr>
<td>HHC01300s - HHC01399s</td>
<td>Channel-to-Channel Adapter Emulation</td>
</tr>
<tr>
<td>HHC01400s - HHC01499s</td>
<td>Hercules Initialization and Shutdown</td>
</tr>
<tr>
<td>HHC01500s - HHC01599s</td>
<td>Dynamic Loader</td>
</tr>
<tr>
<td>HHC01600s - HHC01699s</td>
<td>Panel Communication</td>
</tr>
<tr>
<td>HHC01700s - HHC01799s</td>
<td>ECPS:VM Support</td>
</tr>
<tr>
<td>HHC01800s - HHC01899s</td>
<td>HTTP Server</td>
</tr>
<tr>
<td>HHC01900s - HHC01999s</td>
<td>Diagnose Calls</td>
</tr>
<tr>
<td>HHC02000s - HHC02099s</td>
<td>Suspend / Resume Processing</td>
</tr>
<tr>
<td>HHC02100s - HHC02199s</td>
<td>System Logger</td>
</tr>
<tr>
<td>HHC02200s - HHC02299s</td>
<td>Command Processing</td>
</tr>
<tr>
<td>HHC02300s - HHC02399s</td>
<td>IEEE Component</td>
</tr>
</tbody>
</table>
### Message Range Component

- **HHC02400s - HHC02499s**: DASD Utilities
- **HHC02500s - HHC02599s**: DASD Utilities
- **HHC02600s - HHC02699s**: Various Utilities
- **HHC02700s - HHC02799s**: Tape Utilities
- **HHC04100s - HHC04199s**: Windows Specific Components
- **HHC17000s - HHC17099s**: Query Commands
- **HHC90000s - HHC90999s**: Debug Messages

**Table 4: Hercules Component List (V4.00)**

### 4.8 Message Severity

The following table shows the different message severities, issued by the Hercules Emulator.

<table>
<thead>
<tr>
<th>Code</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>Severe error message. This type of error causes immediate termination of Hercules.</td>
</tr>
<tr>
<td>E</td>
<td>Error message. The function being executed did not execute correctly but Hercules should continue running.</td>
</tr>
<tr>
<td>W</td>
<td>Warning message. Not necessarily an error but something to take note of and possibly correct.</td>
</tr>
<tr>
<td>I</td>
<td>Information message. General messages that do not require any further action.</td>
</tr>
<tr>
<td>A</td>
<td>Action message. Hercules needs input, you need to do something.</td>
</tr>
<tr>
<td>D</td>
<td>Debug message.</td>
</tr>
</tbody>
</table>

**Table 5: Message Severity**

### 4.9 Debug Option

If DEBUG is defined, either by a “#define debug” statement or by “configure –enable-debug” and OPTION_DEBUG_MESSAGES is enabled in “feitall.h” then all messages will be prefixed by “sourcefile.c:lineno” where sourcefile is the name of the C source file and lineno is the line number where the message has been issued.

Example:

```
hsccmd.c   2597 HHC02204I Value 'message level' set to 'debug'
```

Debug messages can also be switched on by issuing the panel command “MSGLEVEL DEBUG”.

4.10 Message Examples

The following figure shows some Hercules messages. Although these messages are from a real IPL, please note that they are not complete i.e some messages have been deleted. The messages are shown just as an example of how messages look, especially the variable parts of messages.

HHC01413I Hercules version 4.0.0
HHC01414I (c) Copyright 1999-2010 by Roger Bowler, Jan Jaeger, and others
HHC01415I Built on Feb 07 2011 at 05:30:15
HHC01416I Build information:
HHC01417I Windows (MSVC) build for AMD64
HHC01417I Modes: S/370 ESA/390 z/Arch
HHC01417I Max CPU Engines: 8
HHC01417I Using fthreads Threading Model
HHC01417I Using FishIO
HHC01417I Dynamic loading support
HHC01417I Using shared libraries
HHC01417I HTTP Server support
HHC01417I No SIGABEND handler
HHC01417I Regular Expressions support
HHC01417I Automatic Operator support
HHC01417I Machine dependent assists: cmpxchg1 cmpxchg4 cmpxchg8
HHC01417I Running on GOOFY Windows-6.1.7600. NT , Intel(R) x64 MP=8
HHC01508I HDL: loadable module directory is 'D:/Hercules/'
HHC00150I Crypto module loaded (c) Copyright 2003-2010 by Bernard van der Helm
HHC00151I Activated facility: 'Message Security Assist'
HHC00151I Activated facility: 'Message Security Assist Extension 1, 2, 3 and 4'
HHC00100I Thread id 00001204, prio 15, name 'Processor CP00' started
HHC00100I Thread id 000012B8, prio 0, name 'Timer' started
HHC00811I Processor CP00: architecture mode 'z/Arch'
HHC02203I auto_scsi_mount: NO
HHC01474I Using 'internal' codepage conversion table 'DEFAULT'
HHC00827I Processor CP00: engine 00 type 0 set: 'CP'
HHC00827I Processor CP01: engine 01 type 0 set: 'CP'
HHC00827I Processor CP02: engine 02 type 0 set: 'CP'
HHC00827I Processor CP03: engine 03 type 0 set: 'CP'
HHC01802I HTTP server using root directory D:/Hercules/html/
HHC01807I HTTP server signaled to start
HHC01435I Config file 'D:/MVS/CONF/MVS_V38J_V400.CONF': will ignore include errors
HHC00100I Thread id 00000116C, prio 0, name 'HTTP server' started
HHC01437I Config file[39] 'D:/MVS/CONF/MVS.CONF'
HHC01802I HTTP server using root directory D:/Hercules/html/
HHC01803I HTTP server waiting for requests on port 80
HHC02204I logopts set to TIMESTAMP
HHC00100I Thread id 00001230, prio 0, name 'Processor CP01' started
HHC00811I Processor CP01: architecture mode 'S/370'
HHC00100I Thread id 00001194, prio 0, name 'Processor CP02' started
HHC00811I Processor CP02: architecture mode 'S/370'
HHC00100I Thread id 000001180, prio 0, name 'Processor CP03' started
HHC00811I Processor CP03: architecture mode 'S/370'
HHC00100I Thread id 000001034, prio 0, name 'Shared device server 0.1' started
HHC00737I Shared: waiting for shared device requests on port 3990
HHC01042I 0:000E COMM: device bound to socket '192.168.0.101:14031'
HHC00100I Thread id 00000038C, prio 0, name 'Socket device listener' started
HHC01042I 0:000F COMM: device bound to socket '192.168.0.101:14032'
HHC00100I Thread id 000000D40, prio 0, name 'Console connection' started
HHC01024I Waiting for console connections on port 3270
HHC00013I Herc command: 'exit'
HHC01420I Begin Hercules shutdown
HHC01500I HDL: begin shutdown sequence
HHC01501I HDL: calling 'term_sockdev'
HHC00101I Thread id 0000038C, prio 0, name 'Socket device listener' ended
HHC01501I HDL: calling 'term_sockdev' complete
HHC01501I HDL: calling 'shared_device_manager_shutdown'
HHC00101I Thread id 000002A8, prio 0, name 'Hercules Automatic Operator' ended
HHC01502I HDL: calling 'shared_device_manager_shutdown' complete
HHC01501I HDL: calling 'http_shutdown'
HHC00101I Thread id 0000116C, prio 0, name 'HTTP server' ended
HHC01502I HDL: calling 'http_shutdown' complete
HHC01501I HDL: calling 'release_config'
HHC00101I Thread id 00001204, prio -15, name 'Processor CP00' ended
HHC00101I Thread id 00001230, prio 0, name 'Processor CP01' ended
HHC00101I Thread id 00001194, prio 0, name 'Processor CP02' ended
HHC00101I Thread id 00001180, prio 0, name 'Processor CP03' ended
HHC01465I 0:000C device detached
HHC00101I Thread id 00001288, prio -20, name 'Timer' ended
HHC01465I 0:000D device detached
HHC01465I 0:000E device detached
HHC01465I 0:000F device detached
HHC01465I 0:030E device detached
HHC01465I 0:0010 device detached
HHC01465I 0:0011 device detached
HHC01465I 0:00C0 device detached
HHC01465I 0:00C1 device detached
HHC01465I 0:00C2 device detached
HHC01465I 0:00C3 device detached
HHC01465I 0:00C4 device detached
HHC00101I Thread id 00000D40, prio 0, name 'Console connection' ended
HHC00101I Thread id 00000484, prio 0, name 'Read-ahead thread-1' ended
HHC00101I Thread id 00000B60, prio 0, name 'Read-ahead thread-2' ended
HHC00101I Thread id 000008A8, prio 0, name 'Garbage collector' ended
HHC00101I Thread id 00001118, prio 0, name 'Writer thread-2' ended
HHC00101I Thread id 00000C10, prio 0, name 'Writer thread-1' ended
HHC01465I 0:034B device detached
HHC01465I 0:0480 device detached
HHC01465I 0:0481 device detached
HHC01465I 0:0E20 device detached
HHC01427I Main storage released
HHC01427I Expanded storage released
HHC01422I Configuration released
HHC01502I HDL: calling 'release_config' complete
HHC01501I HDL: calling 'hdl_term'
HHC01512I HDL: begin termination sequence
HHC01513I HDL: calling module cleanup routine 'dyngui'
HHC01514I HDL: module cleanup routine 'dyngui' complete
HHC01513I HDL: calling module cleanup routine '*Hercules'
HHC01514I HDL: module cleanup routine '*Hercules' complete
HHC01515I HDL: termination sequence complete
HHC01502I HDL: calling 'hdl_term' complete
HHC01501I HDL: calling 'logger_term'

Figure 1: Sample Messages
Part I: New Messages
5. Messages HHC00001s – HHC00069s  
(General Messages)

**HHC00001I**

HHC00001I is not yet documented

Explanation
...

Severity
...

Action
...

**HHC00002E**

HHC00002E is not yet documented

Explanation
...

Severity
...

Action
...

**HHC00003E**

HHC00003E is not yet documented

Explanation
...

Severity
...

Action
...
**HHC00004I**

HHC00004I is not yet documented

Explanation
...

Severity
...

Action
...

**HHC00005W**

HHC00005W is not yet documented

Explanation
...

Severity
...

Action
...

**HHC00006I**

HHC00006I is not yet documented

Explanation
...

Severity
...

Action
...
HHC00007I
HHC00007I is not yet documented
Explanation
...
Severity
...
Action
...

HHC00008I
HHC00008I is not yet documented
Explanation
...
Severity
...
Action
...

HHC00009I
HHC00009I is not yet documented
Explanation
...
Severity
...
Action
...

HHC00010A
HHC00010A is not yet documented
HHC00011E

HHC00011E is not yet documented

Explanation

... ...

Severity

... ...

Action

... ...

HHC00012W

HHC00012W is not yet documented

Explanation

... ...

Severity

... ...

Action

... ...

HHC00013I

HHC00013I Herc command: 'cmd'

Explanation

Console command 'cmd' has been issued at the Hercules console. See also message HHC01603I.
Severity
Information.

Action
None. This is an informational message.

HHC00014E
HHC00014E is not yet documented

Explanation
...

Severity
...

Action
...

HHC00015E
HHC00015E is not yet documented

Explanation
...

Severity
...

Action
...

HHC00016E
HHC00016E is not yet documented

Explanation
...

Severity
...

Action
HHC00017I
HHC00017I is not yet documented

Explanation
...

Severity
...

Action
...

HHC00018I
HHC00018I Hercules is running in elevated mode

Explanation
Hercules is running in elevated mode on a Windows system (with administrative rights).

Severity
Information.

Action
None. This is an informational message.

HHC00018W
HHC00018W Hercules is not running in elevated mode

Explanation
Hercules is not running in elevated mode on a Windows system (without administrative rights).

Severity
Warning.

Action
If you need administrative rights for Hercules (e.g. for CTCI-WIN) then restart Hercules from a command prompt started as administrator. If no administrative rights are necessary then you can safely ignore this message.
HHC00069I

HHC00069I is not yet documented

Explanation
...

Severity
...

Action
...
6. Messages HHC00070s – HHC00099s
(Hercules Automatic Operator)

HHC00070E

HHC00070E Unknown hao command, valid commands are:
  
  hao tgt <tgt> : define target rule (pattern) to react on
  hao cmd <cmd> : define command for previously defined rule
  hao list <n>  : list all rules/commands or only at index <n>
  hao del <n>  : delete the rule at index <n>
  hao clear    : delete all rules (stops automatic operator)

Explanation
The entered HAO command is unknown to the Hercules Automatic Operator.

Severity
Error.

Action
Enter a valid HAO command from the list of message HHC00070E.

HHC00071E

HHC00071E The 'command' was not added because table is full; table size is $nn$

Explanation
The rule (target and command) could not be added to the HAO table because the table is already full.
The value $nn$ displays the current table size.

Severity
Error.

Action
To add another rule either delete an existing rule to free a table entry or rebuild Hercules with an increased table size ("#define HAO_MAXRULE $nn" in file hao.c).

HHC00072E

HHC00072E The command 'cmd' given, but the command 'tgt' was expected
HHC00072E The command 'tgt' given, but the command 'cmd' was expected

Explanation
HAO entries must be defined in the correct order. To define a rule, first a “HAO TGT target” command must be given, followed immediately by a “HAO CMD command”. These error messages will appear in case of an incorrect order of the HAO commands or in case of two subsequent “HAO TGT” or two subsequent “HAO CMD” commands:

- In case of the first error message a “HAO CMD command” has been entered but a “HAO TGT target” command has been expected. This can be the case if two “HAO CMD” commands have been entered immediately one after the other or an initial HAO TGT target was missing.

- In case of the second error message the command “HAO TGT target” has been entered, but a “HAO CMD command” has been expected. This can be the case if two “HAO TGT target” commands have been entered immediately one after the other.

Severity
Error.

Action
Reenter the correct HAO command which is a “HAO TGT target” in case of the first error message and a “HAO CMD command” in case of the second error message.

HHC00073E

HHC00073E Empty 'target' specified
HHC00073E Empty 'command' specified

Explanation
There was either an empty “HAO TGT” or an empty “HAO CMD” command specified. The first case (HAO TGT) indicates a missing target rule (pattern) to react on, the second case indicates a missing command for a previously defined rule.

Severity
Error.

Action
Reenter the given HAO command with a valid target rule (“HAO TGT target”) or a valid command (“HAO CMD command”).

HHC00074E

HHC00074E The target was not added because a duplicate was found in the table at nn

Explanation
A “HAO TGT target” command has been entered but there is already a rule in the table at index nn that has the same target rule defined. The target rule could not be added to the table.

Severity
Error.

Action
Use the “HAO LIST” command (without the index argument) to get a list of all defined HAO rules and find the rule with the target from the previous “HAO TGT target” command.

If the command assigned to that target rule is already what is supposed to have then no more actions are necessary at this point.

If the command assigned to that target rule is not what is supposed to have then first delete the corresponding rule with a “HAO DEL nn” command. After deleting the rule redefine it with a new pair of “HAO TGT” and “HAO CMD” commands.

---

**HHC00075E**

**HHC00075E is not yet documented**

**Explanation**
...  

**Severity**
...  

**Action**
...

---

**HHC00076E**

**HHC00076E The 'command' was not added because it causes a loop with the 'target' at index nn**

**HHC00076E The 'target' was not added because it causes a loop with the 'command' at index nn**

**Explanation**
A HAO rule could not been defined because it causes a loop with another already defined rule at table index nn.

**Severity**
Error.

**Action**
Check the rule you just wanted to define against the rule at table index nn for any inconsistencies. Then try to redefine the rule. Use the “HAO LIST nn” command to display the rule that is mentioned in the error message.

---

**HHC00077I**

**HHC00077I The 'func' was placed at index nn**

**Explanation**
A new defined target rule (func = ‘target’) or a new defined command (func = ‘command’) was placed at table index number nn.
Severity
Information.

Action
None. This is an informational message.

---

**HHC00078E**

**HHC00078E The command was not added because it may cause dead locks**

Explanation
A “HAO CMD cmd” command has been entered but command cmd could not be added to the table because it may cause deadlocks within the HAO processing.

Severity
Error.

Action
Reenter the “HAO CMD” command with a valid command for the target rule.

---

**HHC00079E**

**HHC00079E No rule defined at index nn**

Explanation
A “HAO LIST nn” command has been entered but there is no target rule defined at this index. The entry at index nn is empty.

Severity
Error.

Action
Use the “HAO LIST” command (without the index argument) to get a list of all defined HAO rules.

---

**HHC00080I**

**HHC00080I All HAO rules are cleared**

Explanation
All defined rules for the Hercules Automatic Operator have been cleared and HAO is stopped. This is the response to a “HAO CLEAR” command. The message is followed by one or more HHC00088I messages and a HHC00082I message.

Severity
Information.
Action
None. This is an informational message.

HHC00081I

HHC00081I Match at index nn, executing command 'cmd'

Explanation
A HAO rule has fired. There was a match at index number nn in the table of defined HAO rules and the command cmd has been executed.

Severity
Information.

Action
None. This is an informational message.

HHC00082I

HHC00082I nn rule(s) displayed:

Explanation
This message displays the number of rules (nn) that have been displayed in response to a “HAO LIST” command. The messages is preceded by message HHC00087I and one or more (nn) messages HHC00088I.

Severity
Information.

Action
None. This is an informational message.

HHC00083E

HHC00083E The command 'del' was given without a valid index

Explanation
A "HAO DEL" command has been entered without a valid index number. The entry could not be deleted.

Severity
Error.

Action
Reenter the delete command with an index in the valid range between 0 and nn ("HAO DEL nn"). Enter a "HAO LIST" command first, if necessary, to get the list of used entries.
HHC00084E

HHC00084E Invalid index; index must be between 0 and nn

Explanation
A HAO command has been entered with an index that is outside the valid range. The index must be in the valid range between 0 and nn.

Severity
Error.

Action
Reenter the previous command with an index in the valid range between 0 and nn. Enter a “HAO LIST” command first, if necessary, to get the list of used entries.

HHC00085E

HHC00085E Rule at index nn not deleted, already empty

Explanation
The rule (target and command) an index nn has not been deleted. The table entry is already empty.

Severity
Error.

Action
Use the “HAO LIST” command to get a list of all defined HAO rules. Check all listed entries to find the one you want to delete and retry the “HAO DEL” command with the correct index.

HHC00086I

HHC00086I Rule at index nn successfully deleted

Explanation
The rule (target and command) at table index number nn has been deleted.

Severity
Information.

Action
None. This is an informational message.

HHC00087I

HHC00087I The defined Hercules Automatic Operator rule(s) are:
Explanation
This message shows all defined rules for the Hercules Automatic Operator. It is following a “HAO LIST” command.

Severity
Information.

Action
None. This is an informational message.

HHC00088I

HHC00088I Index \textit{nn} \textbf{target} ‘target’ \textbf{-> command} ‘cmd’

Explanation
This message displays the target rule ‘target’ and its corresponding command ‘cmd’ that are defined at index \textit{nn} of the table.

Severity
Information.

Action
None. This is an informational message.

HHC00089E

HHC00089E There are no HAO rules defined

Explanation
A “HAO LIST” command has been entered but there are no rules defined. The table is empty.

Severity
Error.

Action
Define a HAO rule before using the “HAO LIST” command.
7. Messages HHC00100s – HHC00199s (General Messages)

**HHC00100I**

**HHC00100I Thread id nnnnnnnn, prio nn, name 'threadname' started**

**Explanation**
The thread with the name 'threadname' has been started under the id nnnnnnnn with priority nn.

**Severity**
Information.

**Action**
None. This is an informational message.

**HHC00101I**

**HHC00101I Thread id nnnnnnnn, prio nn, name 'threadname' ended**

**Explanation**
The thread with the name 'threadname' running under the id nnnnnnnn with priority nn has been ended.

**Severity**
Information.

**Action**
None. This is an informational message.

**HHC00102E**

**HHC00102E Error in function create_thread(): threadname**

**Explanation**
The thread with the name 'threadname' could not be created.

**Severity**
Error.

**Action**
See any additional messages for further details of the failure.
HHC00103I
HHC00103I is not yet documented
Explanation
...
Severity
...
Action
...

HHC00105E
HHC00105E is not yet documented
Explanation
...
Severity
...
Action
...

HHC00130W
HHC00130W is not yet documented
Explanation
...
Severity
...
Action
...

HHC00131A
HHC00131A is not yet documented
<table>
<thead>
<tr>
<th>Code</th>
<th>Message Description</th>
<th>Explanation</th>
<th>Severity</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>HHC00135E</td>
<td>not yet documented</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HHC00136E</td>
<td>not yet documented</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HHC00137E</td>
<td>not yet documented</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
HHC00138E

HHC00138E is not yet documented

Explanation

Severity

Action

HHC00139E

HHC00139E is not yet documented

Explanation

Severity

Action

HHC00140E

HHC00140E is not yet documented

Explanation

Severity

Action
HHC00141E

HHC00141E is not yet documented

Explanation
...

Severity
...

Action
...

HHC00142E

HHC00142E is not yet documented

Explanation
...

Severity
...

Action
...

HHC00143E

HHC00143E is not yet documented

Explanation
...

Severity
...

Action
...
HHC00144E

HHC00144E is not yet documented

Explanation
...

Severity
...

Action
...

HHC00145E

HHC00145E is not yet documented

Explanation
...

Severity
...

Action
...

HHC00146I

HHC00146I is not yet documented

Explanation
...

Severity
...

Action
...

HHC00147I

HHC00147I is not yet documented
HHC00148I

HHC00148I is not yet documented

Explanation

...  

Severity

...  

Action

...  

HHC00149I

HHC00149I is not yet documented

Explanation

...  

Severity

...  

Action

...  

HHC00150I

HHC00150I modname module loaded [info]

Explanation

Hercules has loaded the module modname. This message can provide additional information about the loaded module in the optional info field.
Severity
Information.

Action
None. This is an informational message.

HHC00151I

HHC00151I is not yet documented

Explanation
...

Severity
...

Action
...

HHC00152E

HHC00152E is not yet documented

Explanation
...

Severity
...

Action
...

HHC00153E

HHC00153E is not yet documented

Explanation
...

Severity
...

Action
HHC00154E

HHC00154E is not yet documented

Explanation
...

Severity
...

Action
...

HHC00160I

HHC00160I is not yet documented

Explanation
...

Severity
...

Action
...

HHC00161E

HHC00161E is not yet documented

Explanation
...

Severity
...

Action
...
8. Messages HHC00200s – HHC00299s (Tape Device Emulation)

HHC00201I

HHC00201I is not yet documented

Explanation
...

Severity
...

Action
...

HHC00202E

HHC00202E is not yet documented

Explanation
...

Severity
...

Action
...

HHC00203E

HHC00203E is not yet documented

Explanation
...

Severity
...

Action
...
HHC00204E

HHC00204E is not yet documented

Explanation ...

Severity ...

Action ...

HHC00205E

HHC00205E is not yet documented

Explanation ...

Severity ...

Action ...

HHC00206E

HHC00206E is not yet documented

Explanation ...

Severity ...

Action ...

HHC00207E

HHC00207E is not yet documented
HHC00208I

HHC00208I is not yet documented

Explanation
...

Severity
...

Action
...

HHC00209I

HHC00209I is not yet documented

Explanation
...

Severity
...

Action
...

HHC00210I

HHC00210I is not yet documented

Explanation
...
HHC00211I

HHC00211I is not yet documented

Explanation
...

Severity
...

Action
...

HHC00212E

HHC00212E is not yet documented

Explanation
...

Severity
...

Action
...

HHC00213E

HHC00213E is not yet documented

Explanation
...

Severity
...

Action
HHC00214E

HHC00214E is not yet documented

Explanation
...

Severity
...

Action
...

HHC00215I

HHC00215I is not yet documented

Explanation
...

Severity
...

Action
...

HHC00216I

HHC00216I is not yet documented

Explanation
...

Severity
...

Action
...
HHC00217I

HHC00217I is not yet documented

Explanation
...

Severity
...

Action
...

HHC00218I

HHC00218I is not yet documented

Explanation
...

Severity
...

Action
...

HHC00219I

HHC00219I is not yet documented

Explanation
...

Severity
...

Action
...

HHC00220W

HHC00220W is not yet documented
HHC00221I

HHC00221I is not yet documented

Explanation

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Severity

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Action

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HHC00222I

HHC00222I is not yet documented

Explanation

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Severity

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Action

...

HHC00223E

HHC00223E is not yet documented

Explanation

...
HHC00224I

HHC00224I is not yet documented

Explanation

Severity

Action

HHC00225E

HHC00225E is not yet documented

Explanation

Severity

Action

HHC00226I

HHC00226I is not yet documented

Explanation

Severity

Action
HHC00227I

HHC00227I is not yet documented

Explanation

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Severity

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Action

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HHC00228I

HHC00228I is not yet documented

Explanation

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Severity

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Action

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HHC00229I

HHC00229I is not yet documented

Explanation

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Severity

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Action

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HHC00235I

HHC00235I is not yet documented

Explanation
...

Severity
...

Action
...

HHC00243W

HHC00243W is not yet documented

Explanation
...

Severity
...

Action
...
9. Messages HHC00300s – HHC00399s
(DASD Device Emulation (CCKD))

<table>
<thead>
<tr>
<th>Code</th>
<th>Message Description</th>
<th>Explanation</th>
<th>Severity</th>
<th>Action</th>
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HHC00303E

HHC00303E is not yet documented

Explanation
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Severity
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Action
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HHC00304E

HHC00304E is not yet documented

Explanation
...

Severity
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Action
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HHC00305E

HHC00305E is not yet documented

Explanation
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Severity
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Action
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HHC00306E

HHC00306E is not yet documented
**Explanation**
...

**Severity**
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**Action**
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**HHC00307E**

HHC00307E is not yet documented

**Explanation**
...

**Severity**
...

**Action**
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**HHC00308E**

HHC00308E is not yet documented

**Explanation**
...

**Severity**
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**Action**
...

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**HHC00309E**

HHC00309E is not yet documented

**Explanation**
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HHC00310E

HHC00310E is not yet documented

Explanation

Severity

Action

HHC00311E

HHC00311E is not yet documented

Explanation

Severity

Action

HHC00312E

HHC00312E is not yet documented

Explanation

Severity

Action
HHC00313E

HHC0033E1 is not yet documented

Explanation
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Severity
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Action
...

HHC00314E

HHC00314E is not yet documented

Explanation
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Severity
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Action
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HHC00315I

HHC00315I is not yet documented

Explanation
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Severity
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Action
...
HHC00316I

HHC00316I is not yet documented

Explanation
...

Severity
...

Action
...

HHC00317E

HHC00317E is not yet documented

Explanation
...

Severity
...

Action
...

HHC00318W

HHC00318W is not yet documented

Explanation
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Severity
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Action
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HHC00319E

HHC00319E is not yet documented
HHC00320I

HHC00320I is not yet documented

Explanation
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Severity
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Action
...

HHC00321I

HHC00321I is not yet documented

Explanation
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Severity
...

Action
...

HHC00322W

HHC00322W is not yet documented

Explanation
...
HHC00323E

HHC00323E is not yet documented

Explanation

Severity

Action

HHC00324E

HHC00324E is not yet documented

Explanation

Severity

Action

HHC00325I

HHC00325I is not yet documented

Explanation

Severity

Action
HHC00326E
HHC00326E is not yet documented
Explanation
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Severity
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Action
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HHC00327E
HHC00327E is not yet documented
Explanation
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Severity
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Action
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HHC00328I
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Explanation
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Severity
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Action
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HHC00329W

HHC00329W is not yet documented

Explanation
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Severity
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Action
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HHC00330I

HHC00330I is not yet documented

Explanation
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Severity
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Action
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HHC00331W

HHC00331W is not yet documented

Explanation
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Severity
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Action
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HHC00332I

HHC00332I is not yet documented
HHC00333I

HHC00333I is not yet documented

Explanation
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Severity
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Action
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HHC00334I

HHC00334I is not yet documented

Explanation
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Severity
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Action
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HHC00335I

HHC00335I is not yet documented

Explanation
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HHC00336I

HHC00336I is not yet documented

Explanation
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Severity
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Action
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HHC00337I

HHC00337I is not yet documented

Explanation
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Severity
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Action
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HHC00338I

HHC00338I is not yet documented

Explanation
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Severity
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Action
HHC00339I

HHC00339I is not yet documented

Explanation
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Severity
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Action
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HHC00340I

HHC00340I is not yet documented

Explanation
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Severity
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Action
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HHC00341I

HHC00341I is not yet documented

Explanation
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Severity
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Action
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HHC00342E

HHC00342E is not yet documented

Explanation
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Severity
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Action
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HHC00343E

HHC00343E is not yet documented

Explanation
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Severity
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Action
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HHC00344E

HHC00344E is not yet documented

Explanation
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Severity
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Action
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HHC00345I

HHC00345I is not yet documented
HHC00346I

HHC00346I is not yet documented

Explanation
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Severity
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Action
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HHC00347I

HHC00347I is not yet documented

Explanation
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Severity
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Action
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HHC00348E

HHC00348E is not yet documented

Explanation
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HHC00349E

HHC00349E is not yet documented

Explanation

Severity

Action

HHC00352E

HHC00352E is not yet documented

Explanation

Severity

Action

HHC00353E

HHC00353E is not yet documented

Explanation

Severity

Action
HHC00354E

HHC00354E is not yet documented

Explanation
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Severity
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Action
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HHC00355E

HHC00355E is not yet documented

Explanation
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Severity
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Action
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HHC00356E

HHC00356E is not yet documented

Explanation
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Severity
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Action
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HHC00357I

HHC00357I is not yet documented

Explanation
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Severity
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Action
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HHC00358I

HHC00358I is not yet documented

Explanation
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Severity
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Action
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HHC00359I

HHC00359I is not yet documented

Explanation
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Severity
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Action
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HHC00360I

HHC00360I is not yet documented
HHC00361E

HHC00361E is not yet documented

Explanation
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Severity
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Action
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HHC00362E

HHC00362E is not yet documented

Explanation
...

Severity
...

Action
...

HHC00363W

HHC00363W is not yet documented

Explanation
...
HHC00364W
HHC00364W is not yet documented
Explanation
...
Severity
...
Action
...

HHC00365W
HHC00365W is not yet documented
Explanation
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Severity
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Action
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HHC00366W
HHC00366W is not yet documented
Explanation
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Severity
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Action
HHC00367W

HHC00367W is not yet documented

Explanation

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Severity

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Action

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HHC00368W

HHC00368W is not yet documented

Explanation

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Severity

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Action

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HHC00369W

HHC00369W is not yet documented

Explanation

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Severity

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Action

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HHC00370W

HHC00370W is not yet documented

Explanation
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Severity
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Action
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HHC00371W

HHC00371W is not yet documented

Explanation
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Severity
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Action
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HHC00372I

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Explanation
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Severity
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Action
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HHC00373I

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HHC00374E
HHC00374E is not yet documented
Explanation
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Severity
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Action
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HHC00375W is not yet documented
Explanation
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Severity
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Action
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HHC00376W
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Explanation
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Explanation
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Severity
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Action
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HHC00378E

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Explanation
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Severity
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Explanation
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Explanation
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Severity
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Action
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HHC00398I

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Explanation
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Severity
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Action
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HHC00399I

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Explanation
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Severity
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Action
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10. Messages HHC00400s – HHC00499s (DASD Device Emulation (CKD))

**HHC00400E**

HHC00400E is not yet documented

Explanation

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Severity

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Action

... 

**HHC00401E**

HHC00401E is not yet documented

Explanation

... 

Severity

... 

Action

... 

**HHC00402E**

HHC00402E is not yet documented

Explanation

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Severity

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Action

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HHC00403I

HHC00403I is not yet documented

Explanation
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Severity
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Action
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HHC00404E

HHC00404E is not yet documented

Explanation
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Severity
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Action
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HHC00405E

HHC00405E is not yet documented

Explanation
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Severity
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Action
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HHC00406E

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HHC00407E

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Explanation
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Severity
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Action
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HHC00408E

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Explanation
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Severity
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Action
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HHC00409I

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Explanation
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HHC00410E

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Explanation

Severity

Action

HHC00411E

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Explanation

Severity

Action

HHC00412E

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Explanation

Severity

Action
HHC00413E

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Explanation
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Severity
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Action
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HHC00414I

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Explanation
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Severity
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Action
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HHC00415E

HHC00415E is not yet documented

Explanation
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Severity
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Action
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HHC00416E
HHC00416E is not yet documented
Explanation ...
Severity ...
Action ...

HHC00417I
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Explanation ...
Severity ...
Action ...

HHC00418E
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Explanation ...
Severity ...
Action ...

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HHC00420E
HHC00420E is not yet documented

Explanation
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Severity
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Action
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Explanation
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Severity
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Action
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HHC00422E
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Explanation
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HHC00423I is not yet documented

Explanation
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Severity
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Action
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HHC00424I

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Explanation
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Severity
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Action
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HHC00425I

HHC00425I is not yet documented

Explanation
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Severity
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Action
HHC00426I

HHC00426I is not yet documented

Explanation
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Severity
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Action
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HHC00427I

HHC00427I is not yet documented

Explanation
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Severity
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Action
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HHC00428I

HHC00428I is not yet documented

Explanation
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Severity
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Action
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HHC00429I

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Explanation
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Severity
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Action
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HHC00430I

HHC00430I is not yet documented

Explanation
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Severity
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Action
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HHC00431I

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Explanation
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Severity
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Action
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HHC00432E

HHC00432E is not yet documented
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Explanation
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Severity
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Action
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HHC00434I
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Explanation
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Severity
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Action
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Explanation
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Severity
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Action
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Explanation
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Severity
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Action
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HHC00437I

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Explanation
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Severity
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Action
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HHC00438I

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Explanation
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Severity
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Action
HHC00439I

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Explanation
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Severity
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Action
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HHC00440I

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Explanation
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Severity
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Action
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Explanation
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Severity
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Action
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Explanation
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Severity
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HHC00443E

HHC00443E is not yet documented

Explanation
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Severity
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Action
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HHC00445I

HHC00445I is not yet documented

Explanation
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Severity
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Action
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HHC00446E

HHC00446E is not yet documented
HHC00447I

HHC00447I is not yet documented

Explanation
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Severity
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Action
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HHC00448E

HHC00448E is not yet documented

Explanation
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Severity
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Action
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HHC00449I

HHC00449I is not yet documented

Explanation
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HHC00450E

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Explanation
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Severity
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HHC00451E

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Explanation
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Severity
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HHC00452E

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Explanation
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Severity
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HHC00453I

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Explanation
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Severity
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Action
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HHC00454I

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Explanation
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Severity
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Action
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HHC00455E

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Explanation
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Severity
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HHC00457I

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Severity
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HHC00459I

HHC00459I is not yet documented
HHC00460I

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Explanation
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Severity
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Action
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HHC00461E

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Explanation
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Severity
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Action
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HHC00462I

HHC00462I is not yet documented

Explanation
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HHC00463I

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Explanation
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Severity
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HHC00464E

HHC00464E is not yet documented

Explanation
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Severity
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Action
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HHC00465I

HHC00465I is not yet documented

Explanation
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Severity
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Action
HHC00466I

HHC00466I is not yet documented

Explanation
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Severity
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Action
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HHC00467I

HHC00467I is not yet documented

Explanation
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Severity
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Action
...

HHC00468I

HHC00468I is not yet documented

Explanation
...

Severity
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Action
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### 11. Messages HHC00500s – HHC00599s
(DASD Device Emulation (FBA))

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<th>Description</th>
<th>Explanation</th>
<th>Severity</th>
<th>Action</th>
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HHC00503E is not yet documented

Explanation
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Severity
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Action
...

HHC00504I

HHC00504I is not yet documented

Explanation
...

Severity
...

Action
...

HHC00505E

HHC00505E is not yet documented

Explanation
...

Severity
...

Action
...

HHC00506E

HHC00506E is not yet documented
HHC00507I

HHC00507I is not yet documented

Explanation
...

Severity
...

Action
...

HHC00508E

HHC00508E is not yet documented

Explanation
...

Severity
...

Action
...

HHC00509E

HHC00509E is not yet documented

Explanation
...
HHC00510E
HHC00510E is not yet documented
Explanation

HHC00511E
HHC00511E is not yet documented
Explanation

HHC00512E
HHC00512E is not yet documented
Explanation
HHC00513E
HHC00513E is not yet documented
Explanation
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Severity
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Action
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HHC00514E
HHC00514E is not yet documented
Explanation
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Severity
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Action
...

HHC00515E
HHC00515E is not yet documented
Explanation
...
Severity
...
Action
...
HHC00516I

HHC00516I is not yet documented

Explanation
...

Severity
...

Action
...

HHC00517I

HHC00517I is not yet documented

Explanation
...

Severity
...

Action
...

HHC00518I

HHC00518I is not yet documented

Explanation
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Severity
...

Action
...

HHC00519I

HHC00519I is not yet documented
HHC00520I

HHC00520I is not yet documented

Explanation
...

Severity
...

Action
...

HHC00521I

HHC00521I is not yet documented

Explanation
...

Severity
...

Action
...
12. Messages HHC00600s – HHC00699s (DASD Device Emulation (SCE))

**HHC00600E**

HHC00600E is not yet documented

Explanation
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Severity
...

Action
...

**HHC00601E**

HHC00601E is not yet documented

Explanation
...

Severity
...

Action
...

**HHC00602E**

HHC00602E is not yet documented

Explanation
...

Severity
...

Action
...
HHC00603W
HHC00603W is not yet documented

Explanation
...

Severity
...

Action
...

HHC00604E
HHC00604E is not yet documented

Explanation
...

Severity
...

Action
...

HHC00605E
HHC00605E is not yet documented

Explanation
...

Severity
...

Action
...
13. Messages HHC00700s – HHC00799s
(Shared Device Server)

**HHC00700S**

HHC00700S is not yet documented

Explanation
...

Severity
...

Action
...

**HHC00701W**

HHC00701W is not yet documented

Explanation
...

Severity
...

Action
...

**HHC00702S**

HHC00702S is not yet documented

Explanation
...

Severity
...

Action
...
HHC00703S

HHC00703S is not yet documented

Explanation
...

Severity
...

Action
...

HHC00704S

HHC00704S is not yet documented

Explanation
...

Severity
...

Action
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HHC00705S

HHC00705S is not yet documented

Explanation
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Severity
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Action
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HHC00706S

HHC00706S is not yet documented
HHC00707S

HHC00707S is not yet documented

Explanation
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Severity
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Action
...

HHC00708I

HHC00708I is not yet documented

Explanation
...

Severity
...

Action
...

HHC00709S

HHC00709S is not yet documented

Explanation
...
HHC00710S
HHC00710S is not yet documented

HHC00711S
HHC00711S is not yet documented

HHC00712I
HHC00712I is not yet documented
HHC00713E

HHC00713E is not yet documented

Explanation
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Severity
...

Action
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HHC00714E

HHC00714E is not yet documented

Explanation
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Severity
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Action
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HHC00715E

HHC00715E is not yet documented

Explanation
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Severity
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Action
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HHC00716E

HHC00716E is not yet documented

Explanation
...

Severity
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Action
...

HHC00717E

HHC00717E is not yet documented

Explanation
...

Severity
...

Action
...

HHC00718E

HHC00718E is not yet documented

Explanation
...

Severity
...

Action
...

HHC00719E

HHC00719E is not yet documented
HHC00720E

HHC00720E is not yet documented

Explanation
...

Severity
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Action
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HHC00721I

HHC00721I is not yet documented

Explanation
...

Severity
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Action
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HHC00722E

HHC00722E is not yet documented

Explanation
...
HHC00723E

HHC00723E is not yet documented

Explanation

Severity

Action

HHC00724E

HHC00724E is not yet documented

Explanation

Severity

Action

HHC00725E

HHC00725E is not yet documented

Explanation

Severity

Action
HHC00726E

HHC00726E is not yet documented

Explanation
...

Severity
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Action
...

HHC00727E

HHC00727E is not yet documented

Explanation
...

Severity
...

Action
...

HHC00728E

HHC00728E is not yet documented

Explanation
...

Severity
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HHC00729E

HHC00729E is not yet documented

Explanation
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Severity
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Action
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HHC00730W

HHC00730W is not yet documented

Explanation
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Severity
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Action
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HHC00731I

HHC00731I is not yet documented

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Severity
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Action
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HHC00732E

HHC00732E is not yet documented
HHC00733I

HHC00733I is not yet documented

Explanation
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Severity
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HHC00734E

HHC00734E is not yet documented

Explanation
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Severity
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HHC00735E

HHC00735E is not yet documented

Explanation
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Explanation

Severity

Action

HHC00737I
HHC00737I is not yet documented

Explanation

Severity

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HHC00738E
HHC00738E is not yet documented

Explanation

Severity

Action
HHC00739E

HHC00739E is not yet documented

Explanation
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Severity
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Action
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HHC00740E

HHC00740E is not yet documented

Explanation
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Severity
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Action
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HHC00741E

HHC00741E is not yet documented

Explanation
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Severity
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Action
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HHC00742E

HHC00742E is not yet documented

Explanation
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Severity
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Action
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HHC00743I

HHC00743I is not yet documented

Explanation
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Severity
...

Action
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## 14. Messages HHC00800s – HHC00899s

### (CPU Emulation)

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HHC00808I
HHC00808I is not yet documented
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Severity
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Action
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HHC00809I
HHC00809I is not yet documented
Explanation
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Severity
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Action
...

---

**HHC00810E**

HHC00810E Processor *nn*: ipl failed: device *dev* not found

Explanation
An attempt has been made to IPL CPU number *nn* from device *dev*, but the IPL failed because there is no device *dev* attached to the system. IPL processing is terminated. The target processor remains in the manual state.

Severity
Error.

Action
Reissue the IPL command specifying a device that is attached to the system.

---

**HHC00811I**

HHC00811I is not yet documented

Explanation
...

Severity
...

Action
...

---

**HHC00812I**

HHC00812I is not yet documented

Explanation
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Severity
...

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HHC00813E
HHC00813E is not yet documented

Explanation
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Severity
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Action
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HHC00814I
HHC00814I is not yet documented

Explanation
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Severity
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HHC00815I
HHC00815I is not yet documented

Explanation
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Severity
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Action
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HHC00816W

HHC00816W is not yet documented

Explanation
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Severity
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Action
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HHC00817I

HHC00817I is not yet documented

Explanation
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Severity
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Action
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HHC00818E

HHC00818E is not yet documented

Explanation
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Severity
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Action
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HHC00819I

HHC00819I is not yet documented
**Explanation**

... 

**Severity**

... 

**Action**

...

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**HHC00820I**

HHC00820I is not yet documented

**Explanation**

...

**Severity**

...

**Action**

...

---

**HHC00821I**

HHC00821I is not yet documented

**Explanation**

...

**Severity**

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**Action**

...

---

**HHC00822I**

HHC00822I is not yet documented

**Explanation**

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HHC00823I

HHC00823I is not yet documented

Explanation

Severity

Action

HHC00824I

HHC00824I is not yet documented

Explanation

Severity

Action

HHC00825E

HHC00825E is not yet documented

Explanation

Severity

Action
HHC00826E

HHC00826E is not yet documented

Explanation
...

Severity
...

Action
...

HHC00827I

HHC00827I is not yet documented

Explanation
...

Severity
...

Action
...

HHC00828E

HHC00828E Processor nn: ipl failed: architecture mode mode, csw status cswhstat, sense sense

Explanation
An attempt has been made to ipl CPU number nn, but the IPL failed because of an I/O error on the IPL device. In the message text, mode is the system architecture mode, cswhstat is the CSW status returned from the IPL I/O operation, and sense is the sense information returned by the IPL device. Note that an attempt to IPL while the system is set to z/Architecture mode will cause the architecture mode to be reset to ESA/390 at the start of IPL processing, and message HHC00828E will reflect that change.

Severity
Error.

Action
Correct the cause of the IPL device I/O problem and reissue the IPL command.
HHC00832I

HHC00832I is not yet documented

Explanation
...

Severity
...

Action
...

HHC00834I

HHC00834I is not yet documented

Explanation
...

Severity
...

Action
...

HHC00838I

HHC00838I is not yet documented

Explanation
...

Severity
...

Action
...

HHC00839E

HHC00839E Processor nn: ipl failed: architecture mode mode, invalid ipl psw psw
**Explanation**
An attempt has been made to IPL CPU number nn, but the IPL failed because of an error loading the initial PSW from the IPL device. A common cause of IPL PSW errors is bits within the PSW set inconsistently, or a mismatch between the PSW bit settings and the system architecture mode.

In particular, this message will be produced if an attempt is made to IPL with the architecture mode set to z/Architecture or ESA/390 and the IPL PSW loaded from the target device is a BC-mode PSW. Note that an attempt to IPL while the system is set to z/Architecture mode will cause the architecture mode to be reset to ESA/390 at the start of the IPL processing, and message HHC0839E will reflect that change.

IPL processing is terminated. The target processor remains in the manual state and the load indicator remains on.

**Severity**
Error.

**Action**
Correct the IPL device initial PSW to set PSW bit values consistently, or change the system architecture mode to one that allows the IPL device initial PSW to be used, or IPL from a different device.

---

**HHC00840I**

**HHC00840I is not yet documented**

**Explanation**
...

**Severity**
...

**Action**
...

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**HHC00841I**

**HHC00841I is not yet documented**

**Explanation**
...

**Severity**
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**Action**
...
HHC00842I

HHC00842I is not yet documented

Explanation
...

Severity
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Action
...

HHC00843I

HHC00843I is not yet documented

Explanation
...

Severity
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Action
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HHC00844I

HHC00844I is not yet documented

Explanation
...

Severity
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Action
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HHC00845I

HHC00845I is not yet documented
HHC00846I

HHC00846I is not yet documented

Explanation
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Severity
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Action
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HHC00850I

HHC00850I is not yet documented

Explanation
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Severity
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Action
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HHC00851I

HHC00851I is not yet documented

Explanation
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HHC00852I
HHC00852I is not yet documented

Explanation
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Severity
...

Action
...

HHC00853I
HHC00853I is not yet documented

Explanation
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Severity
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Action
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HHC00854I
HHC00854I is not yet documented

Explanation
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Severity
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Action
HHC00855I

HHC00855I is not yet documented

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Severity
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Action
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HHC00856I

HHC00856I is not yet documented

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Severity
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HHC00857I

HHC00857I is not yet documented

Explanation
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Severity
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Action
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HHC00858I

HHC00858I is not yet documented

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Severity
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HHC00859I

HHC00859I is not yet documented

Explanation
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HHC00860I is not yet documented

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HHC00861I

HHC00861I is not yet documented
HHC00862I

HHC00862I is not yet documented

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Severity ...

Action ...

HHC00863I

HHC00863I is not yet documented

Explanation ...

Severity ...

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HHC00864I

HHC00864I is not yet documented

Explanation ...

Severity ...

Action ...
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HHC00865I is not yet documented

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Severity

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HHC00866I

HHC00866I is not yet documented

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HHC00870I
HHC00870I is not yet documented
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HHC00871I is not yet documented

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HHC00872I

HHC00872I is not yet documented

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Severity
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Action
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HHC00873I

HHC00873I is not yet documented

Explanation
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HHC00874I

HHC00874I is not yet documented
Explaination
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Severity
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Action
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**HHC00875I**

HHC00875I is not yet documented

Explaination
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Severity
...

Action
...

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**HHC00876I**

HHC00876I is not yet documented

Explaination
...

Severity
...

Action
...

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**HHC00877I**

HHC00877I is not yet documented

Explaination
...
HHC00880I

HHC00880I is not yet documented

Explanation
...

Severity
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Action
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HHC00881I

HHC00881I is not yet documented

Explanation
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Severity
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Action
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HHC00882I

HHC00882I is not yet documented

Explanation
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Severity
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HHC00890I

HHC00890I is not yet documented

Explanation
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Severity
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Action
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HHC00891E

HHC00891E is not yet documented

Explanation
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Severity
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Action
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HHC00892E

HHC00892E is not yet documented

Explanation
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Severity
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Action
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HHC00893E

HHC00893E is not yet documented

Explanation
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Severity
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HHC00895E

HHC00895E is not yet documented

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Severity
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HHC00896E

HHC00896E is not yet documented

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(CTC Adapter Emulation)

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HHC00900E is not yet documented

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Severity
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HHC00901I

HHC00901I is not yet documented

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Severity
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Action
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HHC00902W

HHC00902W is not yet documented

Explanation
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Severity
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HHC00904I

HHC00904I is not yet documented

Explanation
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Severity
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Action
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HHC00905I

HHC00905I is not yet documented

Explanation
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Severity
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HHC00906E

HHC00906E is not yet documented

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HHC00907I

HHC00907I is not yet documented

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HHC00908E

HHC00908E is not yet documented

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HHC00909E

HHC00909E is not yet documented

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HHC00911E is not yet documented

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HHC00912E

HHC00912E is not yet documented

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HHC00913I

HHC00913I is not yet documented

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HHC00914W is not yet documented

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HHC00915E is not yet documented

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HHC00916E

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HHC00934I

HHC00934I is not yet documented

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HHC00936E

HHC00936E is not yet documented
HHC00937E

HHC00937E is not yet documented

Explanation
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Severity
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Action
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HHC00938I

HHC00938I is not yet documented

Explanation
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Severity
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Action
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HHC00939W

HHC00939W is not yet documented

Explanation
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HHC00940E

HHC00940E is not yet documented

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Severity

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HHC00941E

HHC00941E is not yet documented

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HHC00942I

HHC00942I is not yet documented

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HHC00943W is not yet documented

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HHC00944E

HHC00944E is not yet documented

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HHC00945I

HHC00945I is not yet documented

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Severity...

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HHC00946I

HHC00946I is not yet documented

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Severity
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Action
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HHC00947I

HHC00947I is not yet documented

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Severity
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Action
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HHC00948I

HHC00948I is not yet documented

Explanation
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Severity
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Action
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HHC00949I

HHC00949I is not yet documented
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**Severity**
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**Action**
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**HHC00950I**

HHC00950I is not yet documented

**Explanation**
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**Severity**
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**Action**
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**HHC00951I**

HHC00951I is not yet documented

**Explanation**
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**Action**
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**HHC00952I**

HHC00952I is not yet documented

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HHC00953W

HHC00953W is not yet documented

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HHC00954E

HHC00954E is not yet documented

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Severity
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HHC00955E

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HHC00957E

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HHC00958E

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HHC00964I
HHC00964I is not yet documented

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HHC00970E
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HHC00971I

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HHC00972I

HHC00972I is not yet documented

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HHC00973E

HHC00973E is not yet documented

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Severity
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Action
HHC00974E

HHC00974E is not yet documented

Explanation
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Severity
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Action
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HHC00975E

HHC00975E is not yet documented

Explanation
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Severity
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Action
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HHC00976E

HHC00976E is not yet documented

Explanation
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Severity
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Action
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16. Messages HHC01000s – HHC01099s
(Communication Adapter Emulation)

HHC01000E

HHC01000E is not yet documented

Explanation
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Severity
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Action
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HHC01001I

HHC01001I is not yet documented

Explanation
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Severity
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Action
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HHC01002E

HHC01002E is not yet documented

Explanation
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Severity
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Action
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HHC01003W

HHC01003W is not yet documented

Explanation
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Severity
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Action
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HHC01004I

HHC01004I is not yet documented

Explanation
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Severity
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Action
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HHC01005W

HHC01005W is not yet documented

Explanation
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Severity
...

Action
...

HHC01006I

HHC01006I is not yet documented
Explanation
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Severity
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Action
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HHC01007E

HHC01007E is not yet documented

Explanation
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Severity
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Action
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HHC01008E

HHC01008E is not yet documented

Explanation
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Severity
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Action
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HHC01009W

HHC01009W is not yet documented

Explanation
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HHC01010I

HHC01010I is not yet documented

Explanation

Severity

Action

HHC01011I

HHC01011I is not yet documented

Explanation

Severity

Action

HHC01012E

HHC01012E is not yet documented

Explanation

Severity

Action
HHC01013E

HHC01013E is not yet documented

Explanation
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Severity
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Action
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HHC01014I

HHC01014I is not yet documented

Explanation
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Severity
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Action
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HHC01015E

HHC01015E is not yet documented

Explanation
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Severity
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Action
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HHC01016I

HHC01016I is not yet documented

Examination
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Severity
...

Action
...

HHC01017E

HHC01017E is not yet documented

Examination
...

Severity
...

Action
...

HHC01018I

HHC01018I devaddr COMM: client ipaddr devtype devtype: connected

Examination
The client at IP address ipaddr has connected to Hercules as a devtype device at device address devaddr and is now available.

Severity
Information.

Action
None. This is an informational message.

HHC01019E

HHC01019E is not yet documented
HHC01020E

HHC01020E is not yet documented

Explanation

Severity

Action

HHC01022I

HHC01022I devaddr COMM: client ipaddr devtype devtype: connection closed by client

Explanation
The client with devtype devtype at IP address ipaddr that was connected to the 3270 console at device address devaddr has closed the connection. The device is no longer available for use.

Severity
Information.

Action
None. This is an informational message.

HHC01023W

HHC01023W Waiting for port port to become free for console connections

Explanation
The thread that handles connection requests from console devices is waiting for the TCP port denoted by \textit{port} to become available for use.

\textbf{Severity}
Warning.

\textbf{Action}
If this message persists, some other program has control of the TCP port listed. Determine the program involved and terminate it.

\begin{description}
\item[HHC01024I] Waiting for console connections on port \textit{port}.
\item[HHC01025E] is not yet documented
\item[HHC01026A] is not yet documented
\end{description}
HHC01027I

HHC01027I is not yet documented

Explanation

Severity

Action

HHC01028E

HHC01028E is not yet documented

Explanation

Severity

Action

HHC01029E

HHC01029E is not yet documented

Explanation

Severity

Action
HHC01030I

HHC01030I is not yet documented

Explanation
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Severity
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Action
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HHC01031I

HHC01031I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01032E

HHC01032E is not yet documented

Explanation
...

Severity
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Action
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HHC01033E

HHC01033E is not yet documented

Explanation
...

Severity
...

Action
...

HHC01034E

HHC01034E is not yet documented

Explanation
...

Severity
...

Action
...

HHC01035E

HHC01035E is not yet documented

Explanation
...

Severity
...

Action
...

HHC01036E

HHC01036E is not yet documented
HHC01037E

HHC01037E is not yet documented

Explanation
...

Severity
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Action
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HHC01038E

HHC01038E is not yet documented

Explanation
...

Severity
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Action
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HHC01039E

HHC01039E is not yet documented

Explanation
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HHC01040I

HHC01040I is not yet documented

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Severity

Action

HHC01041E

HHC01041E is not yet documented

Explanation

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HHC01042I

HHC01042I is not yet documented

Explanation

Severity

Action
HHC01043E

HHC01043E is not yet documented

Explanation

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Severity

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HHC01044I

HHC01044I is not yet documented

Explanation

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Severity

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Action

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HHC01045E

HHC01045E is not yet documented

Explanation

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Severity

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Action

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HHC01046I

HHC01046I is not yet documented

Explanation
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Severity
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Action
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HHC01047I

HHC01047I is not yet documented

Explanation
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Severity
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Action
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HHC01048D

HHC01048D is not yet documented

Explanation
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Severity
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Action
...

HHC01049D

HHC01049D is not yet documented
HHC01050D

HHC01050D is not yet documented

Explanation
...

Severity
...

Action
...

HHC01051D

HHC01051D is not yet documented

Explanation
...

Severity
...

Action
...

HHC01052D

HHC01052D is not yet documented

Explanation
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...
HHC01053D

HHC01053D is not yet documented

Explanation

Severity

Action

HHC01054D

HHC01054D is not yet documented

Explanation

Severity

Action

HHC01055D

HHC01055D is not yet documented

Explanation

Severity

Action
HHC01056D

HHC01056D is not yet documented

Explanation
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Severity
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Action
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HHC01057D

HHC01057D is not yet documented

Explanation
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Severity
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Action
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HHC01058D

HHC01058D is not yet documented

Explanation
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Severity
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Action
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HHC01059D

HHC01059D is not yet documented

Explanation
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Severity
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Action
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HHC01060D

HHC01060D is not yet documented

Explanation
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Severity
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Action
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HHC01061D

HHC01061D is not yet documented

Explanation
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Severity
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Action
...

HHC01062D

HHC01062D is not yet documented
HHC01063D

HHC01063D is not yet documented

Explanation
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Severity
...

Action
...

HHC01064D

HHC01064D is not yet documented

Explanation
...

Severity
...

Action
...

HHC01065D

HHC01065D is not yet documented

Explanation
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HHC01066D

HHC01066D is not yet documented

Explanation

Severity

Action

HHC01067

HHC01067D is not yet documented

Explanation

Severity

Action

HHC01068D

HHC01068D is not yet documented

Explanation

Severity

Action
HHC01069D

HHC01069D is not yet documented

Explanation
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Severity
...

Action
...

HHC01070D

HHC01070D is not yet documented

Explanation
...

Severity
...

Action
...

HHC01071D

HHC01071D is not yet documented

Explanation
...

Severity
...

Action
...
HHC01072D

HHC01072D is not yet documented

Explanation
...

Severity
...

Action
...

HHC01073I

HHC01073I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01074D

HHC01074D is not yet documented

Explanation
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Severity
...

Action
...

HHC01075D

HHC01075D is not yet documented
HHC01076D

HHC01076D is not yet documented

Explanation
...

Severity
...

Action
...

HHC01077

HHC01077D is not yet documented

Explanation
...

Severity
...

Action
...

HHC01078D

HHC01078D is not yet documented

Explanation
...
HHC01079D

HHC01079D is not yet documented

Explanation
...

Severity
...

Action
...

HHC01080D

HHC01080D is not yet documented

Explanation
...

Severity
...

Action
...

HHC01081D

HHC01081D is not yet documented

Explanation
...

Severity
...
HHC01082D

HHC01082D is not yet documented

Explanation

...

Severity

...

Action

...

HHC01083D

HHC01083D is not yet documented

Explanation

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Severity

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Action

...

HHC01084D

HHC01084D is not yet documented

Explanation

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Severity

...

Action

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HHC01090D

HHC01090D is not yet documented

Explanation
...

Severity
...

Action
...

HHC01091D

HHC01091D is not yet documented

Explanation
...

Severity
...

Action
...
17. Messages HHC01100s – HHC01199s (Printer Emulation)

**HHC01100I**

HHC01100I is not yet documented

Explanation
...

Severity
...

Action
...

**HHC01101E**

HHC01101E is not yet documented

Explanation
...

Severity
...

Action
...

**HHC01102E**

HHC01102E is not yet documented

Explanation
...

Severity
...

Action
...
HHC01103E

HHC01103E is not yet documented

Explanation
...

Severity
...

Action
...

HHC01104E

HHC01104E is not yet documented

Explanation
...

Severity
...

Action
...

HHC01105E

HHC01105E is not yet documented

Explanation
...

Severity
...

Action
...

HHC01106I

HHC01106I is not yet documented
HHC01107I

HHC01107I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01108E

HHC01108E is not yet documented

Explanation
...

Severity
...

Action
...
18. Messages HHC01200s – HHC01299s
(Card Punch / Card Reader Emulation)

HHC01200E

HHC01200E is not yet documented

Explanation
...

Severity
...

Action
...

HHC01201E

HHC01201E is not yet documented

Explanation
...

Severity
...

Action
...

HHC01202E

HHC01202E is not yet documented

Explanation
...

Severity
...

Action
...
HHC01203E
HHC01203E is not yet documented
Explanation
...
Severity
...
Action
...

HHC01204I
HHC01204I is not yet documented
Explanation
...
Severity
...
Action
...

HHC01205W
HHC01205W is not yet documented
Explanation
...
Severity
...
Action
...

HHC01206I
HHC01206I is not yet documented
**HHC01207E**

HHC01207E is not yet documented

**Explanation**

...

**Severity**

...

**Action**

...

---

**HHC01208E**

HHC01208E is not yet documented

**Explanation**

...

**Severity**

...

**Action**

...

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**HHC01209E**

HHC01209E is not yet documented

**Explanation**

...
Severity
...

Action
...
19. Messages HHC01300s – HHC01399s  
(Channel-to-Channel Adapter Emulation)

HHC01300I

HHC01300I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01301I

HHC01301I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01302I

HHC01302I is not yet documented

Explanation
...

Severity
...

Action
...
HHC01303I

HHC01303I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01304I

HHC01304I is not yet documented

Explanation
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Severity
...

Action
...

HHC01305I

HHC01305I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01306I

HHC01306I is not yet documented
HHC01307I

HHC01307I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01308I

HHC01308I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01309I

HHC01309I is not yet documented

Explanation
...
HHC01310I
HHC01310I is not yet documented
Explanation
... 
Severity
... 
Action
... 

HHC01311I
HHC01311I is not yet documented
Explanation
... 
Severity
... 
Action
... 

HHC01312I
HHC01312I is not yet documented
Explanation
... 
Severity
... 
Action
HHC01313I

HHC01313I is not yet documented

Explanation
...

Severity
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Action
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HHC01314I

HHC01314I is not yet documented

Explanation
...

Severity
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Action
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HHC01315I

HHC01315I is not yet documented

Explanation
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Severity
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Action
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HHC01316I
HHC01316I is not yet documented
Explanation
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Severity
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Action
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HHC01317I
HHC01317I is not yet documented
Explanation
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Severity
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Action
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HHC01318I
HHC01318I is not yet documented
Explanation
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Severity
...
Action
...

HHC01319I
HHC01319I is not yet documented
HHC01329I

HHC01329I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01330I

HHC01330I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01332I

HHC01332I is not yet documented

Explanation
...
HHC01333I

HHC01333I is not yet documented

Explanation

Severity

Action

HHC01334I

HHC01334I is not yet documented

Explanation

Severity

Action

HHC01335I

HHC01335I is not yet documented

Explanation

Severity

Action
HHC01350E

HHC01350E is not yet documented

Explanation
...

Severity
...

Action
...

HHC01351E

HHC01351E is not yet documented

Explanation
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Severity
...

Action
...

HHC01352T

HHC01352T is not yet documented

Explanation
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Severity
...

Action
...
HHC01353W

HHC01353W is not yet documented

Explanation
...

Severity
...

Action
...
20. Messages HHC01400s – HHC01499s  
(Hercules Initialization and Shutdown)

HHC01400I

HHC01400I is not yet documented

Explanation  
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Severity  
...

Action  
...

HHC01401I

HHC01401I is not yet documented

Explanation  
...

Severity  
...

Action  
...

HHC01402I

HHC01402I is not yet documented

Explanation  
...

Severity  
...

Action  
...
**HHC01403W**

HHC01403W is not yet documented

Explanation
...

Severity
...

Action
...

**HHC01404S**

HHC01404S is not yet documented

Explanation
...

Severity
...

Action
...

**HHC01405E**

HHC01405E is not yet documented

Explanation
...

Severity
...

Action
...

**HHC01406W**

HHC01406W is not yet documented
HHC01407S
HHC01407S is not yet documented

Explanation
...

Severity
...

Action
...

HHC01408S
HHC01408S is not yet documented

Explanation
...

Severity
...

Action
...

HHC01409S
HHC01409S is not yet documented

Explanation
...
HHC01410S
HHC01410S is not yet documented

Explanation
...

Severity
...

Action
...

HHC01411E
HHC01411E is not yet documented

Explanation
...

Severity
...

Action
...

HHC01412I
HHC01412I Hercules terminated

Explanation
Hercules has finished the shutdown procedure and has terminated.

Severity
Information.

Action
HHC01413I

HHC01413I Hercules version v.rr.m
HHC01413I Hercules version v.rr.m-git-xxxx-xxxxxxx

Explanation
This message displays the version of Hercules that is currently running. For productive, stable versions the message shows the version, release and modification level in the form v.rr.m. Snapshots from the developers repository additionally show the commit level in the form git-xxxx-xxxxxxx.

Severity
Information.

Action
None.

HHC01414I

HHC01414I (c) Copyright 1999-yyyy by Roger Bowler, Jan Jaeger, and others

Explanation
This message displays the copyright statement, where yyyy is the current year of the build of Hercules.

Severity
Information.

Action
None.

HHC01415I

HHC01415I Built on Mon dd yyyy at hh:mm:ss

Explanation
This message shows when the running Hercules build was compiled. Mon is the abbreviated month, dd is the day, yyyy is the year and hh:mm:ss is the timestamp of the build.

Severity
Information.

Action
HHC01416I

HHC01416I Build information:

Explanation
This is the title for the build information. This message is followed by several HHC01416I messages showing detailed build information.

Severity
Information.

Action
None.

HHC01417I

HHC01417I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01418E

HHC01418E is not yet documented

Explanation
...

Severity
...

Action
...
HHC01419E

HHC01419E is not yet documented

Explanation
...

Severity
...

Action
...

HHC01420I

HHC01420I Begin Hercules shutdown

Explanation
Hercules is starting shutting down because an “EXIT” or “QUIT” console command has been issued.

Severity
Information.

Action
None.

HHC01422I

HHC01422I Configuration released

Explanation
The configuration that has been in use has been released. This message is issued during shutdown of Hercules.

Severity
Information.

Action
None.

HHC01423I

HHC01423I Calling termination routines
Explanations
During shutdown Hercules is calling the termination routines.

Severity
Information.

Action
None.

HHC01424I

HHC01424I All termination routines complete

Explanation
During shutdown of Hercules all termination routines have been finished.

Severity
Information.

Action
None.

HHC01425I

HHC01425I Hercules shutdown complete

Explanation
Hercules has been completed the shutdown procedure.

Severity
Information.

Action
None.

HHC01426I

HHC01426I Shutdown initiated

Explanation
The Hercules shutdown has been initiated. This message is issued due to an “EXIT” or “QUIT” console command that has been given.
HHC01427I

**HHC01427I** *type storage released*

**Explanation**
During shutdown of Hercules the allocated storage has been released. The storage type is either “Main” or “Expanded”.

**Severity**
Information.

**Action**
None.

HHC01430S

**HHC01430S** is not yet documented

**Explanation**
...

**Severity**
...

**Action**
...

HHC01431I

**HHC01431I** is not yet documented

**Explanation**
...

**Severity**
...

**Action**
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**HHC01432S**

HHC01432S is not yet documented

**Explanation**

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**Severity**

...  

**Action**

...  

**HHC01433S**

HHC01433S is not yet documented

**Explanation**

...  

**Severity**

...  

**Action**

...  

**HHC01435I**

HHC01435I is not yet documented

**Explanation**

...  

**Severity**

...  

**Action**

...
HHC01436S

HHC01436S is not yet documented

Explanation
...

Severity
...

Action
...

HHC01437I

HHC01437I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01438W

HHC01438W is not yet documented

Explanation
...

Severity
...

Action
...

HHC01439S

HHC01439S is not yet documented
HHC01441E

HHC01441E is not yet documented

Explanation
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Severity
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Action
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HHC01443S

HHC01443S is not yet documented

Explanation
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Severity
...

Action
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HHC01447I

HHC01447I is not yet documented

Explanation
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Severity
HHC01448S

HHC01448S is not yet documented

Explanation
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Severity
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Action
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HHC01451E

HHC01451E is not yet documented

Explanation
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Severity
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Action
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HHC01452W

HHC01452W is not yet documented

Explanation
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Severity
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Action
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HHC01453S

HHC01453S is not yet documented

Explanation
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Severity
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Action
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HHC01454S

HHC01454S is not yet documented

Explanation
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Severity
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Action
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HHC01455E

HHC01455E is not yet documented

Explanation
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Severity
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Action
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HHC01456E

HHC01456E is not yet documented
**HHC01457E**

HHC01457E is not yet documented

Explanation

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Severity

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Action

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**HHC01458W**

HHC01458W is not yet documented

Explanation

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Severity

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Action

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**HHC01459I**

HHC01459I is not yet documented

Explanation

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HHC01460E
HHC01460E is not yet documented
Explanation
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Severity
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Action
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HHC01461E
HHC01461E is not yet documented
Explanation
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Severity
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Action
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HHC01462E
HHC01462E is not yet documented
Explanation
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Severity
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Action
HHC01463E

HHC01463E is not yet documented

Explanation
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Severity
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Action
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HHC01464E

HHC01464E is not yet documented

Explanation
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Severity
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Action
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HHC01465I

HHC01465I is not yet documented

Explanation
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Severity
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Action
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HHC01466E

HHC01466E is not yet documented

Explanation
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Severity
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Action
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HHC01467E

HHC01467E is not yet documented

Explanation
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Severity
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Action
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HHC01468E

HHC01468E is not yet documented

Explanation
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Severity
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Action
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HHC01469E

HHC01469E is not yet documented
HHC01470E

HHC01470E is not yet documented

Explanation
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Severity
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Action
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HHC01471E

HHC01471E is not yet documented

Explanation
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Severity
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Action
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HHC01472E

HHC01472E is not yet documented

Explanation
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**HHC01473E**

HHC01473E is not yet documented

**Explanation**

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**HHC01474I**

HHC01474I is not yet documented

**Explanation**

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**HHC01475E**

HHC01475E is not yet documented

**Explanation**

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HHC01476I

HHC01476I is not yet documented

Explanation
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Severity
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Action
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HHC01477W

HHC01477W is not yet documented

Explanation
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Severity
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Action
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HHC01478I

HHC01478I is not yet documented

Explanation
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Severity
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Action
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**HHC01479I**

HHC01479I is not yet documented

Explanation

...  

Severity

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Action

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**HHC01480E**

HHC01480E is not yet documented

Explanation

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Severity

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Action

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**HHC01481I**

HHC01481I is not yet documented

Explanation

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Severity

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Action

...

**HHC01482I**

HHC01482I is not yet documented
**HHC01483E**

HHC01483E is not yet documented

**Explanation**

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**Severity**

...

**Action**

...

**HHC01484I**

HHC01484I is not yet documented

**Explanation**

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**Severity**

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**Action**

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**HHC01485I**

HHC01485I is not yet documented

**Explanation**

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HHC01486I
HHC01486I is not yet documented
Explanation
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Severity
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Action
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HHC01487I
HHC01487I is not yet documented
Explanation
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Severity
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Action
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HHC01488I
HHC01488I is not yet documented
Explanation
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Severity
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Action
HHC01489E
HHC01489E is not yet documented
Explanation
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Severity
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Action
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HHC01490I
HHC01490I is not yet documented
Explanation
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Severity
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Action
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HHC01491I
HHC01491I is not yet documented
Explanation
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Severity
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Action
...
**HHC01492I**

HHC01492I is not yet documented

Explanation
...

Severity
...

Action
...

**HHC01493I**

HHC01493I is not yet documented

Explanation
...

Severity
...

Action
...
21. Messages HHC01500s – HHC01599s (Dynamic Loader)

HHC01500I

HHC01500I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01501I

HHC01501I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01502I

HHC01502I is not yet documented

Explanation
...

Severity
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Action
...
HHC01504I

HHC01504I is not yet documented

Explanation
...

Severity
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Action
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HHC01505E

HHC01505E is not yet documented

Explanation
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Severity
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Action
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HHC01506W

HHC01506W is not yet documented

Explanation
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Severity
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Action
...

HHC01507W

HHC01507W is not yet documented
HHC01508I

HHC01508I is not yet documented

Explanation
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Severity
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Action
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HHC01509I

HHC01509I is not yet documented

Explanation
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Severity
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Action
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HHC01510I

HHC01510I is not yet documented

Explanation
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HHC01511S

HHC01511S is not yet documented

Explanation

Severity

Action

HHC01512I

HHC01512I is not yet documented

Explanation

Severity

Action

HHC01513I

HHC01513I is not yet documented

Explanation

Severity

Action
HHC01514I

HHC01514I is not yet documented

Explanation
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Severity
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Action
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HHC01515I

HHC01515I is not yet documented

Explanation
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Severity
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Action
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HHC01516E

HHC01516E is not yet documented

Explanation
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Severity
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Action
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**HHC01517E**

HHC01517E is not yet documented

Explanation
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Severity
...

Action
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**HHC01518E**

HHC01518E is not yet documented

Explanation
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Severity
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Action
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**HHC01519E**

HHC01519E is not yet documented

Explanation
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Severity
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Action
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**HHC01520E**

HHC01520E is not yet documented
HHC01521E

HHC01521E is not yet documented

Explanation
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Severity
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Action
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HHC01522E

HHC01522E is not yet documented

Explanation
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Severity
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Action
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HHC01523E

HHC01523E is not yet documented

Explanation
...
HHC01524E

HHC01524E is not yet documented

Explanation

Severity

Action

HHC01525E

HHC01525E is not yet documented

Explanation

Severity

Action

HHC01526I

HHC01526I is not yet documented

Explanation

Severity

Action
HHC01527I

HHC01527I is not yet documented

Explanation
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Severity
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Action
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HHC01528I

HHC01528I is not yet documented

Explanation
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Severity
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Action
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HHC01529I

HHC01529I is not yet documented

Explanation
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Severity
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Action
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HHC01530E

HHC01530E is not yet documented

Explanation
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Severity
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Action
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HHC01531I

HHC01531I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01532I

HHC01532I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01533I

HHC01533I is not yet documented
HHC01534I
HHC01534I is not yet documented
Explanation
...
Severity
...
Action
...

HHC01535I
HHC01535I is not yet documented
Explanation
...
Severity
...
Action
...

HHC01540E
HHC01540E is not yet documented
Explanation
...
HHC01541I

HHC01541I HDL: dyngui.dll initiated

Explanation
The dyngui loadable module was successfully loaded and initiated.

Severity
Information.

Action
None. This is an informational message.

HHC01542I

HHC01542I HDL: dyngui.dll terminated

Explanation
The dyngui loadable module was successfully terminated.

Severity
Information.

Action
None. This is an informational message.
22. Messages HHC01600s – HHC01699s
(Pan& Communication)

HHC01600E

HHC01600E is not yet documented

Explanation
...

Severity
...

Action
...

HHC01602I

HHC01602I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01603I

HHC01603I cmd

Explanation
Console command ‘cmd’ has been issued at the Herculese console. See also Message HHC00013I.

Severity
Information.

Action
None. This is an informational message.
HHC01604I

HHC01604I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01605E

HHC01605E is not yet documented

Explanation
...

Severity
...

Action
...

HHC01606I

HHC01606I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01607I

HHC01607I is not yet documented
HHC01608W

HHC01608W is not yet documented

Explanation
...

Severity
...

Action
...

HHC01609E

HHC01609E is not yet documented

Explanation
...

Severity
...

Action
...

HHC01610I

HHC01610I is not yet documented

Explanation
...
Severity
...

Action
...
23. Messages HHC01700s – HHC01799s  
(ECPS:VM Support)

HHC01700W

HHC01700W is not yet documented

Explanation
...

Severity
...

Action
...

HHC01701I

HHC01701I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01702I

HHC01702I is not yet documented

Explanation
...

Severity
...

Action
...
HHC01703I

HHC01703I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01704I

HHC01704I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01705I

HHC01705I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01706I

HHC01706I is not yet documented
**HHC01707I**

**HHC01707I ECPS:VM {VM | CP} ASSIST feature xxxxxxxx {Disabled | Enabled}**

**Explanation**
This message is indicating that the ECPS:VM ASSIST feature ‘feature’ of type VM or CP has been either disabled or enabled.

**Severity**
Information.

**Action**
None. This is an informational message.

**HHC01708I**

**HHC01708I All ECPS:VM {VM | CP} ASSIST features {Disabled | Enabled}**

**Explanation**
This message is indicating that all ECPS:VM ASSIST features of type VM or CP have been either disabled or enabled.

**Severity**
Information.

**Action**
None. This is an informational message.

**HHC01709I**

**HHC01709I is not yet documented**

**Explanation**
HHC01710I

HHC01710I is not yet documented

Explanation

Severity

Action

HHC01711I

HHC01711I is not yet documented

Explanation

Severity

Action

HHC01712I

HHC01712I is not yet documented

Explanation

Severity
HHC01713I

HHC01713I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01714I

HHC01714I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01715W

HHC01715W is not yet documented

Explanation
...

Severity
...

Action
...
HHC01716I

HHC01716I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01717I

HHC01717I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01718E

HHC01718E is not yet documented

Explanation
...

Severity
...

Action
...

HHC01719I

HHC01719I ECPS:VM Command processor invoked
Explanation
The ECPS:VM command processor has been invoked.

Severity
Information.

Action
None. This is an informational message.

HHC01720E

HHC01720E is not yet documented

Explanation
...

Severity
...

Action
...

HHC01721E

HHC01721E is not yet documented

Explanation
...

Severity
...

Action
...

HHC01722I

HHC01722I ECPS:VM Command processor complete

Explanation
The ECPS:VM command processor has been completed.
Severity
Information.

Action
None. This is an informational message.

HHC01723W

HHC01723W is not yet documented

Explanation
...

Severity
...

Action
...
24. Messages HHC01800s – HHC01899s (HTTP Server)

**HHC01800E**

HHC01800E is not yet documented

Explanation
...

Severity
...

Action
...

**HHC01801E**

HHC01801E is not yet documented

Explanation
...

Severity
...

Action
...

**HHC01802I**

HHC01802I HTTP server using root directory *path*

Explanation
The Hercules HTTP server is using ‘*path*’ as the root directory.

Severity
Information.

Action
None. This is an informational message.
HHC01803I

HHC01803I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01804W

HHC01804W is not yet documented

Explanation
...

Severity
...

Action
...

HHC01805I

HHC01805I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01806W

HHC01806W is not yet documented
HHC01807I

HHC01807I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01808I

HHC01808I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01809I

HHC01809I is not yet documented

Explanation
...
HHC01810I

HHC01810I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01811I

HHC01811I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01812E

HHC01812E is not yet documented

Explanation
...

Severity
...

Action
HHC01814E

HHC01814E is not yet documented

Explanation
...

Severity
...

Action
...

HHC01815E

HHC01815E is not yet documented

Explanation
...

Severity
...

Action
...
25. Messages HHC01900s – HHC01999s
(Diagnose Calls)

HHC01900I

HHC01900I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01901I

HHC01901I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01902I

HHC01902I is not yet documented

Explanation
...

Severity
...

Action
...
HHC01905I

HHC01905I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01906I

HHC01906I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01907I

HHC01907I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01908E

HHC01908E is not yet documented
HHC01909I

HHC01909I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01920I

HHC01920I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01921I

HHC01920I is not yet documented

Explanation
...
HHC01922I
HHC01922I is not yet documented
Explanation
...  
Severity
...  
Action
...

HHC01923I
HHC01923I is not yet documented
Explanation
...  
Severity
...  
Action
...

HHC01924I
HHC01924I is not yet documented
Explanation
...  
Severity
...  
Action
HHC01925I

HHC01925I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01926I

HHC01926I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01927I

HHC01927I is not yet documented

Explanation
...

Severity
...

Action
...
HHC01928I

HHC01928I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01929I

HHC01929I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01930I

HHC01930I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01931I

HHC01931I is not yet documented
HHC01932I

HHC01932I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01933I

HHC01933I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01934I

HHC01934I is not yet documented

Explanation
...
HHC01935I

HHC01935I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01936I

HHC01936I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01937I

HHC01937I is not yet documented

Explanation
...

Severity
...

Action
HHC01938E

HHC01938E is not yet documented

Explanation

...

Severity

...

Action

...

HHC01939I

HHC01939I is not yet documented

Explanation

...

Severity

...

Action

...

HHC01940I

HHC01940I is not yet documented

Explanation

...

Severity

...

Action

...
HHC01941I
HHC01941I is not yet documented
Explanation
...
Severity
...
Action
...

HHC01942I
HHC01942I is not yet documented
Explanation
...
Severity
...
Action
...

HHC01943I
HHC01943I is not yet documented
Explanation
...
Severity
...
Action
...

HHC01944I
HHC01944I is not yet documented
HHC01945I

HHC01945I is not yet documented

Explanation

... 

Severity

... 

Action

... 

HHC01950I

HHC01950I Panel command ‘cmd’ issued by guest started

HHC01950I Panel command ‘cmd’ issued by guest completed

Explanation

The guest operating system has started or completed a DIAGNOSE 8 instruction to perform the panel command ‘cmd’ to be carried out by the Hercules panel command processor.

Severity

Information.

Action

This is an informational message. No action is requested if this behaviour is expected. If this behaviour poses a security concern however, the DIAG8CMD configuration statement should either be omitted or specified with the DISABLED argument.

HHC01951W

HHC01951W is not yet documented
HHC01952I
HHC01952I is not yet documented

Explanation
...

Severity
...

Action
...

HHC01953E
HHC01953E Host command processing disabled by configuration statement

Explanation
The guest operating system attempted using the DIAGNOSE 8 Instruction to carry out a panel command, but the system configuration disabled this feature (with the DIAG8CMD configuration statement). The panel command is ignored.

Severity
Error.

Action
If it is deemed necessary for the guest operating system to issue DIAGNOSE 8 commands to issue panel commands, the DIAG8CMD with the ENABLE argument should be specified in the configuration file.

HHC01954E
HHC01954E Host command processing not included in engine build

Explanation
The Hercules engine has been built without Diagnose 8 panel command facility support. The panel command is not issued. The system continues.

**Severity**

Error.

**Action**

If it is desired that DIAGNOSE 8 instructions be carried out as panel commands, the facility should be included in the build process. Additionally, the `DIAG8CMD` configuration statement should be specified with the `ENABLE` parameter.
26. Messages HHC02000s – HHC02099s
(Suspend / Resume Processing)

HHC02000E

HHC02000E is not yet documented

Explanation
...

Severity
...

Action
...

HHC02001E

HHC02001E is not yet documented

Explanation
...

Severity
...

Action
...

HHC02002W

HHC02002W is not yet documented

Explanation
...

Severity
...

Action
...
**HHC02003W**

HHC02003W is not yet documented

Explanation
...

Severity
...

Action
...

**HHC02004E**

HHC02004E is not yet documented

Explanation
...

Severity
...

Action
...

**HHC02005E**

HHC02005E is not yet documented

Explanation
...

Severity
...

Action
...

**HHC02006E**

HHC02006E is not yet documented
HHC02007E

HHC02007E is not yet documented

Explanation
...

Severity
...

Action
...

HHC02008E

HHC02008E is not yet documented

Explanation
...

Severity
...

Action
...

HHC02009E

HHC02009E is not yet documented

Explanation
...
HHC02010E

HHC02010E is not yet documented

Explanation

Severity

Action

HHC02011E

HHC02011E is not yet documented

Explanation

Severity

Action

HHC02012E

HHC02012E is not yet documented

Explanation

Severity

Action
HHC02013E
HHC02013E is not yet documented
Explanation
...
Severity
...
Action
...

HHC02014E
HHC02014E is not yet documented
Explanation
...
Severity
...
Action
...

HHC02015E
HHC02015E is not yet documented
Explanation
...
Severity
...
Action
...
HHC02016E

HHC02016E is not yet documented

Explanation
...

Severity
...

Action
...

HHC02017E

HHC02017E is not yet documented

Explanation
...

Severity
...

Action
...

HHC02018E

HHC02018E is not yet documented

Explanation
...

Severity
...

Action
...

HHC02019E

HHC02019E is not yet documented
HHC02020E

HHC02020E is not yet documented

Explanation

... 

Severity

... 

Action

... 

HHC02021E

HHC02021E is not yet documented

Explanation

... 

Severity

... 

Action

...
27. Messages HHC02100s – HHC02199s
(System Logger)

HHC02100E

HHC02100E is not yet documented

Explanation
...

Severity
...

Action
...

HHC02101I

HHC02101I is not yet documented

Explanation
...

Severity
...

Action
...

HHC02102E

HHC02102E is not yet documented

Explanation
...

Severity
...

Action
...
HHC02103I

HHC02103I Logger: logger thread terminating

Explanation
During shutdown of Hercules the logger thread is terminating.

Severity
Information.

Action
None.

HHC02104I

HHC02104I is not yet documented

Explanation
...

Severity
...

Action
...

HHC02105I

HHC02105I is not yet documented

Explanation
...

Severity
...

Action
...

HHC02106I

HHC02106I is not yet documented
HHC02197E

HHC02197E is not yet documented

Explanation
...

Severity
...

Action
...

HHC02198I

HHC02198I is not yet documented

Explanation
...

Severity
...

Action
...

HHC02199I

HHC02199I is not yet documented

Explanation
...
Severity
...

Action
...
28. Messages HHC02200s – HHC02299s
(Command Processing)

HHC02200E

HHC02200E is not yet documented

Explanation
...

Severity
...

Action
...

HHC02201E

HHC02201E is not yet documented

Explanation
...

Severity
...

Action
...

HHC02202E

HHC02202E is not yet documented

Explanation
...

Severity
...

Action
...
**HHC02203I**

HHC02203I is not yet documented

**Explanation**

...

**Severity**

...

**Action**

...

**HHC02204I**

HHC02204I cmdsep  set to x

**Explanation**

The command separator sign for separating Hercules console commands has been set to sign ‘x’.

**Severity**

Information.

**Action**

None. This is an informational message.

**HHC02205E**

HHC02205E is not yet documented

**Explanation**

...

**Severity**

...

**Action**

...

**HHC02206I**

HHC02206I is not yet documented
HHC02207I

HHC02207I is not yet documented

Explanation

... 

Severity

... 

Action

... 

HHC02208I

HHC02208I is not yet documented

Explanation

... 

Severity

... 

Action

... 

HHC02209E

HHC02209E is not yet documented

Explanation

...
Severity
...

Action
...

HHC02210I

HHC02210I is not yet documented

Explanation
...

Severity
...

Action
...

HHC02211E

HHC02211E is not yet documented

Explanation
...

Severity
...

Action
...

HHC02212E

HHC02212E is not yet documented

Explanation
...

Severity
...
HHC02213E

HHC02213E is not yet documented

Explanation

Severity

Action

HHC02214I

HHC02214I is not yet documented

Explanation

Severity

Action

HHC02215W

HHC02215W is not yet documented

Explanation

Severity

Action
HHC02216E

HHC02216E is not yet documented

Explanation
...

Severity
...

Action
...

HHC02217I

HHC02217I is not yet documented

Explanation
...

Severity
...

Action
...

HHC02218E

HHC02218E is not yet documented

Explanation
...

Severity
...

Action
...

HHC02219E

HHC02219E is not yet documented
**HHC02220I**

HHC02220I is not yet documented

Explanation
...

Severity
...

Action
...

**HHC02221E**

HHC02221E is not yet documented

Explanation
...

Severity
...

Action
...

**HHC02222E**

HHC02222E is not yet documented

Explanation
...
HHC02223I
HHC02223I is not yet documented
Explanation

HHC02224E
HHC02224E is not yet documented
Explanation

HHC02226I
HHC02226I is not yet documented
Explanation
HHC02227E
HHC02227E is not yet documented
Explanation
... 
Severity
... 
Action
...

HHC02228I
HHC02228I is not yet documented
Explanation
... 
Severity
... 
Action
...

HHC02229I
HHC02229I is not yet documented
Explanation
... 
Severity
... 
Action
...
HHC02230I

HHC02230I is not yet documented

Explanation
...

Severity
...

Action
...

HHC02231E

HHC02231E is not yet documented

Explanation
...

Severity
...

Action
...

HHC02232E

HHC02232E is not yet documented

Explanation
...

Severity
...

Action
...

HHC02233E

HHC02233E is not yet documented
HHC02234W

HHC02234W is not yet documented

Explanation
...

Severity
...

Action
...

HHC02235E

HHC02235E is not yet documented

Explanation
...

Severity
...

Action
...

HHC02236E

HHC02236E is not yet documented

Explanation
...
HHC02237W
HHC02237W is not yet documented

Explanation
...

Severity
...

Action
...

HHC02238E
HHC02238E is not yet documented

Explanation
...

Severity
...

Action
...

HHC02239I
HHC02239I is not yet documented

Explanation
...

Severity
...

Action
HHC02240I

HHC02240I is not yet documented

Explanation
...

Severity
...

Action
...

HHC02241I

HHC02241I is not yet documented

Explanation
...

Severity
...

Action
...

HHC02242I

HHC02242I is not yet documented

Explanation
...

Severity
...

Action
...
HHC02243E

HHC02243E is not yet documented

Explanation
...

Severity
...

Action
...

HHC02244E

HHC02244E is not yet documented

Explanation
...

Severity
...

Action
...

HHC02245I

HHC02245I is not yet documented

Explanation
...

Severity
...

Action
...

HHC02246E

HHC02246E is not yet documented
HHC02247E

HHC02247E is not yet documented

Explanation
...

Severity
...

Action
...

HHC02248I

HHC02248I is not yet documented

Explanation
...

Severity
...

Action
...

HHC02249I

HHC02249I is not yet documented

Explanation
...
HHC02250I

HHC02250I is not yet documented

Explanation
...

Severity
...

Action
...

HHC02251E

HHC02251E is not yet documented

Explanation
...

Severity
...

Action
...

HHC02252E

HHC02252E is not yet documented

Explanation
...

Severity
...

Action
HHC02253E
HHC02253E is not yet documented
Explanation
...
Severity
...
Action
...

HHC02254I
HHC02254I is not yet documented
Explanation
...
Severity
...
Action
...

HHC02255I
HHC02255I is not yet documented
Explanation
...
Severity
...
Action
...
HHC02256W

HHC02256W is not yet documented

Explanation ...

Severity ...

Action ...

HHC02257I

HHC02257I is not yet documented

Explanation ...

Severity ...

Action ...

HHC02259E

HHC02259E is not yet documented

Explanation ...

Severity ...

Action ...

HHC02260I

HHC02260I is not yet documented
HHC02261W

HHC02261W is not yet documented

Explanation
...

Severity
...

Action
...

HHC02262I

HHC02262I is not yet documented

Explanation
...

Severity
...

Action
...

HHC02263I

HHC02263I is not yet documented

Explanation
...
HHC02264I
HHC02264I is not yet documented

Explanation
...

Severity
...

Action
...

HHC02265I
HHC02265I is not yet documented

Explanation
...

Severity
...

Action
...

HHC02266A
HHC02266A is not yet documented

Explanation
...

Severity
...

Action
HHC02267I

HHC02267I is not yet documented

Explanation

...

Severity

...

Action

...

HHC02268I

HHC02268I is not yet documented

Explanation

...

Severity

...

Action

...

HHC02269I

HHC02269I is not yet documented

Explanation

...

Severity

...

Action

...
HHC02270I

HHC02270I is not yet documented

Explanation
...

Severity
...

Action
...

HHC02271I

HHC02271I is not yet documented

Explanation
...

Severity
...

Action
...

HHC02272I

HHC02272I Highest observed MIPS and IO/s rates:
HHC02272I From begin_last_interval to end_last_interval
HHC02272I MIPS: nnn.nnnnnn
HHC02272I IO/s: nnnn
HHC02272I From begin_new_interval to end_new_interval
HHC02272I MIPS: nnn.nnnnnn
HHC02272I IO/s: nnnn
HHC02272I Current interval is nnnn minutes

Explanation
Message HHC02272I is the result of a MAXRATES console command either issued manually or driven by the interval. The current interval time in minutes is shown in the last message.
The first message block shows the maximum MIPS rate (million instructions per second) and the maximum IO/s (IO’s per second) in the last interval, while the second blocks shows the rates for the current interval. The begin and end interval timestamps are in the format “Day Mon dd hh:mm:ss yyyy”

Severity
Information.

Action
None. This is an informational message.

---

**HHC02273I**

HHC02273I is not yet documented

Explanation
...

Severity
...

Action
...

---

**HHC02274I**

HHC02274I is not yet documented

Explanation
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Severity
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Action
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**HHC02275I**

HHC02275I is not yet documented

Explanation
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Severity
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Action
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HHC02276I

HHC02276I is not yet documented

Explanation
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Severity
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Action
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HHC02277I

HHC02277I is not yet documented

Explanation
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Severity
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Action
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HHC02278I

HHC02280I is not yet documented

Explanation
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Severity
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Action
HHC02279I

HHC02279I is not yet documented

Explanation
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Severity
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Action
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HHC02280I

HHC02280I is not yet documented

Explanation
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Severity
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Action
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HHC02281I

HHC02281I is not yet documented

Explanation
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Severity
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Action
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HHC02282I

HHC02282I is not yet documented

Explanation
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Severity
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HHC02283I

HHC02283I is not yet documented

Explanation
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Severity
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HHC02284I

HHC02284I is not yet documented

Explanation
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Severity
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Action
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HHC02285I

HHC02285I is not yet documented
HHC02286I
HHC02286I is not yet documented

Explanation
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Severity
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Action
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HHC02287I
HHC02287I is not yet documented

Explanation
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Severity
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HHC02288I
HHC02288I is not yet documented

Explanation
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Severity
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HHC02289I

HHC02289I is not yet documented

Explanation
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Severity
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Action
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HHC02290I

HHC02290I is not yet documented

Explanation
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Severity
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Action
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HHC02291I

HHC02291I is not yet documented

Explanation
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Severity
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Action

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**HHC02292I**

HHC02292I is not yet documented

Explanation

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Severity

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Action

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**HHC02293I**

HHC02293I is not yet documented

Explanation

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Severity

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Action

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**HHC02294I**

HHC02294I is not yet documented

Explanation

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Severity

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Action

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HHC02298E

HHC02298E is not yet documented

Explanation
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Severity
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Action
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HHC02299E

HHC02299E is not yet documented

Explanation
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Severity
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Action
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29. Messages HHC02300s – HHC02399s
(IEEE Component)

HHC02300I

HHC02300I is not yet documented

Explanation
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Severity
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Action
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HHC02301E

HHC02301E is not yet documented

Explanation
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Severity
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Action
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HHC02302W

HHC02302W is not yet documented

Explanation
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Severity
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Action
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HHC02303E

HHC02303E is not yet documented

Explanation
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Severity
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Action
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HHC02304W

HHC02304W is not yet documented

Explanation
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Severity
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Action
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HHC02305E

HHC02305E is not yet documented

Explanation
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Severity
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Action
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HHC02306E

HHC02306E is not yet documented
HHC02307E

HHC02307E is not yet documented

Explanation
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Severity
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Action
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HHC02308W

HHC02308W is not yet documented

Explanation
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Severity
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Action
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HHC02309W

HHC02309W is not yet documented

Explanation
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HHC02310S
HHC02310S is not yet documented

HHC02311I
HHC02311I is not yet documented

HHC02312W
HHC02312W is not yet documented
HHC02313I
HHC02313I is not yet documented
Explanation
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Severity
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Action
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HHC02314I
HHC02314I is not yet documented
Explanation
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Severity
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Action
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HHC02315I
HHC02315I is not yet documented
Explanation
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Severity
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Action
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HHC02316E

HHC02316E is not yet documented

Explanation
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Severity
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Action
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HHC02318I

HHC02318I is not yet documented

Explanation
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Severity
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Action
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HHC02319I

HHC02319I is not yet documented

Explanation
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Severity
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Action
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HHC02386E
HHC02386E is not yet documented

Explanation
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Severity
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Action
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HHC02389E is not yet documented

Explanation
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Severity
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Action
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30. Messages HHC02400s – HHC02499s
(DASD Utilities)

HHC02400E

HHC02400E is not yet documented

Explanation
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Severity
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Action
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HHC02401E

HHC02401E is not yet documented

Explanation
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Severity
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Action
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HHC02402E

HHC02402E is not yet documented

Explanation
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Severity
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Action
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HHC02403E

HHC02403E is not yet documented

Explanation
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Severity
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Action
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HHC02404E

HHC02404E is not yet documented

Explanation
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Severity
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Action
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HHC02405I

HHC02405I is not yet documented

Explanation
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Severity
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Action
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HHC02410I

HHC02410I is not yet documented
HHC02411E

HHC02411E is not yet documented

Explanation
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Severity
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Action
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HHC02412E

HHC02412E is not yet documented

Explanation
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Severity
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Action
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HHC02413E

HHC02413E is not yet documented

Explanation
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**HHC02414I**

HHC02414I is not yet documented

Explanation

Severity

Action

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**HHC02415E**

HHC02415E is not yet documented

Explanation

Severity

Action

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**HHC02416E**

HHC02416E is not yet documented

Explanation

Severity

Action
HHC02417E

HHC02417E is not yet documented

Explanation
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Severity
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Action
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HHC02418E

HHC02418E is not yet documented

Explanation
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Severity
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Action
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HHC02419E

HHC02419E is not yet documented

Explanation
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Severity
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Action
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HHC02420I

HHC02420I is not yet documented

Explanation
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Severity
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Action
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HHC02421E

HHC02421E is not yet documented

Explanation
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Severity
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Action
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HHC02422I

HHC02422I is not yet documented

Explanation
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Severity
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Action
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HHC02423I

HHC02420I is not yet documented
**HHC02430E**

HHC02430E is not yet documented

**Explanation**
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**Severity**
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**Action**
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**HHC02431E**

HHC02431E is not yet documented

**Explanation**
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**Severity**
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**Action**
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**HHC02432E**

HHC02432E is not yet documented

**Explanation**
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HHC02433E

HHC02433E is not yet documented

Explanation

Severity

Action

HHC02434E

HHC02434E is not yet documented

Explanation

Severity

Action

HHC02435I

HHC02435I is not yet documented

Explanation

Severity

Action
HHC02436I

HHC02436I is not yet documented

Explanation
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Severity
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Action
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HHC02437I

HHC02437I is not yet documented

Explanation
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Severity
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HHC02438I

HHC02438I is not yet documented

Explanation
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Severity
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HHC02439I

HHC02439I is not yet documented

Explanation
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Severity
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HHC02444E

HHC02444E is not yet documented

Explanation
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Severity
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HHC02445E

HHC02445E is not yet documented

Explanation
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Severity
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HHC02446E

HHC02446E is not yet documented
HHC02447E

HHC02447E is not yet documented

Explanation
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Severity
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Action
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HHC02448I

HHC02448I is not yet documented

Explanation
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Severity
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Action
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HHC02449I

HHC02449I is not yet documented

Explanation
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HHC02450I

HHC02450I is not yet documented

Explanation
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Severity
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Action
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HHC02451I

HHC02451I is not yet documented

Explanation
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Severity
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Action
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HHC02452E

HHC02452E is not yet documented

Explanation
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Severity
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HHC02453W

HHC02453W is not yet documented

Explanation ...

Severity ...

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HHC02454W

HHC02454W is not yet documented

Explanation ...

Severity ...

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HHC02455W

HHC02455W is not yet documented

Explanation ...

Severity ...

Action ...
HHC02456E

HHC02456E is not yet documented

Explanation
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Severity
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Action
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HHC02457I

HHC02457I is not yet documented

Explanation
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Severity
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HHC02458E

HHC02458E is not yet documented

Explanation
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Severity
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HHC02459E

HHC02459E is not yet documented
HHC02460E

HHC02460E is not yet documented

Explanation
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HHC02461E

HHC02461E is not yet documented

Explanation
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Severity
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HHC02462I

HHC02462I is not yet documented

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HHC02463I
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Explanation
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Severity
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HHC02464I
HHC02464I is not yet documented
Explanation
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Severity
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HHC02465E
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Explanation
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Severity
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HHC02466I

HHC02466I is not yet documented

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Severity
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HHC02467I

HHC02467I is not yet documented

Explanation
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Severity
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HHC02468E

HHC02468E is not yet documented

Explanation
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Severity
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Action
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HHC02469I
HHC02469I is not yet documented
Explanation
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Severity
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Action
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HHC02470E
HHC02470E is not yet documented
Explanation
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Severity
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Action
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HHC02471E
HHC02471E is not yet documented
Explanation
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Severity
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Action
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HHC02472E
HHC02472E is not yet documented
HHC02473E

HHC02473E is not yet documented

Explanation
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Severity
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Action
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HHC02474E

HHC02474E is not yet documented

Explanation
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Severity
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Action
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HHC02475I

HHC02475I is not yet documented

Explanation
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HHC02476E

HHC02476E is not yet documented

Explanation

Severity

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HHC02477E

HHC02477E is not yet documented

Explanation

Severity

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HHC02478E

HHC02478E is not yet documented

Explanation

Severity

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HHC02479E

HHC02479E is not yet documented

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Severity
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HHC02480E

HHC02480E is not yet documented

Explanation
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Severity
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HHC02481I

HHC02481I is not yet documented

Explanation
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Severity
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HHC02482I

HHC02482I is not yet documented

Explanation
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HHC02483I

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Explanation
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Severity
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HHC02485I

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Severity
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HHC02486I

HHC02486I is not yet documented
HHC02487I

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Severity
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HHC02488I

HHC02488I is not yet documented

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HHC02489E

HHC02489E is not yet documented

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HHC02490E

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Explanation

Severity

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HHC02491E

HHC02491E is not yet documented

Explanation

Severity

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HHC02494I

HHC02494I is not yet documented

Explanation

Severity

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HHC02495I
HHC02495I is not yet documented
Explanation
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Severity
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Action
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HHC02496I
HHC02496I is not yet documented
Explanation
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Severity
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Action
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HHC02499I
HHC02499I is not yet documented
Explanation
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Severity
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Action
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31. Messages HHC02500s – HHC02599s (DASD Utilities)

**HHC02500E**

HHC02500E is not yet documented

Explanation

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Severity

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Action

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**HHC02501E**

HHC02501E is not yet documented

Explanation

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Severity

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Action

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**HHC02502E**

HHC02502E is not yet documented

Explanation

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Severity

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Action

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HHC02503E

HHC02503E is not yet documented

Explanation
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Severity
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Action
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HHC02504E

HHC02504E is not yet documented

Explanation
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Severity
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Action
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HHC02505E

HHC02505E is not yet documented

Explanation
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Severity
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Action
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HHC02506E

HHC02506E is not yet documented
HHC02507E

HHC02507E is not yet documented

Explanation
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Severity
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Action
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HHC02508E

HHC02508E is not yet documented

Explanation
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Severity
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HHC02509E

HHC02509E is not yet documented

Explanation
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HHC02510E

HHC02510E is not yet documented

Explanation

Severity

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HHC02511E

HHC02511E is not yet documented

Explanation

Severity

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HHC02512E

HHC02512E is not yet documented

Explanation

Severity

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HHC02513E
HHC02513E is not yet documented
Explanation
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Severity
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HHC02514E
HHC02514E is not yet documented
Explanation
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Severity
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HHC02515E
HHC02515E is not yet documented
Explanation
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Severity
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HHC02516E

HHC02516E is not yet documented

Explanation
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Severity
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HHC02517E

HHC02517E is not yet documented

Explanation
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Severity
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HHC02518E

HHC02518E is not yet documented

Explanation
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Severity
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Action
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HHC02519E

HHC02519E is not yet documented
HHC02520I

HHC02520I is not yet documented

Explanation
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Severity
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Action
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HHC02521I

HHC02521I is not yet documented

Explanation
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Severity
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HHC02522I

HHC02522I is not yet documented

Explanation
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HHC02523I

HHC02523I is not yet documented

Explanation

Severity

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HHC02524I

HHC02524I is not yet documented

Explanation

Severity

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HHC02525I

HHC02525I is not yet documented

Explanation

Severity

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HHC02526I

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HHC02528I is not yet documented

Explanation
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HHC02529I

HHC02529I is not yet documented

Explanation
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Severity
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HHC02530E

HHC02530E is not yet documented

Explanation
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Severity
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HHC02531E

HHC02531E is not yet documented

Explanation
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Severity
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Action
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HHC02532E

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HHC02533E

HHC02533E is not yet documented

Explanation
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Severity
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Explanation
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HHC02535E

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HHC02536E

HHC02536E is not yet documented

Explanation

Severity

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HHC02537E

HHC02537E is not yet documented

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HHC02538E

HHC02538E is not yet documented

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HHC02541E

HHC02541E is not yet documented

Explanation
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Severity
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**HHC02542E**

HHC02542E is not yet documented

Explanation
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Severity
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**HHC02543E**

HHC02543E is not yet documented

Explanation
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Severity
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Action
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**HHC02544E**

HHC02544E is not yet documented

Explanation
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Severity
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Action
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**HHC02545E**

HHC02545E is not yet documented
HHC02546E

HHC02546E is not yet documented

Explanation
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Severity
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Action
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HHC02547E

HHC02547E is not yet documented

Explanation
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Severity
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HHC02548E

HHC02548E is not yet documented

Explanation
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HHC02549E
HHC02549E is not yet documented

Explanation
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Severity
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Action
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HHC02550I
HHC02550I is not yet documented

Explanation
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Severity
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Action
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HHC02551I
HHC02551I is not yet documented

Explanation
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Severity
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Action
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<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Explanation</th>
<th>Severity</th>
<th>Action</th>
</tr>
</thead>
<tbody>
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<td>HHC02552I is not yet documented</td>
<td></td>
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<tr>
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<td>HHC02553I is not yet documented</td>
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<tr>
<td>HHC02554I</td>
<td>HHC02554I is not yet documented</td>
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</tbody>
</table>
HHC02555I

HHC02555I is not yet documented

Explanation
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HHC02556I

HHC02556I is not yet documented

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HHC02557I

HHC02557I is not yet documented

Explanation
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Severity
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HHC02558I

HHC02558I is not yet documented
HHC02559E

HHC02559E is not yet documented

Explanation
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Severity
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HHC02560I

HHC02560I is not yet documented

Explanation
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Severity
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HHC02561I

HHC02561I is not yet documented

Explanation
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HHC02562I
HHC02562I is not yet documented

Explanation
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Severity
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HHC02563I
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Explanation
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HHC02564I
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Explanation
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Explanation
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HHC02566I is not yet documented

Explanation
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HHC02567I

HHC02567I is not yet documented

Explanation
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Severity
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HHC02568I

HHC02568I is not yet documented

Explanation
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Severity
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HHC02569E

HHC02569E is not yet documented

Explanation
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Severity
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HHC02570E

HHC02570E is not yet documented

Explanation
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Severity
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HHC02571E

HHC02571E is not yet documented


HHC02572W

HHC02572W is not yet documented

Explanation
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Severity
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HHC02573E

HHC02573E is not yet documented

Explanation
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Severity
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Action
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HHC02574E

HHC02574E is not yet documented

Explanation
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HHC02575E

HHC02575E is not yet documented

Explanation
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Severity
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HHC02576E

HHC02576E is not yet documented

Explanation
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Severity
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HHC02577E

HHC02577E is not yet documented

Explanation
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Severity
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HHC02578E

HHC02578E is not yet documented

Explanation

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Severity

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HHC02579E

HHC02579E is not yet documented

Explanation

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Severity

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Explanation

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HHC02581E

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Explanation
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HHC02582E

HHC02582E is not yet documented

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Severity
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HHC02583E

HHC02583E is not yet documented

Explanation
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Severity
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HHC02584E

HHC02584E is not yet documented
**HHC02585E**

HHC02585E is not yet documented

Explanation...

Severity...

Action...

**HHC02586E**

HHC02586E is not yet documented

Explanation...

Severity...

Action...

**HHC02587E**

HHC02587E is not yet documented

Explanation...

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HHC02588E
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Explanation
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Severity
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HHC02589I
HHC02589I is not yet documented
Explanation
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Severity
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HHC02590W
HHC02590W is not yet documented
Explanation
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Severity
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HHC02591I

HHC02591I is not yet documented

Explanation
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Severity
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HHC02592I

HHC02592I is not yet documented

Explanation
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Severity
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Action
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HHC02593E

HHC02593E is not yet documented

Explanation
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Severity
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Action
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32. Messages HHC02600s – HHC02699s (Various Utilities)

HHC02600I

HHC02600I is not yet documented

Explanation
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Severity
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Action
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HHC02601I

HHC02601I is not yet documented

Explanation
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Severity
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Action
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HHC02602E

HHC02602E is not yet documented

Explanation
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Severity
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Action
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HHC02603E

HHC02603E is not yet documented

Explanation
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Severity
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Action
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HHC02604E

HHC02604E is not yet documented

Explanation
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Severity
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Action
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HHC02605I

HHC02605I is not yet documented

Explanation
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Severity
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Action
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HHC02606I

HHC02606I is not yet documented
HHC02607I

HHC02607I is not yet documented

Explanation
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Severity
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Action
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HHC02608I

HHC02608I is not yet documented

Explanation
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Severity
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Action
...
33. Messages HHC02700s – HHC02799s
(Tape Utilities)

HHC02700I

HHC02700I is not yet documented

Explanation
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Severity
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Action
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HHC02701E

HHC02701E is not yet documented

Explanation
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Severity
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Action
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HHC02702I

HHC02702I is not yet documented

Explanation
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Severity
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Action
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**HHC02703E**

HHC02703E is not yet documented

Explanation
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Severity
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Action
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**HHC02704I**

HHC02704I is not yet documented

Explanation
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Severity
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Action
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**HHC02705E**

HHC02705E is not yet documented

Explanation
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Severity
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Action
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**HHC02706I**

HHC02706I is not yet documented
HHC02707E

HHC02707E is not yet documented

Explanation
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Severity
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Action
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HHC02708E

HHC02708E is not yet documented

Explanation
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Severity
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Action
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HHC02709E

HHC02709E is not yet documented

Explanation
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HHC02710E
HHC02710E is not yet documented
Explanation
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Severity
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Action
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HHC02711E
HHC02711E is not yet documented
Explanation
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Severity
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Action
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HHC02712E
HHC02712E is not yet documented
Explanation
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Severity
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Action
HHC02713E

HHC02713E is not yet documented

Explanation
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Severity
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Action
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HHC02714E

HHC02714E is not yet documented

Explanation
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Severity
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Action
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HHC02715E

HHC02715E is not yet documented

Explanation
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Severity
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Action
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HHC02716E

HHC02716E is not yet documented

Explanation
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Severity
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Action
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HHC02717E

HHC02717E is not yet documented

Explanation
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Severity
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Action
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HHC02718I

HHC02718I is not yet documented

Explanation
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Severity
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Action
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HHC02719I

HHC02719I is not yet documented
HHC02720E

HHC02720E is not yet documented

Explanation
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Severity
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Action
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HHC02721I

HHC02721I is not yet documented

Explanation
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Severity
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Action
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HHC02722I

HHC02722I is not yet documented

Explanation
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HHC02723I

HHC02723I is not yet documented

Explanation
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Severity
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Action
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HHC02724I

HHC02724I is not yet documented

Explanation
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Severity
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Action
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HHC02725I

HHC02725I is not yet documented

Explanation
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Severity
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Action
HHC02726I

HHC02726I is not yet documented

Explanation
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Severity
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Action
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HHC02728I

HHC02728I is not yet documented

Explanation
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Severity
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Action
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HHC02729I

HHC02729I is not yet documented

Explanation
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Severity
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Action
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HHC02730I

HHC02730I is not yet documented

Explanation
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Severity
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Action
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HHC02740I

HHC02740I is not yet documented

Explanation
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Severity
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Action
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HHC02741E

HHC02741E is not yet documented

Explanation
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Severity
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Action
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HHC02742E

HHC02742E is not yet documented
HHC02743E

HHC02743E is not yet documented

Explanation
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Severity
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Action
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HHC02744I

HHC02744I is not yet documented

Explanation
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Severity
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Action
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HHC02745I

HHC02745I is not yet documented

Explanation
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HHC02750E

HHC02750E is not yet documented

Explanation
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Severity
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Action
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HHC02751I

HHC02751I is not yet documented

Explanation
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Severity
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Action
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HHC02752I

HHC02752I is not yet documented

Explanation
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Severity
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Action
HHC02753E

HHC02753E is not yet documented

Explanation

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Severity

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Action

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HHC02754E

HHC02754E is not yet documented

Explanation

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Severity

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Action

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HHC02755I

HHC02755I is not yet documented

Explanation

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Severity

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Action

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HHC02756E

HHC02756E is not yet documented

Explanation
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Severity
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Action
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HHC02757I

HHC02757I is not yet documented

Explanation
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Severity
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Action
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34. Messages HHC02800s – HHC02899s
   (Tape Utilities)

HHC02800I

HHC02800I is not yet documented

Explanation
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Severity
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Action
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HHC02801E

HHC02801E is not yet documented

Explanation
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Severity
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Action
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HHC02802I

HHC02802I is not yet documented

Explanation
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Severity
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Action
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HHC02803I

HHC02803I is not yet documented

Explanation
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Severity
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Action
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HHC02804E

HHC02804E is not yet documented

Explanation
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Severity
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Action
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HHC02805I

HHC02805I is not yet documented

Explanation
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Severity
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Action
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HHC02806I

HHC02806I is not yet documented
Explanation
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Severity
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Action
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35. Messages HHC03900s – HHC03999s
(PTP Adapter Emulation)

HHC03901E

HHC03901E is not yet documented

Explanation
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Severity
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Action
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HHC03902E

HHC03902E is not yet documented

Explanation
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Severity
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Action
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HHC03903I

HHC03903I is not yet documented

Explanation
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Severity
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Action
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HHC03904I

HHC03904I is not yet documented

Explanation
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Severity
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Action
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HHC03905I

HHC03905I is not yet documented

Explanation
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Severity
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Action
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HHC03906I

HHC03906I is not yet documented

Explanation
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Severity
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Action
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HHC03907I

HHC03907I is not yet documented
HHC03908I

HHC03908I is not yet documented

Explanation
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Severity
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Action
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HHC03909I

HHC03909I is not yet documented

Explanation
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Severity
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Action
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HHC03910I

HHC03910I is not yet documented

Explanation
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HHC03911I

HHC03911I is not yet documented

Explanation

Severity

Action

HHC03912E

HHC03912E is not yet documented

Explanation

Severity

Action

HHC03913W

HHC03913W is not yet documented

Explanation

Severity

Action
HHC03914W

HHC03914W is not yet documented

Explanation
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Severity
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Action
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HHC03915I

HHC03915I is not yet documented

Explanation
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Severity
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Action
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HHC03916I

HHC03916I is not yet documented

Explanation
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Severity
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Action
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HHC03917W

HHC03917W is not yet documented

Explanation
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Severity
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Action
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HHC03918W

HHC03918W is not yet documented

Explanation
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Severity
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Action
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HHC03921W

HHC03921W is not yet documented

Explanation
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Severity
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Action
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HHC03922W

HHC03922W is not yet documented
HHC03923W

HHC03923W is not yet documented

Explanation
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Severity
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Action
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HHC03924W

HHC03924W is not yet documented

Explanation
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Severity
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Action
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HHC03931W

HHC03931W is not yet documented

Explanation
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HHC03932W

HHC03932W is not yet documented

Explanation

Severity

Action

HHC03933W

HHC03933W is not yet documented

Explanation

Severity

Action

HHC03934W

HHC03934W is not yet documented

Explanation

Severity

Action
HHC03935W

HHC03935W is not yet documented

Explanation
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Severity
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Action
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HHC03936W

HHC03936W is not yet documented

Explanation
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Severity
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Action
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HHC03937W

HHC03937W is not yet documented

Explanation
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Severity
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Action
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HHC03952I

HHC03952I is not yet documented

Explanation
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Severity
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Action
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HHC03953I

HHC03953I is not yet documented

Explanation
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Severity
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Action
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HHC03954I

HHC03954I is not yet documented

Explanation
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Severity
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Action
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HHC03983I

HHC03983I is not yet documented
HHC03984I

HHC03984I is not yet documented

Explanation
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Severity
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Action
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HHC03985E

HHC03985E is not yet documented

Explanation
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Severity
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Action
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HHC03991I

HHC03991I is not yet documented

Explanation
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HHC03992D

HHC03992D is not yet documented

Explanation
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Severity
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Action
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HHC03993D

HHC03993D is not yet documented

Explanation
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Severity
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Action
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HHC03995D

HHC03995D is not yet documented

Explanation
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Severity
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Action

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36. Messages HHC04100s – HHC04199s
(Windows Specific Components)

**HHC04100I**

HHC04100I is not yet documented

Explanation
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Severity
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Action
...

**HHC04101I**

HHC04101I is not yet documented

Explanation
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Severity
...

Action
...

**HHC04102E**

HHC04102E is not yet documented

Explanation
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Severity
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Action
...
HHC04110W

HHC04110W is not yet documented

Explanation
...

Severity
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Action
...

HHC04111E

HHC04111E is not yet documented

Explanation
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Severity
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Action
...

HHC04112S

HHC04112S is not yet documented

Explanation
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Severity
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Action
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37. Messages HHC17000s – HHC17099s  
(_QUERY_Commands)  

HHC17000E  

HHC17000E is not yet documented  

Explanation  
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Severity  
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Action  
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HHC17001I  

HHC17001I is not yet documented  

Explanation  
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Severity  
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Action  
...  

HHC17002I  

HHC17002I is not yet documented  

Explanation  
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Severity  
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Action  
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HHC17003I
HHC17003I is not yet documented

Explanation
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Severity
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Action
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HHC17004I
HHC17004I is not yet documented

Explanation
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Severity
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Action
...

HHC17005I
HHC17005I is not yet documented

Explanation
...

Severity
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Action
...

HHC17007I
HHC17007I is not yet documented
HHC17008I

HHC17008I is not yet documented

Explanation
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Severity
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Action
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HHC17009I

HHC17009I is not yet documented

Explanation
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Severity
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Action
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HHC17010I

HHC17010I is not yet documented

Explanation
...
HHC17011I

HHC17011I is not yet documented

Explanation
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Severity
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Action
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HHC17012I

HHC17012I is not yet documented

Explanation
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Severity
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Action
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HHC17013I

HHC17013I is not yet documented

Explanation
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Severity
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Action
38. Messages HHC17500s – HHC17599s (REXX Support)

HHC17500I

HHC17500l is not yet documented

Explanation
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Severity
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Action
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HHC17501I

HHC17501I is not yet documented

Explanation
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Severity
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Action
...

HHC17502E

HHC17502E is not yet documented

Explanation
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Severity
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Action
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HHC17503E

HHC17503E is not yet documented

Explanation
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Severity
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Action
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HHC17504E

HHC17504E is not yet documented

Explanation
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Severity
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Action
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HHC17505E

HHC17505E is not yet documented

Explanation
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Severity
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Action
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HHC17506E

HHC17506E is not yet documented
**HHC17507W**

HHC17507W is not yet documented

Explanation
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Severity
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Action
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**HHC17508W**

HHC17508W is not yet documented

Explanation
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Severity
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Action
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**HHC17509W**

HHC17509W is not yet documented

Explanation
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HHC17510W

HHC17510W is not yet documented

Explanation

Severity

Action

HHC17521I

HHC17521I is not yet documented

Explanation

Severity

Action

HHC17522I

HHC17522I is not yet documented

Explanation

Severity

Action
HHC17523I

HHC17523I is not yet documented

Explanation
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Severity
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Action
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HHC17524I

HHC17524I is not yet documented

Explanation
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Severity
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Action
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HHC17525I

HHC17525I is not yet documented

Explanation
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Severity
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Action
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HHC17526I

HHC17521I is not yet documented

Explanation
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Severity
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Action
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HHC17527I

HHC17527I is not yet documented

Explanation
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Severity
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Action
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HHC17530E

HHC17530E is not yet documented

Explanation
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Severity
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Action
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HHC17531E

HHC17531E is not yet documented
HHC17532E

HHC17532E is not yet documented

Explanation ...

Severity ...

Action ...

HHC17533E

HHC17533E is not yet documented

Explanation ...

Severity ...

Action ...

HHC17534E

HHC17534E is not yet documented

Explanation ...

Severity ...

Action ...
Severity
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Action
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39. Messages HHC90000s – HHC90099s
(Debug Messages PTTRACE)

HHC90000D

HHC90000D is not yet documented

Explanation
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Severity
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Action
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HHC90010E

HHC90010E is not yet documented

Explanation
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Severity
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Action
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HHC90011E

HHC90011E is not yet documented

Explanation
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Severity
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Action
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**HHC90012I**

HHC90012I is not yet documented

Explanation
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Severity
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Action
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**HHC90013E**

HHC90012I is not yet documented

Explanation
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Severity
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Action
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**HHC90014I**

HHC90012I is not yet documented

Explanation
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Severity
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Action
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**HHC90015E**

HHC90012I is not yet documented
HHC90016E

HHC90012I is not yet documented

Explanation
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Severity
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Action
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HHC90017I

HHC90012I is not yet documented

Explanation
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Severity
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Action
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HHC90018I

HHC90012I is not yet documented

Explanation
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HHC90019W

HHC90012I is not yet documented

Explanation

Severity

Action
40. Messages HHC90100s – HHC90199s
(Dump Messages DYNCRYPT)

HHC90100D

HHC90100D is not yet documented

Explanation
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Severity
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Action
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HHC90101D

HHC90101D is not yet documented

Explanation
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Severity
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Action
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HHC90102D

HHC90102D is not yet documented

Explanation
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Severity
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HHC90103D
HHC90103D is not yet documented
Explanation
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Severity
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HHC90104D
HHC90104D is not yet documented
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Severity
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HHC90105D
HHC90105D is not yet documented
Explanation
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Severity
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HHC90106D
HHC90106D is not yet documented
HHC90107D
HHC90107D is not yet documented
Explanation
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Severity
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HHC90108D
HHC90108D is not yet documented
Explanation
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Severity
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HHC90109D
HHC90109D is not yet documented
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Severity
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HHC90110D

HHC90110D is not yet documented

Explanation
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Severity
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Action
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HHC90111D

HHC90111D is not yet documented

Explanation
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Severity
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Action
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HHC90112D

HHC90112D is not yet documented

Explanation
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Severity
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Action
HHC90190D

HHC90190D is not yet documented

Explanation

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Severity

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Action

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41. Messages HHC90200s – HHC90299s (Debug Messages SCSITAPE)

HHC90205D

HHC90205D is not yet documented

Explanation
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Severity
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Action
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42. Messages HHC90300s – HHC90399s
(Debug Messages CMPSC)

HHC90300D

HHC90300D is not yet documented

Explanation
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Severity
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Action
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HHC90301D

HHC90301D is not yet documented

Explanation
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Severity
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Action
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HHC90302D

HHC90302D is not yet documented

Explanation
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Severity
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Action
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HHC90303D

HHC90303D is not yet documented

Explanation
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Severity
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Action
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HHC90304D

HHC90304D is not yet documented

Explanation
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Severity
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HHC90305D

HHC90305D is not yet documented

Explanation
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Severity
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HHC90306D

HHC90306D is not yet documented
Explanation
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Severity
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HHC90307D

HHC90307D is not yet documented

Explanation
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Severity
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HHC90308D

HHC90308D is not yet documented

Explanation
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Severity
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HHC90309D

HHC90309D is not yet documented

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HHC90310D
HHC90310D is not yet documented
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HHC90311D
HHC90311D is not yet documented
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HHC90314D

HHC90314D is not yet documented

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HHC90315D

HHC90315D is not yet documented

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HHC90316D
HHC90316D is not yet documented
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Severity
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HHC90317D is not yet documented
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Severity
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HHC90318D
HHC90318D is not yet documented
Explanation
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Severity
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Action
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HHC90319D
HHC90319D is not yet documented
**HHC90320D**

HHC90320D is not yet documented

**Explanation**

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**Severity**

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**Action**

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**HHC90321D**

HHC90321D is not yet documented

**Explanation**

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**Severity**

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**Action**

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**HHC90322D**

HHC90322D is not yet documented

**Explanation**

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HHC90323D

HHC90323D is not yet documented

Explanation...

Severity...

Action...

HHC90324D

HHC90324D is not yet documented

Explanation...

Severity...

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HHC90325D

HHC90325D is not yet documented

Explanation...

Severity...

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HHC90326D

HHC90326D is not yet documented

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HHC90327D

HHC90327D is not yet documented

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Severity
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HHC90328D

HHC90328D is not yet documented

Explanation
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HHC90329D

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Explanation ...

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HHC90330D

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HHC90331D

HHC90331D is not yet documented

Explanation ...

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HHC90332D

HHC90332D is not yet documented
HHC90333D

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HHC90334D

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HHC90335D

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HHC90336D
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HHC90337D
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HHC90338D
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Explanation
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Severity
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<th>Explanation</th>
<th>Severity</th>
<th>Action</th>
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<tr>
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HHC90342D

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HHC90344D

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HHC90351D
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HHC90352D
HHC90352D is not yet documented
HHC90353D
HHC90353D is not yet documented
Explanation
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HHC90354D
HHC90354D is not yet documented
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HHC90355D
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HHC90356D

HHC90356D is not yet documented

Explanation
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Severity
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Action
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HHC90357D

HHC90357D is not yet documented

Explanation
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Severity
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Action
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HHC90358D

HHC90358D is not yet documented

Explanation
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Severity
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Action
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HHC90359D

HHC90359D is not yet documented
HHC90360D

HHC90360D is not yet documented

Explanation
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Severity
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Action
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HHC90361D

HHC90361D is not yet documented

Explanation
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Severity
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Action
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HHC90362D

HHC90362D is not yet documented

Explanation
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HHC90363D

HHC90363D is not yet documented

Explanation
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Severity
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Action
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HHC90364D

HHC90364D is not yet documented

Explanation
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Severity
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Action
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43. Messages HHCAOnnns - Hercules Automatic Operator

HHCAOnnns

Messages HHCAOnnns are not yet documented.
44. Messages HHCCAnns - Communication Adapter Emulation

HHCCA001I

HHCCA001I CCUU: Connect out to ipaddr:port failed during initial status: System Cause Text

Explanation
Hercules attempted to make an outgoing TCP connection to ipaddr:port but the system indicated that there was an error while processing the request.

System Action
The DIAL or ENABLE CCW that caused the connection attempt ends with Unit Check and Intervention Required. The reason for the failure is indicated in the System Cause Text field.

Operator Action
None. This is an informational message.

Programmer Action
Correct the RHOST/RPORT configuration statements in the configuration file. If this message occurred during a program initiated DIAL, correct the dial data.

HHCCA002I

HHCCA002I CCUU: Line Communication thread thread id started

Explanation
The thread responsible for asynchronous operations for the BSC emulated line CCUU has been started.

System Action
The system continues.

Operator Action
None. This is an informational message.

Programmer Action
None. This is an informational message.

HHCCA003E

HHCCA003E CCUU: Cannot obtain socket for incoming calls: System Cause Text

Explanation
A system error occurred while attempting to create a socket to listen for incoming calls.

System Action
The device creation is aborted.
Operator Action
None.

Programmer Action
Check the System Cause Text for any information relating to the host system. Notify support.

---

**HHCCA004W**

**HHCCA004W CCUU:** Waiting 5 seconds for port *port* to become available

**Explanation**
While attempting to reserve port *port* to listen to, the system indicated the port was already being used.

**System Action**
The system waits 5 seconds and then retries the operation.

**Operator Action**
Terminate the device if the port is in error.

**Programmer Action**
Determine the program holding the specified port. If the port cannot be made available, use a different port.

---

**HHCCA005I**

**HHCCA005I CCUU:** Listening on port *port* for incoming TCP connections

**Explanation**
The system is now listening on port *port* for incoming a tcp connection.

**System Action**
The system continues.

**Operator Action**
None. This is an informational message.

**Programmer Action**
None. This is an informational message.

---

**HHCCA006T**

**HHCCA006T CCUU:** Select failed : System Cause Text

**Explanation**
An error occurred during a 'select' system call.

**System Action**
The BSC thread is terminated.

**Operator Action**
None.
HHCCA007W

HHCCA007W CCUU: Outgoing call failed during ENABLE|DIAL command: System Cause Text

Explanation
The system reported that a previously initiated TCP connection could not be completed.

System Action
The I/O operation responsible for the TCP outgoing connection is ended with Unit Check and Intervention Required.

Operator Action
If the error indicates that the error is temporary, retry the operation.

Programmer Action
Check that the destination for this line is correctly configured. If the operation was a DIAL attempt, check in the application configuration or operation data.

HHCCA008I

HHCCA008I CCUU: cthread - Incoming Call

Explanation
The BSC thread has received an incoming call.

System Action
Depending on configuration and operational status, the call is either accepted or rejected. Eventually an ongoing I/O operation may complete.

Operator Action
None. This is an informational message.

Programmer Action
None. This is an informational message.

HHCCA009I

HHCCA009I CCUU: BSC utility thread terminated

Explanation
The BSC thread has ended.

System Action
The system continues.

Operator Action
Refer to any previous error message to determine if this message was not unexpected.
Programmer Action
Refer to any previous error message to determine if this message was not unexpected.

HHCCA010I

HHCCA010I CCUU: initialization not performed

Explanation
The Device initialization process has failed.

System Action
The system terminates or continues, depending on the reason for which the device was initialization was initiated.

Operator Action
Refer to any previous error message.

Programmer Action
Refer to any previous error message.

HHCCA011E

HHCCA011E CCUU: Error parsing Keyword

Explanation
The device keyword parser found an error while parsing a known keyword.

System Action
The system continues. The device initialization routine turns on a NOGO flag.

Operator Action
For a runtime initialization, correct the device initialization parameters, otherwise notify the programmer.

Programmer Action
For an engine initialization, correct the device configuration parameters in the configuration file.

HHCCA012E

HHCCA012E CCUU: Unrecognized parameter Keyword

Explanation
The device keyword parser found an unknown keyword in the device parameter list.

System Action
The system continues. The device initialization routine turns on a NOGO flag.

Operator Action
For a runtime initialization, correct the device initialization parameters, otherwise notify the programmer.

Programmer Action
For an engine initialization, correct the device configuration parameters in the configuration file.
**HHCCA013E**

**HHCCA013E CCUU:** Incorrect local port|remote port|local host|remote host specification value

**Explanation**
The device initialization routine could not correctly parse a parameter value.

**System Action**
The system continues. The device initialization routine turns on a NOGO flag.

**Operator Action**
For a runtime initialization, correct the device initialization parameters, otherwise notify the programmer.

**Programmer Action**
For an engine initialization, correct the device configuration parameters in the configuration file.

**HHCCA014E**

**HHCCA014E CCUU:** Incorrect switched/dial specification value; defaulting to DIAL=OUT

**Explanation**
The device initialization routine found an incorrect DIAL value.

**System Action**
The system continues. The device initialization routine turns on a NOGO flag.

**Operator Action**
For a runtime initialization, correct the device initialization parameters, otherwise notify the programmer.

**Programmer Action**
For an engine initialization, correct the device configuration parameters in the configuration file.

**HHCCA015E**

**HHCCA015E CCUU:** Missing parameter : DIAL=NO|IN|OUT|INOUT and LPORT|RPORT|LHOST|RHOST not specified

**Explanation**
The device initialization routine found that a mandatory parameter was not provided for a specific DIAL Value.

**System Action**
The system continues. The device initialization routine turns on a NOGO flag.

**Operator Action**
For a runtime initialization, correct the device initialization parameters, otherwise notify the programmer.

**Programmer Action**
For an engine initialization, correct the device configuration parameters in the configuration file.

**Note**
For DIAL=NO, LPORT, RPORT and RHOST are needed
For DIAL=IN, LPORT is required
For DIAL=OUT None of LPORT,LHOST,RPORT,RHOST are required
For DIAL=INOUT, LPORT is required

**HHCCA016W**

**HHCCA016W CCUU:** Conflicting parameter: DIAL=NO|IN|OUT|INOUT and LPORT|RPORT|LHOST|RHOST=value specified

**Explanation**
The device initialization routine found that a parameter was provided for a parameter that is not relevant for a specific DIAL value.

**System Action**
The parameter is ignored. The system continues.

**Operator Action**
For a runtime initialization, correct the device initialization parameters, otherwise notify the programmer.

**Programmer Action**
For an engine initialization, correct the device configuration parameters in the configuration file.

**Note**
For DIAL=IN, RPORT and RHOST are ignored
For DIAL=OUT, LPORT, LHOST, RPORT and RHOST are ignored
For DIAL=INOUT, RPORT and RHOST are ignored

**HHCCA017I**

**HHCCA017I CCUU:** LPORT|RPORT|LHOST|RHOST parameter ignored

**Explanation**
The system indicates that the parameter specified is ignored. This message is preceded by message HHCCA016W.

**System Action**
The system continues.

**Operator Action**
None. This is an informational message.

**Programmer Action**
None. This is an informational message.

**HHCCA018E**

**HHCCA018E CCUU:** Bind failed: System Cause Text

**Explanation**
While attempting to bind a socket to a specific host/port, the host system returned an uncorrectable error.

**System Action**
BSC Thread terminates.
Operator Action
None.

Programmer Action
Check that the LHOST parameter for this device is indeed a local IP address, otherwise notify support.

HHCCA019E

HHCCA019E CCUU:BSC comm thread did not initialise

Explanation
The BSC communication thread reported that it terminated while the device was initialising.

System Action
The device is not initialised.

Operator Action
Check for any previously issued error message.

Programmer Action
Check for any previously issued error message.

HHCCA020E

HHCCA020E CCUU:Memory allocation failure for main control block

Explanation
A memory allocation failure occurred, while attempting to reserve memory for the Communication Adapter control block.

System Action
The device is not initialised.

Operator Action
None.

Programmer Action
Contact support.

HHCCA021I

HHCCA021I CCUU:Initialization failed due to previous errors

Explanation
The initialization process for device CCUU did not complete successfully.

System Action
The device is not initialised.

Operator Action
None.
HHCCA300D

HHCCA300D Debug Message

Explanation
This is a debug message. CCW Tracing has been turned on for this device and the Line Handler issues debug messages to help diagnose interface, conformance and protocol issues.

System Action
The system continues.

Operator Action
If the debug messages are no longer necessary, turn off CCW tracing (panel command : 't-CCUU').

Programmer Action
None.
45. Messages HHCCFnnns - Configuration File Processing

HHCCF001S

HHCCF001S Error reading file \textit{filename} line \textit{lineno}: \textit{error}

Explanation
An error was encountered reading the configuration file named \textit{filename} at line number \textit{lineno}. The error is described by \textit{error}.

Action
Correct the error and restart Hercules.

HHCCF002S

HHCCF002S File \textit{filename} line \textit{lineno} is too long

Explanation
The line at line number \textit{lineno} in the configuration file \textit{filename} is too long and cannot be processed.

Action
Correct the line and restart Hercules.

HHCCF003S

HHCCF003S Cannot open file \textit{filename}: \textit{error}

Explanation
The configuration file named \textit{filename} could not be opened. The error is described by \textit{error}.

Action
Correct the error and restart Hercules.

HHCCF004S

HHCCF004S No device records in file \textit{filename}

Explanation
The configuration file named \textit{filename} does not contain any device definition records. Without these, Hercules cannot do any meaningful work.

Action
Specify one or more device definitions in the configuration file and restart Hercules.
HHCCF005S

HHCCF005S Unrecognized argument argument

Explanation
An invalid argument, argument, was specified on the HTTPPORT configuration statement in the file named filename at line number lineno. Only the arguments auth and noauth are valid.

Action
Correct the invalid argument and restart Hercules.

HHCCF006S

HHCCF006S Error in filename line lineno: Userid, but no password given userid

Explanation
A userid, userid, was specified on the HTTPPORT configuration statement in the file named filename at line number lineno, but no password was provided. A password is required if a userid is present.

Action
Either remove the userid, or specify a password, and restart Hercules.

HHCCF007S

HHCCF007S Error in filename line lineno: Missing argument

Explanation
The HTTPROOT configuration statement was specified in the file named filename at line number lineno, but no directory was specified. A directory is required.

Action
Specify the directory where the Hercules web server will find its HTML files and restart Hercules.

HHCCF008E

HHCCF008E Error in filename line lineno: Unrecognized keyword keyword

Explanation
An invalid configuration statement was specified in the file named filename at line number lineno. The invalid keyword was keyword.

Action
Correct the invalid statement and restart Hercules.
HHCCF009S

HHCCF009S Error in filename line lineno: Incorrect number of operands

Explanation
The configuration statement at line lineno of the file named filename had an invalid number of operands. For all but the HTTPPORT statement exactly one operand is required.

Action
Correct the invalid statement and restart Hercules.

HHCCF010S

HHCCF010S Error in filename line lineno: Unknown or unsupported ARCHMODE specification mode

Explanation
The ARCHMODE configuration statement at line lineno of the file named filename specified an invalid architecture. Only S/370, ESA/390, or ESAME are valid. If one of these was specified, then support for that architecture was excluded when the copy of Hercules in use was compiled.

Action
Correct the specified value and restart Hercules. If the message was issued because support for the desired architecture was excluded, then recompile Hercules.

HHCCF011S

HHCCF011S Error in filename line lineno: serialno is not a valid serial number

Explanation
The serial number serialno specified on the CPUSERIAL configuration statement at line number lineno of the file named filename must be exactly six digits long and must be a valid hexadecimal number.

Action
Correct the serial number and restart Hercules.

HHCCF012S

HHCCF012S Error in filename line lineno: modelno is not a valid CPU model

Explanation
The model number modelno specified on the CPUMODEL configuration statement at line number lineno of the file named filename must be exactly four digits long, and must be a valid hexadecimal number.

Action
Correct the model number and restart Hercules.
HHCCF013S

HHCCF013S Error in *filename* line *lineno*: Invalid main storage size *size*

Explanation
The main storage size *size* specified on the MAINSIZE configuration statement at line number *lineno* of the file named *filename* must be a valid decimal number whose value is at least 2. For 32-bit platforms the value must not exceed 4095.

Action
Correct the main storage size and restart Hercules.

HHCCF014S

HHCCF014S Error in *filename* line *lineno*: Invalid expanded storage size *size*

Explanation
The expanded storage size *size* specified on the XPNDSIZE configuration statement at line number *lineno* of the file named *filename* must be a valid decimal number between 0 and 16777215.

Action
Correct the expanded storage size and restart Hercules.

HHCCF015S

HHCCF015S Error in *filename* line *lineno*: Invalid console port number *port*

Explanation
The console port number *port* specified on the CNSLPORT configuration statement at line number *lineno* of the file named *filename* must be a valid nonzero decimal number.

Action
Correct the console port number and restart Hercules.

HHCCF016S

HHCCF016S Error in *filename* line *lineno*: Invalid *threadname* thread priority *priority*

Explanation
The thread priority *priority* specified on the xxxPRIO configuration statement at line number *lineno* of the file named *filename* must be a valid decimal number.

Action
Correct the priority on the statement and restart Hercules.
HHCCF017W

HHCCF017W Hercules is not running as setuid root, cannot raise threadname priority

Explanation
A negative value for the threadname thread priority parameter xxxPRIO was specified but Hercules is not running as the root user (either directly or via the setuid mechanism). This parameter value would cause the priority of the CPU execution thread to be raised above the normal level if Hercules were running as root. Since it is not, however, the parameter will have no effect.

Action
Either specify a positive value to lower the CPU thread priority, zero to not alter the priority, or omit the statement entirely to use the Hercules default CPU thread priority of 15.

HHCCF018S

HHCCF018S Error in filename line lineno: Invalid number of CPUs number

Explanation
The number of emulated CPUs number specified on the NUMCPU configuration statement at line number lineno of the file named filename must be a valid decimal number between 1 and the maximum number defined when Hercules was built (usually 2; this number is never more than 2 for S/370 mode, or 16 for ESA/390 or ESAME mode).

Action
Correct the number of emulated CPUs and restart Hercules.

HHCCF019S

HHCCF019S Error in filename line lineno: Invalid number of VFs number

Explanation
The number of emulated Vector Facility engines number specified on the NUMVEC configuration statement at line number lineno of the file named filename must be a valid decimal number between 1 and the maximum number defined when Hercules was built (usually 2).

Action
Correct the number of emulated Vector Facility engines and restart Hercules.

HHCCF020W

HHCCF020W Vector Facility support not configured

Explanation
A request for Vector Facility support was made by the NUMVEC configuration statement, but Hercules was built without the Vector Facility code. The request has been ignored.
Action
If Vector Facility support is desired, recompile Hercules. If not, remove the NUMVEC configuration statement.

HHCCF021S
HHCCF021S Error in filename line lineno: Invalid maximum number of CPUs number

Explanation
The maximum number of emulated CPUs number specified on the MAXCPU configuration statement at line number lineno of the file named filename must be a valid decimal number. It must not exceed the maximum number (MAX_CPU_ENGINES) defined when Hercules was built.

Action
Correct the MAXCPU parameter and restart Hercules.

HHCCF022S
HHCCF022S Error in filename line lineno: epoch is not a valid system epoch

Explanation
The system epoch epoch specified on the SYSEPOCH configuration statement at line number lineno of the file named filename must be one of the following: 1900, 1928, 1960, 1988, or 1970.

Action
Correct the system epoch and restart Hercules. If a different epoch is desired, a change must be made to the Hercules source file config.c and Hercules rebuilt.

HHCCF023S
HHCCF023S Error in filename line lineno: offset is not a valid timezone offset

Explanation
The system timezone offset offset specified on the TZOFFSET configuration statement at line number lineno of the file named filename must be five characters long and a valid decimal number of the form (+|-)number, where number must be between zero and 2359 (representing 23 hours, 59 minutes).

Action
Correct the time zone offset and restart Hercules.

HHCCF024S
HHCCF024S Error in filename line lineno: Invalid TOD clock drag factor drag

Explanation
The TOD clock drag factor drag specified on the TODDRAG configuration statement at line number lineno of the file named filename must be a valid decimal number between 1 and 10000.

Action
Correct the TOD clock drag factor and restart Hercules.
HHCCF025S

HHCCF025S Error in filename line lineno: Invalid panel refresh rate rate

Explanation
The control panel refresh rate rate specified on the PANRATE configuration statement at line number lineno of the file named filename must be either F, S, or a valid decimal number between 1 and 5000.

Action
Correct the control panel refresh rate and restart Hercules.

HHCCF026S

HHCCF026S Error in filename line lineno: Unknown OS tailor specification tailor

Explanation
The OS tailoring value tailor specified on the OSTAILOR configuration statement at line number lineno of the file named filename must be either OS/390, VSE, VM, LINUX, NULL, or QUIET.

Action
Correct the OS tailoring value and restart Hercules.

HHCCF027S

HHCCF027S Error in filename line lineno: Invalid maximum device threads threads

Explanation
The maximum device threads threads specified on the DEVTMAX configuration statement at line number lineno of the file named filename must be a valid decimal number greater than -1.

Action
Correct the maximum device threads and restart Hercules.

HHCCF028S

HHCCF028S Invalid program product OS permission permission

Explanation
The program product OS permission permission specified on the PGMPRDOS configuration statement must be either LICENSED or RESTRICTED. The alternative spelling LICENCED is also accepted.

Action
Correct the program product OS permission and restart Hercules.
HHCCF029S

HHCCF029S Invalid HTTP port number *port*

Explanation
The HTTP server port number *port* specified on the HTTPPORT configuration statement must be either 80, or a valid decimal number greater than 1024.

Action
Correct the HTTP server port number and restart Hercules.

HHCCF030S

HHCCF030S Error in *filename* line *lineno*: Invalid I/O delay value *delay*

Explanation
The I/O delay value *delay* specified on the IODELAY configuration statement at line number *lineno* of the file named *filename* must be a valid decimal number.

Action
Correct the I/O delay value and restart Hercules.

HHCCF031S

HHCCF031S Cannot obtain *sizeMB* main storage: *error*

Explanation
An attempt to obtain the amount of main storage specified by MAINSTOR failed for the reason described by *error*.

Action
Correct the error and restart Hercules.

HHCCF032S

HHCCF032S Cannot obtain storage key array: *error*

Explanation
An attempt to obtain storage for the array of storage keys failed for the reason described by *error*.

Action
Correct the error and restart Hercules.
HHCCF033S

HHCCF033S Cannot obtain sizeMB expanded storage: error

Explanation
An attempt to obtain the amount of expanded storage specified by XPNDSTOR failed for the reason described by error.

Action
Correct the error and restart Hercules.

HHCCF034W

HHCCF034W Expanded storage support not installed

Explanation
A request was made for expanded storage by the XPNDSTOR configuration parameter, but Hercules was built without expanded storage support. The request was ignored.

Action
Either remove the XPNDSTOR configuration parameter or recompile Hercules with expanded storage support included.

HHCCF035S

HHCCF035S Error in filename line lineno: Missing device number or device type

Explanation
The I/O device definition statement at line number lineno of the file named filename did not contain a device number or a device type.

Action
Supply the missing value and restart Hercules.

HHCCF036S

HHCCF036S Error in filename line lineno: number is not a valid device number(s) specification

Explanation
The I/O device definition statement at line number lineno of the file named filename specified an invalid device number number. The device number must be one to four hexadecimal digits.

Action
Correct the device number and restart Hercules.
HHCCF037S

HHCCF037S Message pipe creation failed: error

Explanation
An attempt to create a pipe for communication with the control panel failed. The error is described by error.

Action
Correct the error and restart Hercules.

HHCCF038S

HHCCF038S Message pipe open failed: error

Explanation
An attempt to open the pipe for communication with the control panel failed. The error is described by error.

Action
Correct the error and restart Hercules.

HHCCF039W

HHCCF039W PGMPRDOS LICENSED specified. A licensed program product operating systems is running. You are responsible for meeting all conditions of your software license.

Explanation
The configuration parameter PGMPRDOS LICENSED was specified and Hercules has detected that the operating system is a licensed program product. This message is issued to remind you that compliance with the terms of the license for your system's software is your responsibility.

Action
Be sure you know what you are doing.

HHCCF040E

HHCCF040E Cannot create CPU number thread: error

Explanation
An attempt to create a new thread for execution of CPU number failed. The error is described by error. The CPU has not been added to the configuration.

Action
Correct the error and retry the operation.
HHCCF041E

HHCCF041E Device address already exists

Explanation
An attempt was made to define a device at address address. There is already a device at that address.

Action
Either choose another device address or use the detach command to remove the existing device.

HHCCF042E

HHCCF042E Device type type not recognized

Explanation
An attempt was made to define a device of type type. This device type is not supported by Hercules. It may also indicate that the system was unable to load the device handler for the specified device type.

Action
Specify a supported device type. If the device type is supported, make sure the system can load the load modules necessary for device operations. Either use the LD_LIBRARY_PATH environment variable or use ldconfig(8) to customize the library search path.

HHCCF043E

HHCCF043E Cannot obtain device block for device address: error

Explanation
An attempt to allocate memory for the control block describing the device with address address failed. The error is described by error. The device has not been defined.

Action
Correct the error and retry the operation.

HHCCF044E

HHCCF044E Initialization failed for device address

Explanation
The device at address address could not be initialized. The device initialization routine has issued a message describing the problem in further detail; refer to that message for more information.

Action
Correct the error and retry the operation.
HHCCF045E

HHCCF045E Cannot obtain buffer for device address: error

Explanation
An attempt to allocate memory for the data buffer for the device with address address failed. The error is described by error. The device has not been defined.

Action
Correct the error and retry the operation.

HHCCF046E

HHCCF046E Device address does not exist

Explanation
An attempt was made to remove a device at address address. There is no device at that address.

Action
Choose another device address to remove, if desired.

HHCCF047I

HHCCF047I Device address detached

Explanation
The device at address address has been successfully removed from the system.

Action
None. This is an informational message.

HHCCF048E

HHCCF048E Device address does not exist

Explanation
An attempt was made to rename a device at address address. There is no device at that address.

Action
Choose another device address to rename, if desired.

HHCCF049E

HHCCF049E Device address already exists

Explanation
An attempt was made to rename a device to address address. There is already a device at that address.
HHCCF050I

HHCCF050I Device oldaddr defined as newaddr

Explanation
The device which was previously defined with the address oldaddr has been changed to the address newaddr.

Action
None. This is an informational message.

HHCCF051S

HHCCF051S Error in filename line lineno: verid is not a valid CPU version code

Explanation
The version code verid specified on the CPUVERID configuration statement at line number lineno of the file named filename must be exactly two digits long and must be a valid hexadecimal number.

Action
Correct the model number and restart Hercules.

HHCCF052S

HHCCF052S DIAG8CMD invalid option: option

Explanation
The argument option on the DIAG8CMD is invalid. Valid options are enable, disable, echo, and noecho.

Action
Correct the statement and restart Hercules.

HHCCF053E

HHCCF053E Incorrect second device number in device range near character c

Explanation
The second argument of a device range contains an incorrect device number

Action
Correct the statement and restart Hercules.
HHCCF054E

HHCCF054E Incorrect Device count near character c

Explanation
The count field in a device count specification is invalid

Action
Correct the statement and restart Hercules.

HHCCF055E

HHCCF055E Incorrect device address specification near character c

Explanation
The first or only CUU in a device specification statement is invalid

Action
Correct the statement and restart Hercules.

HHCCF056E

HHCCF056E Incorrect device address range. CUU1>CUU2

Explanation
The first device number of a range is greater than the last device number

Action
Correct the statement and restart Hercules.

HHCCF057E

HHCCF057E CUU is on wrong channel (1st device defined on channel CC)

Explanation
At least one of the devices in a device number specification is on a different channel than a previously defined device number within the same specification. All device numbers on a single configuration line must be on a single channel (Group of 256 devices)

Action
Correct the statement and restart Hercules.

HHCCF058E

HHCCF058E Some or all devices in CUU-CUU duplicate devices already defined

Explanation
At least one of the device numbers on a device specification statement defines a device number that is already specified on that same statement.
Action
Correct the statement and restart Hercules.

HHCCF061W

HHCCF061W ECPS:VM Statement deprecated. Use ECPSVM instead

Explanation
The "ECPS:VM" statement was encountered. This statement is deprecated in favor of the "ECPSVM" statement.

Action
The configuration statement is still carried out but the statement syntax should be changed as soon as possible.

HHCCF062W

HHCCF062W Missing ECPSVM level value. 20 Assumed

Explanation
The "ECPSVM" statement keyword "LEVEL" was encountered but no numeric level followed it.

Action
The default level of 20 is used and the ECPS:VM feature is made available. The statement should be corrected as soon as possible.

HHCCF063W

HHCCF063W Specifying ECPSVM level directly is deprecated. Use the 'LEVEL' keyword instead

Explanation
The deprecated "ECPSVM" level syntax form (without the LEVEL keyword) was found.

Action
The ECPS:VM Level is set to the specified value. The configuration statement should be updated to include the "LEVEL" keyword.

HHCCF064W

HHCCF064W Hercules set priority priority failed: error

Explanation
An attempt to change the priority of the Hercules process to priority failed. The error is described by error. The process priority has not been changed. Hercules overall performance may be impaired as a result.

Action
If performance problems are noted, correct the error and restart Hercules.
HHCCF065I

HHCCF065I Hercules: tid=threadid, pid=processid, pgid=processgroupid, priority=priority

Explanation
Hercules thread id is threadid, its process id is processid, its process group id is processgroupid and its execution priority is priority.

Action
None. This is an informational message.

HHCCF066E

HHCCF066E Invalid HTTPROOT: error

Explanation
The pathname specified on your HTTPROOT statement is invalid. The error is described by error.

Action
Correct the error and restart Hercules.

HHCCF067S

HHCCF067S Incorrect keyword keyword for the ASN_AND_LX_REUSE statement

Explanation
The keyword specified for the ASN_AND_LX_REUSE statement is not ENABLE or DISABLE.

Action
Correct the error and restart Hercules.

HHCCF068E

HHCCF068E Invalid value: value; Enter "help scsimount" for help.

Explanation
The automatic SCSI tape mount value is not "NO" nor a value between 1 and 99 seconds inclusive.

Action
Reissue the SCSIMOUNT command.
HHCCF069I
HHCCF069I Run-options enabled for this run:
  NUMCPU: n
  ASN-and-LX-reuse: Enabled/Disabled
  DIAG8CMD: Enabled/Disabled

Explanation
This message confirms the setting of various run-time options specified in the configuration file at startup time.

Action
None. This is an informational message.

HHCCF074E
HHCCF074E Unspecified error occurred while parsing Logical Channel Subsystem Identification

Explanation
A logic error occurred while parsing the Logical Channel Subsystem Identification component of a device number or device number group.

Action
Notify Hercules support. This is an error in the Hercules parsing routines.

HHCCF075E
HHCCF075E No more than 1 Logical Channel Subsystem Identification may be specified

Explanation
While specifying a device number or device number group, more than one ':' character was encountered while parsing the Logical Channel Subsystem Identification component. There can be only one Logical Channel Subsystem Identification for a device or group of devices.

Action
Correct the device number or device number group specification and either reissue the command or restart the Hercules engine, depending on whether the error occurred while issuing a command or while starting the engine.

HHCCF076E
HHCCF076E Non numeric Logical Channel Subsystem Identification XX

Explanation
While specifying a device number or device number group, a non-decimal value was encountered while parsing the Logical Channel Subsystem Identification component. The Logical Channel Subsystem Identification for a device or group of devices must be specified as a numeric value.
Action
Correct the device number or device number group specification and either reissue the command or restart the Hercules engine, depending on whether the error occurred while issuing a command or while starting the engine.

HHCCF077E

HHCCF077E Logical Channel Subsystem Identification $NN$ exceeds maximum of 3

Explanation
While specifying a device number or device number group, a Logical Channel Identification was encountered that exceeded the architecture maximum value of $NN$. The Logical Channel Subsystem Identification for a device or group of devices must be within 0 and 3 (inclusive).

Action
Correct the device number or device number group specification and either reissue the command or restart the Hercules engine, depending on whether the error occurred while issuing a command or while starting the engine.

HHCCF079A

HHCCF079A A licensed program product operating system has been detected. All processors have been stopped.

Explanation
Hercules has detected that the operating system is a licensed program product, but the PGMPRDOS LICENSED parameter was not specified in the Hercules configuration file.

Action
Hercules enters the stopped state. To run this operating system you must obtain a license from the operating system supplier and specify the PGMPRDOS LICENSED parameter in the configuration file. If you are unable to obtain a valid license allowing you to run this operating system on your machine, you must use another operating system (such as MVS 3.8J or Linux for System z) which does not require a license.

HHCCF081I

HHCCF081I $fname$ will ignore include errors.

Explanation
An ignore include_errors statement was encountered in file $fname$ requesting that any include statements subsequently found within file $fname$ which happen to reference include files which do not exist should simply cause a HHCCF084W warning instead of a HHCCF085S fatal error.

Action
Processing continues. This is an informational-only message.
HHCCF082S

HHCCF082S Error in *fname* line *nnn*: Maximum nesting level (*nn*) reached

**Explanation**
The maximum number of nested include statements has been exceeded. The include statement which caused the maximum nesting level of *nn* to be exceeded is identified as statement number *nnn* of file *fname*.

**Action**
This is a fatal error. Configuration file processing is immediately terminated and Hercules startup is aborted. Correct the error and restart Hercules.

HHCCF083I

HHCCF083I *fname1* Including *fname2* at *nnn*.

**Explanation**
An include statement for file *fname2* was encountered on line *nnn* of file *fname1*.

**Action**
Configuration file processing switches immediately to processing the statements contained in file *fname2*. Once all of the statements in file *fname2* have been completely processed, configuration file processing will then return to statement *nnn*+1 of file *fname1*. This is an informational-only message.

HHCCF084W

HHCCF084W *fname1* Open error ignored file *fname2*: error

**Explanation**
File *fname1* contained an include statement for file *fname2* which could not be opened because of error.

**Action**
Processing continues. This is a informational warning only. Check to make sure the filename specified by *fname2* was spelled correctly and restart Hercules if desired.

HHCCF085S

HHCCF085S *fname1* Open error file *fname2*: error

**Explanation**
File *fname1* contained an include statement for file *fname2* which could not be opened because of error.

**Action**
This is a fatal error. Configuration file processing is immediately terminated and Hercules startup is aborted. Correct any misspelling of filename *fname2* and restart Hercules.
HHCCF086S

HHCCF086S Error in filename: NUMCPU nn must not exceed MAXCPU mm

Explanation
The number of online CPUs nn specified in the NUMCPU configuration statement in the file named filename cannot exceed the maximum number of CPUs mm specified in the MAXCPU configuration statement.

Action
Either decrease the NUMCPU parameter, or increase the MAXCPU parameter, and restart Hercules.

HHCCF089S

HHCCF089S Error in fname line linenum: Invalid log option keyword val

Explanation
File fname contains an invalid log option keyword val on line num.

Action
Correct the log option keyword in file fname and restart Hercules.
46. Messages HHCCPnnns - CPU Emulation

HHCCP001W

HHCCP001W CPU thread set priority priority failed: error

Explanation
An attempt to change the priority of the CPU thread to priority failed. The error is described by error. The thread priority has not been changed. Hercules overall performance may be impaired as a result.

Action
If performance problems are noted, correct the error and restart Hercules.

HHCCP002I

HHCCP002I CPU number thread started: tid=threadid, pid=processid, priority=priority

Explanation
The execution thread for CPU number number has been started. Its thread id is threadid, its process id is processid and its execution priority is priority.

Action
None. This is an informational message.

HHCCP003I

HHCCP003I CPU number architecture mode mode

Explanation
CPU number has been set to the mode architecture mode.

Action
None. This is an informational message.

If a different architecture mode is desired, it may be changed with the ARCHMODE configuration statement or the archmode control panel command.

HHCCP004I

HHCCP004I CPU number Vector Facility online

Explanation
The Vector Facility for CPU number is online and available for use.

Action
None. This is an informational message.
HHCCP005E

HHCCP005E CPU number thread already started

Explanation
An attempt was made to add CPU number number to the configuration. This CPU already exists.

Action
If another CPU is desired in the configuration, select a different number.

HHCCP006S

HHCCP006S Cannot create timer thread: error

Explanation
An attempt to create the thread used for timing functions has failed. The error is described by error. The CPU thread terminates and successful continuation of Hercules is not possible.

Action
Correct the error and restart Hercules.

HHCCP007I

HHCCP007I CPU number architecture mode set to mode

Explanation
CPU number number has been changed to the architecture mode mode.

Action
None. This is an informational message.

HHCCP008I

HHCCP008I CPU number thread ended: tid=threadid, pid=processid

Explanation
The execution thread for CPU number number has ended. Its thread id was threadid, and its process id was processid.

Action
None. This is an informational message.
HHCCP009E

HHCCP009E CPU MASK MISMATCH: prevmask - currmask. Last instruction: instruction.

Explanation
The CPU interrupt mask has changed unexpectedly. The previous mask was prevmask and the current mask is currmask. The last instruction executed was instruction. This is an internal error.

Action
Report this message and the circumstances to the Hercules developers.

HHCCP010I

HHCCP010I CPU number store status completed.

Explanation
CPU number number has completed a store status operation.

Action
None. This is an informational message.

HHCCP011I

HHCCP011I CPU number: Disabled wait state

Explanation
CPU number number has entered a disabled wait state. It will not execute any further instructions unless it is reset or restarted. This is usually done to report a severe error in execution of an operating system.

Action
Correct the error denoted by the wait state code if applicable.

HHCCP023I

HHCCP023I External interrupt: Interrupt key

Explanation
The CPU has taken an external interrupt because the operator pressed the interrupt key or issued the panel command ext.

Action
None. This is an informational message.
HHCCP024I

HHCCP024I External interrupt: Clock comparator

Explanation
The CPU has taken a clock comparator interrupt. This message is issued only when the CPU is in single-stepping or instruction-tracing mode.

Action
None. This is an informational message. External interrupts are part of normal system operation.

HHCCP025I

HHCCP025I External interrupt: CPU timer=$xx...xx

Explanation
The CPU has taken a CPU timer interrupt. $xx...xx is the hexadecimal value of the CPU timer. This message is issued only when the CPU is in single-stepping or instruction-tracing mode.

Action
None. This is an informational message. External interrupts are part of normal system operation.

HHCCP026I

HHCCP026I External interrupt: Interval timer

Explanation
The CPU has taken an external interrupt caused by the interval timer. This message is issued only when the CPU is in single-stepping or instruction-tracing mode.

Action
None. This is an informational message. External interrupts are part of normal system operation.

HHCCP027I

HHCCP027I External interrupt: Service signal intparm

Explanation
The CPU has taken a service signal external interrupt. intparm is the interrupt parameter. This message is issued only when the CPU is in single-stepping or instruction-tracing mode.

Action
None. This is an informational message. External interrupts are part of normal system operation.
HHCCP090W

HHCCP090W The configuration has been placed into a system check-stop state because of an incompatible service call

Explanation
A READ SCP INFO (code X'00020001') Service call has been issued from a CPU which is not a CP engine. All the CPUs in the configuration are put into a Check-Stop state.

Action
Ensure the CPU that issues the service call is a CP engine and restart the program.
47. Messages HHCCTnnns -
Channel-to-Channel Adapter Emulation

HHCCTnnns
Messages HHCCTnnns are not yet documented.
48. Messages HHCCUnnns - CCKD Utilities

48.1 Format of the CCKD utilities messages

Messages generated by the CCKD utilities are in the format message_id file message_text. The format of the message ID is the same as with all other Hercules messages. file will either be the part of the file name following the last slash ("/" or "\") when called by a utility command, or will be xxxx: file[n] where xxxx is the device number and n is the shadow file number when called by Hercules.

The file portion of the message is omitted in the sections below for brevity.

HHCCU101I

HHCCU101I converting to endian-format

Explanation
The file is in the wrong endian (byte order) format for the host architecture. The file is being converted to the host endian format endian-format.

Action
None. This is an informational message.

HHCCU102I

HHCCU102I compress successful, n bytes released

Explanation
The compress function successfully completed and free n bytes from the file. If n is 0, then the level 2 tables were repositioned to the beginning of the file in order.

Action
None. This is an informational message.

HHCCU103I

HHCCU103I file already compressed

Explanation
The compress function determined that the file is already compressed. The file is not updated.

Action
None. This is an informational message.
HHCCU104I

HHCCU104I free space rebuilt

Explanation
Free space errors were detected and free space has been successfully rebuilt.

Action
None. This is an informational message.

HHCCU300I

HHCCU300I number space images recovered

Explanation
Recovery phase 1 completed, recovering number spaces (trks or blkrps).

Action
None. This is an informational message.

HHCCU301I

HHCCU301I space[id] recovered offset offset len length

Explanation
The space space (trk or blkgrp) was recovered at offset offset and length length. id is the trk or blkgrp number.

Action
None. This is an informational message.

HHCCU500W

HHCCU500W recovery not completed, file opened read-only

Explanation
Phase 3 recovery did not complete because the file is not opened for write.

Action
Omit the -ro option for cckdcdisk or change the file permissions to enable the file to be opened for read-write for Hercules.

HHCCU501W

HHCCU501W recovery not completed, missing compression

Explanation
Phase 3 recovery did not complete because one or more trk or blkgrp images were compressed using a compression (zlib or bzip2) that was not built into Hercules.
Action
Processing terminates. The file has not been updated. Build Hercules with the missing compression libraries.

HHCCU502W

HHCCU502W free space not rebuilt, file opened read-only

Explanation
Free space errors were detected but the free space was not rebuilt because the file is not opened for write.

Action
Omit the -ro option for cckdcdotsk or change the file permissions to enable the file to be opened for read-write by Hercules.

HHCCU600W

HHCCU600W forcing check level level[; reason]

Explanation
Errors have been detected in the compressed file that warrant the escalation of the check level to level. An additional explanation reason may be supplied.

Action
At a minimum, free space will be rebuilt.

HHCCU601W

HHCCU601W cdevhdr inconsistencies found code=code

Explanation
The space statistics in the cckdassd device header (cdevhdr) contain inconsistencies described by code. code is a 16-bit bit field and more than one bit may be on. See cckdutil.c for the different bit settings.

Action
At a minimum, free space will be rebuilt.

HHCCU602W

HHCCU602W space offset offset len length is out of bounds

Explanation
The space space (trk, blkgrp or l2) either precedes the end of the L1 table (at the beginning of the file) or exceeds the end of the file.

Action
The space will be recovered. If the space is an L2 table, then all tracks or block groups associated with the table will also be recovered.
HHCCU603W

**Explanation**
The space `space1` overlaps space `space2`.

**Action**
The spaces will be recovered. If either space is an L2 table, then all tracks or block groups associated with that table will also be recovered.

HHCCU604W

**HHCCU604W space l2 inconsistency: len length, size size**

**Explanation**
The space (trk or blkgrp) has an inconsistent L2 entry. Either the length `length` is too small or is too large or exceeds the size `size`.

**Action**
The space will be recovered.

HHCCU610W

**HHCCU610W free space errors detected**

**Explanation**
Free space is not consistent.

**Action**
Free space will be rebuilt.

HHCCU620W

**HHCCU620W space[id] hdr error offset offset: xxxxxxxxxx**

**Explanation**
A header error was found for space (trk or blkgrp) during validation. `id` is the trk or blkgrp number. The header is located at file offset `offset`. The contents of the 5 byte header is `xxxxxxxxx` in hex.

The first byte of the header should be either 00 (compress none), 01 (compress zlib) or 02 (compress bzip2).

For ckd, the next two bytes is the cylinder (in big-endian byte order) and the two bytes after that is the head (also in big-endian byte order).

For fba, the next four bytes is the block group number (in big-endian byte order).
The header contains an invalid value. Either the offset is incorrect or the header has been overlaid.

**Action**
The space will be recovered.

**HHCCU621W**

**HHCCU621W** *space*[id] compressed using *compression*, not supported

**Explanation**
During validation, the header for *space* (trk or blkgrp) indicates that the space was compressed using *compression* (zlib or bzip2) but support for that compression method was not built into Hercules. *id* is the trk or blkgrp number.

**Action**
Processing continues. However no recovery will take place. Build Hercules with the specified compression library.

**HHCCU622W**

**HHCCU622W** *space*[id] offset *offset* len *length* validation error

**Explanation**
The *space* (trk or blkgrp) at offset *offset* and length *length* failed validation. *id* is the trk or blkgrp number. Either the space did not uncompress successfully or the uncompressed space contains some kind of error. This error is detected during check level 3 validation.

**Action**
The space will be recovered.

**HHCCU700E**

**HHCCU700E** open error: *error text*

**Explanation**
Open failed for the file. The text associated with the error number is displayed.

**Action**
Processing for the file terminates.

**HHCCU701E**

**HHCCU701E** fstat error: *error text*

**Explanation**
The file status system call failed. The text associated with the error number is displayed.

**Action**
Function processing terminates. Probable Hercules logic error. Contact the Hercules mailing list for assistance.
HHCCU702E

HHCCU702E lseek error offset offset: error text

Explanation
File reposition to offset offset failed. The text associated with the error number is displayed.

Action
Function processing terminates. Probable Hercules logic error. Contact the Hercules mailing list for assistance.

HHCCU703E

HHCCU703E read error rc=retcode offset offset len length: error text

Explanation
A read failed at offset offset for length length. If retcode is not negative then the read was incomplete and the value indicates how many bytes were read. Otherwise the text associated with the error number is displayed.

Action
Function processing terminates. Possible Hercules logic error. Possible hardware error. Contact the hercules mailing list for assistance.

HHCCU704E

HHCCU704E write error rc=retcode offset offset len length: error text

Explanation
A write failed at offset offset for length length. If retcode is not negative then the write was incomplete and the value indicates how many bytes were written. Otherwise the text associated with the error number is displayed.

Action
Function processing terminates. Possible Hercules logic error. Possible hardware error. Contact the hercules mailing list for assistance.

HHCCU705E

HHCCU705E malloc error, size size: error text

Explanation
Malloc (allocate memory) failed for size size.

Action
Function processing terminates. Try reducing Hercules storage requirements (e.g. mainsize).
HHCCU706E

HHCCU706E calloc error, size size: error text

Explanation
Calloc (allocate cleared memory) failed for size size.

Action
Function processing terminates. Try reducing Hercules storage requirements (eg mainsize).

HHCCU707E

HHCCU707E OPENED bit is on, use -f

Explanation
The file OPENED bit is on in the cckd header but -f was not specified.

Action
File processing terminates. Make sure the file is not in use. If it is not, try the command again specifying the -f option.

HHCCU708E

HHCCU708E chkdsk errors

Explanation
The utility called cckd_chkdsk for the file and it returned in error.

Action
File processing terminates. Perform the actions suggested by the preceding cckd_chkdsk errors.

HHCCU900E

HHCCU900E dasd lookup error type=type cyls=cyls

Explanation
The device type type from the device header along with the number of cylinders cyls did not match a table entry in dasdtab.c. Note that type is the last two bytes of the device type (eg 90 for a 3390 device type).

Action
Function processing terminates. Specify the correct file name or manually correct the device header.

HHCCU901E

HHCCU901E bad trksize: size1, expecting size2

Explanation
The track size size1 from the device header does match the track size size2 from the table entry in dasdtab.c.
HHCCU902E
HHCCU902E bad number of heads: heads1, expecting heads2
Explanation
The number of heads heads1 from the device header does match the number of heads heads2 from the table entry in dasdtab.c.
Action
Function processing terminates. Specify the correct file name or manually correct the device header.

HHCCU903E
HHCCU903E bad `numl1tab': nbr1, expecting nbr2
Explanation
The number of L1 table entries nbr1 in the cckd device header does not match the number calculated nbr2. The number calculated is the number of cylinders times the number of heads (i.e. the number of tracks) divided by 256, rounded up by 1 if there is a remainder.
Action
Function processing terminates. Specify the correct file name or manually correct the device headers.

HHCCU904E
HHCCU904E file too small to contain L1 table: %size1, need size2
Explanation
The size of the file size1 is not large enough to contain all L1 table entries; the size required is size2. The minimum size of a cckd file is 512 + 512 + (4 \times \text{number of L1 entries}).
Action
Function processing terminates. Specify the correct file name.

HHCCU905E
HHCCU905E not enough file space for recovery
Explanation
During phase 2 recovery there was not enough space in the maximum file size to contain the rebuilt L2 tables. This is an unusual situation and probably indicates some kind of programming error.
Action
Function processing terminates. The file has not been updated. Contact the hercules mailing list for assistance.
HHCCU910E

HHCCU910E error during swap

Explanation
Error occurred during cckd_swap().

Action
See the preceding error messages.

HHCCU999E

HHCCU999E not a compressed file

Explanation
The first 8 bytes of the file did not match an expected identifier. For a cckd file, the identifier must be either CKD_C370 or CKD_S370. For a cfba file, the identifier must be either FBA_C370 or FBA_S370.

Action
Function processing terminates. Specify the correct file name.
49. Messages HHCDAnnnns - DASD Emulation (CKD, CCKD and FBA)

**HHCDAnnnns**

Messages HHCDAnnnns are not yet documented.
50. Messages HHCDCnnns - DASDCOPY Utility

HHCDC001E

HHCDC001E programe: filename open error: error

Explanation
An error was encountered when trying to open the input file named filename to determine its type. The error is described by error.

Action
Correct the error and retry the operation.

HHCDC002E

HHCDC002E programe: filename read error: error

Explanation
An error was encountered when trying to read the input file named filename to determine its type. The error is described by error.

Action
Correct the error and retry the operation.

HHCDC003E

HHCDC003E programe: filename open failed

Explanation
An error was encountered when trying to open the input file named filename for copying. A previous message described the error.

Action
Correct the error and retry the operation.

HHCDC004E

HHCDC004E programe: ckd lookup failed for size cyls

Explanation
There was no disk drive table entry that matched the number of cylinders in the CKD source file, size. The program cannot determine how much data to copy.

Action
Correct the error and retry the operation.
HHCDC005E

HHCDC005E progname: fba lookup failed, blks size

Explanation
There was no disk drive table entry that matched the number of blocks in the FBA source file, size. The program cannot determine how much data to copy.

Action
Correct the error and retry the operation.

HHCDC006E

HHCDC006E progname: filename create failed

Explanation
An error was encountered when trying to create the output file named filename. A previous message described the error.

Action
Correct the error and retry the operation.

HHCDC007E

HHCDC007E progname: filename open failed

Explanation
An error was encountered when trying to open the newly created output file named filename. A previous message described the error.

Action
Correct the error and retry the operation.

HHCDC008E

HHCDC008E progname: filename read error (track|block) number stat=status

Explanation
An error was encountered when trying to read a block or track from the input file named filename. The block or track is number number. The status returned is shown as status.

Action
Correct the error and retry the operation.
**HHDC009E**

**HHDC009E proname: filename write error (track|block) number stat=\textit{status}**

**Explanation**
An error was encountered when trying to read a block or track from the input file named \textit{filename}. The block or track is number \textit{number}. The status returned is shown as \textit{status}.

**Action**
Correct the error and retry the operation.

**HHDC010I**

**HHDC010I Copy successful !!!**

**Explanation**
The copy operation has completed successfully.

**Action**
None. This is an informational message.
51. Messages HHCDGnnns - Dyngui.DLL

**HHCDG001I**

HHCDG001I dyngui.dll - *name* - version *vers* initiated

**Explanation**
The dyngui loadable module was successfully loaded and initiated.

**Action**
None. This is an informational message.

**HHCDG002I**

HHCDG002I dyngui.dll terminated

**Explanation**
The dyngui loadable module was successfully terminated.

**Action**
None. This is an informational message.

**HHCDG003S**

HHCDG003S select failed on input stream: *errmsg*

**Explanation**
The socket select function call failed on the input stream. *errmsg* describes the exact error.

**Action**
None; this is a fatal error, the system is immediately terminated.

**HHCDG004S**

HHCDG004S read failed on input stream: *errmsg*

**Explanation**
An unrecoverable i/o error occurred while reading from the input stream. *errmsg* describes the exact error.

**Action**
None; this is a fatal error; the system is immediately terminated.

**HHCDG005E**

HHCDG005E Device query buffer overflow! (device=xxxx)

**Explanation**
The device query buffer is not large enough to hold all of the information returned by the device handler. xxxx is the device whose information was being queried at the time the error occurred.
Action
The system attempts to continue functioning but unpredictable results may occur (i.e. the system could crash). You should report this error to the Hercules developers immediately so that they can build you a new dyngui.dll with a larger device query buffer. Since the dyngui.dll is an unloadable module you will need to restart Hercules in order to begin using the newly fixed version of dyngui.dll.

HHCDG006S
HHCDG006S malloc pszInputBuff failed: errmsg

Explanation
There was not enough virtual memory on the host system to satisfy the malloc request for the input stream buffer. errmsg describes the exact error.

Action
None; this is a fatal error, the system is immediately terminated. You should increase the size of your host system's virtual memory allocation so that there is enough for Hercules to run, or else decrease the amount of memory that Hercules needs in order to run (e.g. decrease your MAINSIZE value).

HHCDG007S
HHCDG007S malloc pszCommandBuff failed: errmsg

Explanation
There was not enough virtual memory on the host system to satisfy the malloc request for the command processing buffer. errmsg describes the exact error.

Action
None; this is a fatal error, the system is immediately terminated. You should increase the size of your host system's virtual memory allocation so that there is enough for Hercules to run, or else decrease the amount of memory that Hercules needs in order to run (e.g. decrease your MAINSIZE value).
52. Messages HHCDlnns - DASDINIT Utility

HHCDI001I

HHCDI001I DASD initialization successfully completed.

Explanation
The requested DASD volume has been successfully initialized and is ready for use.

Action
None. This is an informational message.

HHCDI002I

HHCDI002I DASD initialization unsuccessful.

Explanation
Initialization of the requested DASD volume was not successful.

Action
None. This is an informational message. Refer to preceding error messages to determine the cause.
53. Messages HHCDLnnns - DASDLOAD Utility

HHCDL001E

HHCDL001E Cannot open filename: error

Explanation
The control file named filename cannot be opened. The error is described by error.

Action
Correct the error and rerun dasdload.

HHCDL002E

HHCDL002E Volume serial statement missing from filename

Explanation
The control file named filename does not contain a volume serial statement. A volume serial is required.

Action
Supply a volume serial statement and rerun dasdload.

HHCDL003E

HHCDL003E Volume serial serial in filename line lineno is not valid

Explanation
The volume serial serial supplied in line lineno of the control file named filename is not valid. It must be from one to six characters long.

Action
Supply a valid volume serial and rerun dasdload.

HHCDL004E

HHCDL004E Device type type in filename line lineno is not recognized

Explanation
The device type type specified in line lineno of the control file named filename is not a supported CKD device.

Action
Specify a supported CKD device type and rerun dasdload.
HHCDL005E
HHCDL005E count in filename line lineno is not a valid cylinder count
Explanation
The requested number count of cylinders for the volume in line lineno of the control file named filename is invalid. It must be a decimal number.
Action
Supply a valid cylinder count and rerun dasdload.

HHCDL006I
HHCDL006I Creating type volume serial: tracks trks/cyl, length bytes/track
Explanation
The volume named serial of type type is being created with tracks tracks per cylinder and length bytes per track.
Message Level
0.
Action
None. This is an informational message.

HHCDL007E
HHCDL007E Cannot create filename
Explanation
The DASD image file named filename cannot be created. A previous message described the problem.
Action
Correct the reported error and rerun dasdload.

HHCDL008E
HHCDL008E Cannot open filename
Explanation
The DASD image file named filename could not be opened. A previous message described the problem.
Action
Correct the reported error and rerun dasdload.
HHCDL009I

HHCDL009I Loading type volume serial

Explanation
The newly created volume with serial serial of type type is being loaded.

Message Level
0.

Action
None. This is an informational message.

HHCDL010E

HHCDL010E Cannot obtain storage for DSCB pointer array: error

Explanation
An attempt to obtain storage for the array of DSCB pointers, which will populate the VTOC, failed. The error is described by error.

Action
Correct the error and rerun dasdload.

HHCDL011E

HHCDL011E Invalid statement in filename line lineno

Explanation
An invalid control statement was found at line lineno of the control file named filename.

Action
Correct the invalid statement and rerun dasdload.

HHCDL012I

HHCDL012I Creating dataset dsn at cyl cylinder head head

Explanation
The dataset named dsn is being created. It begins at cylinder cylinder head head.

Message Level
1

Action
None. This is an informational message.
HHCDL013I

HHCDL013I Dataset dsn contains size tracks

Explanation
The dataset named dsn is size tracks long.

Message level
2

Action
None. This is an informational message.

HHCDL014I

HHCDL014I Free space starts at cyl cylinder head head

Explanation
Free space on the volume begins at cylinder cylinder head head and extends to the end of the volume.

Message level
1

Action
None. This is an informational message.

HHCDL015W

HHCDL015W Volume exceeds cylinders

Explanation
The amount of space used on the volume exceeds the number of cylinders cylinders requested in the control file. The number of cylinders was explicitly requested instead of being allowed to default to the size of a full volume for the device type. The volume has been extended to accomodate the data written.

Action
Specify more cylinders in the control file or allow the number to default.

HHCDL016I

HHCDL016I Total of count cylinders written to filename

Explanation
A total of count cylinders have been written to the DASD image file named filename.

Message level
0

Action
None. This is an informational message.
HHCDL017I

HHCDL017I Updating VTOC pointer pointer

Explanation
The pointer to the VTOC in the volume label is being updated to point to the VTOC at location pointer.

Message level
5

Action
None. This is an informational message.

HHCDL018E

HHCDL018E Cannot read VOL1 record

Explanation
An attempt to read the volume label failed. A previous message described the error.

Action
Correct the error and rerun dasdload.

HHCDL019E

HHCDL019E Cannot read filename line lineno: error

Explanation
An error was encountered while trying to read the statement at line number lineno of the control file named filename. The error is described by error.

Action
Correct the error and rerun dasdload.

HHCDL020E

HHCDL020E Line too long in filename line lineno

Explanation
The line at line number lineno of the control file named filename is too long to be processed. This error can be caused by failing to terminate the last line with an end-of-line marker.

Action
Correct the error and rerun dasdload.
HHCDL021E

HHCDL021E DSNAME or initialization method missing

Explanation
Either the dataset name or the method to be used to initialize it is missing from the control file. Both are required.

Action
Supply the missing value and rerun dasdload.

HHCDL022E

HHCDL022E Invalid initialization method: method

Explanation
The method specified to initialize the dataset method is invalid. It must be one of xmit, vs, empty, dip, cvol, vtoc, or seq.

Action
Correct the initialization method and rerun dasdload.

HHCDL023E

HHCDL023E Initialization file name missing

Explanation
A dataset was specified as being initialized by either the xmit, vs, or seq initialization methods but no source file was specified to provide the data to be loaded.

Action
Specify a source file name or specify the empty dataset initialization method if the dataset is not to be loaded.

HHCDL024E

HHCDL024E Invalid allocation units: units

Explanation
The allocation unit specified units is invalid. It must be either cyl or trk.

Action
Specify a valid allocation unit and rerun dasdload.
HHCDL025E

HHCDL025E Invalid primary space: space

Explanation
The primary space requested space is not a valid decimal number greater than 0.

Action
Specify a valid space request and rerun dasdload.

HHCDL026E

HHCDL026E Invalid secondary space: space

Explanation
The secondary space requested space is not a valid decimal number greater than 0.

Action
Specify a valid space request and rerun dasdload.

HHCDL027E

HHCDL027E Invalid directory space: space

Explanation
The PDS directory space requested space is not a valid decimal number greater than 0.

Action
Specify a valid space request and rerun dasdload.

HHCDL028E

HHCDL028E Invalid dataset organization: dsorg

Explanation
The requested dataset organization dsorg is invalid. It must be one of is, ps, da, or po.

Action
Specify a valid dataset organization and rerun dasdload.

HHCDL029E

HHCDL029E Invalid record format: recfm

Explanation
The requested record format recfm is invalid. It must be one of f, fb, fbs, v, vb, vbs, or u.

Action
Specify a valid record format and rerun dasdload.
HHCDL030E
HHCDL030E Invalid logical record length: lrecl
Explanation
The requested logical record length lrecl is invalid. It must be a decimal number between 0 and 32767.
Action
Specify a valid logical record length and rerun dasdload.

HHCDL031E
HHCDL031E Invalid block size: blksize
Explanation
The requested block size blksize is invalid. It must be a decimal number between 0 and 32767.
Action
Specify a valid block size and rerun dasdload.

HHCDL032E
HHCDL032E Invalid key length: keylen
Explanation
The requested key length keylen is invalid. It must be a decimal number between 0 and 255.
Action
Specify a valid key length and rerun dasdload.

HHCDL033E
HHCDL033E CCHH=cchh not found in extent table
Explanation
The absolute track address cchh was not found in the table listing the locations occupied by the dataset being loaded. There is likely a problem with the input file.
Action
Correct the input file and rerun dasdload.

HHCDL034E
HHCDL034E Cannot open filename: error
Explanation
The file named filename, which was specified as the source of IPL text to be written to the volume, could not be opened. The error is described by error.
Action
Correct the error and rerun dasdload.

HHCDL035E

HHCDL035E Cannot read filename: error

Explanation
An error was encountered while reading the IPL text file named filename. The error is described by error. If no error is reported, the file did not contain an integral number of 80-byte card images.

Action
Correct the reported error or supply a valid IPL text file consisting of 80-byte card images and rerun dasdload.

HHCDL036E

HHCDL036E filename is not a valid object file

Explanation
The IPL text file named filename is not a valid object file. A record read from the file did not contain the required flag in the first byte.

Action
Supply a valid object file and rerun dasdload.

HHCDL037I

HHCDL037I IPL text address=addr length=length

Explanation
The object code from the current record of the IPL text file will be loaded into memory at address address, and is length bytes long.

Message level 5

Action
None. This is an informational message.

HHCDL038E

HHCDL038E TXT record in filename has invalid count length

Explanation
A text record in the IPL text file named filename has an invalid length length. The length cannot exceed 56.

Action
Supply a valid IPL text file and rerun dasdload.
HHCDL039E

HHCDL039E IPL text in filename exceeds buflen bytes

Explanation
The IPL text file named filename is too long to fit in the available space on the volume. The IPL text cannot exceed buflen bytes in length.

Action
Supply a shorter IPL text file or specify a volume with a larger track size and rerun dasdload.

HHCDL040E

HHCDL040E Input record CCHHR=cchhr exceeds output device track size

Explanation
The block to be written at absolute address cchhr is too large to fit on a track on the disk being loaded.

Action
Specify a device with a larger track size and rerun dasdload.

HHCDL041E

HHCDL041E Dataset exceeds extent size: reltrak=track, maxtrak=maxtrak

Explanation
The data to be written to the dataset is too large for the space requested for it. If the space request was allowed to default, the input file is corrupt.

Action
If the space request was made explicitly, then request more space. If the request was defaulted, supply a valid input file. Rerun dasdload.

HHCDL042E

HHCDL042E Input record CCHHR=cchhr exceeds virtual device track size

Explanation
The block to be written at absolute address cchhr is too large to fit on a track on the disk being loaded. In addition, this message being issued instead of message HHCDL040E indicates an internal inconsistency in the way Hercules computes the space available on a track.

Action
Specify a device with a larger track size and rerun dasdload. Report the inconsistency to the Hercules development team.
HHCDL043E

HHCDL043E *filename* cyl cylinder head head read error

Explanation
The data at cylinder *cylinder*, head *head* of the disk image file named *filename* could not be read in order to be updated. A previous message described the error.

Action
Correct the previously reported error and rerun dasdload.

HHCDL044E

HHCDL044E *filename* cyl cylinder head head invalid track header header

Explanation
The track header *header* at cylinder *cylinder*, head *head* in the disk image file named *filename* contained an address that did not match the actual address.

Action
Rerun dasdload. If the error persists, report it to the Hercules development team.

HHCDL045E

HHCDL045E *filename* cyl cylinder head head record record record not found

Explanation
The record requested for update at cylinder *cylinder*, head *head*, record *record* of the DASD image file named *filename* was not found.

Action
Rerun dasdload. If the error persists, report it to the Hercules development team.

HHCDL046E

HHCDL046E Cannot update cyl cylinder head head rec record: Unmatched KL/DL

Explanation
The record to be written at cylinder *cylinder*, head *head*, record *record* does not have the same key or data length as the record that already exists at that location. This is not allowed for a record update operation.

Action
Rerun dasdload. If the error persists, report it to the Hercules development team.
HHCDL047E

HHCDL047E filename cyl cylinder head head read error

Explanation
A read error was encountered when reading the track at cylinder cylinder, head head, in the disk image file named filename. A previous message described the error.

Action
Correct the error reported by the previous message and rerun dasdload.

HHCDL048I

HHCDL048I Updating cyl cylinder head head rec record kl keylen dl datalen

Explanation
The record at cylinder cylinder, head head, record record is being updated. It has a key length of keylen and data length datalen.

Message level
4

Action
None. This is an informational message.

HHCDL049E

HHCDL049E Cannot obtain storage for DSCB: error

Explanation
An attempt to obtain storage to build a DSCB to describe a dataset on the volume being loaded failed. The error is described by error.

Action
Correct the error and rerun dasdload.

HHCDL050E

HHCDL050E DSCB count exceeds maximum, increase MAXDSCB

Explanation
There are too many datasets on the volume being loaded and an internal structure in dasdload is full.

Action
Increase the value of the symbol MAXDSCB in the source program and recompile dasdload, then rerun the program.
HHCDL051E

HHCDL051E Cannot obtain storage for DSCB: error

Explanation
An attempt to obtain storage to build a DSCB to describe the VTOC on the volume being loaded failed. The error is described by error.

Action
Correct the error and rerun dasdload.

HHCDL052E

HHCDL052E DSCB count exceeds maximum, increase MAXDSCB

Explanation
There are too many datasets on the volume being loaded and an internal structure in dasdload is full.

Action
Increase the value of the symbol MAXDSCB in the source program and recompile dasdload, then rerun the program.

HHCDL053E

HHCDL053E Cannot obtain storage for DSCB: error

Explanation
An attempt to obtain storage to build a DSCB to describe the free space on the volume being loaded failed. The error is described by error.

Action
Correct the error and rerun dasdload.

HHCDL054E

HHCDL054E DSCB count exceeds maximum, increase MAXDSCB

Explanation
There are too many datasets on the volume being loaded and an internal structure in dasdload is full.

Action
Increase the value of the symbol MAXDSCB in the source program and recompile dasdload, then rerun the program.
HHCDL055E

HHCDL055E VTOC too small, tracks tracks required

Explanation
The VTOC allocation of tracks is too small to hold the VTOC.

Action
Specify at least tracks tracks for the VTOC and rerun dasdload.

HHCDL056E

HHCDL056E Error reading VTOC cyl cylinder head head

Explanation
The first track of the VTOC could not be read so it could be updated. A previous message described the error.

Action
Correct the error reported by the previous message and rerun dasdload.

HHCDL057I

HHCDL057I VTOC starts at cyl cylinder head head and is tracks tracks

Explanation
The VTOC on the volume being loaded starts at cylinder cylinder, head head and is tracks tracks long.

Message level
1

Action
None. This is an informational message.

HHCDL058I

HHCDL058I Format format DSCB CCHHR=cchhr (TTR=ttr) dsname

Explanation
The format format DSCB is located at absolute address cchhr and relative address within the VTOC ttr. If format is 1, the dataset described by the DSCB is named dsname.

Message level
4

Action
None. This is an informational message.
HHCDL059I

HHCDL059I Format 0 DSCB CCHHR cchhr (TTR=ttr)

Explanation
A format 0 (empty) DSCB is located at absolute address cchhr and relative address within the VTOC ttr.

Message level
4

Action
None. This is an informational message.

HHCDL060E

HHCDL060E Error reading track cyl cylinder head head

Explanation
An error was encountered reading the track at cylinder cyl, head head. A previous message described the error.

Action
Correct the error reported by the previous message and rerun dasdload.

HHCDL061E

HHCDL061E Incomplete text unit

Explanation
An text unit read from the input file was too short to contain a valid header. The input data is probably corrupt.

Action
Supply a valid input file and rerun dasdload.

HHCDL062I

HHCDL062I position tuname key fields

Explanation
The text unit at position of the input buffer has the name tuname and the numeric key value key. There are fields fields in the text unit.

Message level
4

Action
None. This is an informational message.
HHCDL063E
HHCDL063E Too many fields in text unit

Explanation
A text unit was read from the input file that had too many fields in the header for that type of text unit. The input file is probably corrupt.

Action
Supply a valid input file and rerun dasdload.

HHCDL064E
HHCDL064E Incomplete text unit

Explanation
A text unit read from the input file was too short to contain a valid field length. The input data is probably corrupt.

Action
Supply a valid input file and rerun dasdload.

HHCDL065E
HHCDL065E Incomplete text unit

Explanation
A text unit read from the input file was shorter than the length in the field header. The input data is probably corrupt.

Action
Supply a valid input file and rerun dasdload.

HHCDL066E
HHCDL066E filename read error: error

Explanation
An error was encountered when reading the input file named filename. The error is described by error.

Action
Correct the error and rerun dasdload.

HHCDL067E
HHCDL067E filename invalid segment header: header

Explanation
A segment read from the file named filename has an invalid header header. The input file is probably corrupt.
Action
Supply a valid input file and rerun dasdload.

HHCDL068E

HHCDL068E *filename* first segment indicator expected

Explanation
A segment read from the file named *filename* should have the first segment indicator set but does not. The input file is probably corrupt.

Action
Supply a valid input file and rerun dasdload.

HHCDL069E

HHCDL069E *filename* first segment indicator not expected

Explanation
A segment read from the file named *filename* should not have the first segment indicator set but does. The input file is probably corrupt.

Action
Supply a valid input file and rerun dasdload.

HHCDL070E

HHCDL070E *filename* control record indicator mismatch

Explanation
There was a mismatch between the first segment and the control record. The input file is probably corrupt.

Action
Supply a valid input file and rerun dasdload.

HHCDL071E

HHCDL071E *filename* read error: *error*

Explanation
An error was encountered when reading a segment from the input file named *filename*. The error is described by *error*.

Action
Correct the error and rerun dasdload.
HHCDL072E

HHCDL072E filename read error: error

Explanation
An error was encountered when reading a COPYR1 record from the input file named filename. The error is described by error.

Action
Correct the error and rerun dasdload.

HHCDL073E

HHCDL073E filename read error: error

Explanation
An error was encountered when reading a COPYR2 record from the input file named filename. The error is described by error.

Action
Correct the error and rerun dasdload.

HHCDL074E

HHCDL074E filename read error: error

Explanation
An error was encountered when reading a data block header from the input file named filename. The error is described by error.

Action
Correct the error and rerun dasdload.

HHCDL075E

HHCDL075E filename read error: error

Explanation
An error was encountered when reading a data block from the input file named filename. The error is described by error.

Action
Correct the error and rerun dasdload.
HHCDL076I

HHCDL076I File number: number

Explanation
The file being processed is number number.

Message level
4

Action
None. This is an informational message.

HHCDL077E

HHCDL077E Invalid text unit at offset offset

Explanation
An invalid text unit was read from position offset. A previous message described the error. The input file is probably corrupt.

Action
Supply a valid input file and rerun dasdload.

HHCDL078I

HHCDL078I File filenum: DSNAME=dsname

Explanation
The dataset name of file number filenum is dsname.

Message level
2

Action
None. This is an informational message.

HHCDL079I

HHCDL079I DSORG=dsorg RECFM=recfm LRECL=lrecl BLKSIZE=blksize KEYLEN=keylen
DIRBLKS=dirblks

Explanation
For the dataset listed in the preceding HHCDL078I message the dataset organization is dsorg, the record format is recfm, the logical record length is lrecl, the block size is blksize, the key length is keylen and the directory block count is dirblks.

Message level
2
Action
None. This is an informational message.

HHCDL080E

HHCDL080E Invalid text unit at offset offset

Explanation
An invalid text unit was read from position offset. A previous message described the error. The input file is probably corrupt.

Action
Supply a valid input file and rerun dasdload.

HHCDL081E

HHCDL081E COPYR1 record length is invalid

Explanation
The length of the COPYR1 record is invalid. The input file is probably corrupt.

Action
Supply a valid input file and rerun dasdload.

HHCDL082E

HHCDL082E COPYR1 header identifier not correct

Explanation
The header identifier of the COPYR1 record is invalid. The input file is probably corrupt.

Action
Supply a valid input file and rerun dasdload.

HHCDL083E

HHCDL083E COPYR1 unload format is unsupported

Explanation
The COPYR1 record indicates that the file was unloaded in a format that is not supported by dasdload. The file may be corrupt or it may simply be in a newer format than is supported by this version of dasdload.

Action
Supply a supported input file and rerun dasdload.
**HHCDL084I**

HHCDL084I Original dataset: DSORG=dsorg RECFM=recfm LRECL=lrecl BLKSIZE=blksize KEYLEN=keylen

**Explanation**
For the original dataset, the dataset organization is dsorg, the record format is recfm, the logical record length is lrecl, the block size is blksize, the key length is keylen and the directory block count is dirblks.

**Message level**
2

**Action**
None. This is an informational message.

**HHCDL085I**

HHCDL085I Dataset was unloaded from device type ucbtype (device)

**Explanation**
The dataset was unloaded from a device device, with UCB device type ucbtype.

**Message level**
2

**Action**
None. This is an informational message.

**HHCDL086I**

HHCDL086I Original device has cylinders cyls and heads heads

**Explanation**
The device listed in the preceding HHCDL085I message has cylinders cylinders and heads heads.

**Message level**
2

**Action**
None. This is an informational message.

**HHCDL087E**

HHCDL087E COPYR2 record length is invalid

**Explanation**
The length of the COPYR2 record just read is not valid. The input file is probably corrupt.

**Action**
Supply a valid input file and rerun dasdload.
HHCDL088E

HHCDL088E Invalid number of extents extents

Explanation
The number of extents reported in the COPYR2 record is invalid, either less than 1 or more than 16. The input file is probably corrupt.

Action
Supply a valid input file and rerun dasdload.

HHCDL089I

HHCDL089I Extent extent: Begin CCHH=begcchh End CCHH=endcchh Tracks=tracks

Explanation
For extent number extent, the extent starts at cylinder and head begcchh, and ends at endcchh, for a total of tracks tracks.

Message level
4

Action
None. This is an informational message.

HHCDL090I

HHCDL090I End of directory

Explanation
The end of the PDS directory has been reached.

Message level
3

Action
None. This is an informational message.

HHCDL091E

HHCDL091E Directory block record length is invalid

Explanation
The directory block read from the input file has the wrong length. It must be 276 bytes long. The input file is probably corrupt.

Action
Supply a valid input file and rerun dasdload.
HHCDL092E

HHCDL092E Cannot obtain storage for directory block: *error*

**Explanation**
An attempt to obtain storage for the directory block being processed failed. The error is described by *error*.

**Action**
Correct the error and rerun dasdload.

HHCDL093E

HHCDL093E Number of directory blocks exceeds *maxdblk*, increase MAXDBLK

**Explanation**
The number of directory blocks in the dataset being processed exceeds the size of an internal control structure. The maximum number is *maxdblk*.

**Action**
Increase the value of the constant MAXDBLK in the program source and recompile dasdload.

HHCDL094E

HHCDL094E Directory block byte count is invalid

**Explanation**
The length of the current directory block is invalid. The input file is probably corrupt.

**Action**
Supply a valid input file and rerun dasdload.

HHCDL095I

HHCDL095I (Alias|Member) *memname* TTR=*ttr*  
*Userdata=*userdata

**Explanation**
The alias or member named *memname* is located at relative address *ttr*. If user data is present, it is printed as *userdata*.

**Message level**
3

**Action**
None. This is an informational message.
HHCDL096I

HHCDL096I Member name TTR=oldttr replaced by newttr

Explanation
In the directory entry for member name, the old pointer to the member oldttr was replaced by the member's actual relative address newttr.

Message level
4

Action
None. This is an informational message.

HHCDL097E

HHCDL097E Member name TTR=ttnot found in dataset

Explanation
A request was made to update the directory entry for the member named name but there was no directory entry to update.

Action
This is likely an internal logic error. Report the error to the Hercules development team.

HHCDL098I

HHCDL098I Updating note list for member name at TTR=ttr CCHHR=cchhr

Explanation
The note list for the member named name, at relative address ttr, absolute address cchhr, is being updated.

Message level
4

Action
None. This is an informational message.

HHCDL099E

HHCDL099E filename cyl cylinder head head read error

Explanation
An attempt to read the track in the DASD image file named filename at cylinder cylinder, head head, failed. A previous error described the failure.

Action
Correct the error reported by the previous message and rerun dasdload.
HHCDL100E

HHCDL100E filename cyl cylinder head head invalid track header header

Explanation
The header header of the track in the DASD image file named filename at cylinder cylinder, head head did not agree with the actual address of the track. This is probably an internal logic error.

Action
Report the error to the Hercules development team.

HHCDL101E

HHCDL101E filename cyl cylinder head head rec record note list record not found

Explanation
A request was made to update a note list record at cylinder cylinder, head head, record record, but the record was not found. The input dataset may be corrupt.

Action
Supply a valid input dataset and rerun dasdload.

HHCDL102E

HHCDL102E Member member note list at cyl cylinder head head rec record dlen datalen is too short for numttrs TTRs

Explanation
The data length datalen of the note list record for member member at cylinder cylinder, head head, record record, is too short to contain the requested number numttrs of record pointers. The input dataset is probably corrupt.

Action
Supply a valid input dataset and rerun dasdload.

HHCDL103E

HHCDL103E filename track read error cyl cylinder head head

Explanation
An attempt to read the track in the DASD image file named filename at cylinder cylinder, head head, failed. A previous error described the failure.

Action
Correct the error reported by the previous message and rerun dasdload.
HHCDL104I

HHCDL104I Updating cyl cylinder head head rec record kl keylen dl datalen

Explanation
The record at cylinder cylinder, head head, record record, with key length keylen and data length datalen is being updated.

Message level
4

Action
None. This is an informational message.

HHCDL105E

HHCDL105E Directory block byte count is invalid

Explanation
The length of the current directory block is invalid. The input file is probably corrupt.

Action
Supply a valid input file and rerun dasdload.

HHCDL106E

HHCDL106E Cannot open file filename: error

Explanation
An attempt to open the IEBCOPY input file named filename failed. The error is described by error.

Action
Correct the error and rerun dasdload.

HHCDL107E

HHCDL107E Cannot obtain input buffer: error

Explanation
An attempt to obtain a 64K byte input buffer for reaading the IEBCOPY input file failed. The error is described by error.

Action
Correct the error and rerun dasdload.
HHCDL108E
HHCDL108E Cannot obtain storage for directory block array: error

Explanation
An attempt to obtain storage for the internal array used to store directory blocks failed. The error is described by error.

Action
Correct the error and rerun dasdload.

HHCDL109E
HHCDL109E Cannot obtain storage for TTR table: error

Explanation
An attempt to obtain storage for the internal array used to store track pinters for later conversion failed. The error is described by error.

Action
Correct the error and rerun dasdload.

HHCDL110I
HHCDL110I Processing file filename

Explanation
The input file named filename is being processed.

Message level
1

Action
None. This is an informational message.

HHCDL111I
HHCDL111I Control record: recname length length

Explanation
A control record named recname of length length has been read.

Message level
4

Action
None. This is an informational message.
HHCDL112I

HHCDL112I File number: filenum (not) selected

Explanation
The data file, number filenum, was (or was not) selected for processing.

Message level
4

Action
None. This is an informational message.

HHCDL113I

HHCDL113I Data record: length length

Explanation
A data record of length length has been read.

Message level
4

Action
None. This is an informational message.

HHCDL114E

HHCDL114E write error: input record CCHHR=cchhr (TTR=ttr) KL=keylen DL=datalen

Explanation
An error was encountered writing the data record at absolute address cchhr, relative address ttr, with key length keylen and data length datalen. A previous message described the error.

Action
Correct the error described by the previous message and rerun dasdload.

HHCDL115I

HHCDL115I CCHHR=incchhr (TTR=inttr) KL=keylen DL=datalen -> CCHHR=outcchhr (TTR=outttr)

Explanation
The record at absolute address incchhr, relative address inttr, with key length keylen and data length datalen, is being written to the output DASD image at absolute address outcchhr, relative address outttr.

Message level
4

Action
None. This is an informational message.
HHCDL116E

HHCDL116E TTR count exceeds maxttr, increase MAXTTR

Explanation
The list of relative address pointers exceeds the size of the internal array used to contain them, maxttr.

Action
Increase the constant MAXTTR in the program source and recompile dasdload.

HHCDL117I

HHCDL117I Catalog block at cyl cylinder head head rec record

Explanation
A catalog record has been written to disk at cylinder cylinder, head head and record record.

Message level
4

Action
None. This is an informational message.

HHCDL118I

HHCDL118I Catalog block at cyl cylinder head head rec record

Explanation
A catalog index record has been written to disk at cylinder cylinder, head head and record record.

Message level
4

Action
None. This is an informational message.

HHCDL119I

HHCDL119I Catalog block at cyl cylinder head head rec record

Explanation
An empty catalog record has been written to disk at cylinder cylinder, head head and record record.

Message level
4

Action
None. This is an informational message.
HHCDL120I

HHCDL120I DIP complete at cyl cylinder head head record record

Explanation
The LOGREC dataset has been initialized. The last block written was at cylinder cylinder, head head, record record.

Message level
3

Action
None. This is an informational message.

HHCDL121E

HHCDL121E SEQ dsorg must be PS or DA: dsorg=dsorg

Explanation
The dataset organization specified for the input dataset was dsorg. It must be either PS or DA but is not.

Action
Specify a valid dataset organization for sequential file processing or specify the correct processing option for the file being loaded and rerun dasdload.

HHCDL122E

HHCDL122E SEQ recfm must be F or FB: recfm=recfm

Explanation
The record format specified for the input dataset was recfm. It must be either F or FB but is not.

Action
Specify a valid record format for sequential file processing and rerun dasdload.

HHCDL123E

HHCDL123E SEQ invalid lrecl or blksz: lrecl=lrecl blksz=blksz

Explanation
The logical record length specified for the input dataset was lrecl, and the block size was blksz. Either the block size was not a multiple of the logical record length and the record format was specified as FB or the block size was different from the logical record length and the record format was specified as F.

Action
Specify a valid logical record length and block size for sequential file processing and rerun dasdload.
HHCDL124E

HHCDL124E SEQ keyln must be 0 for blocked files

Explanation
The key length was specified as nonzero and the record format was specified as FB. This combination is invalid.

Action
If a key is required, specify a record format of F. If no key is required, specify a key length of 0. Rerun dasdload.

HHCDL125E

HHCDL125E Cannot open filename: error

Explanation
An error was encountered when attempting to open the input file named filename. The error is described by error.

Action
Correct the error and rerun dasdload.

HHCDL126E

HHCDL126E Cannot stat filename: error

Explanation
An error was encountered when attempting to obtain the size of the file named filename. The error is described by error.

Action
Correct the error and rerun dasdload.

HHCDL127E

HHCDL127E filename cyl cylinder head head read error

Explanation
An attempt to read the track in the DASD image file named filename at cylinder cylinder, head head, failed. A previous error described the failure.

Action
Correct the error reported by the previous message and rerun dasdload.
HHCDL128E

HHCDL128E filename read error: error

Explanation
An error was encountered reading the input file named filename. The error is described by error.

Action
Correct the error and rerun dasdload.

HHCDL130W

HHCDL130W WARNING -- XMIT file utility is not IEBCOPY; file filename not loaded

Explanation
The file filename cannot be loaded as an XMIT file because it is not an unloaded PDS.

Action
If filename is an unloaded sequential file, rerun DASDLOAD specifying XMSEQ instead of XMIT.

HHCDL131I

HHCDL131I Control record: recname length length

Explanation
A control record named recname of length length has been read.

Action
None.

HHCDL132I

HHCDL132I File number: filenum ((not) selected)

Explanation
The date file, number filenum was (or was not) selected for processing.

Action
None.

HHCDL133I

HHCDL133I Data record: length length

Explanation
A data record of length length has been read.

Action
None.
HHCDL135I

HHCDL135I CCHHR=\textit{outcchhr} (TTR=\textit{outttr}) KL=\textit{keylen} DL=\textit{datalen}

Explanation
A record with key length \textit{keylen} and data length \textit{datalen} is being written to the output DASD image at absolute address \textit{outcchhr}, relative address \textit{outttr}.

Action
None.

HHCDL136E

HHCDL136E Cannot open file \textit{filename}: error

Explanation
An attempt to open the sequential XMIT input file named \textit{filename} failed. The error is described by \textit{error}.

Action
Correct the error and rerun DASDLOD.

HHCDL137E

HHCDL137E Cannot obtain input buffer: error

Explanation
An attempt to obtain a 64K byte input buffer for reading the sequential XMIT input file failed. The error is described by \textit{error}.

Action
Correct the error and rerun DASDLOD.

HHCDL138W

HHCDL138W WARNING -- XMIT file utility is not INMCOPY; file \textit{filename} not loaded

Explanation
The file \textit{filename} cannot be loaded as an XMSEQ file because it does not appear to contain an unloaded sequential file.

Action
If \textit{filename} is an unloaded PDS file, rerun DASDLOAD specifying XMIT.
HHCDL139I

HHCDL139I Processing file *filename*

**Explanation**
The input file named *filename* is being processed as a sequential XMIT file.

**Action**
None.
54. Messages HHCDSnns - DASDISUP Utility

HHCDSO01E

HHCDSO01E Cannot obtain storage for member array: error

Explanation
An attempt to obtain storage for the array of SYS1.SVCLIB members failed. The error is described by error.

Action
Correct the error and rerun dasdisup.

HHCDSO02I

HHCDSO02I End of directory: count members selected

Explanation
The end of the SYS1.SVCLIB directory has been reached. count members have been selected for processing.

Action
None. This is an informational message.

HHCDSO03E

HHCDSO03E Directory block byte count is invalid

Explanation
The length of the directory block read is invalid. The SYS1.SVCLIB directory is probably corrupt.

Action
Rebuild SYS1.SVCLIB and rerun dasdisup.

HHCDSO04E

HHCDSO04E Number of members exceeds MAX_MEMBERS

Explanation
SYS1.SVCLIB has too many members to fit in the array used to store their information.

Action
Increase the value of MAX_MEMBERS in dasdisup.c and recompile the program, then run it again.
HHCDS005E

HHCDS005E Member member TTR count is zero

Explanation
The member named member has no data associated with it. Since aliases have been skipped already, this means that the SYS1.SVCLIB directory is corrupt.

Action
Rebuild SYS1.SVCLIB and run dasdisup again.

HHCDS006W

HHCDS006W Member member is not single text record

Explanation
The member named member is not contained in a single text record. This is an invalid condition. The member will be skipped later and message HHCDS011E will be issued.

Action
If this member must be processed, rebuild SYS1.SVCLIB and rerun dasdisup.

HHCDS007W

HHCDS007W Member member size size exceeds X'7F8' bytes

Explanation
The member named member is too long. The maximum length of an OS/360 SVC load module is X'7F8' (2040 decimal) bytes. The member will be processed but OS/360 may not process it correctly.

Action
Correct the member in SYS1.SVCLIB and rerun dasdisup.

HHCDS008W

HHCDS008W Member member size size is not a multiple of 8

Explanation
The member named member is not a multiple of 8 bytes long. Its actual size is size. This is not valid for an OS/360 load module. OS/360 will issue an ABEND when an attempt is made to load the module.

Action
Correct the member in SYS1.SVCLIB and rerun dasdisup.
**HHCDS009I**

**HHCDS009I Alias alias skipped**

**Explanation**
The alias named *alias* has been skipped, since no processing is necessary for it.

**Action**
None. This is an informational message.

**HHCDS010I**

**HHCDS010I Member member skipped**

**Explanation**
The member named *member* has been skipped, since it does not have an XCTL table.

**Action**
None. This is an informational message. If the member should have an XCTL table, rebuild it in SYS1.SVCLIB and rerun dasdisup.

**HHCDS011E**

**HHCDS011E Member member has multiple text records**

**Explanation**
The member named *member* has multiple text records. This is not a valid condition for an OS/360 SVC module. The member will not be processed. Message HHCDS006W was issued for this member earlier.

**Action**
If this member must be processed, rebuild it in SYS1.SVCLIB and rerun dasdisup.

**HHCDS012E**

**HHCDS012E Member member has invalid TTR ttr**

**Explanation**
The pointer to the text record for the member named *member* is invalid. The pointer found is *ttr*. The member cannot be located to be processed. The SYS1.SVCLIB directory is probably corrupt.

**Action**
Rebuild SYS1.SVCLIB and rerun dasdisup.
### HHCDS013I

**HHCDS013I Processing member member text record TTR=ttr CCHHR=cchhr**

**Explanation**
The member named *member* is being processed. Its relative location is *ttr* and its absolute location is *cchhr*.

**Action**
None. This is an informational message.

### HHCDS014E

**HHCDS014E Member member error reading TTR ttr**

**Explanation**
An attempt to read the member named *member*, at the relative location *ttr*, failed. The member cannot be processed.

**Action**
Rebuild SYS1.SVCLIB and rerun dasdisup. If this is unsuccessful, rebuild the entire DASD volume.

### HHCDS015E

**HHCDS015E Member member TTR ttr text record length length is not valid**

**Explanation**
The length *length* of the text record at location *ttr* of the member named *member* is less than 8, greater than 1024, or not a multiple of 8. All of these conditions must be met for the length to be valid. The member is probably corrupt.

**Action**
Rebuild the member in SYS1.SVCLIB and rerun dasdisup.

### HHCDS016E

**HHCDS016E Member member TTR ttr text record length textlength does not match length dirlength in directory**

**Explanation**
The length *textlength* of the text record at location *ttr* is not the same as the length *dirlength* in the directory entry for member *member*. Either the member, or the directory, is probably corrupt.

**Action**
Rebuild the member in SYS1.SVCLIB and rerun dasdisup. If this does not correct the problem, rebuild SYS1.SVCLIB in its entirety.
**HHCD017E**

**HHCD017E Member member TTR ttr XCTL table improperly terminated**

**Explanation**
The XCTL table in member member at location ttr runs past the end of the text record. The member is probably corrupt.

**Action**
Rebuild the member and rerun dasdisup.

**HHCD018I**

**HHCD018I member (Alias|Member) skipped**

**Explanation**
The member or alias named member is not an Open, Close, or EOV module, and so does not have an XCTL table that needs to be updated. It has been skipped.

**Action**
None. This is an informational message.

**HHCD019I**

**HHCD019I In member member: reference TTRL=tTRL status**

**Explanation**
A reference to the member named reference in the member named member was found, the referenced member is at the location ttrl in the table. status is optional; it may be one of:

** Member reference not found**
The referenced member was not found in SYS1.SVCLIB. The reference cannot be updated.

**replaced by TTRL=newttrl flag**
The reference was updated to point to the referenced member's actual location at newttrl. If flag is ****, the actual length of the referenced member is different from the length of the member in the reference pointer.

**Action**
None. This is an informational message.
55. Messages HHCDTnnns - DASDCAT Utility

HHCDT001E

HHCDT001E failed to open image filename

Explanation
An error was encountered trying to open the DASD image file named filename. A previous message described the error.

Action
Correct the error and rerun dasdcat.

HHCDT002E

HHCDT002E Can't make 80 column card images from block length length

Explanation
A block read from the member specified is not a multiple of 80 characters long, and so cannot be split evenly into 80-character card images. The actual length read is length.

Action
Select a different member, or omit the c flag from the member specification.

HHCDT003E

HHCDT003E Directory block byte count is invalid

Explanation
The length of a PDS directory block in the specified dataset is invalid. The PDS directory is corrupt or the dataset is not a PDS.

Action
Make sure the dataset specified is a PDS (partitioned dataset). If it is, then the dataset is corrupt.

HHCDT004E

HHCDT004E non-PDS-members not yet supported

Explanation
This version of dasdcat does not support reading sequential datasets.

Action
Specify a PDS as input to dasdcat.
HHCDT005E

HHCDT005E unknown dataset name option: 'option'

Explanation
An invalid option was specified on the dataset name specification. Only the options 'a' and 'c' are valid.

Action
Remove the invalid option from the dataset name specification and rerun dasdcat.
56. Messages HHCDUnnns - DASD Utilities Common Functions

HHCDU001I

HHCDU001I Updating cyl cylinder head head

Explanation
The track at cylinder number cylinder and head number head is being rewritten after being modified. This message is only issued if verbose message reporting has been selected.

Action
None. This is an informational message.

HHCDU002E

HHCDU002E filename write track error: stat=status

Explanation
An attempt to rewrite a track from the DASD image named filename failed. The status returned was status.

Action
Correct the error and retry the operation.

HHCDU003I

HHCDU003I Reading cyl cylinder head head

Explanation
The track at cylinder number cylinder and head number head is being read. This message is only issued if verbose message reporting has been selected.

Action
None. This is an informational message.

HHCDU004E

HHCDU004E filename read track error: stat=status

Explanation
An attempt to read a track from the DASD image named filename failed. The status returned was status.

Action
Correct the error and retry the operation.
HHCDU005I

HHCDU005I Searching extent 0 begin (begcyl,beghead) end (endcyl,endhead)

Explanation
The first extent of the dataset is being searched for a key. The extent starts at the track at cylinder begcyl, head beghead, and ends at the track at cylinder endcyl, head endhead. This message is only issued if verbose message reporting has been selected.

Action
None. This is an informational message.

HHCDU006I

HHCDU006I Searching extent extent begin (begcyl,beghead) end (endcyl,endhead)

Explanation
An extent, extent, of the dataset is being searched for a key. The extent starts at the track at cylinder begcyl, head beghead, and ends at the track at cylinder endcyl, head endhead. This message is only issued if verbose message reporting has been selected.

Action
None. This is an informational message.

HHCDU007E

HHCDU007E Track track not found in extent table

Explanation
An attempt was made to convert a track number to an absolute address, but the track specified, track, is beyond the end of the dataset.

Action
Correct the error and retry the operation. The dataset, the VTOC, or the DASD image may be corrupt.

HHCDU008E

HHCDU008E Cannot obtain storage for device descriptor buffer: error

Explanation
An attempt to obtain storage for the buffer used to hold a CKD DASD image description failed. The error is described by error.

Action
Correct the error and retry the operation.
HHCDU009E

HHCDU009E Cannot open filename: error

Explanation
The CKD image file named filename could not be opened. The error is described by error.

Action
Correct the error and retry the operation.

HHCDU010E

HHCDU010E filename read error: error

Explanation
An error was encountered while reading the CKD header record from the file named filename. The error is described by error.

Action
Correct the error and retry the operation.

HHCDU011E

HHCDU011E filename CKD header invalid

Explanation
The file filename is not a valid CKD DASD image file. Either the first record is not the length of a CKD header record or the marker in the header record is not correct.

Action
Supply the name of a valid CKD DASD image file and retry the operation.

HHCDU012E

HHCDU012E DASD table entry not found for devtype type

Explanation
The device type in the CKD header record does not correspond to any known DASD device. The CKD DASD image file may be corrupt or the device is not supported by Hercules.

Action
Supply the name of a supported CKD DASD image file and retry the operation.
HHCDU013E

HHCDU013E CKD initialization failed for filename

Explanation
The device-specific initialization routine for the file named filename failed. Another message describes the specific failure.

Action
See the specific message for the action needed.

HHCDU014I

HHCDU014I filename heads=heads trklen=trklen

Explanation
The device represented by the CKD DASD image file named filename has heads heads and tracks of trklen bytes length. This message is only issued if verbose message reporting has been selected.

Action
None. This is an informational message.

HHCDU015I

HHCDU015I Updating cyl cylinder head head

Explanation
During processing of a request to close the CKD image file, the track at cylinder number cylinder and head number head is being rewritten, since it has been modified. This message is only issued if verbose message reporting has been selected.

Action
None. This is an informational message.

HHCDU016E

HHCDU016E filename write track error: stat=status

Explanation
During processing of a request to close the CKD image file, an attempt to rewrite a track from the DASD image named filename failed. The status returned was status.

Action
Correct the error and retry the operation.
HHCDU017E
HHCDU017E Cannot obtain storage for device descriptor buffer:  

Explanation
An attempt to obtain storage for the buffer used to hold a FBA DASD image description failed. The error is described by error.

Action
Correct the error and retry the operation.

HHCDU018E
HHCDU018E DASD table entry not found for devtype type

Explanation
The default FBA device type does not correspond to any known DASD device. This is likely an internal programming error.

Action
Report the bug to the Hercules development team.

HHCDU019E
HHCDU019E FBA initialization failed for filename

Explanation
The device-specific initialization routine for the file named filename failed. Another message describes the specific failure.

Action
See the specific message for the action needed.

HHCDU020I
HHCDU020I filename sectors=sectors size=size

Explanation
The device represented by the FBA DASD image file named filename has sectors sectors of size bytes length. This message is only issued if verbose message reporting has been selected.

Action
None. This is an informational message.
HHCDU021E

HHCDU021E VOL1 record not found

Explanation
The volume being processed does not have a volume label. It is probably blank and unformatted.

Action
Format the volume or specify a formatted volume and retry the operation.

HHCDU022I

HHCDU022I VOLSER=serial VTOC=cchhr

Explanation
The volume being processed has the volume serial serial and its VTOC format 4 DSCB is at absolute location cchhr. This message is only issued if verbose message reporting has been selected.

Action
None. This is an informational message.

HHCDU023I

HHCDU023I VTOC start begcchh end endcchh

Explanation
The VTOC of the volume being processed begins at cylinder and head begcchh and ends at cylinder and head endcchh. This message is only issued if verbose message reporting has been selected.

Action
None. This is an informational message.

HHCDU024E

HHCDU024E Dataset dsn not found in VTOC

Explanation
The requested dataset dsn was not found in the VTOC and does not exist on this volume.

Action
Specify the correct dataset name or select the volume on which it appears.

HHCDU025I

HHCDU025I DSNAME=dsn F1DSCB CCHHR=cchhr

Explanation
The format 1 DSCB for the requested dataset dsn is at absolute location cchhr. This message is only issued if verbose message reporting has been selected.
**HHCDU026E**

**HHCDU026E F1DSCB record not found**

**Explanation**
The requested dataset is listed in the VTOC but its format 1 DSCB record was not found when an attempt was made to read it. The VTOC may be corrupt.

**Action**
Recreate the dataset and retry the operation.

**HHCDU027E**

**HHCDU027E F3DSCB record not found**

**Explanation**
The requested dataset is reported to contain more than three extents in the format 1 DSCB but its format 3 DSCB record was not found when an attempt was made to read it. The VTOC may be corrupt.

**Action**
Recreate the dataset and retry the operation.

**HHCDU028E**

**HHCDU028E filename open error: error**

**Explanation**
An attempt to create the CKD DASD image file named `filename` failed. The error is described by `error`.

**Action**
Correct the error and retry the operation.

**HHCDU029E**

**HHCDU029E filename device header write error: error**

**Explanation**
An attempt to write the device header to the CKD DASD image file named `filename` failed. The error is described by `error`.

**Action**
Correct the error and retry the operation.
HHCDU030E

HHCDU030E filename compressed device header write error: error

Explanation
An attempt to write the compressed device header to the CKD DASD image file named filename failed. The error is described by error.

Action
Correct the error and retry the operation.

HHCDU031E

HHCDU031E Cannot obtain l1tab buffer: error

Explanation
An attempt to obtain storage for the primary lookup table buffer failed. The error is described by error.

Action
Correct the error and retry the operation.

HHCDU032E

HHCDU032E filename primary lookup table write error: error

Explanation
An attempt to write the primary lookup table to the CKD DASD image file named filename failed. The error is described by error.

Action
Correct the error and retry the operation.

HHCDU033E

HHCDU033E filename secondary lookup table write error: error

Explanation
An attempt to write the secondary lookup table to the CKD DASD image file named filename failed. The error is described by error.

Action
Correct the error and retry the operation.

HHCDU034E

HHCDU034E filename dasdcopy ftruncate error: error

Explanation
An attempt to truncate the CKD DASD image file named filename failed. The error is described by error.
**HHCDU035E**

**HHCDU035E filename cylinder c|yl head head write error: error**

**Explanation**  
An attempt to write the track at cylinder cyl, head head to the CKD DASD image file named filename failed. The error is described by error.

**Action**  
Correct the error and retry the operation.

---

**HHCDU036E**

**HHCDU036E filename compressed device header lseek error: error**

**Explanation**  
An attempt to reposition to the beginning of the CKD DASD image file named filename failed. The error is described by error.

**Action**  
Correct the error and retry the operation.

---

**HHCDU037E**

**HHCDU037E filename compressed device header write error: error**

**Explanation**  
An attempt to rewrite the compressed device header record of the CKD DASD image file named filename failed. The error is described by error.

**Action**  
Correct the error and retry the operation.

---

**HHCDU038E**

**HHCDU038E filename secondary lookup table lseek error: error**

**Explanation**  
An attempt to reposition to the secondary lookup table of the CKD DASD image file named filename failed. The error is described by error.

**Action**  
Correct the error and retry the operation.
HHCDU039E

HHCDU039E filename secondary lookup table write error: error

Explanation
An attempt to rewrite the secondary lookup table of the CKD DASD image file named filename failed. The error is described by error.

Action
Correct the error and retry the operation.

HHCDU040E

HHCDU040E filename close error: error

Explanation
An attempt to close the CKD DASD image file named filename failed. The error is described by error.

Action
Correct the error and retry the operation.

HHCDU041I

HHCDU041I count cylinders successfully written to file filename

Explanation
The CKD DASD image file named filename has been successfully created. It contains count cylinders.

Action
None. This is an informational message.

HHCDU042E

HHCDU042E Cylinder count count is outside range min-max

Explanation
The requested number of cylinders count is outside the valid range from min to max.

Action
Specify a valid number of cylinders and retry the operation.

HHCDU043E

HHCDU043E Cannot obtain track buffer: error

Explanation
An attempt to obtain storage for the track buffer failed. The error is described by error.
HHCDU044I

HHCDU044I Creating type volume serial: cylinders cyls, tracks trks/cyl, length bytes/track

Explanation
A new volume is being created of device type type and volume serial number serial. It has cylinders cylinders, tracks tracks per cylinder and length length bytes per track.

Action
Correct the error and retry the operation.

HHCDU045E

HHCDU045E Sector count count is outside range min-max

Explanation
The requested number of sectors count is outside the valid range from min to max.

Action
Specify a valid number of cylinders and retry the operation.

HHCDU046E

HHCDU046E Cannot obtain sector buffer: error

Explanation
An attempt to obtain storage for the sector buffer failed. The error is described by error.

Action
Correct the error and retry the operation.

HHCDU047I

HHCDU047I Creating type volume serial: sectors sectors, length bytes/sector

Explanation
A new volume is being created of device type type and volume serial number serial. It has sectors sectors and length length bytes per sector.

Action
None. This is an informational message.
HHCDU048E

HHCDU048E filename open error: error

Explanation
An attempt to create the FBA DASD image file named filename failed. The error is described by error.

Action
Correct the error and retry the operation.

HHCDU049E

HHCDU049E filename dasdcopy ftruncate error: error

Explanation
An attempt to truncate the FBA DASD image file named filename failed. The error is described by error.

Action
Correct the error and retry the operation.

HHCDU050E

HHCDU050E filename sector sector write error: error

Explanation
An attempt to write sector number sector to the FBA DASD image file named filename failed. The error is described by error.

Action
Correct the error and retry the operation.

HHCDU051E

HHCDU051E filename close error: error

Explanation
An attempt to close the FBA DASD image file named filename failed. The error is described by error.

Action
Correct the error and retry the operation.

HHCDU052I

HHCDU052I count sectors successfully written to file filename

Explanation
The FBA DASD image file named filename has been successfully created. It contains count sectors.
HHCDU053E

HHCDU053E File size too large: size [/1tab]

Explanation
The requested file size size would result in a primary lookup table that is too large. The DASD image cannot be created as a compressed image.

Action
Either specify fewer sectors or create the DASD image uncompressed.

HHCDU054E

HHCDU054E filename open error: error

Explanation
An attempt to create the compressed FBA DASD image file named filename failed. The error is described by error.

Action
Correct the error and retry the operation.

HHCDU055I

HHCDU055I Creating type compressed volume serial: sectors sectors, length bytes/sector

Explanation
A new compressed FBA volume is being created of device type type and volume serial number serial. It has sectors sectors and length bytes per sector.

Action
None. This is an informational message.

HHCDU056E

HHCDU056E filename devhdr write error: error

Explanation
An attempt to write the device header to the compressed FBA DASD image file named filename failed. The error is described by error.

Action
Correct the error and retry the operation.
HHCDU057E

HHCDU057E *filename* cdevhdr write error: *error*

**Explanation**
An attempt to write the compressed device header to the compressed FBA DASD image file named *filename* failed. The error is described by *error*.

**Action**
Correct the error and retry the operation.

HHCDU058E

HHCDU058E *filename* l1tab write error: *error*

**Explanation**
An attempt to write the primary lookup table to the compressed FBA DASD image file named *filename* failed. The error is described by *error*.

**Action**
Correct the error and retry the operation.

HHCDU059E

HHCDU059E *filename* l2tab write error: *error*

**Explanation**
An attempt to write the secondary lookup table to the compressed FBA DASD image file named *filename* failed. The error is described by *error*.

**Action**
Correct the error and retry the operation.

HHCDU060E

HHCDU060E *filename* block header write error: *error*

**Explanation**
An attempt to write a compressed block header to the compressed FBA DASD image file named *filename* failed. The error is described by *error*.

**Action**
Correct the error and retry the operation.
HHCDU061E

HHCDU061E \textit{filename} block write error: \textit{error}

\textbf{Explanation}
An attempt to write a compressed block to the compressed FBA DASD image file named \textit{filename} failed. The error is described by \textit{error}.

\textbf{Action}
Correct the error and retry the operation.

HHCDU062E

HHCDU062E \textit{filename} block write error: \textit{error}

\textbf{Explanation}
An attempt to write an uncompressed block to the compressed FBA DASD image file named \textit{filename} failed. The error is described by \textit{error}.

\textbf{Action}
Correct the error and retry the operation.

HHCDU063E

HHCDU063E \textit{filename} cdevhdr lseek error: \textit{error}

\textbf{Explanation}
An attempt to reposition to the beginning of the compressed FBA DASD image file named \textit{filename} failed. The error is described by \textit{error}.

\textbf{Action}
Correct the error and retry the operation.

HHCDU064E

HHCDU064E \textit{filename} cdevhdr rewrite error: \textit{error}

\textbf{Explanation}
An attempt to rewrite the compressed device header record of the compressed FBA DASD image file named \textit{filename} failed. The error is described by \textit{error}.

\textbf{Action}
Correct the error and retry the operation.
HHCDU065E

HHCDU065E filename l2tab lseek error: error

Explanation
An attempt to reposition to the secondary lookup table of the compressed FBA DASD image file named filename failed. The error is described by error.

Action
Correct the error and retry the operation.

HHCDU066E

HHCDU066E filename l2tab rewrite error: error

Explanation
An attempt to rewrite the secondary lookup table of the compressed FBA DASD image file named filename failed. The error is described by error.

Action
Correct the error and retry the operation.

HHCDU067E

HHCDU067E filename close error: error

Explanation
An attempt to close the compressed FBA DASD image file named filename failed. The error is described by error.

Action
Correct the error and retry the operation.

HHCDU068I

HHCDU068I count sectors successfully written to file filename

Explanation
The compressed FBA DASD image file named filename has been successfully created. It contains count sectors.

Action
None. This is an informational message.
57. Messages HHCHDnnns - Hercules Dynamic Loader

HHCHD001E

HHCHD001E registration alloc failed for entry

Explanation
Storage could not be obtained to register entrypoint entry

Action
Correct the error and restart Hercules.

HHCHD002E

HHCHD002E cannot allocate memory for DLL descriptor: error

Explanation
Initialisation of the dynamic loader environment failed due to the error described by error.

Action
Correct the error and restart Hercules.

HHCHD003E

HHCHD003E unable to open Hercules as DLL: error

Explanation
The main Hercules load module could not be opened by the dynamic loader. The dynamic loader error is described by error

Action
Correct the error and restart Hercules.

HHCHD004I

HHCHD004I No initializer in module: error

Explanation
The initializer in DLL named module could not be found. The error is described by error

Action
Correct the error and restart Hercules.
HHCHD005E

HHCHD005E module already loaded.

Explanation
An attempt was made to load an already loaded module.

Action
Unload to module first.

HHCHD006S

HHCHD006S cannot allocate memory for DLL descriptor: error

Explanation
Initialisation of the dynamic loader environment failed due to the error described by error.

Action
Correct the error and restart Hercules.

HHCHD007E

HHCHD007E unable to open DLL module: error

Explanation
The DLL named module could not be opened. The error is described by error.

Action
Ensure that the correct module is specified and is accessible.

HHCHD008I

HHCHD008I No initializer in module: error

Explanation
The initializer in DLL named module could not be found. The error is described by error.

Action
Correct the error and restart Hercules.

HHCHD009E

HHCHD009E module not found

Explanation
An attempt was made to unload a module that was not loaded.

Action
No action required.
HHCHD010I

HHCHD010I Dependency check failed for *module*, version(*vers_actual*) expected(*vers_exp*)

Explanation
The version of the module's required dependency does not match the version of the dependency in the module that contains the dependency.

Action
No action required.

HHCHD011I

HHCHD011I Dependency check failed for *module*, size(*size_actual*) expected(*size_exp*)

Explanation
The size of the module's required dependency does not match the size of the dependency in the module that contains the dependency.

Action
No action required.

HHCHD012E

HHCHD012E No dependency section in *module*: error

Explanation
The module being loaded does not contain the required dependency section. The error is described by *error*.

Action
Rebuild the module with the required HDL_DEPENDENCY_SECTION defined.

HHCHD013E

HHCHD013E No dependency section in *module*: error

Explanation
The module being loaded does not contain the required dependency section. The error is described by *error*.

Action
Rebuild the module with the required HDL_DEPENDENCY_SECTION defined.
HHCHD014E

HHCHD014E Dependency check failed for module module

Explanation
One or more required dependencies were not satisfied. The preceding HHCHD010I and/or HHCHD011I message(s) identifies which of the dependencies failed and the reason why.

Action
If the module was not loaded, rebuild the module using the same version of the required dependency as the module that contains the dependency and try again.

HHCHD015E

HHCHD015E Unloading of module not allowed

Explanation
An attempt was made to unload a module that was not allowed to be unloaded.

Action
No action required.

HHCHD018I

HHCHD018I Loadable module directory is dir

Explanation
The default loadable module directory was manually changed to dir via either a supplied MODPATH configuration file statement or via the -d command line option.

Action
No action required.

HHCHD100I

HHCHD100I Loading module ...

Explanation
Module module is being loaded.

Action
No action required.

HHCHD101I

HHCHD101I Module module loaded

Explanation
Module module has been loaded.
Action
No action required

HHCHD102I

HHCHD102I Unloading module ...

Explanation
Module module is being unloaded.

Action
No action required

HHCHD103I

HHCHD103I Module module unloaded

Explanation
Module module has been unloaded.

Action
No action required
58. Messages HHCHEnnns - HETINIT Utility

**HHCHEnnns**

Messages HHCHEnnns are not yet documented.
59. Messages HHCHGnnns - HETGET Utility

HHCHGnnns
Messages HHCHGnnns are not yet documented.
60. Messages HHCHMnns - HETMAP Utility

HHCHMnns
Messages HHCHMnns are not yet documented.
61. Messages HHCHTnnns - HTTP Server

HHCHT001I

HHCHT001I HTTP listener thread started: tid=threadid, pid=processid

Explanation
The HTTP server thread to accept and process incoming requests has been started. The thread id is threadid and the process id is processid.

Action
No action required.

HHCHT002E

HHCHT002E socket: error

Explanation
An attempt to obtain a TCP socket to receive HTTP requests failed. The error is described by error.

Action
Correct the error and restart Hercules.

HHCHT003W

HHCHT003W Waiting for port port to become free

Explanation
The thread that handles HTTP connection requests is waiting for the TCP port denoted by port to become available for use.

Action
If this message persists, some other program has control of the TCP port listed. Find out which one it is and terminate it.

HHCHT004E

HHCHT004E bind: error

Explanation
An attempt to bind the socket to the TCP port to receive HTTP requests failed. The error is described by error.

Action
Correct the error and restart Hercules.
**HHCHT005E**

**HHCHT005E listen: error**

**Explanation**  
An attempt to put the socket into listening state for HTTP requests failed. The error is described by *error*.

**Action**  
Correct the error and restart Hercules.

---

**HHCHT006I**

**HHCHT006I Waiting for HTTP requests on port port pid=num**

**Explanation**  
Hercules is ready to accept HTTP requests on port *port*.

**Action**  
No action required.

---

**HHCHT007E**

**HHCHT007E select: error**

**Explanation**  
An attempt to wait for data from HTTP requests failed. The error is described by *error*.

**Action**  
Correct the error and restart Hercules.

---

**HHCHT008E**

**HHCHT008E accept: error**

**Explanation**  
An attempt to accept a TCP connection for HTTP requests failed. The error is described by *error*.

**Action**  
Correct the error and restart Hercules.

---

**HHCHT009E**

**HHCHT009E fdopen: error**

**Explanation**  
An attempt to open the socket for reading HTTP requests failed. The error is described by *error*.

**Action**  
Correct the error and restart Hercules.
HHCHT010E

HHCHT010E http_request create_thread: error

Explanation
An attempt to create a thread for processing HTTP requests failed. The error is described by error.

Action
Correct the error and restart Hercules.

HHCHT011E

HHCHT011E html_include: Cannot open filename: error

Explanation
The file named filename, which was included from another file, could not be opened. The error is described by error.

Action
Correct the error and retry the operation.

HHCHT014I

HHCHT014I HTTROOT = pathname

Explanation
The root directory path for the HTTP server is pathname.

Action
No action required.
62. Messages HHCHUnnns - HETUPD Utility

HHCHUnnns
Messages HHCHUnnns are not yet documented.
63. Messages HHCIFnnns - Network Interface Configuration Handler (hercific)

HHCIF001E

HHCIF001E programname: Must be called from within Hercules.

Explanation
This program can only be called from Hercules itself and may not be executed from the command line. The program was executed using the name programname.

Action
Don't do that.

HHCIF002E

HHCIF002E programname: Cannot obtain socket: error

Explanation
An attempt to obtain a socket for controlling the destination interface failed. The error is described by error. The program was executed using the name programname.

Action
Correct the error and retry the operation.

HHCIF003E

HHCIF003E programname: I/O error on read: error

Explanation
An attempt to read a request from Hercules failed. The error is described by error. The program was executed using the name programname.

Action
Correct the error and retry the operation.

HHCIF004W

HHCIF004W programname: Unknown request: request.

Explanation
The request from Hercules was invalid. The request code was request. The request has been ignored. The program was executed using the name programname.

Action
Make sure that the hercific program is the same version as the running copy of Hercules. If so, this is an internal error. Report it.
HH CIF005E

HH CIF005E *programname*: ioctl error doing *operation* on *interface*: *error*

Explanation
An attempt to perform an ioctl operation *operation* on interface *interface* failed. The error is described by *error*. The program was executed using the name *programname*.

Action
Correct the error and retry the operation.
64. Messages HHCINnnns - Hercules Initialization

**HHCIN001S**

**HHCIN001S Cannot register SIGINT handler: error**

**Explanation**
An attempt to register a handler for the SIGINT signal failed. The error is described by error.

**Action**
Correct the error and restart Hercules.

**HHCIN002E**

**HHCIN002E Cannot suppress SIGPIPE signal: error**

**Explanation**
An attempt to ignore the SIGPIPE signal failed. The error is described by error. This will cause Hercules to terminate abnormally if a printer device is defined to a pipe and that pipe is closed while data is being written to it.

**Action**
Correct the error and restart Hercules. Do not print to a pipe until you have corrected the error.

**HHCIN003S**

**HHCIN003S Cannot register SIGILL/FPE/SEGV/BUS/USR handler: error**

**Explanation**
An attempt to register a handler for one of the listed signals failed. The error is described by error.

**Action**
Correct the error and restart Hercules.

**HHCIN004S**

**HHCIN004S Cannot create watchdog thread: error**

**Explanation**
An attempt to create the watchdog thread to monitor Hercules execution failed. The error is described by error.

**Action**
Correct the error and restart Hercules.
HHCIN005S

HHCIN005S Cannot create http_server thread: error

Explanation
An attempt to create the HTTP server thread failed. The error is described by error.

Action
Correct the error and restart Hercules.

HHCIN006S

HHCIN006S Cannot create panel thread: error

Explanation
An attempt to create the operator control panel thread failed. The error is described by error.

Action
Correct the error and restart Hercules.

HHCIN007S

HHCIN007S Cannot create devnum connection thread: error

Explanation
The shared device server was unable to create the thread meant to manage remote device devnum. The error is described by error.

Action
Correct the error and restart Hercules.

HHCIN008S

HHCIN008S DYNGUI.DLL load failed; Hercules terminated.

Explanation
The external GUI interface module 'dyngui.dll' could not loaded. The preceding HHCHD007E message should provide the reason for the failure.

Action
Correct the error and restart Hercules. If the error is Win32 error 126 ("The specified module could not be found"), check your Windows PATH setting and/or your MODPATH control statement to ensure one or both of them includes the directory where Hercules is executing from.
HHCIN099I Hercules terminated

Explanation
Hercules has ended.

Action
No action required.
65. Messages HHCLCnnns - LCS Emulation

HHCLC001E
HHCLC001E nnnn unable to allocate LCSBLK

Explanation
There is insufficient storage to allocate the control block for LCS device number nnnn.

Action
Correct the error and restart Hercules.

HHCLC017E
HHCLC017E nnnn invalid device name devname

Explanation
The value of the -n or -dev parameter in the configuration statement for LCS device number nnnn is missing or too long.

Action
Correct the parameter and reinitialize the device.

HHCLC018E
HHCLC018E nnnn invalid MAC address macaddr

Explanation
The value of the -m or -mac parameter in the configuration statement for LCS device number nnnn is not a valid MAC address.

Action
Correct the parameter and reinitialize the device.

HHCLC019E
HHCLC019E nnnn too many arguments in statement

Explanation
The configuration statement for LCS device number nnnn contains too many positional parameters.

Action
Correct the statement and restart Hercules.
HHCLC020E
HHCLC020E nnnn invalid IP address ipaddr

Explanation
The first positional parameter in the configuration statement for LCS device number nnnn is not a valid IP address.

Action
Correct the statement and reinitialize the device.

HHCLC021E
HHCLC021E Invalid HWADD statement in filename: stmt

Explanation
The port number parameter of the HWADD statement stmt in OAT file filename is not numeric.

Action
Correct the statement and reinitialize the device.

HHCLC022E
HHCLC022E Invalid MAC in HWADD statement in filename: stmt (macaddr)

Explanation
The second positional parameter of the HWADD statement stmt in OAT file filename is not a valid MAC address.

Action
Correct the parameter and reinitialize the device.

HHCLC023E
HHCLC023E Invalid ROUTE statement in filename: stmt

Explanation
The port number parameter of the ROUTE statement stmt in OAT file filename is not numeric.

Action
Correct the statement and reinitialize the device.

HHCLC024E
HHCLC024E Invalid net address in ROUTE filename: stmt (netaddr)

Explanation
The second positional parameter of the ROUTE statement stmt in OAT file filename is not a valid IP network address.

Action
Correct the parameter and reinitialize the device.
HHCLC025E
HHCLC025E Invalid net mask in ROUTE filename: stmt (netaddr)

Explanation
The third positional parameter of the ROUTE statement stmt in OAT file filename is not a valid IP network mask.

Action
Correct the parameter and reinitialize the device.

HHCLC026E
HHCLC026E Error in filename: Missing device number or mode

Explanation
The OAT file filename contains a statement which cannot be identified.

Action
Correct the statement and reinitialize the device.

HHCLC027E
HHCLC027E Error in filename: devnum: Invalid device number

Explanation
The device number devnum specified in the OAT file filename is not a valid hexadecimal number.

Action
Correct the statement and reinitialize the device.

HHCLC028E
HHCLC028E Error in filename: stmt: Missing PORT number

Explanation
Statement stmt in OAT file filename for the IP port of an LCS device does not contain a port number.

Action
Correct the statement and reinitialize the device.

HHCLC029E
HHCLC029E Error in filename: port: Invalid PORT number

Explanation
The port number port specified in the OAT file filename for the IP port of an LCS device is not a valid decimal number.

Action
Correct the statement and reinitialize the device.
HHCLC031E
HHCLC031E Error in filename: stmt: Invalid entry starting at text

Explanation
The parameter text specified in statement stmt in the OAT file filename should be PRI, SEC, or NO.

Action
Correct the statement and reinitialize the device.

HHCLC032E
HHCLC032E Error in filename: stmt: Invalid IP address (ipaddr)

Explanation
The parameter ipaddr specified in statement stmt in the OAT file filename is not a valid IP address.

Action
Correct the statement and reinitialize the device.

HHCLC033E
HHCLC033E Error in filename: stmt: Missing PORT number

Explanation
Statement stmt in OAT file filename for the SNA port of an LCS device does not contain a port number.

Action
Correct the statement and reinitialize the device.

HHCLC034E
HHCLC034E Error in filename: port: Invalid PORT number

Explanation
The port number port specified in the OAT file filename for the SNA port of an LCS device is not a valid decimal number.

Action
Correct the statement and reinitialize the device.

HHCLC035E
HHCLC035E Error in filename: stmt: SNA does not accept any arguments

Explanation
Statement stmt in OAT file filename for the SNA port of an LCS device contains positional parameters which are not used for SNA ports.

Action
Correct the statement and reinitialize the device.
HHCLC036E
HHCLC036E Error in *filename*: *mode*: Invalid MODE

Explanation
Mode *mode* specified in a device statement in the OAT file *filename* should be IP or SNA.

Action
Correct the statement and reinitialize the device.

HHCLC037E
HHCLC037E Error reading file *filename* line *nnnn*: *description*

Explanation
An error occurred reading the OAT file for an LCS device. *description* is the operating system’s description of the error. The error occurred at line *nnnn* of file *filename*.

Action
Check that the correct OAT file name is specified in the configuration file.

HHCLC038E
HHCLC038E File *filename* line *nnnn* is too long

Explanation
An error occurred reading the OAT file for an LCS device. The error occurred at line *nnnn* of file *filename*. Either the line exceeds 255 characters, or there is no linefeed at the end of the file.

Action
Correct the OAT file.

HHCLC039E
HHCLC039E Cannot open file *filename*: *description*

Explanation
An error occurred opening the OAT file *filename* for an LCS device. *description* is the operating system’s description of the error.

Action
Check that the correct OAT file name is specified in the configuration file.

HHCLC040E
HHCLC040E *nnnn* LCSDEV *mmmm* not in configuration

Explanation
The device number *mmmm* specified in the OAT file does not match the LCS device number *nnnn* in the configuration file.
HHCLC055I
HHCLC055I tapn using MAC hh:hh:hh:hh:hh:hh
Explanation
The MAC address assigned the TUN/TAP device tapn is hh:hh:hh:hh:hh:hh.
Action
None. This is an informational message.

HHCLC056W
HHCLC056W tapn NOT using MAC hh:hh:hh:hh:hh:hh
Explanation
MAC address hh:hh:hh:hh:hh:hh was requested in the configuration statement or in the OAT file for an LCS device but the operating system did not accept the request to change the MAC address for TUN/TAP device tapn.
Action
The device will use the MAC address shown in the preceding HHCLC055I message.

HHCLC073I
HHCLC073I nnnn: TAP device tapn opened
Explanation
LCS device number nnnn is now associated with the kernel TUN/TAP device named tapn.
Action
None. This is an informational message.
66. Messages HHCLGnnns - System Log Functions

HHCLG001E
HHCLG001E Error redirecting stdout: error
Explanation
The stdout stream could not be redirected to the system logger. The error is described by error.

HHCLG002E
HHCLG002E Error reading syslog pipe: error
Explanation
An error occurred while reading the syslog pipe. The error is described by error.

HHCLG003E
HHCLG003E Error writing hardcopy log: error
Explanation
The error as indicated by error occurred while writing the hardcopy log.

HHCLG004E
HHCLG004E Error duplicating stderr: error
Explanation
Stderr could not be redirected to stdout. The error is described by error.

HHCLG005E
HHCLG005E Error duplicating stdout: error
Explanation
Stdout could not be redirected to stderr. The error is described by error.

HHCLG006E
HHCLG006E Duplicate error redirecting hardcopy log: error
Explanation
The error described by error occurred whilst redirecting the hardcopy log.
HHCLG007S

HHCLG007S Hardcopy log fdopen failed: error

Explanation
An attempt to open a stream for the hardcopy log failed. The error is described by error.

HHCLG008S

HHCLG008S logbuffer malloc failed: error

Explanation
An instorage buffer for the system log could not be obtained. The error is described by error.

HHCLG009S

HHCLG009S Syslog message pipe creation failed: error

Explanation
An attempt to create the pipe for the system logger failed. The error is described by error.

Action
Check that your firewall is not preventing Hercules from opening a listening pipe.

HHCLG012E

HHCLG012E Cannot create logger thread: error

Explanation
An attempt to create the logger thread failed. Error is the description of the error code returned by the pthread_create call.

Action
If the error is "No error" ensure that Hercules has been correctly linked with the pthread library.

HHCLG014E

HHCLG014E Log not active

Explanation
A log off command was issued but there was no active log file.

Action
None.
HHCLG015I

HHCLG015I Log closed

Explanation
The active log file has been closed as a result of a log off command.

Action
None. This is an informational message.

HHCLG016E

HHCLG016E Error opening log file filename: error

Explanation
The new log file requested by a log command could not be opened. error is the description of the error code returned by the open call.

Action
Reissue the log command with the correct filename.

HHCLG017S

HHCLG017S Log file fdopen failed for filename: error

Explanation
The logger was unable to obtain the file descriptor for the new log file requested by a log command. error is the description of the error code returned by the fdopen call.

Action
Reissue the log command with the correct filename.

HHCLG018I

HHCLG018I Log switched to filename

Explanation
As a result of a log command the logger is now writing to the requested log file.

Action
None. This is an informational message.
67. Messages HHCPNnnns - Control Panel Command Messages

HHCPN001I

Control panel thread started: tid=threadid, pid=processid

Explanation
The control panel thread has been started. Its thread id is threadid and its process id is processid.

Action
No action required.

HHCPN002S

Cannot obtain keyboard buffer: error

Explanation
An attempt to obtain memory for the keyboard buffer, used to hold operator input, failed. The error is described by error.

Action
Correct the error and restart Hercules.

HHCPN003S

Cannot obtain message buffer: error

Explanation
An attempt to obtain memory for the message buffer, used to hold operator output, failed. The error is described by error.

Action
Correct the error and restart Hercules.

HHCPN004E

select: error

Explanation
An error was encountered while waiting for input from the console. The error is described by error.

Action
Correct the error and retry the operation.
**HHCPN005E**

**HHCPN005E keyboard read: error**

**Explanation**
An error was encountered while attempting to read keyboard input. The error is described by *error*.

**Action**
Correct the error and retry the operation.

**HHCPN006E**

**HHCPN006E message pipe read: error**

**Explanation**
An error was encountered while attempting to read from the pipe used to communicate to the control panel thread from the rest of Hercules. The error is described by *error*.

**Action**
Correct the error and retry the operation.

**HHCPN007E**

**HHCPN007E RC file *filename* open failed: error**

**Explanation**
The RC file containing commands to be executed at Hercules startup, named *filename*, could not be opened. The error is described by *error*.

**Action**
Correct the error and restart Hercules if necessary. The commands contained in the file may be issued manually.

**HHCPN008I**

**HHCPN008I RC file processing thread started using file *filename***

**Explanation**
Processing of the commands contained in the file named *filename* has begun.

**Action**
No action required.
HHCPN009E

HHCPN009E RC file buffer malloc failed: error

Explanation
An attempt to obtain storage for the buffer for commands being read from the startup command file failed. The error is described by error.

Action
Correct the error and restart Hercules, if needed. The commands contained in the file may be issued manually.

HHCPN010W

HHCPN010W Ignoring invalid RC file pause statement: argument

Explanation
The argument argument on the pause statement in the startup command file is invalid. It must be a decimal number between 0 and 999. Processing will continue without any pause.

Action
Correct the invalid argument and restart Hercules, if desired.

HHCPN011I

HHCPN011I Pausing RC file processing for delay seconds...

Explanation
Processing of the startup command file is being delayed for delay seconds because of a pause statement in the file.

Action
No action required.

HHCPN012I

HHCPN012I Resuming RC file processing...

Explanation
Processing of the startup command file has resumed at the expiration of the delay interval.

Action
No action required.
HHCPN013I

HHCPN013I EOF reached on RC file. Processing complete.

Explanation
The end of the startup command file has been reached and processing of the file is complete.

Action
No action required.

HHCPN014E

HHCPN014E I/O error reading RC file: error

Explanation
An error was encountered while reading a command from the startup command file. The error is described by error. Any remaining commands in the file will not be processed.

Action
Correct the error and restart Hercules if desired. Any unprocessed commands may be issued manually.

HHCPN052E

HHCPN052E Target CPU nnnn type cputype does not allow ipl

Explanation
An IPL command was issued but the target CPU nnnn is a processor engine of type cputype which does not support the initial program load procedure.

Action
Use the CPU command to set the target CPU to a processor of type CP, IFL, or ICF, then re-issue the IPL command.

HHCPN162I

HHCPN162I Hercules instruction trace displayed in { regsfist | noregs | traditional } mode

Explanation
This message shows the current setting of the traceopt mode.

Action
None. This is an informational message.
HHCPN180E

HHCPN180E 'sh' commands are disabled

Explanation
The 'sh' (shell) command has been purposely disabled via a SHCMDOPT configuration file statement. Shell commands entered via the Hercules hardware console will not be processed.

Action
Remove or modify the SHCMDOPT configuration file statement and restart Hercules.

HHCPN181E

HHCPN181E Device number s:CCUU not found

Explanation
The device number "CCUU" on Logical Channel Subsystem "s" was not found in the configuration.

Action
Reissue the command with an existing device number.

HHCPN195I

HHCPN195I Log options: val

Explanation
This message displays the current logging options. It is issued when the LOGOPT command is entered without operands. val is TIMESTAMP or NOTIMESTAMP.

Action
None. This is an informational message.

HHCPN196E

HHCPN196E Invalid logopt value val

Explanation
This message is issued when the operand of a LOPOPT command is an invalid value. Valid values for val are TIMESTAMP or NOTIMESTAMP.

Action
Reenter the LOGOPT command with a valid operand.
HHCPN197I

HHCPN197I Log option set: val

Explanation
As the result of the LOGOPT command, the Hercules logging option val has been set. val is TIMESTAMP or NOTIMESTAMP.

Action
None. This is an informational message.
68. Messages HHCPnns - Printer Emulation

HHCP001E

HHCP001E File name missing or invalid for printer address

Explanation
There was no file name specified for the printer at address address, or else there was one specified but it was too long.

Action
Correct the error in the Hercules configuration file. The device may be made available by specifying a filename with the devinit command.

HHCP002E

HHCP002E Invalid argument for printer address: argument

Explanation
An invalid argument was specified on the definition of the printer at address address.

Action
Correct or remove the invalid argument.

HHCP003E

HHCP003E address Error writing to filename: error

Explanation
An error was encountered when writing output for the printer at address address to the file named filename. The error is described by error.

Action
Correct the error and retry the operation.

HHCP004E

HHCP004E Error opening file filename: error

Explanation
An error was encountered when opening the file named filename. The error is described by error.

Action
Correct the error and retry the operation.
HHCP005E

HHCP005E address device initialization error: pipe: error

Explanation
An error was encountered when opening a pipe for the printer at address address. The error is described by error.

Action
Correct the error and retry the operation.

HHCP006E

HHCP006E address device initialization error: fork: error

Explanation
An error was encountered when starting the program to process the output from the printer at address address. The error is described by error.

Action
Correct the error and retry the operation.

HHCP007I

HHCP007I pipe receiver (pid=processid) starting for address

Explanation
The program to process the output from the printer at address address is starting. Its process id is processid.

Action
No action required.

HHCP008E

HHCP008E address dup2 error: error

Explanation
The file descriptor for stdin could not be duplicated for the program to process the output from the printer at address address. The error is described by error.

Action
Correct the error and retry the operation.
**HHCPRO09E**

HHCPRO09E *address* dup2 error: *error*

Explanation
The file descriptor for stdout could not be duplicated for the program to process the output from the printer at address *address*. The error is described by *error*.

Action
Correct the error and retry the operation.

**HHCPRO10E**

HHCPRO10E *address* dup2 error: *error*

Explanation
The file descriptor for stderr could not be duplicated for the program to process the output from the printer at address *address*. The error is described by *error*.

Action
Correct the error and retry the operation.

**HHCPRO11I**

HHCPRO11I pipe receiver (pid=processid) terminating for *address*

Explanation
The program to process the output from the printer at address *address* has ended successfully. Its process id was *processid*.

Action
No action required.

**HHCPRO12E**

HHCPRO12E *address* Unable to execute program: *error*

Explanation
The program named *program* to process the output from the printer at address *address* could not be started. The error is described by *error*.

Action
Correct the error and retry the operation.
69. Messages HHCPUnnns - Card Punch Emulation

HHCPU001E
HHCPU001E File name missing or invalid

Explanation
The file name specified for punched output is invalid or no file name is given.

Action
Correct the error and retry the operation.

HHCPU002E
HHCPU002E Invalid argument: argument

Explanation
An invalid argument argument was specified for the card punch. Valid arguments are ascii, ebcdic, and crlf.

Action
Correct the invalid argument and retry the operation.

HHCPU003E
HHCPU003E Error opening file filename: error

Explanation
The file named filename could not be opened for output of card punch data. The error is described by error.

Action
Correct the error and retry the operation.

HHCPU004E
HHCPU004E Error writing to filename: error

Explanation
The file named filename encountered an error while writing card punch data. The error is described by error.

Action
Correct the error and retry the operation.
70. Messages HHCRDnnns - Card Reader Emulation

HHCRD001E

HHCRD001E Out of memory

Explanation
A request to allocate memory for the list of files to be read failed.

Action
Correct the error and retry the operation.

HHCRD002E

HHCRD002E File name too long (max=\text{max}): "\text{filename}"

Explanation
The file name specified by \text{filename} is too long. The maximum length is \text{max}.

Action
Specify a shorter name.

HHCRD003E

HHCRD003E Unable to access file "\text{filename}": \text{error}

Explanation
The file specified by \text{filename} could not be accessed. The error is described by \text{error}.

Action
Correct the error and retry the operation.

HHCRD004E

HHCRD004E Out of memory

Explanation
A request to allocate memory for the list of files to be read failed.

Action
Correct the error and retry the operation.
HHCRD005E

HHCRD005E Specify 'ascii' or 'ebcdic' (or neither) but not both

Explanation
Both of the character set translation options ascii and ebcdic were specified. At most one is allowed.

Action
Select only one character set translation option.

HHCRD006E

HHCRD006E Only one filename (sock_spec) allowed for socket devices

Explanation
More than one filename argument was given for a socket card reader device. Only one is allowed. This error can also result if an option name is misspelled.

Action
Remove the extraneous filenames or correct the misspelled options.

HHCRD007I

HHCRD007I Defaulting to 'ascii' for socket device address

Explanation
The socket card reader device at address address has been set to ASCII mode since neither translation option was specified. The socket card reader device cannot automatically select the translation option.

Action
If you wish to read cards without translation from ASCII to EBCDIC, you must specify the ebcdic option on the reader definition.

HHCRD008W

HHCRD008W 'multifile' option ignored: only one file specified

Explanation
Only one file was specified for input to the card reader and the multifile option was specified. This option is explanationless with only one input file. The option has been ignored.

Action
If you wish to read more than one input file without signalling end-of-file or intervention required between them, then all files must all be specified on the same reader definition. If you only wish to process one file, omit the multifile option.
HHCRD009E

HHCRD009E File name too long (max=max): "filename"

Explanation
The file name specified by filename is too long. The maximum length is max.

Action
Specify a shorter name.

HHCRD010E

HHCRD010E Unable to access file "filename": error

Explanation
The file specified by filename could not be accessed. The error is described by error.

Action
Correct the error and retry the operation.

HHCRD011E

HHCRD011E Close error on file "filename": error

Explanation
An attempt to close the file specified by filename failed. The error is described by error.

Action
Correct the error and retry the operation.

HHCRD012I

HHCRD012I ipaddr (hostname) disconnected from device address (socketspec)

Explanation
The client on the host named hostname, with the IP address ipaddr, has disconnected from the socket card reader device at address address, specified by socketspec.

Action
No action required.

HHCRD013E

HHCRD013E Error opening file filename: error

Explanation
The file named filename could not be opened for reading. The error is described by error.
**HHCRD014E**

**HHCRD014E Error reading file filename: error**

**Explanation**
An error was encountered while attempting to read the first 160 bytes of the file named `filename` in order to determine its character set. The error is described by `error`.

**Action**
Correct the error and retry the operation.

---

**HHCRD015E**

**HHCRD015E Seek error in file filename: error**

**Explanation**
An error was encountered while attempting to return to the beginning of file named `filename` after determining its character set. The error is described by `error`.

**Action**
Correct the error and retry the operation.

---

**HHCRD016E**

**HHCRD016E Error reading file filename: error**

**Explanation**
An error was encountered while attempting to read an EBCDIC card image from the file named `filename`. The error is described by `error`.

**Action**
Correct the error and retry the operation.

---

**HHCRD017E**

**HHCRD017E Unexpected end of file on filename**

**Explanation**
Too few characters were read from the file named `filename`. The autopad option was not specified.

**Action**
Either ensure that all records in the file are 80 bytes long, or specify the autopad option on the reader definition.
HHCRD018E

HHCRD018E Error reading file filename: error

Explanation
An error was encountered while attempting to read an ASCII card image from the file named filename. The error is described by error.

Action
Correct the error and retry the operation.

HHCRD019E

HHCRD019E Card image exceeds size bytes in file filename

Explanation
A line in the file named filename is too long to fit on one card. The trunc option was not specified. The maximum length is size bytes.

Action
Either ensure that all lines in the file are less than size bytes long or specify the trunc option on the reader definition.
71. Messages HHCSDNSnnns -
Socket Devices Common Functions

 HHCSDNSnnns
Messages HHCSDNSnnns are not yet documented.
72. Messages HHCTAnnns - Tape Device Emulation

HHCTAnnns

Messages HHCTAnnns are not yet documented.
73. Messages HHCTCnnns - TAPECOPY Utility

HHCTCnnns

Messages HHCTCnnns are not yet documented.
74. Messages HHCTEnnns - Terminal Emulation

**HHCTE001I**

**HHCTE001I Console connection thread started: tid=**threadid**, pid=**processid**

**Explanation**
The thread that handles connection requests from console devices has been started.

**Action**
No action required.

**HHCTE002W**

**HHCTE002W Waiting for port port to become free**

**Explanation**
The thread that handles connection requests from console devices is waiting for the TCP port denoted by *port* to become available for use.

**Action**
If this message persists, some other program has control of the TCP port listed. Determine the program involved and terminate it.

**HHCTE003I**

**HHCTE003I Waiting for console connection on port port pid=num**

**Explanation**
Hercules is ready to accept console connections on port *port*.

**Action**
No action required.

**HHCTE004I**

**HHCTE004I Console connection thread terminated**

**Explanation**
The thread that handles connection requests from console devices has been terminated.

**Action**
No action required.
HHCTE005E

HHCTE005E Cannot create console thread: reason

Explanation
The thread that handles connection requests from console devices could not be started. The reason is shown as reason.

Action
Correct the reason listed and restart Hercules.

HHCTE006A

HHCTE006A Enter input for console device address

Explanation
The 1052 console device at address is waiting for input.

Action
Type the desired input for the console and press the ENTER key. If you do not wish to get this message when input is requested, define the console with the option noprompt.

HHCTE007I

HHCTE007I Device address closed by client ipaddr

Explanation
The client at IP address ipaddr that was connected to the 3270 console at address address has closed the connection. The device is no longer available for use.

Action
No action required.

HHCTE008I

HHCTE008I Device address closed by client ipaddr

Explanation
The client at IP address ipaddr that was connected to the 1052 console at address address has closed the connection. The device is no longer available for use.

Action
No action required.
HHCTE009I

HHCTE009I Client ipaddr connected to type device address

Explanation
The client at IP address ipaddr has connected to Hercules as a type device and is now available at address address.

Action
No action required.

HHCTE010E

HHCTE010E CNSLPORT statement invalid: statement

Explanation
The CNSLPORT statement in the Hercules configuration file is invalid.

Action
Correct the CNLSPORT statement in the configuration file and restart Hercules.

HHCTE011E

HHCTE011E Device devn: Invalid IP address: ipaddr

Explanation
The IP address ipaddr is invalid.

Action
Correct the IP address in the configuration file and restart Hercules.

HHCTE012E

HHCTE012E Device devn: Invalid mask value: ipmask

Explanation
The mask value ipmask is invalid.

Action
Correct the mask value in the configuration file and restart Hercules.

HHCTE013E

HHCTE013E Device devn: Extraneous argument(s): xxx...

Explanation
The argument(s) xxx and any which follow it (if any) was not recognized or understood and are thus invalid.
**HHCTE014I**

**HHCTE014I** type device *devn* disconnected.

**Explanation**
The client connected to device *devn* has abruptly terminated the connection (ECONNRESET).

**Action**
No action required.

**HHCTE017E**

**HHCTE017E** Device *devn*: Duplicate SYSG console definition.

**Explanation**
Device number *devn* has been defined as an integrated 3270 (SYSG) console, but a SYSG console already exists. Only one SYSG console can be defined per system.

**Action**
Correct the statement in the configuration file and restart Hercules.
75. Messages HHCTMnnns - TAPEMAP Utility

**HHCTMnnns**

Messages HHCTMnnns are not yet documented.
76. Messages HHCTSnnns - TAPESPLT Utility

HHCTSnnns

Messages HHCTSnnns are not yet documented.
77. Messages HHCTTnnns - TOD Clock and Timer Services

HHCTT001W

HHCTT001W Timer thread set priority priority failed: error

Explanation
An attempt to change the priority of the timer thread to priority failed. The error is described by error. The thread priority has not been changed. Hercules overall performance may be impaired as a result.

Action
If performance problems are noted, correct the error and restart Hercules.

HHCTT002I

HHCTT002I Timer thread started: tid=threadid, pid=processid, priority=priority

Explanation
The thread for timing functions has been started. Its thread id is threadid, its process id is processid and the thread priority is priority.

Action
No action required.

HHCTT003I

HHCTT003I Timer thread ended

Explanation
The thread for timing functions has ended.

Action
No action required.
78. Messages HHCTUnnns - TUN / TAP Driver Support

HHCTUnnns
Messages HHCTUnnns are not yet documented.
79. Messages HHCVMnnns - VM / CP Emulation

HHVCVM001I

HHVCVM001I *panel_command* panel command Module guest

Explanation
The guest operating system has issued a DIAGNOSE 8 instruction to perform the panel_command panel command to be carried out by the Hercules panel command processor

System Action
The Hercules panel command processor carries out the command if possible.

Operator Action
None. This is an informational message.

Programmer Action
No action is requested if this behaviour is expected. If this behaviour poses a security concern, the DIAG8CMD configuration statement should either be omitted or specified with the disabled argument.

HHVCVM002I

HHVCVM002I *panel_command command complete

Explanation
The panel_command panel command has been carried out by the panel command processor. Note that this message only appears if the guest issued diagnose 8 instruction specified that it did not request the command response to be placed in a supplied buffer.

System Action
The system continues

Operator Action
None. This is an informational message

Programmer Action
None. This is an informational message

HHVCVM003I

HHVCVM003I Host command processing disabled by configuration statement

Explanation
The guest operating system attempted using the DIAGNOSE 8 instruction to carry out a panel command, but the system configuration disabled this feature (with the DIAG8CMD configuration statement)

System Action
The panel command is ignored.
**Operator Action**
None. This is an informational message.

**Programmer Action**
If it is deemed necessary for the guest operating system to issue DIAGNOSE 8 commands to issue panel commands, the `DIAG8CMD` with the `enable` argument should be specified in the configuration file.

---

**HHCVM004E**

**HHCVM004E Host command processing not included in engine build**

**Explanation**
The Hercules engine has been built without Diagnose 8 panel command facility support

**System Action**
The panel command is not issued. The system continues.

**Operator Action**
None.

**Programmer Action**
If it is desired that DIAGNOSE 8 Instruction be carried out as panel commands, the facility should be included in the build process. Additionally, the `DIAG8CMD` configuration statement should be specified with the `enable` parameter.
Appendix A. Message Index (New → Old)

The following list shows each Hercules message ID in the new message format followed by the related message ID in the old message format. There are five possible cases for the index entries.

A.1 Replacement

This is the normal case, where a new message ID replaces exactly one old message ID.

Example:

HHC01303I – HHCCP064I

The new message "HHC01303I" replaces the old message "HHCCP064I".

A.2 New message

New messages, that have not existed before, have no related old message ID.

Example:

HHC00069I – none

Message "HHC00069I" is a new message that did not exist before.

A3. Removed message

Old messages that have been deleted do not have a related new message ID.

Example:

None – HHCPR019E

Message "HHCPR019E" is an old message that has been deleted and therefore has no new message ID.

A.4 Consolidation

There are cases where one new message ID replaces several old message IDs. This can happen, if there have been several old messages that had the same or a similar message text, but different message IDs. These messages have now been consolidated under one new message ID.

Example:

HHC02209E – HHCPN017E
HHC02209E – HHCPN024E
HHC02209E – HHCPN034E

The old messages "HHCPN017E", "HHCPN024E" and "HHCPN034E" have been consolidated and replaced through the new message "HHC02209E".
A.5 Split

In some rare cases an old message has been split into two or more new messages.

Example:

HHC02235E – HHCPN053E
HHC02236E – HHCPN053E

The old message with ID "HHCPN053E" has been split into two new messages with IDs "HHC02235E" and "HHC02236E".

A.5 Message Index (New → Old)

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<td>HHCCP036E</td>
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<tr>
<td>HHC00015E</td>
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Appendix B. Message Index (Old → New)

The following list shows each Hercules message ID in the old message format followed by the related message ID in the new message format. There are four possible cases for the index entries.

B.1 Replacement
This is the normal case, where a new message ID replaces exactly one old message ID.

Example:
HHCCP064I - HHC01303I
The new message "HHC01303I" replaces the old message "HHCCP064I".

B.2 New message
New messages, that have not existed before and have no related old message ID.

Example:
none - HHC00069I
Message "HHC00069I" is a new message that did not exist before.

B.3 Removed message
Old messages, that have been deleted do not have a related new message ID.

Example:
HHCPR09E - none
Message "HHCPR019E" has been removed.

B.4 Consolidation
There are cases where one new message ID replaces several old message IDs. This can happen, if there have been several old messages that had the same or a similar message text, but different message IDs. These messages have now been consolidated under one new message ID.

Example:
HHCPN017E - HHC02209E
HHCPN024E - HHC02209E
HHCPN034E - HHC02209E
The old messages "HHCPN017E", "HHCPN024E" and "HHCPN034E" have been consolidated and replaced through the new message "HHC02209E".
B.5 Split

In some rare cases an old message has been split into two or more new messages.

Example:

HHCPN053E - HHC02235E
HHCPN053E - HHC02236E

The old message with ID "HHCPN053E" has been split into two new messages with IDs "HHC02235E" and "HHC02236E".

B.5 Message Index (Old → New)

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Appendix C. Links

- The Hercules System/370, ESA/390, and z/Architecture Emulator
  http://www.hercules-390.eu

- Hercules source code repositories
  https://github.com/rbowler/spinhawk  (release 3.xx development stream)
  https://github.com/rbowler/sandhawk  (release 4.xx development stream)
  https://github.com/hercules-390/hyperion  (cutting-edge developer sandbox)

- Hercules Developer Snapshots (Dave Wade)
  http://www.smrcc.org.uk/members/g4ugm/snapshots/

- Hercules PDF Documentation (Peter Glanzmann)
  http://hercdoc.glanzmann.org

- The MVS Tur(n)key System, Version 3 (Volker Bandke)

- Hercules WinGUI (“Fish”, David B. Trout)
  http://www.softdevlabs.com/Hercules/hercgui-index.html

- CTCI-WIN (“Fish”, David B. Trout)
  http://www.softdevlabs.com/Hercules/CTCI-WIN-index.html

- Hercules Studio (Jacob Dekel)
  http://www.mvsdasd.org/hercstudio
• Hebe – Hercules Image Manager (Robin Atwood)
  
  http://kde-apps.org/content/show.php/Hebe?content=126738

• WinPcap, Politecnico di Torino
  
  http://www.winpcap.org

• Vista tn3270, Tom Brennan Software
  
  http://www.tombrennansoftware.com

• X3270, Paul Mattes
  
  http://x3270.bgp.nu

• AWSBROWSE ("Fish", David B. Trout)
  
  http://www.softdevlabs.com/Hercules/hercgui-index.html

• XMIT Manager
  
  www.cbttape.org

• CBT MVS Utilities Tape (CBTTAPE)
  
  www.cbttape.org

• Microsoft Visual C++ 2008 Express
  
  http://www.microsoft.com/express/download/
- ZLIB
  http://www.zlib.net
  http://www.softdevlabs.com/Hercules/ZLIB1-1.2.3-bin-lib-inc-vc2008-x86-x64.zip

- BZIP2
  http://www.bzip.org
  http://www.softdevlabs.com/Hercules/BZIP2-1.0.5-bin-lib-inc-vc2008-x86-x64.zip

- PCRE
  http://www.pcre.org
  http://www.softdevlabs.com/Hercules/PCRE-6.4.1-bin-lib-inc-vc2008-x86-x64.zip

- Regina REXX
  http://regina-rexx.sourceforge.net/

- Open Object Rexx (ooRexx)
  http://www.oorexx.org/
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