

z/OS
3.2

*Resource Measurement Facility
Messages and Codes*



Note

Before using this information and the product it supports, read the information in [“Notices” on page 203.](#)

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About this document

This document describes messages issued by z/OS Resource Measurement Facility (RMF) and z/OS Data Gatherer. It also lists the user completion codes (UCC) for Monitor I, II, III and the Postprocessor.

Who should use this document

This document is for RMF and z/OS Data Gatherer users who require additional information for a message or code that is displayed by RMF or z/OS Data Gatherer.

How this document is organized

This document contains the following information units:

Chapter 1, “Host messages - ERB,” on page 1

This topic lists all messages from Monitor I, Monitor II, Monitor III, and the Postprocessor. They are in this range:

- ERB100I - ERB999I
- ERBA000I - ...
- ERBB100I - ...

Chapter 2, “Distributed Data Server messages - GPM,” on page 105

This topic lists all messages issued by the two components (GPMSEVE and GPM4CIM) of the RMF Distributed Data Server (DDS) that are displayed on your host console.

This topic also lists all messages issued by the DDS and its exploiters as the result of performance data retrieval from the DDS.

Chapter 3, “RMF Spreadsheet Reporter messages,” on page 155

This chapter lists all messages issued by the Spreadsheet Reporter:

- ERB9000A - ...

Chapter 4, “Messages for IBM® Health Checker for z/OS®,” on page 163

This chapter lists all messages issued by RMF health checks.

- GPMH1001I - ...

Chapter 5, “User completion codes,” on page 165

This chapter lists all user completion codes.

Chapter 6, “Diagnosing problems,” on page 187

This chapter provides information about diagnosing and resolving problems that you might encounter while running RMF.

z/OS RMF library

The z/OS RMF library contains the following information units:

- *z/OS Resource Measurement Facility Programmer's Guide*
- *z/OS Resource Measurement Facility User's Guide*
- *z/OS Resource Measurement Facility Report Analysis*
- *z/OS Resource Measurement Facility Messages and Codes* (includes z/OS Data Gatherer messages)

z/OS Data Gatherer library

The z/OS Data Gatherer library contains the following information units:

- *z/OS Data Gatherer Programmer's Guide*
- *z/OS Data Gatherer User's Guide*

Messages issued by z/OS Data Gatherer are included in *z/OS Resource Measurement Facility Messages and Codes*.

z/OS information

This information explains how z/OS® references information in other documents and on the web.

When possible, this information uses cross-document links that go directly to the topic in reference using shortened versions of the document title. For complete titles and order numbers of the documents for all products that are part of z/OS, see *z/OS Information Roadmap*.

To find the complete z/OS library, go to [IBM Documentation \(www.ibm.com/docs/en/zos\)](http://www.ibm.com/docs/en/zos).

How to provide feedback to IBM

We welcome any feedback that you have, including comments on the clarity, accuracy, or completeness of the information. See [How to send feedback to IBM®](#) for additional information.

Summary of changes

This information includes terminology, maintenance, and editorial changes. Technical changes or additions to the text and illustrations for the current edition are indicated by a vertical line to the left of the change.

Note: IBM z/OS policy for the integration of service information into the z/OS product documentation library is documented on the z/OS Internet Library under [IBM z/OS Product Documentation Update Policy](http://www.ibm.com/docs/en/zos/latest?topic=zos-product-documentation-update-policy) (www.ibm.com/docs/en/zos/latest?topic=zos-product-documentation-update-policy).

Summary of changes for z/OS Resource Measurement Facility Messages and Codes 3.2

All features and enhancements introduced in RMF for z/OS 3.1 are also available in 3.2.

Summary of changes for z/OS Resource Measurement Facility Messages and Codes 3.1

New

The following content is new.

September 2024

A new message, [GPM084I](#), has been introduced to verify whether DDS uses AT-TLS when enabling the HSTS option.

Changed

The following content is changed.

March 2024

The message text for “[GPM0709I](#)” on [page 139](#) has been updated.

January 2024

The message displayed on the host console with number GPM0730I, which was of type Information, has been updated to [GPM0730E](#) and is now classified as an Error message.

November 2023

The title of the [GPM052I](#) message is updated as per the ISPF panel.

Chapter 1. Host messages - ERB

This topic lists all messages issued by the RMF control session, Monitor I, Monitor II and Monitor III gatherer sessions, Monitor II and Monitor III reporter sessions, and the Postprocessor.

The messages are sorted by the hexadecimal message number that follows the ERB-prefix.

ERB100I *sid: ACTIVE*

Explanation

When *sid* is RMF, RMF has been initialized and is ready to receive session commands. When *sid* is a session identifier, that session has started and data is being collected to form the first entry for the report or the system management facility (SMF) record.

System action

Processing continues.

ERB101I *sid: REPORT AVAILABLE FOR PRINTING*

Explanation

A reporting interval for Monitor I session *sid* has ended. This message appears only when REPORT (REALTIME) is in effect.

System action

RMF formats and writes a report to SYSOUT storage. The system prints the reports for this interval according to RMF priority and output class.

Operator response

Start a printer to the RMF SYSOUT class, if you want to print the report.

ERB102I *sid: TERMINATED*

Explanation

When *sid* is RMF, all RMF processing has ended. When *sid* is a session identifier, that session has ended.

System action

The system continues processing.

ERB103I *sid: OPTIONS IN EFFECT option (value) source . . option (value) source*

Explanation

This message appears in the message data set for the session and lists the options in effect for the RMF Postprocessor or for session *sid*. The options are listed, one per line, in the following form:

```
option (value) source
```

The source indicates where the option was specified and can be:

Source

Where the option was specified

COMMAND

On a START or MODIFY command.

DEFAULT

In the program defaults.

EXEC

On the EXEC statement in the RMF cataloged procedure.

CHANGED

Changed by RMF.

MEMBER

In a member of the RMF partitioned data set.

SYSIN

On a control statement for the RMF Postprocessor.

ERB104I***sid*: MODIFIED**

Explanation

In response to a MODIFY command, RMF has successfully modified the options in effect for session *sid*.

System action

The session continues.

ERB105I**III: DATA GATHERER ACTIVE**

Explanation

The RMF Monitor III data gatherer session was successfully initialized and is now gathering data.

Operator response

You can now start Monitor III reporting sessions.

ERB106I**PPS: NO RECORDS FOUND FOR THE FOLLOWING OPTION(S) PPS:
mainopt(subopt) or OVW, SMF RECORD *type* SUBTYPE *subtype***

Explanation

You requested a report using either a report main option or an OVW option control statement when the SMF data set did not contain the requested records.

System action

No report or overview column is written. A message and the listing of options are issued.

Operator response

The SMF record data set must contain the appropriate data.

ERB107I***sid*: RMF CANNOT BE STARTED DUE TO DYNAMIC CONFIGURATION
CHANGES. TRY AGAIN LATER.**

Explanation

A dynamic I/O configuration update occurred within the system while RMF tried to build its internal configuration tables.

System action

RMF could not build its tables. RMF ends the session.

Operator response

Restart RMF after the dynamic I/O configuration change has been completed.

| | |
|----------------|--|
| ERB108I | sid: RMF MONITOR I {DEVICE I/O QUEUING} OPTION CANNOT BE STARTED. |
|----------------|--|

Explanation

During the RMF session, one of the following events occurred:

- A dynamic I/O configuration update occurred within the system while RMF tried to build either its internal device data block structure or its I/O queuing data block structure.
- A critical error occurred during a dynamic I/O configuration update when RMF Monitor I was started with either the device option or the I/O queuing option.

System action

If RMF tried to build its internal data block structure, RMF couldn't build the block structure. RMF attempts three retries but still cannot complete its processing. Monitor I starts without either the device option or the I/O queuing option.

If a critical error occurred, RMF issues message ERB110I. RMF cannot use its internal configuration table and cannot start either the Monitor I device option or the I/O queuing option. Monitor I starts without either the device option or the I/O queuing option.

Operator response

If RMF tried to build its internal data block structure, modify RMF after the dynamic I/O configuration update has been completed to add either the desired Monitor I device option or I/O queuing option.

If a critical error occurred, respond to message ERB110I.

| | |
|----------------|--|
| ERB109I | sid: RMF Monitor III DATA GATHERER CANNOT BE STARTED. |
|----------------|--|

Explanation

A dynamic I/O configuration update occurred within the system while RMF tried to build its internal UCB address table.

System action

RMF could not build its UCB address table. RMF attempts three retries but still cannot complete its processing. RMF ends the Monitor III data gatherer session.

Operator response

Start the RMF Monitor III data gatherer after the dynamic I/O configuration change is completed.

| | |
|----------------|--|
| ERB110I | CRITICAL ERROR DURING DYNAMIC CONFIGURATION CHANGE. |
|----------------|--|

Explanation

An unresolvable error occurred during an RMF dynamic configuration change.

System action

RMF is no longer able to use its internal configuration data. RMF continues processing, but Monitor I ends device and I/O queuing, and cannot be restarted without a complete RMF restart.

Operator response

Restart RMF to get full monitor capability back.

ERB111I **RMF IS NOT ENABLED TO RUN ON THIS SYSTEM.**

Explanation

The request to run RMF has been denied by MVS, because the optional element RMF is not licensed or enabled on this system.

System action

RMF discontinues its processing, and terminates immediately.

User response

Have your system administrator check whether you have a license for RMF. If yes, have the system administrator enable the product.

ERB112I **SERVICE *name* FAILED WITH RETURN CODE *rc***

Explanation

RMF invoked the IFAEDREG or IFAEDDRG service for registration or deregistration. The service returned with a code greater than 4.

System action

RMF discontinues its processing, and terminates immediately.

User response

See *z/OS MVS System Management Facilities (SMF)*.

ERB113I **RMF: CANNOT BE STARTED FROM UNAUTHORIZED LIBRARY.**

Explanation

RMF has detected that it has been started from a library that is not APF-authorized.

System action

The RMF control program terminates immediately.

Operator response

Inform your system programmer.

System programmer response

Make sure that RMF is started from a library that is APF-authorized.

ERB114I **RMF: CANNOT LOAD LPA MODULES.**

Explanation

z/OS Data Gatherer has detected that it cannot find required LPA modules. The z/OS Data Gatherer LPA modules reside in SYS1.SGRBLPA. Possible causes for this error may be:

- SYS1.SGRBLPA is not in the LPALST concatenation.
- LPALIB is defined as STEPLIB.

System action

The RMF control program terminates immediately.

Operator response

Inform the system programmer.

System programmer response

Make sure that library SYS1.SGRBLPA is in the LPALST concatenation. This can be achieved by adding the library to the active LPALSTxx PARMLIB member (for details see *z/OS MVS Initialization and Tuning Reference*) and RE-IPL.

To add the modules in SYS1.SGRBLPA dynamically to the LPA without an IPL, you can use the SETPROG or SET PROG=xx operator commands (see *z/OS MVS System Commands*).

ERB115I**START RMFGAT Monitor III SESSION III**

Explanation

In response to a MODIFY command, RMF control has invoked the cataloged procedure RMFGAT to start the RMF Monitor III data gatherer.

System action

Started task RMFGAT is being initialized in a separate address space.

ERB116I**III: OMVS NOT READY**

Explanation

RMF Monitor III initialization module detects that OMVS is not ready.

System action

RMF stops initializing the Monitor III data gatherer after waiting for four minutes for OMVS to become ready. All other active sessions continue processing.

System programmer response

Try to start the Monitor III data gatherer again after OMVS is initialized.

ERB117I**ADVANCED DATA GATHERER IS NOT ENABLED TO RUN ON THIS SYSTEM.**

Explanation

Only base Data Gatherer functionality can be used on this system.

- No SMF record data other than SMF 70 subtype 1 are written by the z/OS Data Gatherer.
- No Monitor III data is collected.
- Monitor III data cannot be accessed via Sysplex Data Server API ERB3XDRS.

System action:

The request for the Advanced Data Gatherer function is not processed.

User response:

Have your system administrator check whether you have a license for the z/OS Advanced Data Gatherer or the RMF feature. If yes, enable one of the two features.

ERB119I**RMF IS ENABLED TO RUN ON THIS SYSTEM BUT THE REPORTER IS NOT
INSTALLED.****Explanation:**

The RMF feature is properly enabled but RMF module ERB3RCTL cannot be loaded.

System action:

The z/OS Data Gatherer continues its processing.

User response:

Have your system administrator check why load module ERB3RCTL cannot be loaded.

ERB140I**RMF: DDS OPTION ACCEPTED****Explanation**

The DDS option has been accepted by RMF.

System action

The Distributed Data Server is managed by RMF across the Sysplex.

ERB141I**RMF: STARTING DISTRIBUTED DATA SERVER****Explanation**

RMF issued the START command for the Distributed Data Server.

System action

The Distributed Data Server address space is running up.

ERB142I**RMF: DISTRIBUTED DATA SERVER START COMMAND FAILURE****Explanation**

The START command for the Distributed Data Server returned with one or more errors.

System action

RMF performs up to five retries.

Operator response

Contact your system programmer.

System programmer response

Analyze the return code **rc** from the MGCRE macro.

ERB143I**RMF: DISTRIBUTED DATA SERVER START RETRY LIMIT EXCEEDED****Explanation**

The Distributed Data Server START command returns with permanent errors.

System action

RMF deactivates the management of the Distributed Data Server address space.

Operator response

You can take either of the following actions:

- Continue the session with the current options.
- Re-activate the DDS options with the MODIFY command.

ERB144I**RMF: NODDS OPTION SET**

Explanation

RMF accepted the NODDS option.

System action

The Distributed Data Server is not managed by RMF.

ERB145I**RMF: STOPPING DISTRIBUTED DATA SERVER**

Explanation

RMF issued the STOP command for the Distributed Data Server.

System action

The Distributed Data Server address space is terminated.

ERB146I**RMF: DISTRIBUTED DATA SERVER STOP COMMAND FAILURE**

Explanation

The STOP command for the Distributed Data Server returned with one or more errors.

System action

RMF performs up to five retries.

Operator response

Contact your system programmer.

System programmer response

Analyze the return code **rc** from the MGCRE macro.

ERB147I**RMF: DISTRIBUTED DATA SERVER STOP LIMIT EXCEEDED**

Explanation

The Distributed Data Server STOP command returns with permanent errors.

System action

RMF deactivates the management of the Distributed Data Server address space.

Operator response

You can take either of the following actions:

- Continue the session with the current options.
- Re-activate the DDS options with the MODIFY command.

ERB148I

DISTRIBUTED DATA SERVER CANNOT BE STARTED.

Explanation:

The Data Gatherer control session is configured to provide automatic sysplex-wide management for the Distributed Data Server but the RMF feature is not enabled.

System action:

The z/OS Data Gatherer continues its processing.

User response:

Have your system administrator check whether you have a license for RMF, and if so, have your system administrator enable the feature. Ensure that the master system on which the Distributed Data Server is automatically started has the RMF feature enabled and is on the highest z/OS release in the sysplex. If the feature cannot be enabled on the master system, stop automatic sysplex-wide management for the Distributed Data Server by omitting the DDS option in the RMF start command and in the EXEC statement of the RMF procedure.

ERB149I

RMF: OPTIMIZED CF HW DATA COLLECTION ACTIVE.

Explanation:

The CFOPT option was specified in the MODIFY RMF or START RMF commands or in the PARM field of the EXEC statement in the RMF started task procedure.

System action:

RMF activates optimized CF HW data collection on the sysplex.

Operator response:

None.

ERB150I

RMF: OPTIMIZED CF HW DATA COLLECTION INACTIVE.

Explanation:

The NOCFOPT option was specified in a MODIFY RMF command.

System action:

RMF deactivates optimized CF HW data collection on the sysplex.

Operator response:

None.

ERB200I

sid: ALREADY ACTIVE

Explanation

If *sid* is RMF, RMF is already active.

If *sid* is a session identifier, the START session command specified session identifier *sid*, but session *sid* was already active.

System action

No action taken.

Operator response

When *sid* is RMF, stop the currently active RMF task, and reissue the START command.

When *sid* is a session identifier, do one of the following:

- Stop the currently active session, and reissue the START command. Issue a MODIFY session command to modify the options of the currently active session.
- Start a new session by issuing a START session command with a unique session identifier.

ERB201I

***sid*: TASK REINSTATED {*Ucde*|*Scde*|DUE TO DYNAMIC I/O RECONFIGURATION}.**

Explanation

RMF, or a system component providing a service for RMF, detected a disruption in operation. Either there was an error in RMF or in RMF session *sid*, or dynamic I/O reconfiguration occurred. One of the following codes is issued with the message:

- *Ucde* - user completion code
- *Scde* - system completion code
- the text DUE TO DYNAMIC I/O RECONFIGURATION

The text DUE TO DYNAMIC I/O RECONFIGURATION is only issued if MVS is running second level under VM.

System action

If the *Ucde* or *Scde* is issued, RMF recovery routines intercept the resulting abnormal ending and reinstate the task. However, data being collected for the current reporting interval is lost; RMF starts data collection for the new interval. If the text DUE TO DYNAMIC I/O RECONFIGURATION is issued, RMF Monitor I finishes the data collection for the interval, restarts the data collection after the point when the reconfiguration completed, and continues its normal processing.

Operator response

None.

System programmer response

If the *Scde* is X'80A', correct the error by increasing the value of the REGION parameter on the RMF PROC statement.

If dynamic I/O reconfiguration had occurred, Monitor III might lose device (that is, DASD or tape) data. Restart Monitor III to obtain all data.

ERB202I

***sid*: NO RMF MEASUREMENTS SELECTED**

Explanation

The options for session *sid* do not specify any measurements to be made, reported, or recorded by the RMF session.

System action

RMF ends the session.

Operator response

Restart the session, specifying options for at least one RMF measurement applicable to the type of session.

ERB203I

***sid*: INVALID MENU, NO USABLE ENTRIES FOUND**

Explanation

During Monitor II display session *sid*, RMF could not process the menu in order to initialize any measurements.

For example, RMF could find the menu unusable if an attempt to modify it caused an incorrect field length for one or more of the entries.

System action

RMF ends the session.

Operator response

Ask the system programmer to correct any errors in the menu control section, ERBFMENU. Then retry the display session.

System programmer response

Correct any errors in the menu control section, ERBFMENU.

ERB204I RMF NOT DESIGNED FOR THIS DEVICE - PROCEED AT YOUR OWN RISK

Explanation

An RMFMON command was issued from a terminal that is not an RMF-supported display station. Because RMF output is formatted specifically for these devices, the output will be jumbled and probably not useful on any other terminal device.

System action

RMF continues the session.

Operator response

End the session. To do this at a display station, use the RMF stop display command (Z) or the TSO attention function. At a non-display station, enter INPUT=Z or use the TSO attention function. Restart the session at an RMF-supported display station.

ERB205I *sid*: CANNOT BE MODIFIED, COMMAND REJECTED

Explanation

A MODIFY session command was issued for session *sid*, but that session is a Monitor II or Monitor III local 3270 display session, which cannot be modified by a MODIFY session command.

System action

No action taken.

Operator response

Reissue the MODIFY session command with the identifier of a session that can be modified.

ERB206I *sid*: INVALID SESSION COMMAND, *cm*

Explanation

For session *sid*, session command *cm* was issued, but *cm* is not a valid session command.

System action

RMF rejects the command but continues processing all active sessions.

Operator response

Enter one of the following: START or S, DISPLAY or D, MODIFY or F, or STOP or P

ERB207I**COMMAND REJECTED**

Explanation

A command contained an incorrect session identifier.

System action

No action taken.

Operator response

Reissue the command with a valid session identifier. You can use the DISPLAY session command to list the identifiers of all active sessions.

ERB208I***sid*: NO PARMS SPECIFIED, MODIFY COMMAND REJECTED**

Explanation

A MODIFY session command had no options; therefore, RMF did not modify any options for currently active session *sid*.

System action

No action taken.

Operator response

Reissue the MODIFY session command, specifying the options that you want to modify.

ERB210I***sid*: INVALID COMMAND SYNTAX**

Explanation

A valid RMF session command for session *sid* contained incorrect syntax.

System action

RMF does not process the command but continues processing all active sessions.

Operator response

Correct the syntax of the command.

ERB211I**RMF: ACTIVE SESSION - *sid,sid,...***

Explanation

In response to a DISPLAY ACTIVE command, RMF lists all currently active sessions as *sid* in the message text.

System action

RMF continues processing.

ERB212I***sid*: NO ACTIVE SESSIONS**

Explanation

In response to a DISPLAY ACTIVE command, RMF issues this message to indicate that there are no currently active sessions.

System action

RMF continues processing.

ERB216I**ERROR ON FULL SCREEN TPUT - CHECK OWAITHI VALUE**

Explanation

The TSO TPUT routine issued a return code of 16; this code indicates that the data could not be accommodated with the current values specified for the BUFFERS, BUFSIZE, and OWAITHI TSO/E parameters. These values are specified in the IKJPRMxx Parmlib member.

System action

RMF ends the session. The TSO session continues.

System programmer response

Change your TSO/E parameters to accommodate full-screen TPUTs for the IBM 3270 Display Station or the IBM 3277 Display Station Model 2.

ERB217I**YOU ARE NOT AUTHORIZED TO USE RMFMON**

Explanation

Your installation authorization exit routine, ERBTSOCK for RMF Monitor II, has determined that a user who is trying to start an RMF session, entered a userID that is not authorized under TSO. The unauthorized userID appeared in the RMFMON command for Monitor II.

System action

RMF ends the session. The TSO session continues.

System programmer response

If you are authorized to use RMF Monitor II, enter your userID correctly. If not, ask your installation for authorization to use RMF Monitor II, then reissue the RMFMON command.

ERB218I**SESSION CREATE FAILED**

Explanation

In response to an RMFMON or RMFWDM command, RMF attempted to initialize a TSO display session. The RMF Monitor II or Monitor III session create function, ERBSESSC, returned a nonzero return code to the TSO RMF interface module.

System action

RMF ends the session under TSO. The TSO session continues.

Operator response

Retry the RMFMON or RMFWDM command. If the problem recurs, notify the system programmer.

Explanation

During input merge for the RMF Postprocessor or during session *sid*, RMF detected an incorrect option or suboption *keyword*. The source of the incorrect keyword is:

Source

Where the keyword was specified

OPERATOR

In an operator command.

PARM

In the PARM field of an EXEC statement in the RMF cataloged procedure.

LIBRARY nn

In library member ERBRMFnn.

REPLY

In the operator reply to message ERB306D.

SYSIN

In an RMF Postprocessor control statement.

System action

When the error occurs during a session, RMF asks for operator intervention: RMF issues message ERB305I, listing the current session options, followed by message ERB306D, to which the operator replies by supplying new options or entering G0. RMF continues other processing.

When the error occurs during the Postprocessor session, RMF substitutes the incorrect value with the default value, if a default value exists.

Operator response

Examine the options listed following message ERB305I, and respond to message ERB306D.

System programmer response

If the incorrect option is in the EXEC statement, in the library data source, or in a Postprocessor control statement, correct the statement or library member.

Explanation

During session *sid*, the indicated command contained the option named in the message; this option is not valid for that command.

System action

RMF asks for operator intervention: RMF issues message ERB305I, listing the current session options, followed by message ERB306D, to which the operator replies by supplying new options or entering G0. RMF continues other processing.

Operator response

Examine the options listed following message ERB305I, and respond to message ERB306D.

Explanation

During input merge for RMF session *sid*, the option named in the message violated an RMF restriction. For example, the MEMBER option cannot appear in a library member. The source of the option in error was:

Source

Where the option was specified

OPERATOR

In an operator command.

PARM

In the PARM field of an EXEC statement in the RMF cataloged procedure.

LIBRARY nn

In library member ERBRMFnn.

REPLY

In the operator reply to message ERB306D.

System action

RMF asks the operator for intervention: RMF issues message ERB305I, listing the current session options, followed by message ERB306D, to which the operator replies by supplying new options or entering GO. RMF continues other processing.

Operator response

Examine the options listed following message ERB305I, and respond to message ERB306D.

System programmer response

If the incorrect option was specified in the EXEC statement or in the library data source, correct it.

| | |
|----------------|---|
| ERB222I | <i>sid</i>: MEMBER ID LIMIT EXCEEDED, MEMBER <i>nn</i> IN {OPERATOR PARM} INPUT IS IGNORED |
|----------------|---|

Explanation

During input merge for session *sid*, more than five valid members were specified as the library data source. As a result, RMF ignores member ERBRMFnn and merges the session options from the other sources.

The source of the error is indicated in the message as follows:

- OPERATOR for an operator command
- PARM for the PARM field on the EXEC statement in the RMF cataloged procedure

System action

RMF asks the operator for intervention: RMF issues message ERB305I, listing the current session options, followed by message ERB306D. RMF continues other processing.

Operator response

Examine the options listed following message ERB305I, and respond to message ERB306D by supplying new options or entering GO.

System programmer response

If the error occurred in the EXEC statement, correct it.

| | |
|----------------|--|
| ERB223I | <i>sid</i>: UNEXPECTED END OF TEXT IN <i>source</i> INPUT |
|----------------|--|

Explanation

During input merge for the RMF Postprocessor or for session *sid*, RMF encountered the end of text in an input source when it expected to find additional required information. The source of the error was:

Source

Where the error was encountered

OPERATOR

In an operator command.

PARM

In the PARM field of an EXEC statement in the RMF cataloged procedure.

LIBRARY nn

In library member ERBRMFnn.

REPLY

In the operator reply to message ERB306D.

SYSIN

In an RMF Postprocessor control statement.

System action

When the error occurs during a session, RMF asks the operator for intervention: RMF issues message ERB305I, listing the current session options, followed by message ERB306D. RMF continues other processing.

When the error occurs during the Postprocessor session, RMF substitutes the incorrect option with the default value, if one exists.

Operator response

Examine the options listed following message ERB305I, and respond to message ERB306D by supplying new options or entering GO.

System programmer response

If the error occurred in the EXEC statement, the library data source, or a Postprocessor control statement, correct it.

ERB224I***sid: input* SKIPPED DUE TO PREVIOUS ERROR**

Explanation

During input merge for the RMF Postprocessor, for the Monitor III data reporter, or for session *sid*, RMF detected an error, such as a syntax error. RMF skipped the incorrect input, which is written in the message, then attempted to validate the remaining input.

System action

When the error occurs during a session, RMF asks the operator for intervention: RMF issues message ERB305I, listing the current session options, followed by message ERB306D. RMF continues other processing.

When the error occurs during the Postprocessor session or the Monitor III data reporter, RMF substitutes the incorrect option with the default value, if a default value exists.

Operator response

Examine the options listed following message ERB305I and the skipped input to determine which options are missing. Respond to message ERB306D with the missing options or by entering GO.

System programmer response

When the error occurred during the Postprocessor or the Monitor III data reporter, correct the control statement that caused the error before using the Postprocessor or data reporter again.

ERB225I***sid: INVALID option VALUE yyyy IN source INPUT***

Explanation

During input merge for the RMF Postprocessor or for session *sid*, RMF detected an incorrect value, *yyyy*, for the named option. The source of the incorrect value is:

Source

Where the option was specified

OPERATOR

In an operator command.

PARM

In the PARM field of an EXEC statement in the RMF cataloged procedure.

LIBRARY nn

In library member ERBRMFnn.

REPLY

In the operator reply to message ERB306D.

SYSIN

In an RMF Postprocessor control statement.

System action

When the error occurs during a Monitor I or II background session or a Monitor III data gatherer session, RMF asks the operator for intervention: RMF issues message ERB305I, listing the current session options, followed by message ERB306D. RMF continues other processing.

When the error occurs during the Monitor III data reporter or the Postprocessor session, RMF ignores the incorrect option and substitutes the default value, if a default value exists. Also, for the data reporter, RMF displays the OPTIONS screen on the user's terminal.

When you get a message with an invalid date value, for example, ERB225I PPS: INVALID DATE VALUE '41365' IN SYSIN INPUT, then either the start date or the end date does not fit into the sliding window. The sliding window is the current year - 50 as start date, and the current year + 49 as end date.

Operator response

Examine the options listed following message ERB305I, and respond to message ERB306D by supplying new options or entering GO.

System programmer response

If the incorrect value occurred in the EXEC statement, the library data source, or a Postprocessor control statement, correct it.

ERB226I***sid: OPEN FAILED FOR MESSAGE DATASET***

Explanation

For Monitor I session *sid* or Monitor II background session *sid*, RMF failed to open an output message data set.

For the Postprocessor, RMF failed to open the output message data set, MFPMMSGDS.

System action

If *sid* identifies a session, RMF ends that session but continues processing all other active sessions.

If *sid* identifies the Postprocessor, RMF ends the Postprocessor job.

Operator response

Try to start the session or the Postprocessor again. If the problem persists, notify the system programmer.

ERB227I***sid*: REJECTED, MAX SESSIONS ALREADY ACTIVE**

Explanation

A START command was issued to start non-TSO Monitor II session *sid* when the maximum number, 32, of Monitor II sessions were already active.

System action

RMF does not start session *sid*, but continues processing all other active sessions.

Operator response

Either stop one of the currently active sessions or wait until an active session stops. Then reissue the START command for session *sid*.

ERB229I***sid*: INITIALIZATION FAILED**

Explanation

RMF could not initialize session *sid*.

System action

RMF ends the session but continues processing all other active sessions.

Operator response

If RMF issues another message, such as ERB230I, describing the reason for the failure, respond to that message. If RMF does not issue another message, try to restart the session. If the problem persists, notify the system programmer.

ERB230I***sid*: TERMINATED ABNORMALLY {*Scde*/*Ucde*}**

Explanation

RMF detected that the system has abnormally ended session *sid*. *Ucde* is the user completion code, and *Scde* is the system completion code.

System action

If the RMF cataloged procedure included a SYSABEND or SYSUDUMP DD statement, the system writes a storage dump for the failing session. RMF continues processing all other active sessions.

Operator response

None.

System programmer response

Examine the dump and respond to the completion code.

ERB231I**sid: NOT ACTIVE**

Explanation

A MODIFY, STOP, or DISPLAY command specified session *sid*, but no currently active session is identified as *sid*.

System action

RMF does not process the command, but continues processing all active sessions.

Operator response

Enter the DISPLAY ACTIVE session command to determine the correct session identifier, and reissue the command. The command is described in *z/OS Data Gatherer User's Guide*.

ERB232I**sid: UNABLE TO ALLOCATE {HARDCOPY|SYS1.PARMLIB}. RETURN
CODE rc, ERROR CODE eeee, INFORMATION CODE iiii**

Explanation

During session *sid*, RMF failed to allocate dynamically either:

- An output data set needed for hardcopy, if *sid* is a Monitor II or Monitor III display session, or for a printed report, if *sid* is a background session.
- Parmlib for option processing

System action

For a display session, RMF continues the session but produces no hardcopy output.

For a background session, if the RECORD option is in effect, RMF continues measurement but produces no printed reports. If the RECORD option is not in effect for a background session, RMF ends the specific measurement but continues the session.

If Parmlib could not be allocated, RMF continues the session using the default values for the options.

Operator response

Continue the session, or end it and correct the situation described by the return, error, and information codes. See *z/OS MVS Programming: Authorized Assembler Services Guide* for more information.

ERB233I**sid: UNABLE TO OPEN HARDCOPY**

Explanation

During session *sid*, RMF failed to open an output data set. The data set was needed for hardcopy, if *sid* is a Monitor II or Monitor III display session; or for a printed report, if *sid* is a background session.

System action

For a display session, RMF continues the session but produces no printable output.

For a background session, if the RECORD option is in effect, RMF continues measurement but produces no printed reports. If the RECORD option is not in effect for a background session, RMF ends the specific measurement but continues the session.

ERB234I**sid: module TERMINATED ABNORMALLY Scde**

Explanation

During the RMF Postprocessor session or during session *sid*, an error caused an abnormal ending; *Scde* is the system completion code. The message names the RMF *module* most recently in control.

System action

If the error occurred after a Monitor II session had been successfully initialized, RMF issues message ERB235A to let the operator decide whether or not to continue the session. When RMF cannot issue ERB235A, RMF ends the session. In either case, RMF continues processing all other active sessions.

If the error occurred during the RMF Postprocessor session, RMF stops generating the Monitor II session interval report that was in process. If other reports were requested, the Postprocessor continues with them.

If the error occurred during a Monitor III display session, RMF either displays a panel allowing the operator to request a dump, or issues one of the following messages:

ERB565I

The Monitor III data gatherer was ended. RMF produces no more reports but continues the session.

ERB567I

The Monitor III data reporter detected an I/O error while accessing the SYSOUT data set. RMF produces no more printable output but continues the session.

Operator response

Respond to the system completion code and to message ERB235A, if issued.

| | |
|----------------|---|
| ERB235A | <i>sid</i>: TO CONTINUE RMF SESSION, ENTER ANY RMF COMMAND. TO TERMINATE THE SESSION AND OBTAIN A DUMP, ENTER 'STOP' |
|----------------|---|

Explanation

An abnormal ending, described in a previous message, has occurred during session *sid*. The operator can continue the session without obtaining diagnostic information or end the session and obtain diagnostic information.

System action

RMF waits for the operator's response.

Operator response

To continue the session, enter any explicit RMF display command. However, do not press the ENTER key to repeat the previous command; repetition will probably cause the problem to recur.

To end the session and obtain a dump, enter STOP.

| | |
|----------------|--|
| ERB236I | <i>sid</i>: TERMINATED ABNORMALLY <i>Ucde</i> |
|----------------|--|

Explanation

An abnormal ending occurred during session *sid*. *Ucde* is the user completion code.

System action

If the error occurred after the session had been successfully initialized, RMF issues message ERB235A to let the operator decide whether or not to continue the session. When RMF cannot issue ERB235A, RMF ends the session. In either case, RMF continues processing all other active sessions. If the error occurred during a Monitor III display session, RMF displays a panel allowing the operator to decide whether or not to obtain a dump.

Operator response

Respond to the user completion code and to message ERB235A, if issued.

ERB237I***sid:* ABEND U1403 FROM ERBRMFPL - INPUT ERROR**

Explanation

During the RMF Postprocessor session or Monitor II session *sid*, RMF's putline routine, module ERBRMFPL, was passed an incorrect input parameter. The text length was 0 or greater than 79, or the data type contained a value other than HD or DT. RMF may be running with a back level or incorrectly modified copy of module ERBFMENU or ERBBMENU.

System action

If the error occurred after the session had been successfully initialized, RMF issues message ERB235A to let the operator decide whether or not to continue the session. When RMF cannot issue ERB235A, RMF ends the session. In either case, RMF continues processing all other active sessions.

If the error occurred during the Postprocessor session, RMF stops printing the Monitor II session report that was in process. If other reports were requested, the Postprocessor continues with them.

The system writes an ABEND dump for the failing job step.

Operator response

If an installation-supplied reporter module caused the error, notify the responsible programmer. If an IBM-supplied module caused the error, respond to user completion code 1403 and to message ERB235A, if issued.

System programmer response

If ERBFMENU or ERBBMENU has been modified, the modification must be done again to either correct the error or to use a version of the module that was compiled with the current level of the SMF record mapping macros.

Search problem reporting data bases for a fix. If no fix exists, report the problem to the IBM Support Center.

ERB238I***sid:* ABEND U1404 FROM ERBPUTSM - TOO MANY HEADER OR DATA LINES**

Explanation

During display session *sid*, RMF module ERBPUTSM was called to add a header or data line to the logical terminal buffer, but ERBPUTSM found the maximum number of header or data lines already in the buffer. The maximum number of header lines is 2; the maximum number of data lines cannot exceed the number of relocate blocks specified in the PICTURE macro.

System action

If the error occurred after the session had been successfully initialized, RMF issues message ERB235A to let the operator decide whether or not to continue the session. When RMF cannot issue ERB235A, RMF ends the session. In either case, RMF continues processing all other active sessions.

The system writes an ABEND dump for the failing job step.

Operator response

Modify the PICTURE macro specified in the ERB {B|F} menu, if desired. Otherwise, if an installation-supplied reporter module caused the error, notify the responsible programmer, or, if an IBM-supplied module caused the error, respond to user completion code 1404 and to message ERB235A, if issued.

System programmer response

Obtain the SYSOUT output for the job.

Search problem reporting data bases for a fix. If no fix exists, report the problem to the IBM Support Center.

ERB239I***sid: ABEND U1405 FROM ERBPUTSM - INPUT ERROR***

Explanation

During display session *sid*, RMF module ERBPUTSM was called to add a text string to the logical terminal buffer, but the length specified for the text was zero.

System action

If the error occurred after the session had been successfully initialized, RMF issues message ERB235A to let the operator decide whether or not to continue the session. When RMF cannot issue ERB235A, RMF ends the session. In either case, RMF continues processing all other active sessions.

The system writes an ABEND dump for the failing job step.

Operator response

If an installation-supplied reporter module caused the error, notify the responsible programmer. If an IBM-supplied module caused the error, respond to user completion code 1405 and to message ERB235A, if issued.

System programmer response

Obtain the SYSOUT output for the job.

Search problem reporting data bases for a fix for the problem. If no fix exists, report the problem to the IBM Support Center.

ERB240I***sid: ABEND U1401 FROM ERBMFDPC - ERROR RETURN FROM TGET***

Explanation

During a TSO display session, the TGET SVC routine returned a code of 4, 16, 20, or more than 20.

System action

If the error occurred after the session had been successfully initialized, RMF issues message ERB235A to let the operator decide whether or not to continue the session. When RMF cannot issue ERB235A, RMF ends the session. In either case, RMF continues processing all other active sessions.

Operator response

Respond to user completion code 1401 and to message ERB235A, if issued.

ERB241I***sid: ABEND U1402 - INVALID ENTRY CODE TO DATA GATHERER OR DATA REPORTER***

Explanation

During the RMF Postprocessor session or Monitor II session *sid*, a data gatherer or data reporter issued return code 8 to indicate that it detected an incorrect entry code in its input parameters.

System action

If the error occurred after the display session had been successfully initialized, RMF issues message ERB235A to let the operator decide whether or not to continue the session. When RMF cannot issue ERB235A, RMF ends the session.

If the error occurred during a background session, RMF ends the session.

If the error occurred during either a display or background session, RMF continues processing all other active sessions.

If the error occurred during the Postprocessor session, RMF stops printing the Monitor II session report that was in progress. If other reports were requested, the Postprocessor continues with them.

The system writes an ABEND dump for the failing job step.

Operator response

For a display or background session or for the Postprocessor, respond to user completion code 1402. For a display session, respond to message ERB235A, if issued.

System programmer response

Obtain the SYSOUT output for the job.

Search problem reporting data bases for a fix. If no fix exists, report the problem to the IBM Support Center.

| | |
|----------------|--|
| ERB242I | <i>sid: POSTPROCESSOR TERMINATED - UNABLE TO OPEN INPUT FILE (ddname)</i> |
|----------------|--|

Explanation

The RMF Postprocessor, ERBRMFPP, was unable to open the input data set.

System action

RMF ends the Postprocessor.

Operator response

None.

System programmer response

Correctly describe the input data set on a DD statement named *ddname*.

| | |
|----------------|--|
| ERB243I | <i>sid: POSTPROCESSOR TERMINATED - ESTAE COULD NOT BE ESTABLISHED</i> |
|----------------|--|

Explanation

During the RMF Postprocessor session, the ESTAE macro failed and issued a non-zero return code.

System action

RMF ends the Postprocessor.

System programmer response

Notify the RMF license holder at your installation.

| | |
|----------------|---|
| ERB244I | <i>sid: MONITOR II REPORTS TERMINATED ABNORMALLY {Ucde/Scde}</i> |
|----------------|---|

Explanation

An error occurred while the RMF Postprocessor was formatting and writing Monitor II session reports. The error was not associated with a particular report. The Postprocessor may issue a user completion code *Ucde*; *Scde* is the system completion code.

System action

Because the error was not associated with a particular report, RMF stops formatting and writing all Monitor II session reports for this post processor session. If other reports were requested, the Postprocessor continues with them.

System programmer response

Examine the dump, and respond to the completion code.

ERB245I *sid: INVALID RETURN CODE FROM USER EXIT - USER EXIT IGNORED*

Explanation

During the RMF Postprocessor session with the EXITS option in effect, the Monitor I session user exit, ERBMFPUS, passed a return code other than 0, 4, or 8 to the Postprocessor.

System action

The Postprocessor continues running but will no longer invoke the user exit.

System programmer response

Retest the user exit routine to make sure that it returns a valid code to the Postprocessor.

ERB246I **Control statements for PLOT reporting are ignored**

Explanation

With z/OS V1R11 RMF, Postprocessor PLOT reports are no longer available. The corresponding control statements PLOTS, PTOD, MAXPLEN, and PINTV are ignored.

System action

The Postprocessor continues with the next control statement.

User response

None.

ERB247I *sid: INTERVAL REPORT TERMINATED DUE TO UNRECOVERABLE ERROR - ABEND {Scde/Ucde}*

Explanation

During the RMF Postprocessor session, one of the following occurred:

- An unrecoverable error occurred during initialization for Monitor I session interval reporting.
- All requested Monitor I session interval reports ended abnormally. In this case, RMF issues messages ERB401I and ERB402I before this message.

RMF may issue a user completion code *Ucde*; *Scde* is the system completion code.

System action

For either error, the Postprocessor stops generating interval reports. If a summary report is requested, the Postprocessor continues with this one.

System programmer response

Examine the dump, and respond to the completion code.

| | |
|----------------|--|
| ERB248I | <i>sid</i>: DURATION REPORT TERMINATED TO UNRECOVERABLE ERROR - ABEND {<i>Scde</i>/<i>Ucde</i>} |
|----------------|--|

Explanation

An error occurred while the RMF Postprocessor was formatting and writing a duration report. The error was not associated with a particular report.

RMF may issue a user completion code *Ucde*; *Scde* is the system completion code. RMF may also issue messages ERB401I and ERB402I before this message.

System action

Because the error was not associated with a particular report, RMF stops formatting and writing all duration reports for this Postprocessor session. If other reports were requested, the Postprocessor continues with them.

System programmer response

Examine the dump, and respond to the completion code.

| | |
|----------------|--|
| ERB250I | PPS: SMF RECORD CONVERTER ERBPPCON TERMINATED ABNORMALLY, <i>Sccc</i> |
|----------------|--|

Explanation

The RMF Postprocessor system management facilities (SMF) record converter, ERBPPCON, ended because of an error. ERBPPCON provides compatibility to the report-writing routines for SMF records created prior to RMF version 3.1.

In the message text, *Sccc* is the system completion code.

System action

The Postprocessor controller, ERBRMFPP, skips any SMF records created by previous versions of RMF. The RMF Postprocessor continues processing the SMF records created by RMF version 3. The data from the skipped records is not included in the reports produced by the Postprocessor.

System programmer response

Respond according to the action indicated in *z/OS MVS System Codes* for the given system completion code.

| | |
|----------------|---|
| ERB251I | SMF RECORD <i>tt</i>, SUBTYPE <i>ss</i>, INCOMPLETE. |
|----------------|---|

Explanation

The Postprocessor could not reassemble an SMF record of type *tt* and subtype *ss* because that record is incomplete. Originally, the record was larger than 32K, so it was broken into several smaller records. When attempting to reassemble the record, the Postprocessor could not find one or more of the smaller SMF records in the SMF data set.

System action

The smaller SMF records that belong to the incomplete SMF record are skipped.

User response

A possible cause for this may be due to the Daylight Savings Time change resulting in multiple records of the same type to occur with the same timestamp. If the records were split, the segments can be intermixed during sorting. This results in an inability for the Postprocessor to reassemble all segments of the complete record. View the dataset using ERBSCAN for the record type and subtype to determine if this is the case. Split the SMF data file into separate datasets by DST change and run the Postprocessor separately for each dataset.

Programmer response

Check the SMF input data set.

| | |
|----------------|---|
| ERB252I | <i>sid:{CYCLE CONFIGURATION PROCESSOR TYPE}CHANGED DURING date1 time1DURATION INTERVAL. number type{INTERVALS RECORDS} SKIPPEDSTARTING date2 time2</i> |
|----------------|---|

Explanation

While processing a duration report, the RMF Postprocessor found a change in either the cycle length, the configuration, or the processor type for the session that produced the system management facilities (SMF) records.

The meaning of the fields in the message text are:

date1 time1

The date and starting time of the duration interval during which either the cycle, the configuration, or the processor type change occurred.

number

The number of RMF measurement intervals that were skipped because of either the different cycle length, the configuration change, or the processor type change.

date2 time2

The date and starting time of the first RMF measurement interval that was skipped.

Note: RMF takes *date1* and *time1* from the first input record for the duration interval during which either the cycle, the configuration, or the processor type changed. Therefore, *date1* and *time1* may be later than the start date and time specified on the Postprocessor control statements.

System action

If the cycle length changed, the Postprocessor continues processing the duration reports, but ignores all data in the SMF records with different cycle lengths.

If the configuration changed, RMF skips either all device SMF records, or I/O queuing SMF records, or both, which belong to the same duration interval. If the processor type changed, RMF skips all I/O queuing SMF records which belong to the same duration interval.

| | |
|----------------|---|
| ERB253I | <i>sid: type RECORDS NO LONGER COLLECTED DUE TO {Scde/Ucde} ABEND IN DURATION INTERVAL date time</i> |
|----------------|---|

Explanation

While processing a duration report, the RMF Postprocessor detected an error. The Postprocessor may issue a user completion code *Ucde*; *Scde* is the system completion code.

The message indicates the date and start time of the duration interval during which the error occurred.

System action

If the error occurred during the data collecting phase, the Postprocessor stops collecting data for the type of duration report named in the message. If other duration reports were requested, the Postprocessor continues with them.

If the error occurred during the report writing phase, some or all of the reports for the duration interval indicated in the message may be lost. The Postprocessor continues to generate all types of duration reports.

System programmer response

Examine the dump, and respond to the completion code.

| | |
|----------------|--|
| ERB254I | <i>sid</i>: SUMMARY REPORT COLUMN <i>ccc</i> ELIMINATED DUE TO {<i>Scde</i>/<i>Ucde</i>} ABEND - INTERVAL date time |
|----------------|--|

Explanation

While processing a summary report, the RMF Postprocessor detected an error. The Postprocessor may issue a user completion code *Ucde*; *Scde* is the system completion code.

The error occurred while the Postprocessor was calculating or formatting data for report column *ccc*. The message indicates the date and start time of the system management facility (SMF) record being processed when the error occurred.

System action

The Postprocessor continues generating the summary report, but makes no further attempts to calculate or format data for column *ccc*.

System programmer response

Examine the dump, and respond to the completion code.

| | |
|----------------|---|
| ERB255I | <i>sid</i>: SUMMARY REPORT TERMINATED DUE TO UNRECOVERABLE ERROR - ABEND {<i>Scde</i>/<i>Ucde</i>} |
|----------------|---|

Explanation

While generating a summary report, the RMF Postprocessor detected an error that was not associated with a particular column in the report. The Postprocessor may issue a user completion code *Ucde*; *Scde* is the system completion code.

System action

Because the error was not associated with a particular column in the report, RMF stops formatting and writing the entire summary report for this Postprocessor session. If other reports were requested, the Postprocessor continues with them.

System programmer response

Examine the dump, and respond to the completion code.

| | |
|----------------|---|
| ERB256I | <i>sid</i>: SUMMARY REPORT <i>ccc</i> COLUMN CONTAINS DATA FROM TRUNCATED RECORDS. DATA MAY BE INCOMPLETE. |
|----------------|---|

Explanation

In the input data set, the RMF Postprocessor found spanned records without their spanning indicators. The Postprocessor issues this warning message because such records may be truncated or incomplete. *ccc* indicates the column in the report affected by the apparently truncated records.

During a session, RMF can generate system management facility (SMF) records that are so long that the records are spanned, that is, occupy more than one physical block. The spanning indicators can be lost through improper copying of the SMF records.

System action

The Postprocessor continues to generate the summary report using the data available and eliminating no columns.

System programmer response

Review your installation's procedures for copying or processing the SMF records produced by RMF. See *z/OS MVS System Management Facilities (SMF)* for further information.

| | |
|----------------|--|
| ERB257I | <i>sid</i>: RECORDS WITH VERSION NUMBER <i>nn</i> WERE FOUND IN THE INPUT DATA SET. THE EXPECTED VERSION NUMBER IS <i>mm</i>. |
|----------------|--|

Explanation

The Postprocessor found system management facility (SMF) records with an unexpected version number.

If *nn* is a valid version number, the SMF records were written by a gatherer that is at a higher release or service level than the Postprocessor.

If version number *nn* is obviously wrong, however, the cause of the problem may be that SMF records have been truncated by being copied to a non-VBS data set.

System action

The Postprocessor ignores records with an inappropriate version number and continues reading records. Records with the appropriate version number are processed. If no appropriate records are found, the Postprocessor ends with return code 4.

System programmer response

To ensure that the Postprocessor can handle the version of the SMF records to be processed, either run the Postprocessor on the same system as the gatherer, or install the newest level of RMF on the system on which you run the Postprocessor.

To avoid an obviously wrong value in *nn*, ensure that SMF records are always copied to a data set with record format VBS (variable blocked spanned.)

| | |
|----------------|--|
| ERB258I | <i>sid</i>: MONITOR I INTERVAL COLLECTION SKIPPED |
|----------------|--|

Explanation

A reporting interval for RMF Monitor I session *sid* lasted beyond 99 minutes. RMF did not create a system management facility (SMF) record for this interval, because the interval value field in the record cannot hold a value greater than 99. If produced, the SMF record would have been incorrect.

The long interval occurred for one of the following reasons:

- RMF had a dispatching priority so low it was not dispatched before 100 minutes had elapsed.
- The processor was stopped during the interval.
- A SET command changed the system clock during the interval.

System action

For this interval, RMF cancels the output, produces no SMF record, and writes no reports.

System programmer response

If the dispatching priority of RMF is too low, increase it so that RMF is dispatched more frequently.

ERB259I**EXCEPTION REPORTING TERMINATED**

Explanation

An error occurred in RMF module ERBMFXCB or ERBMFPER. The Postprocessor ESTAE routine failed to recover.

System action

RMF continues post processing, but ends exception reporting.

System programmer response

Examine the dump, and respond to the completion code in it.

ERB260I**ZZ:activity ACTIVITY RMF REPORT TERMINATED**

Explanation

The Data Gatherer encountered an unrecoverable error while taking measurements for the Monitor I monitoring activity named in the message. This message follows ERB261I, ERB265I, ERB266I, or ERB272I, which give the reason for ending the measurement.

System action

The Data Gatherer stops the measurements.

System programmer response

Respond to the messages preceding ERB260I.

ERB261I***sid*: UNABLE TO ESTABLISH ENF LISTEN EXIT FOR EVENT CODE *code*.
RETURN CODE *rc*.**

Explanation

RMF had issued an ENFREQ macro to call the event notification facility (ENF) in order to establish a listen exit. The ENFREQ macro passed return code *rc*; see *z/OS MVS Programming: Authorized Assembler Services Reference EDT-IXG* for further information.

System action

If the error occurred while RMF was trying to establish a listen exit for a specific report, RMF ends the report, stops the corresponding measurement, and issues message ERB260I.

If the error occurred while RMF was trying to establish the listen exit for dynamic I/O reconfiguration (event codes 31 and 32), RMF cannot recognize dynamic I/O environment changes, and issues message ERB294I.

Operator response

Contact your system programmer

System programmer response

Analyze the return code *rc* from the ENFREQ macro.

| | |
|----------------|--|
| ERB263I | RMF UNABLE TO CLOSE IOCDS. {RETURN RESPONSE} CODE <i>rc</i> |
|----------------|--|

Explanation

RMF failed to close the I/O configuration data set (IOCDS). The MSSFCALL SVC passed return code or response code *rc*, which is described in messages ERB265I and ERB266I.

System action

RMF continues processing.

Operator response

Probable hardware error. An initial microcode load (IML) may be required before the IOCDS can be accessed again.

| | |
|----------------|---|
| ERB264I | NO CHANNEL PATH STATUS DATA AVAILABLE TO RMF |
|----------------|---|

Explanation

Either RMF detected that both the store channel path status (STCPS) facility was not active and the I/O Queuing Activity report was selected at initialization time or the Monitor I session option for channel path activity (CHAN) was specified and both the STCPS facility was not active and the Channel Path Measurement Facility (CPMF) was not available.

System action

RMF stops channel activity measurement. The field % ALL CHANNEL PATHS BUSY in the I/O queuing (IOQ) report will be zero.

| | |
|----------------|--|
| ERB265I | IOCDS INFORMATION UNAVAILABLE TO RMF. {RESPONSE RETURN} CODE <i>rc</i>. |
|----------------|--|

Explanation

RMF encountered an error while trying to read the I/O configuration data set (IOCDS). A model-dependent return code is included only if IOCDS data is returned by the service processor.

The possible return codes are:

0001

Data set not found during READ.

0002

Buffer address is not valid.

0003

Permanent I/O error.

0005

Number of records to be read is less than or equal to zero, or greater than 32,768.

0007

Record format is not valid.

0008

Incorrect length.

0009

Data set open for output.

- 0011**
Number of records for a variable length data set is one.
- 0013**
Displacement of a variable length data set in the ACTIVEFILE table is not valid.
- 0014**
Character is not valid in data set name during READ.
- 0015**
Character is not valid in data set type during READ.
- 0020**
Character is not valid in data set ID during OPEN process.
- 0024**
Data set mode is not valid during OPEN process.
- 0036**
Disk not accessed during OPEN process.
- 0037**
Failure in non-READ/WRITE services.
- 0100**
Number of records specified in model-dependent parameter is not valid.
- 0101**
Data set not open.
- 0102**
Data set is not valid in model-dependent parameter.
- 0104**
Function is not valid in model-dependent parameter.
- 0106**
Command not accepted because write sequence is in progress.
- 0107**
Diagnostic IOCDS is active but not valid for reads.
- 0108**
No IOCDS is currently marked active.
- 0112**
End of file, or record number is greater than number of records in data set.
- 0128**
Data set not found during OPEN process.
- 0130**
IOCDS/IOCS file specified may not be accessed from this CEC side.
- 0132**
IOCDS/IOCS is open for a write by another partition. This is returned by the LPAR hypervisor.
- 0133**
IOCDS/IOCS is incorrect because a partition was reset during a write operation. The IOCDS/IOCS must be validated by a write sequence. This is returned by the LPAR hypervisor.
- 0134**
The PR/SM partition is not authorized to read the IOCDS.
- 01F0**
Function not supported by VM. Option RMCHINFO not specified for the MVS virtual machine on VM. For VM/ESA, specify the RMCHINFO option to get the configuration data in the IOQ report.
- 0200**
Successful for inactive IOCDS/IOCS.
- 0201**
Successful for active not updated IOCDS/IOCS.

0202

The active IOCDS used for this power on reset has already been updated. Because it may not reflect the current configuration information, RMF ends further attempts to process this information.

0457

IOCDS format error. This occurs when RMF is run under PR/SM without the PR/SM support PTF installed.

FFFF

Reserved for service call front-end routing module. Incorrect routing code specified.

System action

RMF cannot obtain information about the present I/O configuration. The action RMF takes for each report is:

CHANNEL PATH ACTIVITY

RMF continues monitoring but cannot obtain the channel type for the system management facility (SMF) record or for the written report.

I/O DEVICE ACTIVITY

RMF continues monitoring devices but cannot obtain the logical control unit (LCU) identifier for the SMF record. The RMF report, if requested, will not contain the LCU device activity summary; instead, the device report lists the device numbers in ascending order, and the LCU field is blank.

I/O QUEUING ACTIVITY

RMF stops monitoring I/O queuing activity and issues message ERB260I.

System programmer response

Contact your software support personnel.

ERB266I**IOCDS INFORMATION UNAVAILABLE TO RMF. RETURN CODE *rc*.****Explanation**

RMF encountered an error while trying to read the I/O configuration data set (IOCDS). The service call routine returned return code *rc*.

Values of *rc* and their meanings are:

0004

The service processor is temporarily busy.

0008

The MVS control block for interfacing with the service processor is in use.

0012

The service processor is not available because of hardware failure.

System action

RMF cannot obtain information about the present I/O configuration. The action RMF takes for each report is:

CHANNEL

RMF continues monitoring but cannot obtain the channel type for the system management facility (SMF) record or for the written report.

I/O DEVICE

RMF continues monitoring devices. In the SMF record, a flag (SMF74LCD) is on and the logical control unit (LCU) is unpredictable. The RMF report, if requested, does not contain the LCU device activity summary. The LCU field is blank.

I/O QUEUING

RMF ends monitoring I/O queuing activity and issues message ERB260I.

ERB267I**SRM I/O LOAD BALANCING INFORMATION UNAVAILABLE TO RMF.**

Explanation

RMF cannot find the logical path block (LPB) table to satisfy an LPB utilization (LPBUTIL) trace option request, nor can it obtain information about load balancing from system resource management (SRM).

System action

RMF ends the LPBUTIL trace request but continues all other trace requests.

System programmer response

During the next IPL, allow more storage for the LPB table by specifying a larger value for the SQA parameter. See *z/OS MVS Initialization and Tuning Reference*.

ERB268I***sid*: PRIVATE STORAGE TOO SMALL FOR MONITOR III GATHERER**

Explanation

The REGION parameter in the cataloged procedure for the RMF Monitor III data gatherer is too small.

System action

RMF ends the Monitor III data gatherer.

System programmer response

Increase the REGION parameter value in the cataloged procedure.

ERB269I**III: ERROR IN MONITOR III GATHERING MODULE *module* DUMP TAKEN**

Explanation

The RMF Monitor III data gatherer module named in the message found a permanent error when trying to collect data. This error could happen if RMF external control blocks were changed since the last Monitor III session.

System action

RMF ends the named Monitor III data gatherer module but continues other data gathering.

System programmer response

Examine the printed dump, and correct any errors.

ERB270I***sid*: THE ADDRESS SPACE OF MONITOR III GATHERER NO LONGER EXISTS**

Explanation

In response to a MODIFY session command for a Monitor III data gatherer, RMF could not find the address space for session *sid*. This error could happen if you had entered a CANCEL command for any of the address spaces of the started task RMFGAT.

System action

RMF ends the session *sid*.

Operator response

If appropriate, restart the Monitor III data gatherer.

Explanation

Private storage at Monitor III data collection region RMFGAT is too small.

System action

RMF deactivates Monitor III CACHE data collection.

Operator response

Reduce the number of CACHE subsystems for which CACHE data should be collected, using the gatherer option: `CACHE(SSID(xxxx,yyyy,...))`.

Or you can ask your system programmer to increase the region parameter value in the RMFGAT procedure.

System programmer response

Increase the region parameter value in the RMFGAT procedure and restart it.

Explanation

A device report was requested for devices that do not belong to the system.

System action

RMF stops monitoring device activity, and issues message ERB260I.

System programmer response

Change the device class or NMBR range of the device options that are used to start the session, and make sure the selected devices belong to the system. Then modify the session using the corrected device options.

Explanation

In the RMF Monitor I trace report, at least one of the following fields was selected: OMDGWTOI, OMDGCMDI, OMDGWTLI, OMDGWQEB, OMDGOREB or OMDGAMRE. The module is not available.

System action

No trace data is produced for the selected fields. The trace activity report contains the following line for each of the selected fields:

NO VALID DATA GATHERED FOR FIELD *fieldname*.

Operator response

Contact your system programmer.

System programmer response

Report the problem to the IBM Support Center.

Explanation

You requested the option FCD, but there is no FICON director installed in the system.

System action

Because there is no FICON director installed, no data can be provided. The option FCD is terminated if the system does not allow dynamic I/O updates. Otherwise, the option stays active but no SMF record 74-7 is written until a FICON director is installed and is activated via an HCD ACTIVATE request.

System programmer response

To suppress this message, change the option statement or library member to indicate NOFCD until a FICON director is installed in the system and FICON director measurement data is available.

ERB276I **I/O CONFIGURATION DATA IS NOT AVAILABLE.**

Explanation

RMF encountered an error while trying to retrieve I/O configuration data.

System action

RMF cannot obtain information about the present I/O configuration. The action RMF takes for each report is:

CHANNEL

RMF continues monitoring but cannot obtain the channel type for the system management facility (SMF) record or for the written report.

I/O DEVICE

RMF continues monitoring devices. In the SMF record, a flag (SMF74LCD) is on and the logical control unit (LCU) is unpredictable. The RMF report, if requested, does not contain the LCU device activity summary. The LCU field is blank.

I/O QUEUING

RMF ends monitoring I/O queuing activity and issues message ERB260I.

ERB277I ***sid*: OPTION VALUE OUT OF RANGE, CONFLICTING, OR IMPROPERLY SPECIFIED.**

Explanation

While processing the options for Monitor III data reporter session *sid*, RMF detected an incorrect value for one of the following options: MODE, SCREEN, REFRESH, STOP, or SYSOUT.

System action

If the option error is detected during input/merge processing, when starting a local 3270 reporting session, RMF issues additional messages to the system console.

If the option error is detected during options processing in a foreground session, RMF assumes the default value for the incorrect option and continues the session.

ERB278I ***sid*: INVALID OPTION OR EDIT COMMAND ENCOUNTERED**

Explanation

While processing the options for Monitor III data reporter session *sid*, RMF detected incorrect options and/or edit commands. RMF highlights the errors.

System action

RMF continues the session.

Operator response

Correct the incorrect options and commands, or press ENTER to make RMF ignore the highlighted options and commands.

ERB279I***sid*: MONITOR III GATHERER INITIALIZATION FAILED**

Explanation

While RMF was initializing Monitor III data gatherer session *sid*, an error occurred. The error could be either:

- A system overload.
- Procedure RMFGAT missing from SYS1.PROCLIB.
- OMVS has not yet initialized.

System action

RMF stops initializing the data gatherer but continues processing all other active sessions.

System programmer response

Try to start session *sid* again after other address spaces have ended. Check SYS1.PROCLIB for RMFGAT; if missing, install them in the library.

ERB280I**III: DATA GATHERER ABENDED {*Ucde*/*Scde*}**

Explanation

During Monitor III data gathering, an unrecoverable error occurred while the data gatherer control modules were running. The data gatherer recovery routines did not attempt a retry.

In the message, *Ucde* is the user completion code; *Scde* is the system completion code.

System action

The system writes an ABEND dump for the failing job step.

The Monitor III data gatherer ends.

System programmer response

Examine the dump, and respond to the completion code. If this problem recurs, notify the RMF license holder at your installation.

Search problem reporting data bases for a fix. If no fix exists, report the problem to the IBM Support Center.

ERB281I**UNABLE TO ACTIVATE/DEACTIVATE LCU MEASUREMENTS. RESPONSE
CODE|RETURN CODE *cccc***

Explanation

RMF could not activate or deactivate the channel hardware generation of model-dependent I/O measurements for logical control units of the I/O configuration. In the message text, *ccc* is the return code from SVC 122.

System action

RMF processing continues without the I/O queuing activity report function. If RMF was attempting to activate LCU measurements during initialization, this message is followed by message ERB260I.

| | |
|----------------|--|
| ERB282I | IOCD INFORMATION UNAVAILABLE FOR <i>ddd</i> OF <i>yyyy</i> DEVICES. LAST RETURN RESPONSE CODE <i>cccc</i> |
|----------------|--|

Explanation

RMF attempted to read the I/O configuration data for the device *ddd* named in the message, but MSSFCALL returned an unexpected error. In the message text, *ccc* is the response code or the return code from MSSFCALL.

System action

RMF could not obtain the IOCD information for device *ddd*. The following action is taken for each I/O report requested:

- Channel -- monitoring will continue, but the channel type information may not be available in the SMF record and/or the written record.
- I/O device -- monitoring will continue, but an indicator in the SMF record will be set and the LCU is not available. For purposes of formatting the the device report output properly, RMF will assign the device to the dummy device group LCU 00.

| | |
|----------------|--|
| ERB283I | PPS: MAXIMUM NUMBER OF 253 OVW CONTROL STATEMENTS EXCEEDED. |
|----------------|--|

Explanation

The Postprocessor detected more than 253 OVW control statements in the input stream.

System action

In context with the option OVERVIEW(RECORD), only the first 253 OVW statements will be processed , the other OVW statements will be ignored. All statements will be processed for option OVERVIEW(REPORT).

User response

If you want to create overview records for more than 253 conditions, you have to run several steps of the Postprocessor.

| | |
|----------------|--|
| ERB286I | III: OPTION <i>option</i> IS IGNORED DUE TO PREVIOUS ERROR. |
|----------------|--|

Explanation

The option *option* has been specified but the associated data gatherer has terminated abnormally before.

System action

Option is ignored.

Operator response

Notify your system programmer.

System programmer response

Examine system log for earlier messages and follow the message instructions.

| | |
|----------------|---|
| ERB287I | III: MONITOR III DATA GATHERER <i>module</i> TERMINATED. |
|----------------|---|

Explanation

The Monitor III data gatherer module *module* received a system abend code it could not handle.

System action

The specific gatherer is terminated, and no further data from the interface is collected.

Operator response

Notify your system programmer.

System programmer response

Examine the system code and correct the problem, or contact the IBM Support Center.

ERB288I

**III: MONITOR III DATA GATHERER *module*. INTERFACE *interface*
FAILED. RC = *xx* REASON = *xxx*. [ABEND U1607. DUMP TAKEN.]**

Explanation

The RMF Monitor III data gatherer *module* received a return code from the interface *interface*. The return code and reason code are reported. If a user dump is taken, the message text is extended by **ABEND U1607. DUMP TAKEN.**

System action

No data from the interface is collected during this RMF cycle, mintime, or interval. The RMF data gatherer remains active and at the next cycle, mintime, or interval, the RMF data gatherer module is called again.

Operator response

Contact your system programmer.

System programmer response

Examine the dump, and respond to the return and reason codes.

ERB289I

***sid*: MORE THAN 100 MONITOR III DATA SET NAMES SPECIFIED,
ADDITIONAL DATA SETS IGNORED**

Explanation

There are currently 100 data set names, and you cannot specify any additional data set names.

System action

The system does not process your input and needs the intervention of the operator to intervene. RMF issues the following messages:

- ERB305I - This message lists the current sessions options.
- ERB306D - This message requires that the operator supply new options or enter GO to continue RMF processing.

Operator response

You should take the following actions:

- Examine the options listed in message ERB305I and respond to message ERB306D.

- If possible, delete some data set names using the DEL suboption of the DS/DATASET option.
- You can then begin to add new data set names.

System programmer response

If the error occurred on an EXEC statement or library data source, correct the statement or library member.

| | |
|----------------|---|
| ERB290I | <i>sid</i>: DATA SET NAME <i>name</i> {ALREADY KNOWN NOT KNOWN} {DELETE ADD} IGNORED |
|----------------|---|

Explanation

The system issues this message for one of the following conditions:

- You specified the DEL suboption on the DS/DATASET option to delete a data set that does not exist.
- You specified the ADD suboption on the DS/DATASET option to add a data set that already exists.

System action

The system ignores the input for the ADD or DEL suboption, and forces the operator to intervene. RMF then issues the following messages:

- ERB305I - This message lists the current session options.
- ERB306D - This message requires that the operator supply new options or enter GO to continue RMF processing.

Operator response

Examine the options listed in message ERB305I and respond to message ERB306D.

System programmer response

If the error occurred on an EXEC statement or library data source, correct the statement or library member.

| | |
|----------------|--|
| ERB291I | <i>sid</i>: DATA SET RECORDING OPTION <i>suboption</i> CANNOT BE MODIFIED. PREVIOUS OPTION OPERATION STILL IN PROCESS |
|----------------|--|

Explanation

DS/DATASET *suboption* may be any one of the following:

- SWITCH
- DEL
- ADD

Message ERB2901I appears when you specify the DS/DATASET option with a *suboption*, while a previous operation for a *suboption* is still in progress.

The system processes each *suboption* in sequential order.

System action

The system ignores the *suboption* input.

Operator response

Wait until the system processes the previous suboption, then take the appropriate action for the suboption you specified.

- SWITCH - The system issues message ERB813I when it completes the switch.

- ADD or DEL - The Monitor III Data Index report contains the actual data set names list; check this list to see if the system issued or deleted the data set names.

ERB292I**III: MONITOR III DATA GATHERER *module name* FAILED. [DUMP
TAKEN.] [MODULE TERMINATED.]**

Explanation

There was an unexpected error in the RMF Monitor III data gatherer *module*. If a dump is taken, the message text is extended by **DUMP TAKEN**. If the mentioned module is terminated, this is indicated by the additional text **MODULE TERMINATED**.

If issued by gatherer GRB3GCRY, then RMFGAT found a situation where gathering of cryptographic hardware information is not possible (for example, no cryptographic hardware is configured, the CHSC call returns with an error or a data block with information on cryptographic hardware older than CEX3 which lacks the info on the length of the data block). The gatherer GRB3GCRY cannot handle this data and terminates.

System action

The failing RMF data gatherer module either remains active or is terminated. A dump is taken only for the first occurrence.

Operator response

Contact your system programmer.

System programmer response

Analyze the dump.

ERB294I***sid*: RMF IS NOT ABLE TO REACT ON DYNAMIC I/O UPDATES.**

Explanation

RMF was not able to activate a listen exit to check for dynamic I/O updates. RMF cannot recognize dynamic I/O environment changes.

System action

RMF activates all requested options, but will not react to any dynamic I/O changes.

ERB296I**III: WLM WORKLOAD ACTIVITY COLLECTION TERMINATED: ABEND
U1609**

Explanation

During WLM workload activity collection, a permanent failure occurred. The collection is terminated.

System action

RMF Monitor III gathering continues without workload activity collection. Data may be incomplete.

ERB297I***sid*: SMF SYNCHRONIZATION INTERFACE IS NOT ACTIVE. INTERNAL
RMF INTERVAL PROCESSING USED.**

Explanation

Data Gatherer session <*sid*> was started with the **SYNC(SMF)** option, but the SMF synchronization interface was not active.

System action

The Data Gatherer closes the current interval and switches to an internal timing based on defaults.

Operator response

Contact your system programmer.

System programmer response

Check the SMF synchronization interface and determine why it is not active.

| | |
|----------------|--|
| ERB298I | <i>sid</i>: SMF SYNCHRONIZATION INTERFACE IS ACTIVATED. SMF INTERVAL PROCESSING USED. |
|----------------|--|

Explanation

SMF started its global interval processing after a failure occurred while Data Gatherer session <*sid*> was running with the **SYNC(SMF)** option active.

System action

Data Gatherer closes the current interval and switches to SMF synchronization.

Operator response

None.

System programmer response

None.

| | |
|----------------|---------------------------------------|
| ERB299I | NO DCB ADDR PASSED TO ERBMFMPR |
|----------------|---------------------------------------|

Explanation

RMF called message processing routine ERBMFMPR to process a message, but did not pass a data control block (DCB) address for the data set for the message.

System action

RMF continues processing. The message being processed is lost unless it also appears on the operator console.

Operator response

Notify the system programmer, supplying the ERB message number immediately preceding ERB299I to help the system programmer determine which module called ERBMFMPR.

System programmer response

Use the ERB message number immediately preceding ERB299I to determine which module called ERBMFMPR.

| | |
|----------------|---|
| ERB300I | <i>sid</i>: SYNTAX ERROR IN OR FOLLOWING TEXT BEGINNING <i>text</i> IN <i>source</i> INPUT |
|----------------|---|

Explanation

During the syntax scan of the input options for the Postprocessor or for session *sid*, RMF found one or more errors in or following the text shown in the message. Usually, the last character shown in text is the error. The source of the error is:

Source

Where the error was found

OPERATOR

In an operator command.

PARM

In the PARM field of an EXEC statement in the RMF cataloged procedure.

LIBRARY nn

In library member ERBRMFnn.

REPLY

In the operator reply to message ERB306D.

SYSIN

In an RMF Postprocessor control statement.

System action

RMF parses the rest of the input source, then continues with input from any other sources.

When the error occurs during a session, RMF asks the operator for intervention: RMF issues message ERB305I, listing the current session options, followed by message ERB306D, to which the operator replies by supplying new options or entering GO. RMF continues other processing.

When the error occurs during the Postprocessor session or the Monitor III data reporter, RMF ignores the incorrect option and substitutes the default value, if a default value exists.

Operator response

Examine the options following message ERB305I, and respond to message ERB306D.

System programmer response

If the incorrect option is on the EXEC statement, in the library data source, or on a Postprocessor control statement, correct the statement or library member.

ERB301I

sid: **CONFLICTING OPTIONS - *n***

Explanation

For session *sid*, you specified incorrect values or mutually exclusive options. *n* indicates the type of conflict, as follows:

n

Conflict

1

Both NOREPORT and NORECORD were specified, meaning that RMF could produce no output data.

2

REPORT(DEFER) and NOSTOP were specified, meaning that the SYSOUT spool space could become filled.

3

The STOP value is less than the INTERVAL value, meaning that the session will end before the first measurement interval.

4

Both SYNC(SMF) and INTERVAL were specified, but the two options are mutually exclusive. When the SYNC(SMF) option is specified, the interval length is determined by SMF.

5

Either REPORT or NORECORD was specified but the reporter functionality is not available on the system. RMF can only write output data to records.

System action

RMF modifies the options and continues with input merge and initialization for the session. *n* indicates the modification:

n

Modification

1

RMF changes NOREPORT to REPORT(DEFER).

2

RMF changes NOSTOP to STOP(value) and sets the value equal to the length established for the interval.

3

RMF sets the STOP value equal to the length established for the interval.

4

RMF ignores the INTERVAL option and uses SYNC(SMF).

5

RMF changes REPORT to NOREPORT and NORECORD to RECORD.

In addition, RMF asks the operator for intervention: RMF issues message ERB305I, listing the current session options, followed by message ERB306D, to which the operator replies by supplying new options or entering G0. RMF continues other processing.

Operator response

Examine the options following message ERB305I, and respond to message ERB306D.

System programmer response

Examine the input sources, and correct any errors before the next RMF session.

ERB302I

***sid*: MEMBER ERBRMF*nn* NOT FOUND IN PARM LIBRARY**

Explanation

During input merge for session *sid*, RMF obtained the library member name ERBRMF*nn* from MEMBER(*nn*) in the RMF control input stream or assumed the name as a default. However, RMF could not find ERBRMF*nn* in any of the parameter libraries. See *z/OS Data Gatherer User's Guide* for information on how to specify the RMF parameter library.

System action

RMF ignores the library as an input source and continues the input merge and initialization.

At the end of the input merge, RMF asks the operator for intervention: RMF issues message ERB305I, listing the current session options, followed by message ERB306D, to which the operator replies by supplying new options or entering G0. RMF continues other processing.

Operator response

Examine the options following message ERB305I, and respond to message ERB306D.

System programmer response

Create a member with the name ERBRMF*nn*, if desired.

ERB304I

***sid*: I/O ERROR WHILE PROCESSING RMF LIBRARY DATA SET.**

Explanation

During initialization for session *sid*, an I/O error that could not be corrected, or OPEN error occurred while RMF was reading or searching for the ERBRMFnn member in the parameter libraries. *z/OS Data Gatherer User's Guide* gives guidance on specifying parameter libraries.

The SYNAD text appears in the message only if the error occurred while reading the member.

System action

RMF ignores the library as an input source and continues input merge and initialization.

At the end of the input merge, RMF asks the operator for intervention: RMF issues message ERB305I, listing the current session options, followed by message ERB306D, to which the operator replies by supplying new options or entering GO. RMF continues other processing.

The system sends messages about the job to one of the following:

- The primary console
- The remote console, for a system with remote consoles
- The hardcopy log for a system with multiple console support (MCS)

Operator response

Examine the options following message ERB305I, and respond to message ERB306D.

Contact hardware support.

System programmer response

Check the IEFPARM statement in the RMF procedure, or recreate the library data set before using the library again

| | |
|----------------|--|
| ERB305I | <i>sid: PARAMETERS option (value) source . . option (value) source</i> |
|----------------|--|

Explanation

RMF issues this message if a list of options is requested upon completion of input merge or if RMF detects an error during input merge. The options are listed, one per line, in the form:

```
option (value) source
```

The source indicates where the option was specified or what action was taken:

Source

Where the option was specified

COMMAND

On a START or MODIFY command.

DEFAULT

In the program defaults.

EXEC

On the EXEC statement in the RMF cataloged procedure.

MEMBER

In a member of the RMF partitioned data set.

Source

What action was taken

CHANGED

Changed by RMF.

- If the preceding message is ERB803I, the data set recording function of the Monitor III data gatherer ended abnormally. RMF changes the DS/DATASET option to STOP.
- If the preceding message is ERB819I, the data set recording function of the Monitor III data gatherer could not start because no data set names were available. RMF changes the DS/DATASET option to STOP.

IGNORED

Option is ignored.

- If both SYNC(SMF) and INTERVAL options are specified, RMF ignores the INTERVAL option and uses SYNC(SMF).

System action

RMF issues message ERB306D.

Operator response

Examine the list of options and verify the values.

| | |
|----------------|---|
| ERB306D | <i>sid</i>: REPLY WITH OPTIONS OR GO |
|----------------|---|

Explanation

RMF issues this message after message ERB305I to let the operator change the options.

System action

RMF waits for the operator to reply. RMF continues processing all other active sessions.

Operator response

To change options, enter

```
REPLY xx, 'option(value),option(value,...'.
```

Otherwise, enter

```
REPLY xx, 'GO'.
```

If you respond with changes, RMF changes the options. RMF issues this message repeatedly, allowing additional changes, until you respond with GO.

If you enter a syntax error, mutually exclusive values, or incorrect values in your reply, RMF issues message ERB300I or ERB301I. If you specify MEMBER(nn), RMF ignores it because the input merge is already complete and a particular library member was already used. If you specify OPTIONS, RMF lists the options after a subsequent reply of GO.

Note: A syntax error, mutually exclusive options, or incorrect values in your reply forces RMF to issue messages ERB305I and ERB306D again.

| | |
|----------------|---|
| ERB307I | III: MONITOR III DATA GATHERER <i>module</i>. INTERFACE <i>interface</i> FAILED. RETURN CODE: xx REASON CODE: xxx. |
|----------------|---|

Explanation

The RMF Monitor III data gatherer *module* received a return code from the interface *interface*. The return code and reason code are reported. It is possible that the message text is extended by **ABEND U1607 DUMP TAKEN**.

System action

This specific gatherer is terminated, and no further data from the interface is collected.

If issued by module GRB3GINI because the IOSENQ service failed, RMFGAT could not get the IOS enqueue in order to serialize initial processing with IOS configuration activity. RMFGAT continues processing but may have to retry initialization several times because of listen exit processing of IOS configuration change events.

Operator response

Contact your system programmer.

System programmer response

Respond to the return and reason codes. If a dump has been taken, please refer to the explanation of user completion code 1607.

ERB308I**ZZ: INTERVAL LENGTH MUST BE A TRUE DIVISOR OF 60**

Explanation

Only the following values for the interval length are allowed: 1,2,3,4,5,6,10,12,15,20,30,60. This restriction guarantees:

- That the SYNC value is met every hour
- That a Postprocessor report involving several systems (such as a SYSPLEX report) can be built at least on an hourly basis.

System action

The interval length is changed to the next valid interval length.

Operator response

None.

System programmer response

Change the interval length to an allowed value. You might also decide to switch to SYNC(SMF) (see *z/OS Data Gatherer User's Guide*) and let the interval length be determined by SMF. This ensures that SMF records written by RMF and by other components are written simultaneously.

ERB309I**sid: ERROR IN WLM INTERFACE. RETURN CODE yy. REASON CODE zz.**

Explanation

An error occurred in the WLM interface. The return and reason code describe the error in more detail. See WLM return codes and reason codes for more information in *z/OS MVS Planning: Workload Management* and *z/OS MVS Programming: Workload Management Services*.

System action

As indicated by the return code and reason code, WLM data may be not available or only partially available. RMF produces reports based on the data it has. The system writes an SVC dump.

System programmer response

Refer to the return and reason codes for more information. You can try to restart RMF.

ERB310I**sid: ERROR DURING COLLECTION OF WLM DATA. RETURN CODE yy.
REASON CODE zz.**

Explanation

An error occurred in the RMF WLM interface services when trying to obtain WLM data.

System action

WLM data may not be available or only partially available.

RMF issues message ERB309I if the reason code is 802, 804, or 805.

System programmer response

Refer to the return and reason codes for more information.

Problem determination

See the return and reason codes below:

RC 8

Error

RS 802

Error in IWMRCOLL service during RCAA data retrieval

RS 804

Error in IWMPQRY service during SVPOL data retrieval

RS 805

Error in IWMRQRY service during RQAA data retrieval

RS 807

Internal RMF error

RS 808

Internal RMF error

RS 809

Internal RMF error

ERB311I

**RMF: CANNOT REACT ON WLM OR SRM CHANGES. INTERVALS MAY
HAVE MISSING WORKLOAD DATA.**

Explanation

One of the following things happened:

1. z/OS Data Gatherer listen exit GRBLXWLM failed (abended). Here the error message is accompanied by a dump caused by module GRBLXWLM.
2. z/OS Data Gatherer could not establish one of the listen exits 41 during startup. Here the message is preceded by message ERB261I indicating that the WLM ENF listen exit could not be established.
3. z/OS Data Gatherer could not obtain storage for the common services control block during startup of z/OS Data Gatherer.

Thus z/OS Data Gatherer cannot immediately react on the following events:

- VARY WLM,POLICY= operator command
- MODIFY WLM,MODE= operator command

System action

If one of the actions listed above occurred, the workload data for those intervals/mintimes will be lost.

Operator response

Inform the system programmer.

System programmer response

- If the ENF listen exit could not be activated, check the reason (See *z/OS MVS Programming: Authorized Assembler Services Reference EDT-IXG* for a description of the return codes from the ENF facility).
- If there is an ABEND, check the dump associated with this message.

| | |
|----------------|--|
| ERB312I | PPS: DIFFERENT CYCLE VALUES FOR SDEVICE REPORT DURING date1 time1 INTERVAL. |
|----------------|--|

Explanation

The CYCLE value found in an SMF type 74 subtype 1 record is different from the CYCLE values found in the other SMF type 74 subtype 1 record belonging to this interval.

System action

The report is not created for those time ranges which have different CYCLE values.

User response

Use only those SMF records as input to this Postprocessor report which have the same cycle value. Ensure that the RMF Monitor I runs on all systems with the same SYNCH and CYCLE options.

Problem determination

The Shared Device Activity reports require that the SMF records of all systems used to create this reports run with at least the same CYCLE and SYNCH option.

| | |
|----------------|--|
| ERB313I | PPS: SMF RECORDS FROM RMF RELEASES PRIOR TO 5.1 NOT USABLE FOR SDEVICE REPORT |
|----------------|--|

Explanation

The Postprocessor found SMF type 74 subtype 1 records from a release prior to RMF 5.1.

System action

The SMF records having the wrong release level are not used to create the shared device reports. If all records are from a previous release, no shared device reports are created.

User response

Exclude the SMF records from the input data set which are not from RMF.

Problem determination

The Shared Device Activity reports require that the SMF records are created either by the current release RMF or from a later release.

| | |
|----------------|--|
| ERB314I | sid: WLM DATA PARTIALLY NOT AVAILABLE |
|----------------|--|

Explanation

RMF was not able to collect (all) WLM data.

System action

No action taken.

System programmer response

When the message occurred in combination with fast changes of the POLICY, this is an expected situation.

Problem determination

RC from WLM data collection service was 8, reason code 806. Valid data could not be obtained, or the token returned by the RMF WLM interface services did not match for one of the following reasons:

1. The POLICY changes were too fast to obtain data.
2. The execution velocity goal defined in the WLM service class for monitors (WLM, RMF) may be too low.

ERB315I

sid: ABEND U1611: Consecutive failure count exceeded limit in GRB3GSCM. Service Policy Gatherer terminated.

Explanation

The RMF Monitor III gatherer tried to obtain the WLM service policy and failed ten times. The service policy gatherer is deactivated. The data gathered in the sets of samples show that WLM data is not available.

System action

A dump is taken. The RMF Monitor III gatherer continues without service policy gathering.

System programmer response

Several ERB309/ERB310 messages preceded this message. Refer to the return and reason codes for more information about this problem.

ERB316I

FILE SYSTEM NAME *hfsname* IS NOT VALID.

Explanation

The file system name which has been specified on the HFSNAME option statement does not adhere to the MVS/TSO rules for data set names.

System action

The incorrect file system name is ignored, and the operator is prompted for intervention. RMF issues the following additional messages:

- ERB305I - This message lists the current session options.
- ERB306D - This message requires that the operator supplies new input or enters 'GO' to continue RMF processing.

Operator response

You should take the following actions:

- Examine the options listed in message ERB305I and respond to message ERB306D.
- Correct the HFS file system name.

System programmer response

If the error occurred on an EXEC statement or library data source, correct the statement or library member.

Explanation

The number of file system names which have been specified on the HFSNAME option statements exceeds the allowed maximum of 25.

System action

The system does not process the input, and the operator is prompted for intervention. RMF issues the following additional messages:

- ERB305I - This message lists the current session options.
- ERB306D - This message requires that the operator supplies new input or enters 'GO' to continue RMF processing.

Operator response

You should take the following actions:

- Examine the options listed in message ERB305I and respond to message ERB306D.
- If possible, delete some of the file system names using the DEL suboption of the HFSNAME option.
- Now, you can begin to add new file system names.

System programmer response

If the error occurred on an EXEC statement or library data source, correct the statement or library member.

Explanation

The system issues the message for one of the following conditions:

- You specified the DEL suboption on the HFSNAME option to delete a file system name that does not exist.
- You specified the ADD suboption on the HFSNAME option to add a file system name that already exists.

System action

The system ignores the input for the ADD or DEL suboption, and the operator is prompted for intervention. RMF issues the following additional messages:

- ERB305I - This message lists the current session options.
- ERB306D - This message requires that the operator supplies new input or enters 'GO' to continue RMF processing.

Operator response

Examine the options listed in message ERB305I and respond to message ERB306D.

System programmer response

If the error occurred on an EXEC statement or library data source, correct the statement or library member.

Explanation

The number of data set masks which have been specified on VSAMRLS option statements exceeds the allowed maximum of 50.

System action

RMF will process the first 50 data set masks only. In addition, it issues the messages ERB305I and ERB306D.

Operator response

You should take the following actions:

- Examine the options listed in message ERB305I and respond to message ERB306D.
- If possible, delete some of the file system names using the DEL suboption of the VSAMRLS option.
- Then, you can begin to add new data set masks.

System programmer response

If the error occurred on an EXEC statement or library data source, correct the statement or library member.

| | |
|----------------|--|
| ERB320I | III: DATA SET MASK <i>mask</i> {ALREADY IN TABLE NOT IN TABLE}, VSAMRLS {ADD DELETE} IGNORED. |
|----------------|--|

Explanation

RMF issues the message for one of the following conditions:

- You have specified the suboption DEL on the option VSAMRLS to delete a data set mask that does not exist.
- You have specified the suboption ADD to add a data set mask that already exists.

System action

The system ignores the input for the suboption. In addition, it issues the messages ERB305I and ERB306D.

Operator response

Examine the options listed in message ERB305I and respond to message ERB306D.

System programmer response

If the error occurred on an EXEC statement or library data source, correct the statement or library member.

| | |
|----------------|---|
| ERB321I | III: BUFFER ALLOCATION FAILED FOR MONITOR III GATHERER, PERFORMANCE OF REPORTER MAY BE IMPACTED. |
|----------------|---|

Explanation

The Monitor III data gatherer could not allocate a sufficient number of buffers to keep the set of samples of the current Mintime in uncompressed format.

System action

RMF continues and compresses the set of samples on each data request. This may impact later on the performance of the reporter.

Operator response

Notify your system programmer.

System programmer response

Increase the region size of the Monitor III data gatherer.

ERB322I**III: SMSVSAM SERVER IS NOT CURRENTLY AVAILABLE.**

Explanation

The SMSVSAM server is not available because of the following reasons:

- The SMSVSAM server has failed and is restarting.
- The SMSVSAM server has permanently failed and is waiting for operator restart.
- The SMSVSAM server is not initialized on the system (RLSINIT(NO) in SMS Parmlib definition, or system is IPLed in local mode).

System action

No VSAM RLS activity data is currently gathered. As soon as the SMSVSAM server becomes available, VSAM RLS activity data will be gathered.

Operator response

Start or restart the SMSVSAM server.

ERB324I**III: VSAMRLS DATA SET MASK *mask* IS NOT VALID. REASON CODE: *rsn***

Explanation

The IGWCDATA interface has found that the specified mask is incorrect.

System action

The mask is ignored. Processing continues.

Operator response

Notify your system programmer.

System programmer response

- The reason code is given by the IGWCDATA interface, you can find the explanation in *z/OS DFSMSdfp Diagnosis*. Probably, the high-level qualifier is missing.
- If the error occurred on an EXEC statement or library data source, correct the statement or library member.

ERB325I**OLD WKLD GATHERER SUBOPTIONS '*(subop)*' IGNORED IN *source* INPUT..**

Explanation

As of z/OS Release 1 Version 5, the WKLD gatherer option does no longer support the specification of suboptions. If any suboption is found as part of the input, it is ignored.

(*subop*)

shows the suboption(s) which have been ignored

source

indicates in which source input the suboption(s) have been encountered. Source may have one of the following values:

OPERATOR
PARM
LIBRARY nn
REPLY
SYSIN

System action

The specified suboption(s) are ignored.

System programmer response

If the error occurred on an EXEC statement or library member source, you may want to correct the WKLD option statement to avoid this message in the future.

| | |
|----------------|---|
| ERB326I | STORAGE GROUP NAME <i>sgname</i> IS NOT VALID. |
|----------------|---|

Explanation

The storage group name which has been specified on the SGNAME option statement does not adhere to the MVS/TSO rules for storage group names.

System action

The invalid storage group name is ignored, and the operator is prompted for intervention. RMF issues the following additional messages:

- ERB305I - This message lists the current session options.
- ERB306D - This message requires that the operator supplies new input or enters 'GO' to continue RMF processing.

Operator response

You should take the following actions:

- Examine the options listed in message ERB305I and respond to message ERB306D.
- Correct the storage group name *sgname*.

System programmer response

If the error occurred on an EXEC statement or library data source, correct the statement or library member.

| | |
|----------------|--|
| ERB327I | MORE THAN 25 STORAGE GROUP NAMES SPECIFIED, ADDITIONAL STORAGE GROUP NAMES IGNORED. |
|----------------|--|

Explanation

The number of storage group names specified on SGNAME option statements exceeds the allowed maximum of 25.

System action

The system does not process the input and needs operator intervention. RMF issues the following additional messages:

- ERB305I - This message lists the current session options.
- ERB306D - This message requires that the operator supplies new input or enters 'GO' to continue RMF processing.

Operator response

You should take the following actions:

- Examine the options listed in message ERB305I and respond to message ERB306D.
- If possible, delete some of the storage group names using the DEL suboption of the SGNAME option.
- Now you can add new storage group names.

System programmer response

If the error occurred on an EXEC statement or library data source, correct the statement or library member.

| | |
|----------------|--|
| ERB328I | STORAGE GROUP NAME <i>sgname</i> {ALREADY IN TABLE NOT IN TABLE}, {ADD DELETE} ignored. |
|----------------|--|

Explanation

The system issues the message for one of the following conditions:

- You specified the DEL suboption on the SGNAME option to delete a storage group name that does not exist.
- You specified the ADD suboption on the SGNAME option to add a storage group name that already exists.

System action

The system ignores the input for the ADD or DEL suboption and asks the operator for intervention. RMF issues the following additional messages:

- ERB305I - This message lists the current session options.
- ERB306D - This message requires that the operator supplies new input or enters 'GO' to continue RMF processing.

Operator response

Examine the options listed in message ERB305I and respond to message ERB306D.

System programmer response

If the error occurred on an EXEC statement or library data source, correct the statement or library member.

| | |
|----------------|---|
| ERB330I | III: SMSVSAM SERVER WAS REINITIALIZED. |
|----------------|---|

Explanation:

The SMSVSAM server was reinitialized.

System action:

For this mintime, no VSAM RLS activity data is gathered. The connection to the server is reestablished and gathering of VSAM RLS activity is resumed.

| | |
|----------------|--|
| ERB400I | <i>sid</i>: I/O ERROR ON RMF WRITE. THE SYNAD TEXT FOLLOWS. <i>text</i> |
|----------------|--|

Explanation

During session *sid*, an I/O error that could not be corrected occurred while RMF was writing a record to a report SYSOUT data set.

System action

RMF stops writing records to the data set, closes that data set, opens a new one, and retries writing the record. If this retry is successful, RMF continues with no data loss. If unsuccessful, RMF continues processing but does not complete the reports for this interval.

Operator response

Contact hardware support.

ERB401I

***sid: RMF REPORT SUBTASK FOR INTERVAL BEGINNING hh.mm.ss
REINSTATED {Ucde|Scde}***

Explanation

During the RMF Postprocessor session or session *sid*, RMF detected an error while formatting and writing a report to a SYSOUT data set. *hh.mm.ss* is the beginning of the report interval, *Ucde* is the user completion code, and *Scde* is the system completion code.

RMF issues this message each time a specific interval or duration report is ended because of an error.

System action

When the message occurs during a session, RMF assumes that the data being processed is intact. RMF reinitializes the report subtask, closes the old data set, opens a new data set, and writes the report to the new SYSOUT data set. If the problem occurs a second time, RMF ends the report subtask.

When the message occurs during the Postprocessor session, RMF ends the report being processed. If other reports were requested, the Postprocessor continues with them.

System programmer response

Message ERB401I may also be issued, if the RMF Postprocessor processes SMF records with an RMF measurement interval less than 5 seconds. In that case, measurement data may be missing in the SMF record so that the report cannot be created. Since the RMF Postprocessor skips the problem interval and continues with the next reporting interval, no further action is necessary. In all other cases examine the dump and respond to the original completion code.

ERB402I

***sid: RMF REPORT SUBTASK FOR INTERVAL BEGINNING hh.mm.ss
ABENDED {Ucde|Scde}***

Explanation

During the Postprocessor session or session *sid*, an RMF report subtask abnormally ended with either a user completion code *Ucde* or a system completion code *Scde*. The subtask had been formatting data and writing records to a SYSOUT data set. *hh.mm.ss* is the beginning of the report interval.

System action

If the subtask ended during a display session, RMF continues the session but does not complete the hardcopy reports. For a background session, if the RECORD option is in effect, RMF writes the SMF records containing the data collected for this interval.

If the subtask ended during the Postprocessor session, RMF stops generating and writing all requested interval or duration reports. If a summary report is requested, the Postprocessor continues with this one.

System programmer response

Respond to the completion code.

ERB403I

sid: I/O ERROR ON HARDCOPY DATASET - SYNAD TEXT FOLLOWS. text

Explanation

During a display or background session *sid*, an uncorrectable I/O error occurred while RMF was writing to the SYSOUT data set. For a display session, the error occurred because of a print (P) command or because the hardcopy mode was set on (H ON).

The SYNAD text appears in the message.

System action

For a display session, RMF continues the session but produces no hardcopy output. For a background session, if the RECORD option is in effect, RMF continues measurement but produces no printed reports. If the RECORD option is not in effect for a background session, RMF ends the specific measurement but continues the session.

Operator response

For a display session, data continues to be shown on the display screen; do not issue the print command or turn on hardcopy mode.

In order for a background session to continue to measure data, make sure the RECORD option is in effect.

| | |
|----------------|--|
| ERB404I | <i>sid</i>: HARDCOPY FUNCTION CANNOT BE USED. USE THE RECALL FUNCTION TO VIEW THE DATA GATHERED |
|----------------|--|

Explanation

RMF issues this message after message ERB403I for display session *sid*. RMF cannot print your data because of the failing hardcopy data set.

Operator response

Use the recall function, Rmm, where mm is the menu item. Specify the operands originally specified for the report again. RMF will display the data on the screen.

| | |
|----------------|---|
| ERB405I | <i>sid</i>: NO DATA WAS FOUND TO FIT YOUR SELECTION CRITERIA |
|----------------|---|

Explanation

During Monitor II session *sid*, the data gatherer or data reporter routine passed return code 16 to RMF to indicate that the routine produced no data. For an IBM-supplied report, this message means that RMF found no address spaces to meet the selection criteria in the request for the report. For example, if you enter

```
ARDJ jobname
```

and the named job has not yet started or has already ended, RMF issues this message.

System action

RMF continues the session. For a display session, RMF waits for the next display command. For a background session, RMF continues measurement but produces no printed reports for this interval.

Operator response

Specify the command again, or change the options to select different criteria.

| | |
|----------------|--|
| ERB406I | <i>sid</i>: ESTAE COULD NOT BE ESTABLISHED BY <i>module</i> |
|----------------|--|

Explanation

During the RMF Postprocessor session or Monitor II or Monitor III session *sid*, the data gatherer or data reporter module named in the message passed return code 20 to RMF, indicating that the ESTAE macro failed.

System action

For a display session, RMF stops writing the current report but continues the session; RMF waits for the next command.

For a background session, RMF stops the current measurement but continues with other measurements.

If the error occurred during the RMF Postprocessor session, RMF stops printing the Monitor II session report that was in process. If other reports were requested, the Postprocessor continues with them.

If the error occurred during the Monitor III data reporter session, RMF ends session *sid* but continues processing all other active sessions.

Operator response

For a display session, enter a request for another report. For a background session or the Postprocessor, notify the system programmer.

ERB407I

***sid: INVALID SYNTAX IN MENU DEFAULT OPERANDS - operands -
DURING THIS SESSION DO NOT DEFAULT OPERANDS FOR PICTURE
mm***

Explanation

During the RMF Postprocessor session or Monitor II session *sid*, a data gatherer or data reporter routine tried to use the default operands for the menu or option list but found that the operand(s) named in the message were not valid for report *mm*.

System action

For a display session, RMF stops writing report *mm* but continues the session; RMF waits for the next command.

For a background session, if the RECORD option is in effect and the failure occurred in the data reporter, RMF continues measurement but produces no printed reports. If the RECORD option is not in effect or the failure occurred in the data gatherer, RMF ends the specific measurement but continues the session.

If the error occurred during the RMF Postprocessor session, RMF stops printing the Monitor II session report that was in process. If other reports were requested, the Postprocessor continues with them.

Operator response

For a display session, reissue the command, explicitly specifying all operands.

For a background session, modify the options to specify explicitly all operands required for the measurement.

System programmer response

Correct the menu table entry that contains the incorrect operands.

ERB408I

sid: RETURN CODE rc FROM module

Explanation

During the RMF Postprocessor session or during Monitor II session *sid*, the data gatherer or data reporter module named in the message passed return code *rc* to RMF. The return code is greater than expected.

The meanings of the possible return codes are explained in Monitor II messages, as follows:

Return Code

Monitor II Message

0196

ERBA078

0200

ERBA079

1200

ERBA075

1201

ERBA076

1230

ERBA070

System action

For a display session, RMF stops writing the current report but continues the session; RMF waits for the next display command.

For a background session, if the RECORD option is in effect and the failure occurred in the data reporter, RMF continues measurement but produces no printed reports. If the RECORD option is not in effect or the failure occurred in the data gatherer, RMF ends the specific measurement but continues the session.

If the error occurred during the RMF Postprocessor session, RMF stops printing the Monitor II session report that was in process. If other reports were requested, the Postprocessor continues with them.

Operator response

For a display session, enter a request for another report.

For a background session, continue the session with other measurements.

Contact your system programmer.

System programmer response

Determine if an installation-supplied module caused the error, or if an IBM-supplied module caused the error.

ERB409I

sid: INVALID OPERAND SYNTAX operands

Explanation

During the Postprocessor session or Monitor II background session *sid*, RMF found incorrect syntax in the option operand(s) named in the message. RMF may have detected the error during the data gathering or the data reporting phase of a measurement.

System action

For a background session, if the RECORD option is in effect and the failure occurred in the data reporter, RMF continues measurement but produces no printed reports. Or, if the RECORD option is not in effect or the failure occurred in the data gatherer, RMF ends the specific measurement but continues the session.

If the error occurred during the Postprocessor session, RMF stops printing the Monitor II session report that was in process. If other reports were requested, the Postprocessor continues with them.

Operator response

Correct the incorrect session options.

System programmer response

If the error occurred during the Postprocessor session, correct the incorrect control statement before using the Postprocessor again.

ERB410I

sid: report TERMINATED ABNORMALLY cde - SESSION sid, SYSTEM sss

Explanation

While the RMF Postprocessor was producing the Monitor II report named in the message for session *sid* on system *sss*, the system abnormally ended the Postprocessor with system completion code *cde*.

System action

The system produces a dump. If other reports were requested, the Postprocessor continues with them.

System programmer response

Examine the dump, and respond to the completion code.

| | |
|----------------|---|
| ERB411I | INCOMPLETE DATA - MAXRBS VALUE IN MENU ENTRY HAS BEEN EXCEEDED |
|----------------|---|

Explanation

The limited region size prevented the allocation of more storage to increase the number of relocate blocks MAXRBS.

System action

RMF continues the session. For a display session, RMF produces a report then waits for the next display command. For a background session, RMF produces a report for all measurements taken within the interval; RMF continues all measurements.

System programmer response

Increase the region size to provide enough storage.

| | |
|----------------|---|
| ERB412I | DATA UNAVAILABLE - MONITOR I REPORT NOT ACTIVE |
|----------------|---|

Explanation

For a Monitor II report, RMF could not obtain required data because the corresponding Monitor I option is not active.

System action

RMF continues the session. For a display session, RMF waits for the next display command. For a background session, RMF continues measurement but produces no SMF record.

System programmer response

Request a DEV, PGSP, or IOQUEUE report only when a Monitor I session is active with the corresponding option: DEVICE, PAGESP, or IOQ, respectively.

| | |
|----------------|--|
| ERB413I | DATA REINITIALIZED - MONITOR I INTERVAL ENDED |
|----------------|--|

Explanation

For a Monitor II report, RMF found that any data reported would be misleading because the source data in the Monitor I measurement had been reinitialized since the previous request for the report.

System action

RMF continues the session. For a display session, RMF waits for the next display command. For a background session, RMF continues measurement but produces no report for the interval.

System programmer response

Request the report again.

| | |
|----------------|---|
| ERB425I | III: UNABLE TO GATHER RESOURCE <i>resource</i> |
|----------------|---|

Explanation

For an RMF Monitor III session, the resource in the message is not active. This resource is HSM, JES2, JES3, or the second parameter in your RESOURCE option, or the resource CRYPTO.

System action

RMF continues the session.

If issued for resource CRYPTO, the message reports that the CRYPTO interface is not available. RMF continues, but terminates Monitor III CRYPTO gathering.

Operator response

If the resource is HSM, the HSM subsystem is not active. Data cannot be collected for HSM until it is activated.

If the resource is anything else, compare it to the primary JES and correct your RESOURCE option.

System programmer response

For CRYPTO interface errors, search the problem reporting data bases for a RMF fix providing support for additional cryptographic devices, or report the problem to the IBM Support Center.

ERB426I**III: TOO MANY PARAMETERS ENTERED IN *source* INPUT**

Explanation

For RMF Monitor III, the RESOURCE option contained too many parameters. The source of the option is:

Source

Where the option was found

OPERATOR

In an operator command.

PARM

In the PARM field of an EXEC statement in the RMF cataloged procedure.

LIBRARY nn

In library member ERBRMFnn.

REPLY

In the operator reply to message ERB306D.

SYSIN

In an RMF Postprocessor control statement.

System action

RMF uses the first two parameters and ignores the rest.

RMF asks the operator for intervention: RMF issues message ERB305I, listing the current session options, followed by message ERB306D, to which the operator replies by supplying new options or entering G0. RMF continues other processing.

Operator response

Examine the options following message ERB305I, and respond to message ERB306D.

ERB427I***sid*: INVALID {MONITOR|MEMBER} ID *nnnn*, COMMAND REJECTED**

Explanation

For RMF session *sid*, you issued a command with incorrect monitor or member ID *nnnn*. Valid monitor IDs are:

For Monitor III:

MIII M3

For Monitor II:

MII M2

A valid member ID, which applies only for Monitor III, is any two-character alphanumeric string.

System action

No action taken.

Operator response

Issue the command with the correct ID.

ERB428E**ZZ: *jobname* NOT FOUND BY RMF VIRTUAL STORAGE REPORT.**

Explanation

For an RMF Monitor I session, you requested that the Monitor I virtual storage activity report include the job named in the message. This job is not currently active.

System action

RMF gathers virtual storage data for common storage and for any requested jobs that are active. At the start of each RMF Monitor I interval, RMF searches for the named job and, if found, deletes this message and starts gathering data for it.

Operator response

Make sure you entered the job name correctly. If not, issue a MODIFY command and correctly specify the job in the VSTOR option.

If the job was named correctly but has not yet started, ignore the message. RMF will begin monitoring the job automatically when the next interval begins after the job starts; RMF will delete this message at that time.

ERB429I**ZZ: STORAGE GROUP DATA NOT AVAILABLE.**

Explanation

This message appears at RMF initialization time if the subsystem interface (SSI) is not installed or not active. The storage group (SG) names are not reported; neither are the devices selected by the SG option.

System action

None.

System programmer response

Ask the operator to start the storage management subsystem (SMS), if it has been installed.

ERB430I**ZZ: MONITOR I DATA GATHERER *module*. *interface* INTERFACE FAILED.
RETURN CODE: *rc* REASON CODE: *rsn*. *explanation*.**

Explanation

The RMF Monitor I data gatherer module received a return code from the interface *interface*. The return code and reason code are reported. Additional error information is given by the *explanation*.

System action

If issued by module GRBMFSMS, the message reports that the SMS interface has failed. RMF continues, but storage group information cannot be updated.

If issued by module GRBCNFSR, RMF could not get the IOS enqueue in order to serialize initial processing with IOS configuration activity. RMF continues processing but may have to retry initialization several times because of listen exit processing of IOS configuration change events.

If issued by module GRBMFICY or GRBMFDCY, the message reports that the CRYPTO interface has failed. RMF continues, but does no longer collect information about cryptographic devices in SMF 70-2 records.

If issued by module GRBMFIZS or GRBMFDTs, the message reports that the HISMT interface has failed. RMF continues, but the multithreading related information provided in SMF 70, 71, and 72 records can be inconsistent.

System programmer response

For SMS interface errors, please refer to the *DFSMS/dfp Diagnose Reference* for a description of the return and reason codes. SMS subsystem interface reason code 5009 indicates that the interface was not able to allocate storage in the RMF address space. In this case the RMF region size should be increased.

For CRYPTO interface errors, please search the problem reporting data bases for a RMF fix providing support for additional cryptographic devices or report the problem to the IBM Support Center.

For HISMT interface errors, please report the problem to the IBM Support Center.

| | |
|----------------|--|
| ERB431I | <i>sid</i>: STATIC AREA CHANGED, <i>date1 time1</i> INTERVAL. <i>n</i> type RECORDS SKIPPED STARTING <i>date2 time2</i> |
|----------------|--|

Explanation

While processing a virtual storage duration report during session *sid*, the RMF Postprocessor found a change in the static area for the session that produced the input records.

The fields in the message text are:

date1 time1

The date and starting time of the duration interval during which the static area changed.

n

The number of RMF intervals skipped because of the static area change.

date2 time2

The date and starting time of the first RMF measurement interval that was skipped.

Note: RMF takes *date1* and *time1* from the first input record for the duration interval during which the static area changed. Therefore, *date1* and *time1* may be later than the start date and time specified on the Postprocessor control statements.

System action

The Postprocessor continues processing duration reports but ignores all data in system management facility (SMF) records with different static area values.

System programmer response

None.

| | |
|----------------|---|
| ERB432I | <i>sid</i>: UNABLE TO UNALLOCATE SYS1.PARMLIB. RETURN CODE <i>rc</i>, ERROR CODE <i>eeee</i>, INFORMATION CODE <i>iiii</i> |
|----------------|---|

Explanation

During session *sid*, RMF failed to unallocate SYS1.PARMLIB after options processing.

System action

RMF continues the session, but continues to hold SYS1.PARMLIB as a shared data set.

Operator response

Continue the session, or end it and correct the situation described by the return, error, and information codes. See *z/OS MVS Programming: Authorized Assembler Services Reference EDT-IXG* for further information.

ERB433I

***sid*: TOO MANY PRIVATE AREAS FOR COMPLETE VSTOR DURATION
RECORD PROCESSING. LAST PRIVATE AREA PROCESSED IS: *jobname*.**

Explanation

During session *sid*, the RMF Postprocessor was processing a virtual storage duration report that requested all or part of the private area jobs within the specified duration interval. During this processing, the maximum duration record size of 64K was exceeded when the Postprocessor attempted to add a new private area and its associated subpools.

In the message text, *jobname* is the job name for the last private area successfully added to the end of the duration record.

System action

The Postprocessor continues processing the virtual storage duration report but ignores all new private area jobs and their associated subpools.

System programmer response

Specify a shorter duration interval or request a smaller number of jobs.

ERB434I

***sid*: REPORT OPTION NOT APPLICABLE IN GOAL MODE**

Explanation

Either a DDMN, a TRX command, or the suboption DOMAIN in combination with the ARD, ASD, or ASRM command, was issued.

The Domain Activity report, the Transaction Activity report, and the DOMAIN suboptions are no longer applicable.

System action

No action taken.

ERB437I

***sid*: SEVERE ERROR RECOGNIZED BY RECOVERY MODULE
module. ENQUEUE CONTENTION DATA COLLECTION {REINSTATED|
TERMINATED}.**

Explanation

The recovery routines of z/OS Data Gatherer modules GRBMFCLS or GRBMFEAG encountered an abnormal condition because of the following reasons:

- z/OS Data Gatherer tried to recover and attempted an internal restart of contention data collection
- z/OS Data Gatherer terminated contention data collection after the retry limit was reached

System action

z/OS Data Gatherer continues the session.

Operator response

If contention data collection terminated, you need to stop and start z/OS Data Gatherer if you want to have contention data.

System programmer response

Collect the diagnostics data for events preceding this message like dumps, SYS1.LOGREC data and console messages. Errors recognized by the recovery routine of module GRBMFCLS may be accompanied by GRS messages (for example, ISG344I) providing more details on the problem.

Exceptions recognized by module GRBMFEAG are probably caused by a massive amount of GRS event notification facility records exceeding the capability of the z/OS Data Gatherer listen exit module. In this case a user abend dump would have been produced prior to the first occurrence of this message. A too low dispatching priority defined for the z/OS Data Gatherer address space may be the reason for the insufficient capability of the z/OS Data Gatherer listen exit.

ERB438I**ZZ: TOO MANY DEVICES FOR SMF RECORD 74, SUBTYPE 1.**

Explanation

RMF issues this message when there are more than 65535 devices in a device class that are eligible to be written to a SMF record.

System action

RMF writes 65535 SMF device data sections.

Operator response

If you want to ensure that specific devices are included in the SMF record, you can specify their device numbers in the Device data gatherer option NMBR. The DEVICE(NMBR)) option is described in *z/OS Data Gatherer User's Guide*.

ERB439I**INCOMPLETE DATA. DATA OF TOO MANY DEVICES REQUESTED.**

Explanation

The RMF data gatherer can not process data for more than 65535 devices.

System action

RMF continues the session. For a display session, RMF produces a report then waits for the next display command. For a background session, RMF produces a report for all measurements taken within the interval. RMF continues all measurements.

User response

Specify a device number range which does not encompass more than 65535 devices, for example, 00000:0FFFF.

ERB450I**RMF: SMF DATA BUFFER INITIALIZED**

Explanation

The SMF Data Buffer of the RMF Sysplex Data Server has been initialized. SMF data of the requested record types will be stored in the data buffer.

System action

Data buffer processing continues.

ERB451I**RMF: SMF DATA BUFFER TERMINATED**

Explanation

The SMF Data Buffer of the RMF Sysplex Data Server has been terminated. SMF data will no longer be stored in the data buffer. The data stored in the data buffer is no longer available.

System action

Data buffer processing ends.

ERB452I**RMF: SMF DATA BUFFER REINITIALIZED**

Explanation

The SMF data buffer of the RMF Sysplex Data Server has been reinitialized after an error condition was detected and resolved. Data stored in the data buffer up to the reinitialization of the data buffer is lost.

System action

Data buffer processing continues.

ERB453I**RMF: SMF DATA BUFFER TERMINATED AFTER UNRECOVERABLE
ERROR(S)**

Explanation

The SMF data buffer of the RMF Sysplex Data Server has been ended after an unrecoverable error condition was detected and resolved. Data stored in the data buffer up to this event is lost.

System action

Data buffer processing ends.

Operator response

Restart the data buffer.

ERB454I**RMF: SMF DATA BUFFER SPACE MODIFICATION STARTED**

Explanation

You issued a MODIFY RMF command with the data buffer option in order to reduce the size of the data buffer. The modification of the size of the data buffer becomes effective after the next wrap-around of the buffer.

System action

Data buffer processing continues. The data buffer size reduction is initiated.

ERB455I**RMF: SMF DATA BUFFER SPACE MODIFICATION COMPLETED or RMF:
SMF DATA BUFFER RECTYPE MODIFICATION COMPLETED**

Explanation

You issued a MODIFY RMF command with the data buffer option in order to change the size of the data buffer or the set of SMF record types of the data to be stored in the buffer. The modification of the size of the data buffer has been completed.

System action

Data buffer processing continues.

| | |
|----------------|---|
| ERB456I | RMF: SMF DATA BUFFER SPACE MODIFICATION IN PROGRESS, SPECIFY FORCE |
|----------------|---|

Explanation

You issued a MODIFY RMF command with the data buffer option in order to change the size of the data buffer. However, no MODIFY command can be processed until another modification that is currently in progress has been completed. The user may override this situation by specifying FORCE on the SPACE subparameter of the data buffer option.

System action

RMF does not process the SPACE subparameter of the MODIFY command. Data buffer processing continues.

Operator response

If you want the MODIFY command parameters to become effective, reissue the command and specify FORCE on the SPACE subparameter. However, be aware that the specification of the 'FORCE' subparameter may cause loss of SMF data stored in the buffer. This has no impact on SMF data stored in SMF data sets.

| | |
|----------------|---|
| ERB457I | RMF: SMF DATA BUFFER OPTIONS RMF: SPACE(size) [-- TARGET SIZE]RMF: RECTYPE(rty_sty_list) |
|----------------|---|

Explanation

A MODIFY RMF command was issued with the data buffer option in order to change the size of the data buffer or the set of SMF record types of the data to be stored in the buffer. However, either no subparameters have been provided with the data buffer option or one of the subparameters had to be changed: either the SPACE subparameter had to be changed by RMF in order to ensure that the data buffer size is a multiple of 4096 and between the defined limits. If a data buffer size modification is currently in progress, the target size (the effective buffer size) will be displayed with the indication " -- TARGET SIZE".

System action

RMF displays the options currently in effect. Data buffer processing continues.

| | |
|----------------|---|
| ERB458I | RMF: SMF DATA BUFFER OPTION ERROR: UNEXPECTED INPUT CHARACTER(S) "x" IN RMF:"data_buffer_option_as_entered"RMF:>>>>>>> |
|----------------|---|

Explanation

A START RMF or a MODIFY RMF command was issued with the data buffer option and a syntax error was recognized in the data buffer option. The second line of the message repeats the incorrect input, and an arrow in the third line points to the substring that could not be interpreted.

System action

RMF rejects the data buffer option of the START command or the entire MODIFY command. If the incorrect data buffer option was issued on the START command together with Monitor I data gatherer options, it is also passed to Monitor I option processing, which causes this option to be skipped (as an incorrect Monitor I data gatherer option). The data buffer processing continues without any change of its parameters.

Operator response

Reissue the command with the correct syntax. See *z/OS Data Gatherer User's Guide* for the correct syntax.

ERB459I**RMF: SMF DATA BUFFER INACTIVE**

Explanation

A MODIFY RMF command was issued with the data buffer option, but without the SPACE suboption, and the data buffer does not currently exist.

System action

No action taken.

Operator response

Reissue the command with the SPACE subparameter in order to create a new data buffer.

ERB460I**RMF: SYSPLEX DATA SERVER REINSTATED AFTER SEVERE ERROR**

Explanation

A severe error occurred in the RMF Sysplex Data Server. However, RMF tried to resume RMF Sysplex Data Server processing. A dump was taken.

System action

RMF Sysplex Data Server processing continues.

Operator response

Notify system programmer in order to examine the dump.

System programmer response

Examine the dump.

ERB461I**RMF: SYSPLEX DATA SERVER TERMINATED AFTER UNRECOVERABLE
ERROR(S)**

Explanation

One or more irrecoverable errors occurred in the RMF Sysplex Data Server that did not allow the data server processing to continue. A dump was taken.

System action

RMF Sysplex Data Server processing ended.

Operator response

Restart RMF. Notify system programmer in order to examine the dump.

System programmer response

Examine the dump.

ERB462I**RMF: SYSPLEX DATA SERVER INACTIVE**

Explanation

A MODIFY RMF command was issued with the data buffer option. However, the data server is inactive and the command can not be processed.

System action

No action taken.

Operator response

Restart RMF.

ERB463I**RMF: SYSPLEX DATA SERVER TERMINATED AFTER IXCJOIN RETURN
CODE *rc*, REASON CODE *rs***

Explanation

This situation may be the result of an improper definition of the XCF couple data set. For example, IXCJOIN return/reason code 12/4 indicates that the maximum number of XCF groups has been reached and RMF is not able to create the SYSRMF XCF group, and IXCJOIN return/reason code 12/8 indicates that the maximum number of XCF members in an XCF group has been reached and RMF is not able to join this XCF group.

System action

RMF Sysplex Data Server terminates processing. The RMF Data Buffer for SMF data, the RMF Sysplex Data Services for SMF or RMF data, and RMF cross-system and multi-system reporting for the sysplex become unavailable.

Operator response

Notify system programmer.

ERB463I**RMF: SYSPLEX DATA SERVER MESSAGE(S) LOST: IXCMSGO RETURN
CODE *rc*, REASON CODE *rs***

Explanation

During the processing of a request from an RMF callable service that was invoked by an application program, the Postprocessor, the Monitor III, or the RMF Sysplex Data Server was not able to communicate with another system due to the mentioned return and reason code from the cross-system coupling facility (XCF) message out service. RMF retried to send the message several times, but failed. The following return and reason codes from XCF cause this message to be issued:

RC/RS

Description

12/4

The signalling facility is busy; message buffers are temporarily unavailable.

12/8

All signalling paths to the target member's system are temporarily unavailable.



Attention: Both situations may be the result of an improper definition of the XCF system parameters in the active Parmlib member, COUPLExx. To avoid these error messages, ensure that you have defined an XCF Transport Class with a MAXMSG value of at least 4096.

System action

RMF continues processing. Application programs might experience significant delays and do not receive all the data requested with the RMF callable services due to timeout situations.

Operator response

Notify system programmer.

| | |
|----------------|---|
| ERB464I | ZZ: CACHE DATA COLLECTION FOR <i>cu_type</i> FAILED. RC = <i>rc</i>[, failing device = <i>syyyy</i>] |
|----------------|---|

Explanation

An attempt by RMF to obtain device counters for *cu_type* failed. The reason for the failure is indicated by the return code as described below.

In case of a nonzero return code, the message text is extended by failing device = *syyyy*. The first digit *s* represents the ID of the subchannel set to which the I/O device is physically configured.

System action

RMF writes an SMF type 74-5 problem record with status code R745CSC=08, and a return code in R745CRTN. Processing continues for the next control unit type.

System programmer response

Action depends on the reason for the failure, which is indicated by the return code as follows:

04

GETMAIN failed for a caching subsystem during an attempt to obtain storage for device counters.
Increase the REGION parameter in the RMF procedure and restart RMF.

08

An I/O error occurred in a caching subsystem during an attempt to obtain device counters. If the failure is intermittent, it may result from a RESERVE having been issued against a 3390 device.

Use the device number to locate the failing control unit.

If the message is issued in consecutive intervals, and no RESERVE is active, search the problem-reporting data bases for a fix. If there is no fix, save the SMF74-5 records and the system log. Report the problem to the IBM Support Center.

20

The request to obtain device counters failed with an AOM return code 4 and reason code 20. AOM could not access the RMF internal output buffer to store the device counters. Search the problem-reporting data bases for a fix. If there is no fix, save the SMF74-5 records and the system log. Report the problem to the IBM Support Center.

36

At least one storage director had no path available when RMF attempted to obtain device counters.

Ensure that there is a path to each storage director or each caching subsystem from the system on which RMF is running.

40

A caching subsystem had no path available to it when RMF attempted to obtain device counters.

Ensure that there is a path to each storage director or each caching subsystem from the system on which RMF is running.

56

RMF received a bad return code from AOM when attempting to obtain device counters and the AOM reason code returned is other than 04, 16 or 20. This error may result from an online device with no operational

path that RMF uses to retrieve the device counters. Please ensure that there is at least one operational path to the devices of the cache subsystems from the system on which RMF is running.

Search the problem-reporting data bases for a fix. If there is no fix, save the SMF74-5 records and the system log. Report the problem to the IBM Support Center.

60

An I/O error occurred in a caching subsystem during an attempt to obtain device counters. The attempt to obtain the device counters was terminated by a timeout condition.

Use the device number to locate the failing control unit.

Search the problem-reporting data bases for a fix. If there is no fix, save the SMF74-5 records and the system log. Report the problem to the IBM Support Center.

ERB465I**ZZ: CACHE DATA COLLECTION FAILED.**

Explanation

The cache data collection subtask did not finish processing during an RMF measurement interval. When this hung situation was resolved during the next interval, the cache data in the written record represented the data for both RMF intervals.

System action

RMF continues processing with the next interval.

System programmer response

Response depends on the length of the RMF interval in question:

- If the message is issued for an interval that was cut short by a STOP or MODIFY command, the cache data collector cannot finish processing, and no data is collected for the interval. Ignore the message.
- If the message is issued for an interval that was not cut short by a STOP or MODIFY command, increase the RMF measurement interval to 15 minutes or more.
- If the message is issued for intervals of 15 minutes or longer, the cause may be a hardware condition, such as "Intervention Required". Resolve the hardware condition.

ERB466I**PPS: FOR DURATION PROCESSING, ENQ, TRACE, AND/OR SDELAY OPTIONS ARE IGNORED.**

Explanation

One or more of the ENQ, TRACE, or SDELAY REPORTS options have been specified together with the DINTV control statement. However, duration reporting is not supported for ENQ, TRACE, or SDELAY reports.

System action

The specified REPORTS options ENQ, TRACE, and/or SDELAY are ignored.

System programmer response

If you want to obtain ENQ, TRACE, or SDELAY reports, rerun the job without specifying the DINTV control statement.

ERB467I**ZZ: ESS DATA COLLECTION FAILED. RC = rc[, failing device = syyyy]**

Explanation

An attempt by RMF to obtain ESS counters failed. The reason for the failure is indicated by the return code as described below.

In case of a nonzero return code, the message text is extended by failing device = syyyy. The first digit s represents the ID of the subchannel set to which the I/O device is physically configured.

System action

RMF writes an SMF type 74-8 problem record with status code R748CSC=08, and a return code in R748CRTN.

System programmer response

Action depends on the reason for the failure, which is indicated by the return code as follows:

03

ESS statistics have been requested by RMF Monitor I gathering option ESS, but no enterprise disk system was found which supports ESS statistics.

To suppress this message, change the Monitor I option statement to NOESS until an enterprise disk system is available which supports the ESS statistics.

04

GETMAIN failed for a caching subsystem during an attempt to obtain storage for ESS counters.

Increase the REGION parameter in the RMF procedure and restart RMF.

08

An I/O error occurred in a caching subsystem during an attempt to obtain ESS counters. If the failure is intermittent, it may result from a RESERVE having been issued against a 3390 device.

Use the device number to locate the failing control unit.

If the message is issued in consecutive intervals, and no RESERVE is active, search the problem-reporting data bases for a fix. If there is no fix, save the SMF74-8 records and the system log. Report the problem to the IBM Support Center.

20

The request to obtain ESS counters failed with an AOM return code 4 and reason code 20. AOM could not access the RMF internal output buffer to store the ESS counters. Search the problem-reporting data bases for a fix. If there is no fix, save the SMF74-8 records and the system log. Report the problem to the IBM Support Center.

36

At least one enterprise disk system had no path available when RMF attempted to obtain ESS counters.

Ensure that there is a path to each enterprise disk system from the system on which RMF is running.

40

An enterprise disk system had no path available when RMF attempted to obtain ESS counters.

Ensure that there is a path to each enterprise disk system from the system on which RMF is running.

56

RMF received a bad return code from AOM when attempting to obtain ESS counters and the AOM reason code returned is other than 04, 16 or 20. This error may result from an online device with no operational path that RMF uses to retrieve the ESS counters. Please ensure that there is at least one operational path from the system on which RMF is running to the devices contained in the enterprise disk system.

Search the problem-reporting data bases for a fix. If there is no fix, save the SMF74-8 records and the system log. Report the problem to the IBM Support Center.

60

An I/O error occurred in a caching subsystem during an attempt to obtain ESS counters. The attempt to obtain the device counters was terminated by a timeout condition.

Use the device number to locate the failing control unit.

Search the problem-reporting data bases for a fix. If there is no fix, save the SMF74-8 records and the system log. Report the problem to the IBM Support Center.

Explanation

The ESS data collection subtask did not finish processing during an RMF measurement interval. When this hung situation was resolved during the next interval, the ESS counters in the written record represented the data for both RMF intervals.

System action

RMF continues processing with the next interval.

System programmer response

Response depends on the length of the RMF interval in question:

- If the message is issued for an interval that was cut short by a STOP or MODIFY command, the ESS data collector cannot finish processing, and no data is collected for the interval. Ignore the message.
- If the message is issued for an interval that was not cut short by a STOP or MODIFY command, increase the RMF measurement interval to 15 minutes or more.
- If the message is issued for intervals of 15 minutes or longer, the cause may be a hardware condition, such as "Intervention Required". Resolve the hardware condition.

Explanation

For exception/overview duration processing, the existing duration processing logic is adapted. This requires that the RTOD and ETOD values are identical. The ETOD value is used for processing.

System action

The RTOD value is set to the ETOD value.

System programmer response

Check the reporting time value RTOD and the exception reporting time ETOD, whether they contain the desired values.

Explanation

The Postprocessor detected a SMF record type *tt* and subtype *ss* that is not completely reassembled. The SMF record is written on system *yyy* within system complex *xxx*.

System action

The SMF record was skipped.

User response

Check the SMF data set.

Explanation

SMF data from system zzz within sysplex xxx for coupling facility yyy and reporting interval start at mm/dd/yyyy hh.mm.ss does not cover the whole sysplex reporting interval. This message is repeated every time incomplete data is detected. In addition, the note "DATA FROM SEVERAL SYSTEMS IS MISSING OR INCOMPLETE! REPORTED DATA MAY BE INEXACT!" is written on each of the coupling facility report parts. In the Coupling Facility Subchannel Activity report and the Coupling Facility Structure Activity report every system name for which data is not complete is marked with a "*".

System action

The Postprocessor creates the coupling facility reports indicating incomplete data.

User response

Check the SMF data set.

| | |
|----------------|--|
| ERB472I | PPS: SMF RECORD <i>tt</i>, SUBTYPE <i>ss</i> DATA MISSING - SYSPLEX <i>xxx</i>, COUPLING FACILITY <i>yyy</i>, SYSTEM <i>zzz</i>, INTVSTART <i>mm/dd/yyyy hh.mm.ss</i> |
|----------------|--|

Explanation

SMF data from system zzz within sysplex xxx for coupling facility yyy and reporting interval start at mm/dd/yyyy hh.mm.ss is expected, but cannot be found. This message is repeated every time missing data is detected. In addition, the note "DATA FROM SEVERAL SYSTEMS IS MISSING OR INCOMPLETE! REPORTED DATA MAY BE INEXACT!" is written on each of the coupling facility report parts.

System action

The Postprocessor creates the coupling facility reports indicating missing data at the end of the respective reports.

User response

Check the SMF data set. Merge the type *tt* subtype *ss* SMF records from sysplex *xxx*, system *zzz* into the Postprocessor input stream and rerun the Postprocessor.

| | |
|----------------|--|
| ERB473I | PPS: <i>rr</i> REPORT TERMINATED DUE TO UNRECOVERABLE ERROR |
|----------------|--|

Explanation

An error occurred while the Postprocessor was generating a report. The report that caused the problem is identified by *rr*. *rr* contains the value that was specified on the REPORTS or SYSRPTS control statement for the Postprocessor (see *z/OS Resource Measurement Facility User's Guide* for a description of the REPORTS and SYSRPTS control statements).

System action

RMF stops formatting and writing all *rr* reports for this Postprocessor session. If other reports were requested, the Postprocessor continues with them.

System programmer response

Examine the dump.

| | |
|----------------|---|
| ERB474I | PPS: DATA EXCEPTION IN CF REPORTER - REPORTING INTERVAL FOR SYSPLEX <i>xxx</i> WILL BE SKIPPED |
|----------------|---|

Explanation

The Postprocessor encountered an error during processing SMF records type 74, subtype 4 data for the current reporting interval. Data cannot be reported for this period.

System action

The complete reporting interval for sysplex xxx will be skipped. The Postprocessor continues processing with the next reporting interval.

User response

If this message occurs more often, check SMF data set.

| | |
|----------------|--|
| ERB475I | PPS: DATA EXCEPTION IN WLM REPORTER - REPORTING INTERVAL FOR SYSPLEX xxxxxxxx WILL BE SKIPPED |
|----------------|--|

Explanation

The Postprocessor encountered an error during processing SMF records 72, subtype 3 data for the current reporting interval. Data cannot be reported for this period.

System action

The complete reporting interval for sysplex xxxxxxxx will be skipped. The Postprocessor continues processing with the next reporting interval.

User response

If the message occurs more often, check SMF data set.

| | |
|----------------|---|
| ERB476I | PPS: OPEN FAILED FOR OUTPUT DATA SET |
|----------------|---|

Explanation

The Postprocessor session failed to open the output data set for cross system reports (PPXSRPTS or XPXSRPTS).

System action

The Postprocessor is terminated immediately.

System programmer response

Check the output data set.

| | |
|----------------|---|
| ERB477I | PPS: WRITE TO OUTPUT DATA SET FAILED |
|----------------|---|

Explanation

The Postprocessor session failed to write to the output data set for cross system reports (PPXSRPTS or XPXSRPTS).

System action

RMF stops formatting and writing all reports for this Postprocessor session. The Postprocessor is terminated.

System programmer response

Check the output data set.

Explanation

The SMF records to be processed by the Postprocessor are not sorted. The SMF record input data set(s) (MFPINPUT) for the Postprocessor job must contain the SMF records sorted in ascending order by RMF interval start time and RMF interval start date.

System action

The Postprocessor session is terminated.

System programmer response

Ensure that the input data set contains the SMF records sorted by RMF interval start time and date.

Explanation

For the specified option of the REPORTS control statement, only the XML output format is supported.

System action

The specified option of the REPORTS control statement is ignored.

User response

To get the specified report in XML output format, specify ddname XPRPTS.

Explanation

A request to allocate virtual storage at run time failed. The problem occurred in module *mm*, function *ff* at line *ll*.

System action

RMF stops formatting and writing all reports for this Postprocessor session. The Postprocessor is terminated.

System programmer response

Try to restart the Postprocessor with less cross system reports requested.

Explanation

The Postprocessor detected an unrecoverable error. The problem occurred in module *mm*, function *ff* at line *ll*.

System action

Postprocessor tries to stop the failing component and continues processing if possible, otherwise the Postprocessor is ended.

System programmer response

Examine the dump.

| | |
|----------------|---|
| ERB482I | PPS: SMF RECORD <i>xx</i>, SUBTYPE <i>yy</i> SYSTEM <i>ssss</i> SKIPPED, REASON = <i>rs</i>. |
|----------------|---|

Explanation

The Postprocessor cannot use the SMF record type *xx* subtype *yy* from system *ssss*. The record is skipped because of reason code *rs*.

System action

The Postprocessor continues with next SMF record.

System programmer response

Action depends on the reason for the failure, which is indicated by the reason code, as follows:

- 4**

The SMF record indicates a problem during collecting cache control unit data. No report is generated in this case.

Refer to the LOGREC for more detailed information and also to message ERB464I issued by the data collector.
- 8**

The skipped record contains incorrect data obtained from a cache control unit. The control unit may have been IMLed. No action required.
- 12**

The Postprocessor found a mixture of RMF records and converted CRR records and skipped the record. The records should be separated, and the Postprocessor could run against both types of records.
- 16**

The skipped record contains inconsistent data. The model number of the SSID it represents has been changed during the collection. Split the duration interval into parts that contain consistent data only.
- 20**

The skipped record has an unsupported record level. For record type 103, HTTP Rel. 5.2 is required, for record type 108, Domino Server Rel. 5.0.3 is required.
- 24**

The skipped record contains inconsistent data. This can cause that there are not enough records to create a report for a specific server interval.

| | |
|----------------|--|
| ERB483I | PPS: PROCESSING TERMINATED DUE TO READ ERROR(S) |
|----------------|--|

Explanation

The Postprocessor encountered a persisting read error during read operations from the SMF record source.

System action

The Postprocessor stops reading SMF records. The Postprocessor continues processing of SMF records that have been read successfully.

System programmer response

Check the SMF record source.

| | |
|----------------|--|
| ERB484I | PPS: SMF RECORD <i>tt</i> SUBTYPE <i>ss</i> SYSTEM <i>xx</i> SYSPLEX <i>yy</i> SKIPPED REASON=<i>rr</i> |
|----------------|--|

Explanation

The Postprocessor encountered an error during processing of a SMF record type tt, subtype ss. The SMF record was written on system xx within system complex zz. Reason 'rr' may be one of the following:

Reason

Description

1

The Postprocessor detected SMF records with incorrect sync values. The problem usually occurs if the RMF gatherers on the various systems in a sysplex do not use identical sync values, or if the sync value on the system(s) changed within the reported time range.

2

The Postprocessor detected a SMF record that contains inconsistent data.

3

The Postprocessor detected an internal processing error while processing a SMF record.

4

Reassembly of broken records failed.

System action

The SMF record is skipped. Processing continues.

System programmer response

Check the SMF input data set.

ERB485I

**PPS: NO REPORTABLE DATA FOUND FOR SPECIFIED xx OR OVW
OPTIONS**

Explanation

The SMF data set does not contain data for the specified xx suboptions or for specified OVW option control statements.

xx is a suboption of the SYSRPTS option (that is, WLMGL or SDEVICE).

System action

The Postprocessor reports will be generated for those options for which data has been found.

User response

Check the specified options.

ERB486I

PPS: CROSS SYSTEM REPORT OPTIONS IN EFFECT

Explanation

This message appears in the message data set and lists the options in effect for cross system reports in the RMF Postprocessor. The options are listed, one per line, in the form:

```
option (value) -- source
```

The source indicates where the option was specified and can be either 'SYSIN' if the option was specified on a control statement for the Postprocessor or 'DEFAULT' if the program defaults are used.

ERB487I

PPS: SYNTAX ERROR IN CONTROL STATEMENT, LINE: ll, ttt

Explanation

The Postprocessor detected a syntax error in the control statement on line 'll'. 'ttt' provides additional information about the syntax error. 'ttt' is not always available. The second line of the message shows the line containing the control statement that caused the syntax error. The third message line points to the control statement that caused the syntax error.

System action

The Postprocessor stops parsing of control statements. The Postprocessor session is terminated.

System programmer response

Correct the Postprocessor control statements.

ERB488I**PPS: SYSPLEX DATA SERVER OPERATION FAILURE (reason)**

Explanation

The Postprocessor failed to use a service of the RMF sysplex data server.

Note: Please verify your JCL to ensure that you want to access the data of the sysplex data service. If you want to access SMF data that have been written to a data set, you need to specify this data set by using the DD-statement MFINPUT.

'reason' gives a short description of the problem and may contain the following:

SERVER NOT ACTIVE

The RMF sysplex data server is not active. Start the local RMF address space.

DATA BUFFERS INACTIVE

All RMF data buffers for SMF data are inactive on the systems the Postprocessor needs data from. Start the RMF data buffers on the systems you need information from.

FETCH ERBDSQRY FAILED

A trial to dynamically load the ERBDSQRY service into memory failed. Ensure that the load module is available when running the Postprocessor. The Postprocessor session is terminated.

FETCH ERBDSREC FAILED

A trial to dynamically load the ERBDSREC service into memory failed. Ensure that the load module is available when running the Postprocessor. The Postprocessor session is terminated.

INSUFFICIENT AUTHORIZATION

The Postprocessor is not authorized to call the RMF sysplex data services. The Postprocessor session is terminated.

ERBDSQRY SERVICE TIMEOUT

A timeout occurred for the ERBDSQRY service. Postprocessor reports may be not available or may be incomplete due to the timeout situation. Processing continues.

ERBDSREC SERVICE TIMEOUT

A timeout occurred for the ERBDSREC service. Postprocessor reports may be not available or may be incomplete due to the timeout situation. Processing continues.

NO SMF DATA

No SMF data is available from the sysplex data server. SMF data required in order to build the reports requested via Postprocessor control statements is not available. Check the values of the Postprocessor control statements.

ERBDSQRY SERVICE FAILED, RC=xx, RSN=yy

The ERBDSQRY service failed. Refer to a description of the RMF sysplex data server services for a detailed description of the return code xx and the reason code yy. The Postprocessor session is terminated.

ERBDSREC SERVICE FAILED, RC=xx, RSN=yy

The ERBDSREC service failed. Refer to a description of the RMF sysplex data server services for a detailed description of the return code xx and the reason code yy. The Postprocessor session is terminated.

System action

The Postprocessor stops using services of the sysplex data server. Processing of SMF records that have been retrieved continues.

System programmer response

See description of reason.

| | |
|----------------|--|
| ERB489I | PPS: SYSPLEX DATA SERVER, <i>nn</i> RECORDS NOT RETRIEVED DUE TO <i>rsn</i> |
|----------------|--|

Explanation

The Postprocessor failed to retrieve SMF records via the sysplex data server. 'nn' gives the number of SMF records that could not be retrieved. 'rsn' describes the reason and may be one of the following:

Reason

Description

TIMEOUT

SMF record(s) could not be retrieved due to timeout conditions in the sysplex data server.

OVERFLOW

The SMF record(s) could not be retrieved due to data buffer overflow. The SMF records being requested have been replaced in a wrap around data buffer by newer ones before they could be retrieved by the Postprocessor.

| | |
|----------------|---|
| ERB490I | PPS: CONFLICTING SUBOPTIONS IN CONTROL STATEMENT, LINE <i>ll</i>: PPS: STATEMENT IGNORED |
|----------------|---|

Explanation

The combination of selected suboptions is not allowed.

System action

The control statement is ignored, processing continues.

User response

For OVW control statements, verify that the correct scope has been specified for the selected condition and run the Postprocessor job again.

| | |
|----------------|---|
| ERB500I | USERID <i>userid</i> is not authorized to use RMF. |
|----------------|---|

Explanation

You have entered a user-ID not authorized under TSO. Your installation authorization routine (ERB3SOCK for RMF Monitor III) flagged the incorrect user-ID, which appears in the RMF or RMFWDM command for Monitor III.

System action

RMF ignores the RMF or RMFWDM command. The TSO session continues.

User response

Contact your system programmer.

| | |
|----------------|---|
| ERB501I | Cannot get sufficient storage from subpool 78. |
|----------------|---|

Explanation

Not enough storage was available to run the RMF STACK macro.

User response

Contact your system programmer.

ERB502I**The TSO address space is not large enough.**

Explanation

Not enough storage was available to hold RMF sample data.

System action

RMF terminates the session with a system abend and lets you request a dump.

User response

Increase the SIZE parameter of your TSO address space and start another RMF Monitor III session.

ERB503I**ISPF table *table-name* not found.**

Explanation

The specified ISPF table required to hold data for an RMF reporter session is not installed. The following RMF-supplied ISPF tables must be installed before you start an RMF reporter session:

- ERBFMTS3 - report layout definitions
- ERBPHDS3 - phase driver definitions
- ERBPTGS3 - report parameters
- ERBSESS3 - session default options
- ERBCOPS3 - graphic default options
- ERBROPS3 - report default options
- ERBLNGS3 - language default options
- ERBWEXS3 - Workflow/Exceptions default options
- ERBJOBS3 - job name default selections
- ERBSYOS3 - SYSINFO default selections
- ERBGPSS3 - WLM group name selections
- ERBGRDS3 - Group selection and description

System action

RMF ends the session with user completion code 1411 and lets you request a dump.

User response

Check with the RMF system programmer if all RMF-supplied ISPF tables are installed.

Programmer response

Correct the error as described by the reason code for the user completion code in [Chapter 5, “User completion codes,”](#) on page 165.

ERB504I**ISPF table *table-name* not validly defined.**

Explanation

The specified ISPF table, required to hold data for the RMF display session, has not been defined to RMF. The following RMF-supplied ISPF tables must be installed before you start an RMF reporter session:

- ERBFMTS3 - report layout definitions
- ERBPHDS3 - phase driving definitions
- ERBPTGS3 - graphic report parameters
- ERBSESS3 - session default options
- ERBCOPS3 - graphic default options
- ERBROPS3 - report default options
- ERBLNGS3 - language default options
- ERBWEXS3 - Workflow/Exception default options
- ERBJOBS3 - job name default selections
- ERBSYOS3 - SYSINFO default selections
- ERBG PSS3 - WLM group name selections
- ERBGRDS3 - Group selection and description

System action

RMF ends the session with user completion code *completion-code* and lets you request a dump.

User response

Check with the RMF system programmer if all RMF-supplied ISPF tables have been defined correctly.

Programmer response

Correct the error as described by the reason code for the user completion code in [Chapter 5, “User completion codes,” on page 165](#).

| | |
|----------------|---|
| ERB505I | Command not found in phase driver table. |
|----------------|---|

Explanation

You must add any user-defined commands to the phase driver table (ERBPHDS3), which contains entries for all RMF commands.

System action

RMF rejects the command.

User response

Verify that the command issued is a valid RMF command. If it is a user-defined command, create an entry for it in the phase driver table.

| | |
|----------------|--|
| ERB506I | Command entry in phase driver table is incorrect. |
|----------------|--|

Explanation

You issued a user command or an RMF command that has an incorrect entry in the phase driver table (ERBPHDS3). The table must contain entries for all RMF commands.

System action

RMF rejects the command.

User response

Ask your RMF system programmer to correct the entry in the phase driver table.

Programmer response

Verify that entries in the phase driver tables are complete and accurate.

| | |
|----------------|---|
| ERB507I | <i>command entry in application command table not valid.</i> |
|----------------|---|

Explanation

You must add any user-defined commands to the application command table (ERBCMDS), which contains entries for all RMF commands.

System action

RMF rejects the command.

User response

Verify that all entries in the application command table are complete and accurate. If you entered an RMF command, the valid table entry was probably altered outside of RMF.

| | |
|----------------|---|
| ERB508I | <i>Incorrect character in command input.</i> |
|----------------|---|

System action

RMF rejects your command.

User response

Enter a valid command.

| | |
|----------------|---|
| ERB509I | <i>"=" is not valid in this context.</i> |
|----------------|---|

System action

RMF rejects the command.

User response

Enter your command without the equal sign (=).

| | |
|----------------|---|
| ERB510I | <i>"*" is not valid in this context.</i> |
|----------------|---|

System action

RMF rejects the command.

User response

Enter your command without the asterisk (*).

| | |
|----------------|---|
| ERB511I | <i>Too many or incorrect parameters specified.</i> |
|----------------|---|

System action

RMF rejects the command.

User response

Enter the command with the correct parameters. See Extended Help for the report you want or *z/OS Resource Measurement Facility User's Guide* for the correct syntax.

ERB512I**Command must not have parameters.**

System action

RMF rejects the command.

User response

Enter the command without any parameters.

ERB513I**Required string missing.**

Explanation

You entered the FIND command without specifying a target.

System action

RMF rejects the command.

User response

Enter the command with the characters you want to find.

ERB514I**Incomplete string specified.**

Explanation

One or more character strings in your command could be missing final quotation marks (').

System action

RMF rejects the command.

User response

Put a quotation mark (') at the end of the string and enter the command again.

ERB515I**String must not contain blanks.**

System action

RMF rejects the request.

User response

Enter the parameter without any blanks.

ERB516I**Parameter must be: ON or OFF.**

Explanation

The only valid parameters for your command are ON and OFF.

System action

RMF rejects the command.

User response

Enter either ON or OFF.

ERB517I Multiple occurrence of same parameter.

System action

RMF rejects the command.

User response

Enter the command with only one occurrence of the parameter.

ERB518I Parameter must be: ON, OFF, REPORT or SCREEN.

Explanation

You issued the HARDCOPY command with an incorrect parameter.

System action

RMF rejects the command.

User response

Enter a valid parameter:

- ON for printed copies of all reports you view during the session.
- OFF for no printed copies of any reports or screens you view during the session.
- REPORT for a printed copy of a report you are viewing.
- SCREEN for a printed copy of a screen you are viewing.

ERB519I Parameter missing, ON is assumed.

Explanation

You issued the HARDCOPY command without specifying a parameter.

System action

RMF continues the session, and defaults to HARDCOPY ON.

User response

If you want hardcopy for RMF reports, take no action. If you do not want hardcopy, return to the screen, enter HARDCOPY OFF.

To print only the screen or report you are viewing, enter HARDCOPY and one of the following parameters:

- REPORT for a printed copy of a report.
- SCREEN for a printed copy of a screen.

ERB520I**Scroll must be: DATA, HALF, MAX, PAGE, or 0 to 9999.****Explanation**

You entered an incorrect parameter or line value for SCROLL.

System action

RMF rejects the command.

User response

Enter a valid value. Valid values are:

- DATA
- HALF
- MAX
- PAGE
- number (from 0 to 9999).

ERB521I**Scroll value cannot exceed 4 characters.****Explanation**

You entered an incorrect parameter or line value for Scroll.

System action

RMF rejects the command.

User response

Specify a valid number for Scroll. Valid numbers for Scroll are 1 to 9999.

ERB522I**Extra parameters. Comma may be missing.****Explanation**

You might have omitted a comma between parameters of a report command or between parameters of the BREF/FREF command.

System action

The request is ignored.

User response

Check to see if a comma is missing between parameters, then enter the command again.

ERB523I**HARDCOPY SCREEN/REPORT request not processed.****Explanation**

You entered a valid HARDCOPY command, but you are not on a report panel.

System action

RMF continues the session but ignores the request.

User response

Request an RMF report and issue the HARDCOPY command again.

ERB524I **TIME value is not valid.**

Explanation

An incorrect value for time was specified either on the BREF/FREF command or in the report header input field.

System action

No action taken.

User response

Correct the TIME value and press ENTER. The syntax of the TIME parameter of the BREF/FREF command and the value for TIME in the report header input field is:

```
{TIME} = hh { } mm { } ss
{ T      } { } { } { }
```

You can omit leading zeros, and seconds or hours if they are zeros. For example, you can specify TIME=9.05 or TIME=9:05, rather than TIME=09.05.00 or TIME=09:05:00.

ERB525I **Report is for class *class-name* only.**

Explanation

You requested a report that is limited to a single class of jobs. The class can be ASCH, BATCH, ENCLAVE, OMVS STC (Started Task Control), or TSO.

System action

The report displayed contains only those jobs belonging to the specified class.

User response

None.

ERB526I **DATE value is not valid.**

Explanation

An incorrect value for DATE was specified either on the BREF/FREF command or in the report header input field.

System action

No action taken.

User response

Correct the DATE value, and press ENTER.

The syntax of the DATE parameter of the BREF/FREF command is:

```
{DATE} = mm { } dd { } yy
{ D      } { } { } { }
```

You can omit leading zeroes. For example, you can specify DATE=9/3/94 rather than DATE=09/03/94.

This example uses the form MMxDDyYY. To change the form of the date, use the language options (enter LANGUAGE on any panel).

ERB528I**RANGE value is not valid.**

Explanation

An incorrect value for RANGE was specified either on the BREF/FREF command or in the report header input field.

System action

No action taken.

User response

Correct the RANGE value and press ENTER. The syntax of the RANGE parameter of the BREF/FREF command and the value for the RANGE in the report header field is:

```
{RANGE} = {nnnnM }  
{R      } {nnnn[S]}
```

Valid time range values are 10 to 9999 seconds or 1 to 166 minutes. If you specify a value without M or S, RMF uses seconds.

ERB529I***delay-reason* had the largest using. Report is for *job-group* only.**

Explanation

You pressed ENTER with the cursor positioned on the USG% field of a summary line on the delay report. The display is limited to a subset of the jobs in the system. The *delay-reason* is replaced by either PROC or DEV. The *job-group* can be BATCH, TSO, STC (Started Task Control), ASCH, OMVS, or a service class.

System action

The report contains only those jobs belonging to the specified class.

User response

None.

ERB530I**Keyword must be: TIME, DATE, RANGE, or SYSTEM.**

Explanation

An incorrect keyword was used for the BREF/FREF commands.

System action

No action taken.

User response

Enter the command with a valid keyword. Specify TIME=value, DATE=value, RANGE=value, or SYSTEM=value; you can abbreviate TIME as T, DATE as D, RANGE as R or SYSTEM as S.

ERB531I**Command is not valid in this context.**

Explanation

You typed a valid command on the command line but pressed END (PF3) instead of ENTER.

System action

RMF rejects the command.

User response

To execute the command, press ENTER, or erase your command and press END (PF3).

| | |
|----------------|---|
| ERB532I | Command input cannot end with a comma. |
|----------------|---|

Explanation

You ended a command input with a comma.

System action

RMF rejects the command.

User response

Remove the final comma, and press ENTER.

| | |
|----------------|--|
| ERB533I | Maximum number of stacked levels reached. |
|----------------|--|

Explanation

Using cursor sensitive control, you have reached the maximum number (15) of nested RMF reports.

System action

By pressing END (PF3) you can display the previous report. If you select another report via cursor sensitive control, RMF will not retain the return path.

User response

None.

| | |
|----------------|---|
| ERB534I | Class must be: ALL (A), ASCH (AS), BATCH (B), OMVS (O), STC (S), or TSO (T). |
|----------------|---|

Explanation

You specified an incorrect value for class.

System action

RMF rejects the command.

User response

Correct the class and press ENTER.

| | |
|----------------|--|
| ERB535I | Cursor sensitivity is not active for this report. |
|----------------|--|

Explanation

You pressed ENTER when the cursor was not on the command line, and the fields in the displayed report were not cursor sensitive. RMF graphics reports and user modified reports that use the ISPF table display feature do not contain cursor sensitive fields.

System action

The report is re-displayed.

User response

Use a command to invoke the desired report.

ERB539I**Report is for service class *service class name* only**

Explanation

You requested a report that is limited to a single service class.

System action

The system displays only those jobs that belong to the class.

User response

None

ERB540I**The job name is not valid.**

Explanation

Job names must be from 1 to 8 characters long, and consist of:

- Letters A-Z.
- Special characters @, #, or \$. The only exception is *MASTER*, which is a valid job name for RMF.
- Numbers 0-9; however, the first character of a job name cannot be a number.

System action

RMF rejects the command.

User response

Enter a valid job name on the command line.

ERB541I**Job name is too long.**

Explanation

Job names cannot exceed 8 characters.

System action

RMF rejects the command.

User response

Correct the job name and press ENTER.

ERB542I**Resource name is too long.****Explanation**

Resource names (VOLSERs) must be from 1 to 6 characters long. Enqueue MAJOR names must be from 1 to 8 characters long.

System action

RMF rejects the command.

User response

Correct the VOLSER or enqueue MAJOR name and press ENTER.

ERB543I**VOLSER is not valid.****Explanation**

You specified an incorrect volume serial number for a device resource. Volume serial numbers must be from 1 to 6 characters long, and consist of:

- Letters A-Z
- Numbers 0-9
- Special characters @ # \$, . / ' () * & + - =

See *z/OS MVS JCL Reference* for information on the correct syntax of a volume serial number.

System action

RMF rejects the command.

User response

Correct the VOLSER number and press ENTER.

ERB545I**To end GO mode and enter a command, press ATTN/PA1 key.****Explanation**

You requested the GO mode for this report.

System action

RMF will automatically refresh the screen based on the Refresh option value.

User response

To stop the screen from refreshing, press the ATTN/PA1

ERB546I**One or more data sets cannot be accessed.****Explanation**

The Data Index screen is displayed, with the data set support being active. At least one data set contains data that is not from the local system. The reporter cannot access this data set.

System action

RMF continues processing with the data that is from the local system.

User response

You can either:

- Notify the system operator to remove the data set, so that it is no longer in the list of data sets available for data set support.
- Continue with the available data.

ERB547I **Jobname not specified.**

Explanation

You did not specify a job name.

System action

Session continues.

User response

You can either:

- Specify a valid job name for a job-oriented report. Once you specify a job name on a job report options panel, it becomes the default job name for all job delay reports
- Press END (PF3) to leave the screen.

ERB548I **Time limit for GO mode has expired.**

Explanation

The Time Limit for GO mode that you specified on the session options screen has expired.

System action

RMF terminates GO mode.

User response

If you do not want a time limit, specify NONE for the Time Limit on the session options screen. If you want to change your time limit, specify another value. Valid values are 1-999 minutes or 1-128 hours. For example, specify 10M or 2H.

ERB549I **Module *module*abend. Scde:*scde* Rcde:*rcde***

Explanation

The module specified on the previous panel has terminated abnormally.

System action

RMF terminates the session with the system abend listed on the previous panel.

User response

Check the system completion code and reason code identified on the previous panel in *z/OS MVS System Codes* and correct the problem. You can request a dump by entering Y on the previous panel.

ERB550I **Module *module*abend. Scde:*scde* Rcde:*rcde***

Explanation

The module specified on the previous panel has terminated abnormally.

System action

RMF terminates the session with the system abend listed on the previous panel.

User response

Check the system completion code and reason code identified on the previous panel in *z/OS MVS System Codes* and notify your system programmer. You can request a dump by entering Y on the previous panel.

ERB551I**Module *module* abend. Ucde:*ucde* Rcde:*rcde***

Explanation

The module specified on the previous panel has terminated abnormally.

System action

RMF terminates the session with the user abend listed on the previous panel.

User response

Check the user completion code (Ucde) and reason code (Rcde) identified on the previous panel in Chapter 5, “User completion codes,” on page 165 and correct the problem. You can request a dump by entering Y on the previous panel.

ERB552I**Module *module* abend. Ucde:*ucde* Rcde:*rcde***

Explanation

The module specified on the previous panel has terminated abnormally.

System action

RMF terminates the session with the user abend listed on the previous panel.

User response

Check the user completion code and reason code identified on the previous panel in Chapter 5, “User completion codes,” on page 165 and correct the problem. You can request a dump by entering Y on the previous panel.

ERB553I**Jobs must be: YES or NO.**

Explanation

You specified an incorrect Jobs value.

System action

RMF rejects the request.

User response

Specify YES to obtain the job selection screen, or NO to avoid it.

ERB554I**Unable to allocate hardcopy. Session continues.**

Explanation

RMF could not allocate the hardcopy data set.

System action

RMF produces no hardcopy output of the report.

User response

Make sure the SYSOUT specified on the session options screen is correct, or end the session and correct the error as described by the return-code, error-code, and information-code listed in *z/OS MVS Programming: Authorized Assembler Services Guide*.

| | |
|----------------|--|
| ERB555I | Unable to open hardcopy. Session continues. |
|----------------|--|

System action

RMF produces no hardcopy output of the report, but the session continues.

User response

Make sure that the SYSOUT class specified on the session options screen is correct.

| | |
|----------------|------------------------------|
| ERB556I | Data movement failed. |
|----------------|------------------------------|

Explanation

RMF could not move data from the data gatherer because the data gatherer had changed the data areas. The RMF reports contain no data.

System action

RMF continues the session.

User response

Decrease the RANGE parameter, and repeat your request.

| | |
|----------------|---|
| ERB557I | I/O error on hardcopy data set. Session continues. |
|----------------|---|

Explanation

You specified Hardcopy ON, and an I/O error, that can not be corrected, occurred while RMF was writing to the SYSOUT data set or the data set specified for Output Data Set on the Session Options panel. The SYNAD text is: *synad-text*

System action

RMF sets Hardcopy OFF and produces no hardcopy output, but the session continues.

User response

Do not issue the Hardcopy ON command. Report the synad text to your system programmer.

Programmer response

Use the synad text to determine why the data set is in error.

| | |
|----------------|--|
| ERB558I | Reports are not available. IPL at IPL-time. |
|----------------|--|

Explanation

You requested a report for a time range in which an IPL was detected. RMF cannot process all the necessary data to provide a consistent report.

System action

RMF displays an empty report.

User response

Select values for date, time, and range that do not overlap with the IPL time.

ERB559I Reports are unavailable. Operator changed cycle time.

Explanation

During the gatherer session, the operator changed the CYCLE time from *old-cycle-time* to *new-cycle-time*. The change occurred at *time*.

System action

RMF reports do not contain data for the specified Refresh or Range time.

User response

Wait until the next interval for the GO mode.

If the reporter is in STOP mode, select Date, Time and Range values that do not overlap the time when the CYCLE was changed.

ERB560I Delay values for *resource/service-class* are not currently available.

Explanation

Within the current report interval, RMF did not detect any delay for the resource or service class.

System action

RMF waits for the next input.

User response

Press END (PF3) to return to the previous panel.

ERB561I No job or resource found to satisfy selection criteria.

Explanation

You entered a selection for a job or resource that is not available.

System action

RMF waits for the next command.

User response

Enter another RMF command, or change the selection criteria on a report options screen.

ERB562I Your selection is not recognized by RMF.

Explanation

You have made an incorrect selection on the panel.

System action

RMF waits for the next command.

User response

Enter a valid selection from the selection panel.

| | |
|---------|---|
| ERB563I | Unable to provide the requested report. |
|---------|---|

Explanation

RMF could not obtain enough private storage to produce the requested report.

System action

RMF waits for the next request.

User response

Decrease the Range time. If you think the current value is reasonable or if you decrease the value and the problem continues, increase the SIZE of your TSO address space and request another RMF display session.

| | |
|---------|---|
| ERB564I | Data movement not possible at this time. Try later. |
|---------|---|

Explanation

During the RMF session, one of the following occurred:

- Too many data reporters requested data from the data gatherer
- A data reporter requested data when the data gatherer was updating its in-storage buffer
- The data gatherer had just been started and could not provide data to a data reporter

System action

RMF reports contain no data.

User response

Issue the report request later when the gatherer has available data.

| | |
|---------|--|
| ERB565I | Data not available. Data gatherer is not active. |
|---------|--|

Explanation

The Monitor III data gatherer is not active in the current system, or, if you have a sysplex environment, no active Monitor III data gatherer was found on any system in the sysplex.

System action

No action taken.

User response

Ask the system operator to start the RMF Monitor III data gatherer.

Explanation

RMF cannot process the data in its current format.

System action

RMF issues user completion code U1510 and lets you request a dump. RMF continues the session and displays an empty report.

System programmer response

Save the dump and follow the procedure for user completion code U1510 in [Chapter 5, “User completion codes,”](#) on page 165.

User response

Request a dump and continue the session. If data sets are preallocated, ensure that the data was written by an RMF Monitor III data gatherer. If you only can retrieve parts of the data set, the data set might be damaged. Contact your system programmer.

Explanation

RMF detected an I/O error when trying to access the hardcopy data set.

System action

RMF produces no hardcopy output.

User response

Contact the system programmer responsible for RMF at your installation.

Explanation

You entered a command RMF does not recognize.

System action

RMF waits for a valid command.

User response

To see a list of valid commands, enter commands.

Explanation

You specified an incorrect value for class.

System action

No action taken.

User response

Enter a valid class from the list above.

ERB570I

Press ENTER to proceed with next request.

Explanation

You specified more than one AD (Add) or S (Select) action command on the Action panel. RMF processes only one requested command at a time.

System action

RMF executes the first command and displays the Action panel again.

User response

Press ENTER to execute the next command that you specified.

ERB571I

Changed option(s) now in effect.

Explanation

Your new options have been accepted by RMF.

ERB572I

RMF commands cannot be issued from this screen.

Explanation

You tried to issue an RMF command but RMF commands are not allowed on this screen.

System action

RMF rejects the command.

User response

Erase your command from the screen and type Y to obtain a dump or N to avoid a dump and press ENTER or END (PF3).

ERB573I

This RMF command cannot be issued on this screen.

Explanation

You entered a valid RMF command, but this command cannot be processed from this screen.

System action

RMF rejects the command.

User response

Try the command on another screen.

ERB574I

You cannot delete the current option set.

Explanation

You can only delete option sets that are not current for the session.

System action

RMF ignores your request.

User response

To delete this option set:

1. Make a different option set current by selecting it on the Option Set Selection panel.
2. Delete the option set that is no longer current.

ERB575I**Option set name already exists.**

Explanation

Each RMF option set must have a unique name.

System action

RMF ignores your request.

User response

Specify a unique name for the new option set.

ERB576I**New option set name is not added.**

Explanation

You tried to add an option set name, but the maximum number of option sets already exists.

System action

RMF ignores your request.

User response

Delete the option sets you do not need and then restart the RMF session.

ERB577I**The following characters were found: *character-string***

Explanation

The character string is displayed at the top of the screen with the cursor positioned at the beginning.

ERB578I**Line *top of rows*.**

Explanation

This line indicates the location of data during a table display of Monitor III report data.

System action

None.

User response

None.

| | |
|----------------|--------------------------------|
| ERB579I | Bottom of data reached. |
|----------------|--------------------------------|

Explanation

RMF could not find the text between the current position of the cursor and the end of the report.

User response

Use the RFINDD command to repeat searching.

| | |
|----------------|--|
| ERB580I | The following chars were not found: <i>character-string</i> |
|----------------|--|

Explanation

The character string was not found in the data set.

| | |
|----------------|---|
| ERB581I | GO mode does not work with preallocated data sets. |
|----------------|---|

Explanation

You cannot enter GO mode or specify MODE GO on the session option screen for reports that contain data from preallocated data sets. RMF displays this report data in STOP mode only.

System action

RMF rejects your request.

User response

To get current Monitor III data from an active data gatherer session, end the current RMF reporter session and free the file name of the preallocated data set listed on the data index (DI) report. Start a new session.

| | |
|----------------|--|
| ERB582I | Data not reportable. Multiple sysplex IDs on data sets. |
|----------------|--|

Explanation

During a reporter session, two or more data sets with different sysplex IDs were encountered.

The reporter cannot report data from different sysplexes in one session.

System action

RMF displays the Data Index (DI) report.

User response

Check the DI report to determine the reason for the error message.

- Then, if you are using preallocated data sets, unallocate one or more data sets so that all preallocated data sets contain data with the same sysplex ID.

Note: The data sets must be in ascending consecutive order from RMFDS00 to RMFDS99. If you delete one and create a gap in the sequence, the DI report will only display the data sets before the gap.

- If you are using the gatherer's data set support, end the current session and clear out the data sets in error. Then start a new session.

| | |
|----------------|--|
| ERB583I | Reports unavailable. Preallocated data sets unusable. |
|----------------|--|

System action

RMF is not able to retrieve all of the requested data from all the preallocated data sets currently allocated. Therefore, no data is available to generate reports other than the DI report.

User response

Check the data index (DI) screen to determine the reason for the error message. End the current session. Then unallocate one or more data sets so that all preallocated data sets are valid and start a new session.

ERB584I**VSAM error.**

Explanation

RMF attempted to open or close data set *data-set-name*, and a VSAM error occurred.

System action

RMF displays the Data Index (DI) screen.

User response

Check the return-code *return-code* and the reason-code *reason-code*, and correct the error.

For an explanation of these codes, see *z/OS DFSMS Macro Instructions for Data Sets*.

ERB585I**VSAM error.**

Explanation

RMF attempted to allocate or unallocate data set *data-set-name*, and a VSAM error occurred.

System action

RMF displays the Data Index (DI) report.

User response

Check the return-code, reason-code, and information-code, and correct the error.

For an explanation of these codes, see *z/OS MVS Programming: Authorized Assembler Services Guide*.

ERB586I**VSAM error.**

Explanation

RMF attempted to complete VSAM request *command-name* for preallocated data set *data-set-name*, and a VSAM error occurred.

System action

RMF displays the Data Index (DI) report.

User response

Check the return-code *return-code* and the reason-code *reason-code*, and correct the error. For an explanation of these codes, see *z/OS DFSMS Macro Instructions for Data Sets*. Otherwise, contact the RMF system programmer at your installation.

ERB587I**Time gap from *start-time* to *end-time*.**

Explanation

RMF could not retrieve the requested data.

System action

RMF continues the session and displays an empty or incomplete report. The report header gives the time Range for available data.

User response

Change the date, time, and range of your request, or use the BREF/FREF commands without the DATE/TIME parameters. (BREF scrolls back from the beginning of the gap, and FREF scrolls forward from the end of the gap.)

To see which time range is available, check the report header Time and Range fields; to see which data sets contain sample data for the time range, check the Data Index (DI) report.

ERB588I **Time gap from *start-time* to *end-time*.**

Explanation

A VSAM error occurred when RMF tried to access at least one data set. RMF could not retrieve the requested data, probably because of this error.

System action

RMF displays an empty report. The report header gives the time range for available data.

User response

To determine which data sets were not accessed, check the Data Index (DI) report.

Adjust the Range parameter according to the begin and end time of the gap, or use the BREF/FREF commands without the DATE/TIME parameters. (BREF scrolls backwards from the beginning of the gap, and FREF scrolls forward from the end of the gap.)

ERB589I **Time gap from *start-time* to *end-time*.**

Explanation

RMF could not retrieve all requested data.

System action

RMF displays only the data it could retrieve.

User response

To determine which time range is available, check the report header Time and Range fields; to see which data sets contain sample data for the time range, check the Data Index (DI) report.

Adjust the Range parameter according to the begin and end time of the gap, or use the BREF/FREF commands without the DATE/TIME parameters. (BREF scrolls back from the beginning of the gap, and FREF scrolls forward from the end of the gap.)

ERB590I **Time gap from *start-time* to *end-time*.**

Explanation

A VSAM error occurred when RMF tried to access at least one data set. RMF could not retrieve the requested data probably because of the error.

System action

RMF displays the data that it could retrieve for the requested Range.

User response

To determine which data sets were not accessed, check the Data Index (DI) report.

Adjust the Range parameter according to the begin and end time of the gap, or use the BREF/FREF commands without the DATE/TIME parameters. (BREF scrolls backward from the beginning of the gap, and FREF scrolls forward from the end of the gap.)

ERB591I Data available only from *start* to *end*.

Explanation

The data gatherer did not contain data for the requested time frame in one of the following places:

- Internal storage
- Data set(s) you specified with the Data Set option.

System action

The RMF reporter session includes the available data.

User response

If appropriate, change the Date, Time, and Range of your request. If the current session is with preallocated data sets, request a Data Index (DI) report to retrieve data from the available time frame.

ERB593I Specify a Monitor III report.

Explanation

You must enter a report when you select option 4 (ROPTIONS) on the Option Selection Menu.

User response

Enter a report or its abbreviation (for example, WFEX) in the space provided. For a list of valid report types, see *z/OS Resource Measurement Facility User's Guide*.

ERB594I Report type is not valid.

Explanation

You specified a report type on the Option Selection menu that is not valid.

User response

Specify a valid report type or its abbreviation in the space provided for option 4 (ROPTIONS) and press ENTER. For a list of valid report types, see *z/OS Resource Measurement Facility User's Guide*.

ERB595I Tabular report printed.

Explanation

RMF wrote the tabular version of the report to the Output Data Set or the SYSOUT class specified on the session option screen.

User response

None.

| | |
|----------------|--------------------------------|
| ERB596I | Tabular screen printed. |
|----------------|--------------------------------|

Explanation

RMF wrote the tabular version of the screen display to the output data set or the SYSOUT class specified on the session option screen.

User response

None.

| | |
|----------------|------------------------------|
| ERB597I | Enter a FIND command. |
|----------------|------------------------------|

Explanation

You can enter an RFIND command only after you have entered a FIND command with a character string.

System action

RMF rejects your command.

User response

Use the FIND command to enter a character string.

| | |
|----------------|---|
| ERB599I | Incorrect option(s) encountered. Default(s) assumed. |
|----------------|---|

Explanation

RMF detected an incorrect value for the following option groups:

option-name
option-name
option-name
option-name
option-name
option-name
option-name
option-name

The following option groups are available:

- SESSION - session options
- LANGUAGE - language options
- GRAPHIC - graphic options
- WFEX - Workflow/Exception Report options
- REPORT - report options for delay reports
- JOBNAME-REPORT - JOBNAME selections
- SYSINFO-REPORT - SYSINFO selections
- GROUP - Group selection and descriptions
- WLM Group Selection - WLM group name selection options

System action

RMF assumes default values for the group with the incorrect options and continues the session.

User response

Select the option groups using the Option Selection menu, and accept or modify the options. If the problem persists, contact your RMF system programmer.

Chapter 2. Distributed Data Server messages - GPM

This topic lists all messages issued by the Distributed Data Server (DDS) and RMF Performance Monitoring (RMF PM) using the following message ranges:

GPM host messages:

GPM050I - GPM083E

DDS - GPMSERVE messages displayed on the host console

GPM250I - GPM283E

DDS - GPM4CIM messages displayed on the host console

GPM workstation messages:

GPM0111I - GPM0456I

RMF PM messages

GPM0500I - GPM0749E

DDS HTTP API messages (both GPMSERVE or GPM4CIM)

GPM0801I - GPM0904I

RMF PM messages

GPM1001I - GPM1008I

DDS HTTP API messages (GPM4CIM)

GPM050I**GPMSERVE CANNOT FIND MEMBER *member* IN PARMLIB**

Explanation

The DDS host server address space cannot find the specified PARMLIB member.

System action

The host server continues the initialization using default parameters.

Operator response

Inform the system programmer.

System programmer response

Make sure that a valid GPMSRVxx PARMLIB member exists in the parameter library (usually the PARMLIB concatenation).

GPM051I**TCP/IP IS NOT CURRENTLY OPERATIONAL ON THE HOST**

Explanation

TCP/IP is either not active on the host, or not customized correctly. The GPMSERVE address space has detected that TCP/IP services are not available.

System action

The host server terminates.

Operator response

Inform the system programmer.

System programmer response

Make sure that TCP/IP is customized correctly and is active before the Distributed Data Server host server is started.

GPM052I **Trace is now ON/OFF**

Explanation

This message is issued in response to the MODIFY command for the GPMSEVE address space with the TRACEON or TRACEOFF option.

System action

If the trace is active, GPMSEVE puts its trace output to DDNAME SYSOUT. If the trace is inactive, GPMSEVE no longer writes trace output to DDNAME SYSOUT.

GPM056I **SYNTAX ERROR IN GPMSRVxx MEMBER. LINE: // NEAR TEXT 'tttttt'**

Explanation

A syntax error was detected in the GPMSRVxx member. The error was detected in the line that is indicated in the message, and the string indicates the erroneous text.

System action

The server is terminated immediately.

System programmer response

Correct the erroneous option member.

GPM057I **SPECIFIED HOSTNAME *host* CANNOT BE RESOLVED**

Explanation

One of the following parameters in the GPMSRVxx member contains a hostname that cannot be resolved by the name server:

- SERVERHOST
- HTTP_ALLOW
- HTTP_NOAUTH

System action

The indicated hostname is discarded.

System programmer response

Correct the erroneous option member.

GPM058I **I/O ERROR READING PARMLIB MEMBER *name***

Explanation

The DDS host server address space detected an I/O error reading the specified PARMLIB member.

System action

The server is terminated immediately.

Operator response

Inform the system programmer.

System programmer response

Make sure that a valid GPMSRVxx PARMLIB member exists in the parameter library (usually the PARMLIB concatenation).

GPM059I **COMMAND *command* IS NOT VALID**

Explanation

The MODIFY command that was issued against the DDS data server is not a valid command.

System action

The command is ignored.

User response

Specify a valid command.

GPM060I **RMF DISTRIBUTED DATA SERVER READY FOR COMMANDS**

Explanation

The DDS server is now accepting commands from the console.

User response

None.

GPM061I **OPTIONS IN EFFECT: *options***

Explanation

This message lists the currently active options for the DDS server.

User response

None.

GPM062I ***component last_status***

Explanation

This message displays the status of an active component of the DDS server. The component may be:

DDS-REFR

The automatic data refresher

DM-SERV

The datagram server

INET-LIS

Task that listens for incoming TCP/IP requests

CMD-HNDL

MODIFY command handler

INET-CLI

TCP/IP client

UNIX-CLI

UNIX client

HTTP-LIS

The task that listens for incoming HTTP requests

HTTP-CLI

HTTP session client

System action

None

User response

None

GPM063I**PERMANENT ERROR IN DM/390 SERVER THREAD****Explanation**

The DDS host server has detected that the component that processes incoming performance request datagrams has abnormally terminated. The most probable cause for this problem is, that TCP/IP is inactive or has produced an error.

System action

The DDS tries to restart the component. If the restart attempt is unsuccessful, the component is deactivated.

System programmer response

Make sure that all required prerequisites for the component are operational (for example, TCP/IP).

Make sure that the specified port in the GPMSRVxx PARMLIB member (DATAGRAM_PORT option) is free and can be used by the DDS.

GPM064I**PERMANENT ERROR IN UNIX SESSION SERVER****Explanation**

The DDS host server has detected that the component that accepts incoming session requests via UNIX domain sockets has abnormally terminated.

System action

The DDS tries to restart the component. If the restart attempt is unsuccessful, the component is deactivated.

System programmer response

Make sure that all required prerequisites for the component are operational (mainly z/OS UNIX System Services).

Make sure that the pathname

```
/tmp/gpmserve/http.socket
```

is free and can be used by the DDS.

If more than one instance of the DDS is started, this message appears for all instances except the first one, because the UNIX socket pathname cannot be shared by different servers. In this case, always the first server handles incoming UNIX session requests.

GPM066I RMF DISTRIBUTED DATA SERVER HAS TERMINATED

Explanation

The DDS host server has terminated.

System action

None

System programmer response

None

GPM067I VALUE *xxxx* IS NOT ALLOWED FOR OPTION *yyyyy*

Explanation

The specified option value is not allowed or outside the allowed range for the option.

System action

The server is terminated immediately.

System programmer response

Correct the erroneous option member.

GPM068I PERMANENT ERROR IN HTTP SERVER THREAD

Explanation

The DDS host server has detected that the component processing incoming HTTP session requests has abnormally terminated. The most probable cause for this problem is, that TCP/IP is inactive or has produced an error.

System action

The DDS tries to restart the component. If the restart attempt is unsuccessful, the component is deactivated.

System programmer response

Make sure that all required prerequisites for the component are operational (for example, TCP/IP). Make sure that the specified port in the GPMSRVxx PARMLIB member (HTTP_PORT option) is free and can be used by the DDS.

GPM069S SEVERE ERROR: ALLOCATION FAILED FOR CACHE STORAGE IN FUNCTION *function_name*

Explanation

The server has detected a problem when trying to allocate additional storage for the data cache. The most probable cause for this problem is, that the REGION size is too small.

System action

The server is terminated with a fatal error.

System programmer response

- Increase the REGION parameter on the JOB or EXEC record.
- Make sure that the requested region size is really available to the server program (check that the system exit IEFUSI does not reduce the requested region size).
- Reduce the number of cache slots in the PARMLIB member GPMSRVxx (CACHESLOTS option). The default number of slots is 4.

GPM070S

NON-RMF VERSION OF MODULE ERB3XDRS DETECTED

Explanation

The server has detected that the RMF service ERB3XDRS has returned an invalid return code/reason code of 16/0. This combination of return code and reason code is not defined for RMF, but has been used by a vendor product to indicate that the ERB3XDRS service is not supported by this vendor product.

System action

The server is terminated with a fatal error.

System programmer response

Make sure that only the RMF version of the ERB3XDRS loadmodule is in the library concatenation or LINKLIST.

GPM071S

REGION SIZE IS TOO SMALL FOR THE SPECIFIED NUMBER OF CACHESLOTS

Explanation

The estimated storage size for the data cache exceeds the virtual storage size for the server address space. The DDS server calculates the required storage size by multiplying the measured size for the first cache slot with the number of configured cache entries (see CACHESLOTS parameter in GPMSRVxx). The size of the first cache slot is shown in the SYSPRINT output file. The most probable cause for this problem is, that the REGION size is too small.

System action

The server is terminated with a fatal error.

System programmer response

Check the following items:

- Increase the REGION size parameter on the JOB or EXEC card.
- Make sure that the requested region size is really available to the server program, for example, check that the IEFUSI system exit does not reduce the requested region size.
- Reduce the number of cache slots in the GPMSRVxx PARMLIB member (CACHESLOTS option). The default number of slots is 4, the minimum number is 3.

GPM072I

XML ERROR *error_type*

Explanation

The GPMEXSYS or the GPMEXUSR file, or both, contain incorrect XML.

System programmer response

Correct the XML in the GPMEXSYS or GPMEXUSR file. In case of a permanent error, report the problem to the IBM Support Center.

GPM073I **CANNOT BIND TO TCP/IP port *port* on *xxxxxx***

Explanation

The DDS server is unable to use one of the configured TCP/IP ports on the host. The most probable reason for that message is, that another application or another copy of the DDS server is already using the specified port.

System action

The server is terminated.

System programmer response

Check that no other application or no second copy of the DDS server is running that is using the specified port.

GPM074I **FAILURE CREATING REGULAR EXPRESSION FOR {HTTP_ALLOW | HTTP_NOAUTH}**

Explanation

The HTTP_ALLOW or HTTP_NOAUTH specification in the GPMSRVxx member contains invalid data.

System action

The server is terminated immediately.

System programmer response

Correct the erroneous option member.

GPM075I **UNEXPECTED LOGIC ERROR IN RMF DDS. SERVER WILL BE SHUT DOWN.**

Explanation

An internal unexpected logic error occurred in the DDS.

System action

The DDS host server is terminated.

User response

Report the problem to the IBM Support Center.

GPM076I **GPMSERVE REGISTER ERROR. UNEXPECTED RETURN CODE FROM IWMSRSRG.**

Explanation

The DDS encountered an unexpected return code from IWMSRSRG during registration for sysplex routing.

System action

The DDS was not able to register itself to sysplex routing.

System programmer response

Verify the access definitions for the DDS. The calling DDS userID must either have the attribute TRUSTED or must have explicit READ access to the BPX.WLMSEVER Facility. Otherwise, the DDS cannot propagate hostname and port number for potential exploiters.

GPM077I**GPMSEVER ALREADY ACTIVE. START PROCEDURE ABORTED.**

Explanation

Another DDS instance is already active on the system.

This message may also occur if the RMF DDS option is active and RMF moves the active DDS instance from one system of the sysplex to another system.

System action

The current start procedure is aborted.

System programmer response

If the RMF DDS option is active, RMF checks periodically if there is an active DDS instance within the sysplex and retries the start of the DDS so that message GPM077I can be ignored.

GPM078I**GPMSEVER HAS LOST TCPIP CONNECTIVITY ON PORT *port*.**

Explanation

TCPIP connectivity on the indicated port is no longer available.

System action

GPMSEVER tries to reconnect until TCP/IP is available again. When GPMSEVER has successfully reconnected, message GPM079I is issued.

GPM079I**GPMSEVER HAS REINSTATED TCPIP CONNECTIVITY ON PORT *port*.**

Explanation

TCPIP connectivity is available again on the indicated port.

System action

Requests on this port are serviced again by GPMSEVER.

GPM083E**LOGIN FOR USER *userid* REJECTED. ERROR DURING RACF CHECK.
ERRNO=*xxxx*.**

Explanation

The user could not login to the DDS server. The z/OS UNIX System Services return code (ERRNO) is reported.

System action

The DDS server continues processing.

Operator response

Notify your system programmer.

System programmer response

Examine the return code and correct the problem. For information on the return code, see *z/OS UNIX System Services Messages and Codes*.

When the return code EPERM is reported, either the DDS server has no read access to the BPX.SERVER FACILITY or the user has no read access to the the ERBSDS.MON3DATA profile.

Your security product may have displayed additional messages.

GPM250I **GPM4CIM CANNOT FIND CONFIGURATION FILE *config_file***

Explanation

The DDS host server address space cannot find the specified configuration file.

System action

The host server continues the initialization using default parameters.

Operator response

Inform the system programmer.

System programmer response

Make sure that a valid GPM4CIM configuration file exists.

GPM251I **TCP/IP IS NOT CURRENTLY OPERATIONAL ON THE HOST**

Explanation

TCP/IP is either not active on the host, or not customized correctly. The GPM4CIM address space has detected that TCP/IP services are not available.

System action

The host server terminates.

Operator response

Inform the system programmer.

System programmer response

Make sure that TCP/IP is customized correctly and is active before the Distributed Data Server host server is started.

GPM252I **TRACE IS NOW (IN)ACTIVE**

Explanation

This message is issued in response to the MODIFY command for the GPM4CIM address space with the TRACEON or TRACEOFF option.

System action

If the trace is active, GPM4CIM puts its trace output to DDNAME STDERR. If the trace is inactive, GPM4CIM no longer writes trace output to STDERR.

GPM253I **SMF RECORDING IS NOW [ON|OFF]**

Explanation

This message is issued in response to the MODIFY command for the GPM4CIM address space with the RECORD or NORECORD option.

System action

If SMF recording is active, RMF XP writes SMF 104 records. If SMF recording is inactive, RMF XP no longer writes SMF 104 records.

GPM256I **SYNTAX ERROR IN CONFIGURATION FILE. LINE: // NEAR TEXT 'tttttt'**

Explanation

A syntax error was detected in the GPM4CIM configuration file. The error was detected in the line that is indicated in the message, and the string indicates the erroneous text.

System action

The server is terminated immediately.

System programmer response

Correct the erroneous configuration file.

GPM257I **SPECIFIED HOSTNAME *host* CANNOT BE RESOLVED**

Explanation

One of the following parameters in the GPM4CIM configuration file contains a hostname that cannot be resolved by the name server:

- SERVERHOST
- HTTP_ALLOW
- HTTP_NOAUTH

System action

The indicated hostname is discarded.

System programmer response

Correct the erroneous configuration file.

GPM258I **I/O ERROR DETECTED READING CONFIGURATION FILE *config_file***

Explanation

The DDS host server address space detected an I/O error reading the specified GPM4CIM configuration file.

System action

The server is terminated immediately.

Operator response

Inform the system programmer.

System programmer response

Make sure that a valid GPM4CIM configuration file exists.

GPM259I **COMMAND *command* IS NOT VALID**

Explanation

The MODIFY command that was issued against the DDS data server is not a valid command.

System action

The command is ignored.

User response

Specify a valid command.

GPM260I **RMF XP DISTRIBUTED DATA SERVER READY FOR COMMANDS**

Explanation

The RMF XP DDS server is now accepting commands from the console.

User response

None.

GPM261I **OPTIONS IN EFFECT: *options***

Explanation

This message lists the currently active options for the RMF XP DDS server.

User response

None.

GPM262I ***component last_status***

Explanation

This message displays the status of an active component of the DDS server. The component may be:

DDS-REFR
The automatic data refresher

CMD-HNDL
MODIFY command handler

HTTP-LIS
The task that listens for incoming HTTP requests

HTTP-CLI
HTTP session client

System action

None

User response

None

GPM266I**RMF XP DISTRIBUTED DATA SERVER HAS TERMINATED****Explanation**

The RMF XP DDS host server has terminated.

System action

None

System programmer response

None

GPM267I**VALUE *xxxx* IS NOT ALLOWED FOR OPTION *yyyyy*****Explanation**

The specified option value is not allowed or is outside the allowed range for the option.

System action

The server is terminated immediately.

System programmer response

Correct the erroneous configuration file.

GPM268I**PERMANENT ERROR IN HTTP SERVER THREAD****Explanation**

The DDS host server has detected that the component processing incoming HTTP session requests has abnormally terminated. The most probable cause of this problem is that TCP/IP is inactive or has produced an error.

System action

The DDS tries to restart the component. If the restart attempt is unsuccessful, the component is deactivated.

System programmer response

Make sure that all required prerequisites for the component are operational (for example, TCP/IP). Make sure that the specified port in the GPM4CIM configuration file (HTTP_PORT option) is free and can be used by the DDS.

GPM269S**SEVERE ERROR: ALLOCATION FAILED FOR CACHE STORAGE IN
FUNCTION *function_name*****Explanation**

The server has detected a problem when trying to allocate additional storage for the data cache. The most probable cause for this problem is, that the REGION size is too small.

System action

The server is terminated with a fatal error.

System programmer response

- Increase the REGION parameter on the JOB or EXEC record.
- Make sure that the requested region size is really available to the server program (check that the system exit IEFUSI does not reduce the requested region size).
- Reduce the number of cache slots in the GPM4CIM configuration file (CACHESLOTS option). The default number of slots is 4.

GPM271S

**REGION SIZE IS TOO SMALL FOR THE SPECIFIED NUMBER OF
CACHESLOTS**

Explanation

The estimated storage size for the data cache exceeds the virtual storage size for the server address space. The DDS server calculates the required storage size by multiplying the measured size for the first cache slot with the number of configured cache entries (see CACHESLOTS parameter in GPM4CIM configuration file). The most probable cause for this problem is, that the REGION size is too small.

System action

The server is terminated with a fatal error.

System programmer response

Check the following items:

- Increase the REGION size parameter on the JOB or EXEC card.
- Make sure that the requested region size is really available to the server program, for example, check that the IEFUSI system exit does not reduce the requested region size.
- Reduce the number of cache slots in the GPM4CIM configuration file (CACHESLOTS option). The default number of slots is 4, the minimum number is 3.

GPM273I

CANNOT BIND TO TCP/IP PORT *nnnn* ON *xxxxxx*

Explanation

The DDS server is unable to use one of the configured TCP/IP ports on the host. The most probable reason for that message is, that another application or another copy of the DDS server is already using the port.

System action

The server is terminated.

System programmer response

Check that no other application is running that is using the specified port number and that no second copy of the DDS server is running, that uses the specified port.

GPM274I

**FAILURE CREATING REGULAR EXPRESSION FOR {HTTP_ALLOW |
HTTP_NOAUTH}**

Explanation

The HTTP_ALLOW or HTTP_NOAUTH specification in the GPM4CIM configuration file contains invalid data.

System action

The server is terminated immediately.

System programmer response

Correct the erroneous configuration file.

| | |
|----------------|---|
| GPM275I | UNEXPECTED LOGIC ERROR IN GPM4CIM. SERVER WILL BE SHUT DOWN. |
|----------------|---|

Explanation

An internal unexpected logic error occurred in the DDS.

System action

The DDS host server is terminated.

User response

Report the problem to the IBM Support Center.

| | |
|----------------|---|
| GPM276I | GPM4CIM REGISTER ERROR. UNEXPECTED RETURN CODE FROM IWMSRSG. |
|----------------|---|

Explanation

The DDS encountered an unexpected return code from IWMSRSG during registration for sysplex routing.

System action

The DDS was not able to register itself to sysplex routing.

System programmer response

Verify the access definitions for the DDS. The calling DDS userID must either have the attribute TRUSTED or must have explicit READ access to the BPX.WLMSEVER Facility. Otherwise, the DDS cannot propagate hostname and port number for potential exploiters.

| | |
|----------------|---|
| GPM278I | GPM4CIM HAS LOST TCPIP CONNECTIVITY ON PORT <i>port</i>. |
|----------------|---|

Explanation

TCPIP connectivity on the indicated port is no longer available.

System action

GPM4CIM tries to reconnect until TCP/IP is available again. When GPM4CIM has successfully reconnected, message GPM279I is issued.

| | |
|----------------|---|
| GPM279I | GPM4CIM HAS REINSTATED TCPIP CONNECTIVITY ON PORT <i>port</i>. |
|----------------|---|

Explanation

TCPIP connectivity is available again on the indicated port.

System action

Requests on this port are serviced again by GPM4CIM.

| | |
|----------------|--|
| GPM280I | RMF XP INTERVAL PROCESSING COMPLETE |
|----------------|--|

Explanation

RMF XP has completed the processing for the current interval. The most recent data from the remote systems is now available for reporting.

System action

RMF XP waits for the next interval completion according to the INTERVAL parameter specified in the configuration file. If SMF recording is active, RMF XP writes the SMF 104 records.

| | |
|----------------|---|
| GPM281E | ERROR DURING RMF XP SMF RECORDING. CODE=xxxx. ERRNO2=yyyy. TYPE=type(subtype). |
|----------------|---|

Explanation

RMF XP was unable to write SMF records. The z/OS UNIX System Services return code (CODE) and reason code (ERRNO2), and the type and subtype (TYPE) of the requested SMF record are reported.

System action

RMF XP continues without SMF recording.

Operator response

Notify your system programmer.

System programmer response

Examine the error codes and correct the problem. For information on the return or reason codes, see *z/OS UNIX System Services Messages and Codes*.

In case of a permanent error, contact the IBM Support Center.

| | |
|----------------|--|
| GPM283E | LOGIN FOR USER <i>userid</i> REJECTED. ERROR DURING RACF CHECK. ERRNO=xxxx. |
|----------------|--|

Explanation

The user could not login to the DDS server. The z/OS UNIX System Services return code (ERRNO) is reported.

System action

The DDS server continues processing.

Operator response

Notify your system programmer.

System programmer response

Examine the return code and correct the problem. For information on the return code, see *z/OS UNIX System Services Messages and Codes*.

When the return code EPERM is reported, the RMF XP server has no read access to the BPX.SERVER FACILITY.

Your security product may have displayed additional messages.

| | |
|-----------------|---|
| GPM0111I | No resources or work scopes available. |
|-----------------|---|

Explanation

Trying to request resources or work scopes from the DDS failed because no host connection is established or RMF is not started.

System action

No resources can be supplied in the list.

User response

Report the problem to the IBM Support Center.

GPM0112I Invalid simple filter expression.

Explanation

The filter expression is not valid.

User response

Enter a correct pattern or delete the pattern.

One or more name patterns in form of a simple expression to be matched against the names in the list of (name,value)-pairs can be entered in the entry field.

Example: Define a filter for job names

- XJSMITH1
- *MASTER*
- All BAxx, where xx is any two characters
- All starting with CIC
- All with HOT somewhere in the name

You have to specify in the entry field: XJSMITH1 | *MASTER* | BA?? | CIC* | *HOT*

The list below the entry field provides valid names that can be used as patterns. Selecting a name in the list chains it with a '|' to the existing pattern in the entry field. The '|' character means 'or'.

GPM0113I Upper or lower bound is not a value.

Explanation

Either the upper or the lower bound is not a decimal number.

User response

Enter a decimal number in either the upper bound or the lower bound.

GPM0114I Lower bound is greater than upper bound.

Explanation

If both upper and lower bound are specified, the upper bound must be greater or equal to the lower bound.

User response

Enter an upper bound greater or equal to a lower bound or delete a bound.

GPM0115I List limit is not an integer greater than 0.

Explanation

The list length must be a positive integer.

User response

Enter a valid number.

GPM0122I RMF PM sysplex *sysplex* is not open.

Explanation

The dialog requires the sysplex to be open.

User response

Use **File > Open > Sysplex** in RMF PM to open it.

GPM0133I RMF PM sysplex *sysplex* closed unexpectedly.

Explanation

While a Dataview requested data from the host, the sysplex was found closed. This may have been caused by a previous communication error, which caused the sysplex to close or by closing the sysplex manually.

User response

Look for previous error messages to examine the reason for the communication problem, remove it and re-open the sysplex.

GPM0141I Work scope name *scope_name* ignored for work scope type **total**.

Explanation

A work scope name was entered in the work scope dialog, but for work scope 'total' any work scope names are ignored. This is just an informational message.

User response

Remove the work scope name from the entry field.

GPM0142I Work scope name required for work scope type *scope_type*.

Explanation

For the indicated work scope type, a work scope name is required.

User response

Enter a valid work scope name. For specific work scope types, the work scope name can be one of the following:

- For 'J' enter a Jobname
- For 'W' enter a WLM workload name
- For 'S' enter a WLM service class name
- For 'P' enter a WLM service class period name
- For 'R' enter a WLM report class name
- For 'K' enter a WLM report class period name

GPM0143I**Work scope name *scope_name* requires a separator between service class and service class period.****Explanation**

The work scope name must be of the form *sclass.periodnumber*. The *sclass* must be a valid service class name, and the *periodnumber* must be in the range 1 - 8. The dot separates the period number from the service class.

User response

Enter a valid work scope name.

GPM0144I**Work scope ULQ *scope_ulq* is longer than 8 characters.****Explanation**

The upper-level qualifier of the work scope name can consist of up to 8 characters.

User response

Enter a valid work scope name.

GPM0146I**Work scope *scope_name* period is invalid.****Explanation**

The work scope name must be of the form *sclass.periodnumber*. The *sclass* must be a valid service class name, the *periodnumber* must be in the range 1 - 8. The dot separates the period number from the service class.

User response

Enter a valid work scope name.

GPM0147I**No period separator allowed for work scope *scope_name*.****Explanation**

The work scope name entered must not contain a separator.

User response

Enter a valid work scope name or select a name from the list.

GPM0148I**Work scope *scope_name* name is longer than *nn* characters.****Explanation**

The work scope name must not be longer than the maximum number of characters allowed for this work scope.

User response

Enter a valid work scope name or select one from the list.

GPM0161I**Resource name *resource_name* is not valid.****Explanation**

The resource name entered is not of the form indicated for the text field.

User response

Enter a valid resource name.

| | |
|----------|--|
| GPM0401I | The host name <i>host</i> could not be resolved. |
|----------|--|

Explanation

The specified hostname is unknown to TCP/IP on the workstation.

System action

The communication with the host cannot be established.

User response

Ensure that your TCP/IP configuration is correct and that the host name can be resolved by a name server. Check the **File > Change Settings > Sysplex** dialog in the RMF PM Java client.

| | |
|-----------------|---|
| GPM0402I | The host <i>host</i> is not responding on port <i>port_number</i> . |
|-----------------|---|

Explanation

Cannot connect to the specified host.

System action

The communication with the host cannot be established.

User response

Verify that the RMF DDS server is started and uses the expected port number.

| | |
|-----------------|--|
| GPM0403I | Bad read/write operation for host <i>host</i> was detected by the client. |
|-----------------|--|

Explanation

A network operation between the DDS on the host and RMF PM on the workstation failed. RMF PM on the workstation detected an error, so that the request or the response cannot be processed.

System action

The communication with the DDS host server is terminated.

User response

See file gpmcom.err in the private directory on the workstation for more details. Default location:

C:\Documents and Settings\Administrator\
Application Data\RMF\RMF Performance Monitoring\
private\gpmcom.err).

Retry connecting to the host. If the connection fails, a temporary network problem might be the reason.

| | |
|-----------------|---|
| GPM0404I | Time-out waiting for response from host <i>host</i> port <i>port_number</i>. |
|-----------------|---|

Explanation

While trying to receive data from the host, a time-out occurred.

System action

The host is unable to send the data.

User response

Check if the host is still reachable and the DDS is still running, then try to reconnect.

You may change the time-out value in the **File > Change Settings > Sysplex** dialog in the RMF PM Java client.

GPM0405I **Data read from host *host* is incomplete.**

Explanation

Less data than expected was received from the host.

System action

The RMF PM client cannot process the response from the DDS server on the host.

User response

A possible cause for this error is that the maximum number of clients of the host DDS server is exceeded. Please change your definition on the host to allow more clients. Examine the GPMCOM.ERR file in the private directory on the workstation to get more details. Default location:

```
C:\Documents and Settings\Administrator\
Application Data\RMF\RMF Performance Monitoring\
private\gpmcom.err).
```

Contact IBM Support.

GPM0406I **Parameters in the request to host *host* are not valid.**

Explanation

Any parameters in the request to the host are either null or have a value that is not valid.

System action

The request to the host is not performed.

User response

Report the problem to the IBM Support Center.

GPM0407I **No route to host *host* established in reasonable time.**

Explanation

No connection to the host could be established in the time specified by the system.

System action

The client could not establish a connection.

User response

Find out whether there is a problem with the host.

GPM0451I **The TCP/IP Communications Server on the host *host* encountered an internal error during the RECEIVE call.**

Explanation

The communication is broken because the DDS host server is not able to receive data from the workstation with the RMF PM client.

System action

The communication with the host is disrupted.

User response

Perform a new logon to the host in order to reconnect. If the problem persists, report it to the IBM Support Center.

| | |
|-----------------|--|
| GPM0452I | Userid <i>user_id</i> on host <i>host</i> is not authorized or password is invalid, expired or revoked. |
|-----------------|--|

Explanation

1. The specified password is not authorized.
2. The password has expired.
3. The user's access to the system has been revoked.
4. The GPMSEVERE application is protected by a profile in the RACF APPL CLASS. The user has no read access to this profile.

System action

The host rejects the logon attempt.

User response

1. Specify the correct password.
2. Change the password via TSO logon.
3. Inform your security administrator to resume your userID.
4. Correct the security setup for the userID to provide access to the GPMSEVERE application.

| | |
|-----------------|--|
| GPM0453I | The userid <i>user_id</i> is not defined on host <i>host</i>. |
|-----------------|--|

Explanation

The specified userID is not defined to the system.

System action

The host rejects the logon attempt.

User response

Retry with a correct user ID or contact your security administrator.

| | |
|-----------------|--|
| GPM0454I | z/OS Security Server (RACF) installation problem on host <i>host</i>. |
|-----------------|--|

Explanation

The security setup for the RMF DDS server component is not correct.

System action

The host rejects the logon attempt.

System programmer response

Correct the security setup for the RMF DDS server. See *z/OS Resource Measurement Facility User's Guide* for more information.

GPM0455I**A communication error was detected on the host *host*.**

Explanation

While processing the request from the workstation, the DDS host server detected an error, so that the request cannot be processed.

System action

The communication with the host is terminated.

User response

Retry connecting to the host. If connection fails, a temporary network problem might be the reason.

GPM0456I**The userID *user_id* is not authorized to retrieve RMF performance data.**

Explanation

The specified userID has insufficient RACF authorization. READ access to RACF resource ERBSDS.MON3DATA of class FACILITY is not granted.

System action

The host rejects the performance data retrieval attempt.

User response

Correct the security setup for the userID. See *z/OS Resource Measurement Facility User's Guide* for more information.

GPM0500I**The RMF Sysplex Data Server returned with an unexpected error from system *system*. RC: *rc* RSN: *rsn*.**

Explanation

During data retrieval from one or more system(s), an unexpected error has occurred.

System action

The request is aborted with an error.

System programmer response

Check the return and reason code in *z/OS Data Gatherer Programmer's Guide*. If you cannot solve the problem, report it to the IBM Support Center.

GPM0501I**The data retrieved by DDS may be inconsistent due to a change of the WLM service policy or a change of the active installation performance specification (IPS). Sysplex *sysplex_1* - *sysplex_n*.**

Explanation

During the requested range, a MODIFY WLM or a SET IPS command has been issued.

System action

None.

User response

None.

| | |
|-----------------|--|
| GPM0502I | DDS has returned partial data because time gaps have been detected. |
|-----------------|--|

Explanation

Data gathering has been stopped during the requested range or partial data could not be found in the buffer.

System action

None.

System programmer response

Run Monitor III Data Gatherer contiguously with a sufficient buffer size and sufficient space in VSAM data sets.

| | |
|-----------------|--|
| GPM0504I | The data retrieved by DDS may be inconsistent due to a change of the WLM service policy. Sysplex <i>sysplex_1</i> - <i>sysplex_n</i>. |
|-----------------|--|

Explanation

During the requested range, a MODIFY WLM command has been issued.

System action

None.

User response

None.

| | |
|-----------------|--|
| GPM0505I | The data retrieved by DDS may be inconsistent due to a change of the RMF cycle time. Sysplex <i>sysplex_1</i> - <i>sysplex_n</i>. |
|-----------------|--|

Explanation

During the requested range, a MODIFY RMF command has been issued.

System action

None.

User response

None.

| | |
|-----------------|---|
| GPM0506I | IPL/REBOOT detected in the specified time range. |
|-----------------|---|

Explanation

During the requested range, an IPL or REBOOT has been performed. The requested data cannot be retrieved for a time range that spans an IPL or REBOOT.

System action

None.

User response

None.

GPM0507I DDS could not retrieve data for the specified date and time range.

Explanation

The requested data could not be found in the Monitor III in-storage buffer or VSAM data sets.

System action

None.

User response

Specify a different time range. If sysplex data was requested, verify that Monitor III Data Gatherers are active on all systems.

GPM0509I DDS could not retrieve data because of an internal error.

Explanation

The DDS could not obtain RMF data because of one of the following reasons:

- Too many reporters tried to get data from the in-storage buffer.
- The cross-memory move from the in-storage buffer failed.
- The data request occurred, when the data gatherer was updating the in-storage buffer.

System action

None.

System programmer response

If the problem persists, report it to the IBM Support Center.

GPM0511I Data gatherer has just been started and cannot yet return data.

Explanation

The Monitor III Data Gatherer has just been started and is not yet able to return valid data.

System action

None.

User response

Retry the request later.

| | |
|-----------------|--|
| GPM0512I | The RMF Sysplex Data Server could not return the requested data due to a timeout. |
|-----------------|--|

Explanation

The timeout interval length for the data retrieval has been exceeded.

System action

None.

System programmer response

Make sure that the connections to all systems in the sysplex are operational. Try to access other systems in the sysplex from a Monitor III ISPF reporter session. If the problem persists, report it to the IBM Support Center.

| | |
|-----------------|---|
| GPM0551I | The RMF Sysplex Data Server is not active. |
|-----------------|---|

Explanation

RMF is inactive or has been stopped at the connected system.

System action

None.

System programmer response

Start the local RMF address space.

| | |
|-----------------|---|
| GPM0552I | None of the system(s) specified for the request was active in the sysplex. |
|-----------------|---|

Explanation

The specified system names are not valid or the systems have been stopped.

System action

None.

User response

Check the system names or join the systems to the sysplex.

| | |
|-----------------|--|
| GPM0553I | The RMF Sysplex Data Server returned no data. |
|-----------------|--|

Explanation

The requested data is not available for the specified time range.

System action

None.

User response

Specify the appropriate date, time, and range for your request.

| | |
|-----------------|---|
| GPM0554I | DDS could not retrieve data - Monitor III Data Gatherer is not active. |
|-----------------|---|

Explanation

The Monitor III data gatherer is inactive on the systems specified with the request.

System action

None.

System programmer response

Start the Monitor III Data Gatherer on the systems where you are requesting data.

| | |
|-----------------|---|
| GPM0555I | The RMF Sysplex Data Server encountered a severe error (RC: <i>rc</i>, RSN: <i>rsn</i>). |
|-----------------|---|

Explanation

During data retrieval from the sysplex, a severe error condition has occurred.

System action

None.

System programmer response

Check the return and reason codes in *z/OS Data Gatherer Programmer's Guide*. If you cannot solve the problem, report it to the IBM Support Center.

| | |
|-----------------|--|
| GPM0600I | The Monitor III reporter returned with an unexpected return code. Report: <i>report</i>. RC: <i>rc</i> RSN: <i>rsn</i>. |
|-----------------|--|

Explanation

During data retrieval from Monitor III report data, an unexpected error has occurred.

System action

None.

System programmer response

Report the problem to the IBM Support Center. Please note that this message might indicate that your OS/390 or z/OS release is back-level, so that the desired data is not available on the host.

| | |
|-----------------|---|
| GPM0601I | DDS data is incomplete - configuration may have changed. |
|-----------------|---|

Explanation

During the requested range, a dynamic I/O configuration change has been performed.

System action

None.

User response

None.

| | |
|-----------------|---|
| GPM0602I | DDS data is incomplete - Monitor I interval has changed. |
|-----------------|---|

Explanation

During the requested range, one or more Monitor I intervals have been completed.

System action

None.

User response

None.

| | |
|-----------------|---|
| GPM0603I | DDS could not retrieve the requested data. The system may run as a z/VM or alternate VM guest. |
|-----------------|---|

Explanation

When z/OS is running as a z/VM or alternate VM guest, no measurement data, such as channels data or LCU data is available.

System action

None.

User response

None.

| | |
|-----------------|--|
| GPM0604I | DDS could not retrieve the requested data. CPMF is unavailable or has been restarted. |
|-----------------|--|

Explanation

The channel path measurement facility (CPMF) either is not active or has been restarted during the selected range. No measurement data for channels is available.

System action

None.

User response

None.

| | |
|-----------------|---|
| GPM0605I | DDS could not retrieve the requested data. The requested job is currently not in the system. |
|-----------------|---|

Explanation

The job specified with the request could not be found.

System action

None.

User response

None.

GPM0606I**DDS could not retrieve the requested data. No subsystem work manager delays available.****Explanation**

The selected service class has no subsystem delays.

System action

None.

User response

None.

GPM0607I**DDS could not retrieve the requested data. Private storage area too small.****Explanation**

The requested report data did not fit into the private storage.

System action

None.

System programmer response

Run the RMF address space with a larger region size parameter.

GPM0612I**DDS could not retrieve the requested data. VSM tracking not active.****Explanation**

Virtual storage tracking is inactive or has been partially deactivated. No common storage data could be obtained.

System action

None.

System programmer response

Activate VSM tracking contiguously.

GPM0615I**DDS could not retrieve the requested data. General information data is not available.****Explanation**

A data gatherer module may have ended due to a permanent error. Valid general information data could not be gathered.

System action

None.

System programmer response

Report the problem to the IBM Support Center.

GPM0617I**DDS could not retrieve the requested data. IOSUB option not specified.****Explanation**

The RMF Monitor III Data Gatherer was started with the option NOIOSUB. No data for the I/O subsystem has been gathered.

System action

None.

System programmer response

Verify the following conditions:

- Verify, that the Monitor I gatherer runs with the IOQ option
- If z/OS is running as a guest under z/VM or alternate VM guest, make sure that the RMCHINFO option is activate in the z/VM or alternate VM directory entry for the virtual machine.
- Start the Monitor III Data Gatherer with the option IOSUB.

GPM0619I**DDS could not retrieve the requested data. Monitor I gatherer data not available. ERBSMFI RC: rc.****Explanation**

The Monitor I gatherer is either inactive or does not collect I/O queuing related data. This may be caused by the option NOIOQ, or the system may run as z/VM or alternate VM guest and the RMCHINFO entry in the z/VM or alternate VM user directory has not been specified for the guest system.

System action

None.

System programmer response

Restart the Monitor I gatherer with the option IOQ and/or specify RMCHINFO in case of a second level z/OS system.

GPM0620I**I/O subsystem data collection is not supported on this processor. ERBSMFI RC: rc.****Explanation**

The system runs on a 4381/3080x processor. I/O subsystem data collection is not supported.

System action

None.

User response

None.

GPM0621I**DDS could not retrieve the requested data. Channel measurements not active.****Explanation**

The channel measurement facility has not been started by SRM.

System action

None.

User response

None.

GPM0622I

DDS could not retrieve the requested data. Diagnose interface failure.

Explanation

The diagnose interface for retrieving IOQ data returned with a severe error.

System action

None.

User response

None.

GPM0624I

Goal mode data for some systems is missing.

Explanation

Some systems in the sysplex did not return data. This may be caused by the following reasons:

- The gatherer is not running on a system or the gatherer could not successfully obtain data.
- There is a mismatch between the gatherer options.
- You are using the default service policy. The default policy causes the systems in the sysplex to run independently of each other, and data cannot be combined into a sysplex-wide report.

System action

DDS retrieves data from the remaining systems.

User response

Ensure that RMF and the Monitor III Data Gatherer are running on all systems in the sysplex.

GPM0625I

DDS could not retrieve the requested data. The creation of the report report caused an abend *abend_code*. Sysplex *sysplex_1* - *sysplex_n*.

Explanation

The access to the requested data has caused a severe error condition. The affected module has ended abnormally. However, the data collection could be continued and partial performance data is available.

System action

The data collection for one or more reports is skipped for the current request. For subsequent requests, the creation of the affected report will be retried.

User response

Report the problem to the IBM Support Center.

GPM0626I

The metric *metric* is not defined for the resource type *resource_type* and work scope *scope_name*.

Explanation

The performance metric is not defined for the resource type and the specified work scope.

System action

No data is returned.

User response

Specify a valid combination of metric and resource type. Please note that this message might indicate that your OS/390 or z/OS release is back-level so the data you are asking for are not available on the host.

Work scope types are identified by:

- 'J' for Jobs
- 'W' for WLM workloads
- 'S' for WLM service classes
- 'P' for WLM service class periods
- 'R' for WLM report classes
- 'G' for total work scope

| | |
|-----------------|---|
| GPM0627I | No data: memory objects are currently not allocated in the system. |
|-----------------|---|

Explanation

Within the current report interval, RMF did not detect any address spaces dealing with memory objects.

System action

None.

User response

None.

| | |
|-----------------|--|
| GPM0628I | No data: system resource locks were not held when Monitor III sampled data or Monitor III gatherer option LOCK not specified. |
|-----------------|--|

Explanation

Within the current report interval, RMF did not detect any lock contention. This is caused by one of the following reasons:

- No system resource locks were held when Monitor III sampled data.
- Lock data was not collected (Monitor III gatherer option NOLOCK was specified).

System action

None.

System programmer response

Start the Monitor III gatherer with the option LOCK.

| | |
|-----------------|---|
| GPM0630I | No data: either OMVS is not active or ZFS is not active (shutting down) or ZFS gatherer not active or no data from zFS interface |
|-----------------|---|

Explanation

Within the current report interval, RMF did not detect any zFS data. This is caused by one of the following reasons:

- OMVS is not active (or not available).
- zFS is not active or shutting down.
- Back-level data or no data from the zFS interface.
- The interface to zFS services (subtask GRB3GZFX) suffered a timeout.

System action

None.

User response

Start the Monitor III gatherer with the option ZFS or contact your system programmer.

GPM0631I

No data: no file system found

Explanation

Within the current report interval, RMF did not detect any zFS data for the file system.

System action

None.

User response

None.

GPM0632I

No data: PCIE activity data is currently not available

Explanation

Within the current report interval, RMF did not detect any PCIE activity. This is caused by one of the following reasons:

- There was no PCIE activity.
- PCIE activity data was not collected (Monitor III Gatherer option NOPCIE was specified).

System action

None.

System programmer response

Start the Monitor III gatherer with the PCIE option.

GPM0633I

No data: EADM activity data is currently not available.

Explanation

Within the current report interval, RMF can not report any extended asynchronous data mover (EADM) activity. This could be caused by any of the following reasons:

- EADM activity data was not collected (Monitor III Gatherer option NOEADM was specified).
- EADM is not supported by the processor.

System action

None.

System programmer response

Start the Monitor III gatherer with the EADM option.

| | |
|-----------------|---|
| GPM0634I | No data: CRYPTO hardware activity data is currently not available. |
|-----------------|---|

Explanation

Within the current report interval, RMF cannot report any cryptographic hardware activity. This might be caused by any of the following reasons:

- CRYPTO activity data was not collected (Monitor III Gatherer option NOCRYPTO was specified).
- Cryptographic hardware is not available.
- Cryptographic hardware is not supported by the processor.

System action

None.

User response

Start the Monitor III gatherer with the option CRYPTO or contact your system programmer.

| | |
|-----------------|---|
| GPM0635I | No data: No resource groups are defined in the WLM policy. |
|-----------------|---|

Explanation

The WLM policy does not have any resource groups or tenant resource groups defined.

System action

None.

User response

None.

| | |
|-----------------|--|
| GPM0700I | A program error was detected in function <i>function</i>, at line <i>line_number</i> on the host. Module name: <i>module</i>. |
|-----------------|--|

Explanation

The DDS host server encountered a program error.

System action

RMF PM may or may not continue depending on the severity of the error.

System programmer response

Try to reproduce the problem with the trace for the host server address space (GPMSERVE) enabled. Report the problem to the IBM Support Center and supply the collected information.

| | |
|-----------------|---|
| GPM0702I | Requested metric <i>metric</i> is incomplete. No performance data or incomplete data returned from system <i>system</i>. |
|-----------------|---|

Explanation

The performance data request has been routed to all systems within the sysplex. Either no valid counters or warning messages returned from one or more systems. For instance, this message may occur, when I/O subsystem data has been requested and the Monitor I interval has changed during the affected time range.

System action

None.

User response

Verify that the Monitor III Data Gatherer is active on all systems. To identify the detailed reason for the warning or error condition, you can submit the same data request against the affected MVS images instead of the sysplex wide request.

| | |
|-----------------|--|
| GPM0704I | Details for <i>resource name</i> unavailable or incomplete. |
|-----------------|--|

Explanation

The details data for the named resource could not be retrieved successfully. One or more details are missing.

System action

None.

User response

Verify that the Monitor III Data Gatherer is active on all systems. If the missing details are taken from a report which is excluded with the EXCLUDE_REPORTS option in the active GPMSRVxx member, remove the report from that option and restart the DDS.

| | |
|-----------------|---|
| GPM0705I | Resource list for Sysplex <i>sysplex</i> not available. No resource data returned. |
|-----------------|---|

Explanation

The resource data request has been routed to all systems within the sysplex. No valid resources were returned.

System action

None.

User response

Verify that the Monitor III Data Gatherer is active on all systems.

| | |
|-----------------|---|
| GPM0706I | Resource list for Sysplex <i>sysplex</i> is incomplete. No resource data returned from system <i>system</i>. |
|-----------------|---|

Explanation

The resource data request has been routed to all systems within the sysplex. One or more systems did not return resources for the list.

System action

None.

User response

Verify that the Monitor III Data Gatherer is active on all systems.

| | |
|-----------------|--|
| GPM0709I | The <i>filter</i> filter for <i>metric</i> has caused no data to be returned (reason: <i>reason</i>). |
|-----------------|--|

Explanation

You requested a list-valued metric and also specified a filter string. When the filter was applied to the list-valued metric, no data passed the filter. For example: you select 'response time by volume' and a filter to select only volumes starting with 'AB*'. If no volumes starting with the characters 'AB' are found, no data can pass the filter.

The filter pattern can contain the following tags:

PAT=<pattern>

The pattern to select the list items by their name.

HI=<n>

The n items with the highest values are kept.

LO=<n>

The n items with the lowest values are kept.

UB=<value>

Only data with values less than specified <value> are kept in the list.

LB=<value>

Only data with values greater than specified <value> are kept in the list.

ORD=<order>

Sort order of list.

System action

No data is returned.

User response

Verify that your filter specification is correct.

| | |
|-----------------|---|
| GPM0710I | Workload <i>workload</i> is not defined in the active WLM policy for metric <i>metric</i>. |
|-----------------|---|

Explanation

The specified workload is currently not active on the specified sysplex.

System action

No data is returned.

User response

Verify that your work scope specification is correct.

| | |
|-----------------|---|
| GPM0711I | Service class <i>service_class</i> is not defined in the active WLM policy for metric <i>metric</i>. |
|-----------------|---|

Explanation

The specified service class is currently not active on the specified sysplex.

System action

No data is returned.

User response

Verify that your work scope specification is correct.

| | |
|-----------------|---|
| GPM0712I | Service class period <i>service_class_period</i> is not defined in the active WLM policy for metric <i>metric</i>. |
|-----------------|---|

Explanation

The specified service class period is currently not active on the specified sysplex.

System action

No data is returned.

User response

Verify that your work scope specification is correct.

| | |
|-----------------|---|
| GPM0713I | Report class period <i>report_class_period</i> is not defined in the active WLM policy for metric <i>metric</i>. |
|-----------------|---|

Explanation

The specified report class is currently not active on the specified sysplex.

System action

No data is returned.

User response

Verify that your work scope specification is correct.

| | |
|-----------------|---|
| GPM0714I | The specified job <i>job</i> was not found for metric <i>metric</i> on system <i>system</i>. |
|-----------------|---|

Explanation

You specified a job in the work scope specification dialog, but this job is currently not active on the specified system or does not have valid data for the specified metric.

System action

No data is returned.

User response

Verify that the work scope specification is correct and that the specified job is running.

| | |
|-----------------|--|
| GPM0715I | The specified resource <i>resource_name</i> was not found for metric <i>metric</i> on system <i>system</i>. |
|-----------------|--|

Explanation

You specified a resource in the 'Series Definition' dialog, but this resource is currently not active on the specified system.

System action

No data is returned.

User response

Verify that the resource specification is correct.

| | |
|-----------------|--|
| GPM0716I | The metric <i>metric</i> cannot return valid data for the specified work scope <i>scope_name</i>. |
|-----------------|--|

Explanation

The specified metric is either undefined for the specified work scope or currently does not have valid data to return.

System action

A value of 0 is returned.

User response

Verify that the work scope specification is correct and that the metric is valid for the specified work scope.

| | |
|-----------------|---|
| GPM0717I | The metric <i>metric</i> cannot return valid data for the specified resource <i>resource_name</i> on system <i>system</i> sysplex <i>sysplex_1</i> - <i>sysplex_n</i>. |
|-----------------|---|

Explanation

The specified metric is either undefined for the specified resource or currently does not have valid data to return.

System action

A value of 0 is returned.

User response

Verify that the specified metric is valid for the specified resource.

| | |
|-----------------|---|
| GPM0718I | No RMF data gatherer can provide data for metric <i>metric</i> on resource <i>resource_name</i>. |
|-----------------|---|

Explanation

The specified metric can only be obtained if an RMF data gatherer is able to collect the data for the specified resource. This message is issued if you are requesting data for a partition, but one of the following conditions is met:

- The partition is an ICF or IFL partition.
- This is not a z/OS partition.
- RMF Monitor III Data Gatherer is not active in this partition.

System action

No data can be returned.

User response

Select another partition.

GPM0719I**Partition type does not exist in this CPC.****Explanation**

You selected either CP or ICF/IFL partition, but there is no partition of this type defined in the Central Processing Complex.

System action

No data can be returned.

User response

Use a valid partition type.

GPM0720I**The metric *metric* is no longer supported in this RMF release.****Explanation**

The specified metric has been deleted and is not supported in this RMF release.

System action

No data can be returned.

User response

Select another metric.

GPM0721I**The metric is not supported by the RMF release installed on the system.
Diagnose data=*diagnose*.****Explanation**

The specified metric is not supported on this system. Probably, the Monitor III data gatherer option for the requested data is inactive.

System action

No data can be returned.

User response

Select another metric. If the corresponding Monitor III data gatherer option is inactive, restart the Monitor III data gatherer with the option activated.

GPM0731I**The specified system *system* is not a member of Sysplex *sysplex*.****Explanation**

The specified system is not a member of the sysplex.

System action

No data can be returned.

User response

Correct the system specification of your metric.

GPM0732I**The specified system *system* currently does not return data.****Explanation**

The specified system is a member of the sysplex, but currently does not return data. Probably the Monitor III Data Gatherer is not running on that system or the system is currently unreachable.

System action

No data is returned from the specified system.

System programmer response

Make sure that the Monitor III Data Gatherer is running on the specified system and verify that all connections to the system are up and running.

User response

Notify your system programmer.

GPM0737I**The requested report *report_name* is deactivated.****Explanation**

The requested report has been deactivated by the option EXCLUDE_REPORTS in the active GPMSRVxx PARMLIB member.

System action

No report is returned.

User response

To activate the requested report, remove it from option EXCLUDE_REPORTS in the active GPMSRVxx member and restart the DDS.

GPM0738I**The requested metric is based on the deactivated *report_name* report.****Explanation**

The requested metric is based on a report that has been deactivated by the option EXCLUDE_REPORTS in the active GPMSRVxx PARMLIB member.

System action

No metric is returned.

User response

To activate the report, remove it from option EXCLUDE_REPORTS in the active GPMSRVxx member and restart the DDS.

GPM0730E**Error reading INI file on system: *system*.****Explanation**

The DDS host server could not read its initialization file or an error was detected reading the GPMINI file.

System action

No data can be returned.

System programmer response

Make sure that the job to start the server on the host has the correct GPMINI DD statement and that the initialization deck is not corrupted.

User response

Notify your system programmer.

| | |
|-----------------|--|
| GPM0739E | Invalid DDS request parameter <i>parameter</i>. |
|-----------------|--|

Explanation

The DDS received a request with an invalid parameter or an invalid parameter value.

System action

The request is not processed.

User response

Check the request for correctness of the specified parameter and issue the request again.

| | |
|-----------------|--|
| GPM0740E | The combination of parameters <i>param1</i> and <i>param2</i> is not allowed. |
|-----------------|--|

Explanation

The DDS received a request with an invalid combination of parameters.

System action

The request is not processed.

User response

Specify only one of the two parameters and issue the request again.

| | |
|-----------------|---|
| GPM0741E | No JCL supplied for RMF Postprocessor. |
|-----------------|---|

Explanation

The start procedure for the DDS does not contain a specification for the JCL template necessary to submit RMF Postprocessor jobs.

System action

The request is not processed.

User response

Specify a DD card pointing to a JCL template for the Postprocessor job.

| | |
|-----------------|--|
| GPM0742E | No control statements supplied for RMF Postprocessor. |
|-----------------|--|

Explanation

The module which connects to the RMF Postprocessor was called without supplying Postprocessor control statements.

System action

The request is not processed.

User response

Correct the request or the invocation of the module, or contact the IBM Support Center.

| | |
|-----------------|---|
| GPM0743E | The requested XML report is too large. |
|-----------------|---|

Explanation

The requested XML report is too large to be processed by the DDS.

System action

No XML answer is produced for the request.

User response

You can either

- reduce the number of requested report types
- reduce the number of requested intervals
- limit the content of requested reports

| | |
|-----------------|--|
| GPM0744E | Timeout occurred before RMF Postprocessor job end, no XML data transferred. |
|-----------------|--|

Explanation

The execution of the RMF Postprocessor job took longer than the timeout period defined with the request. Processing of the request is stopped. Another probable reason is that the job output from the Postprocessor job was not held on spool.

System action

No XML answer is produced for the request.

User response

Check and probably change the Postprocessor job settings, or change the timeout parameter in the HTTP request.

| | |
|-----------------|---|
| GPM0745E | No reportable data found for specified options (Reason: <i>reason_text</i>). |
|-----------------|---|

Explanation

The Postprocessor job was run, but did not return any XML data. The highest return code of the job is given with the error message.

System action

No XML answer is produced for the request.

User response

Check the Postprocessor job output directly. Probably, no SMF data is available to satisfy your request.

GPM0746E**Error while connecting to RMF Postprocessor (Reason: *reason_text*).**

Explanation

An internal error occurred while generating the Postprocessor job or reading its output. The reason is indicated with the error message.

System action

No XML answer is produced for the request.

User response

Contact your system programmer or the IBM Support Center.

GPM0747E**RMF Postprocessor reports are only available to the DDS with JES2.**

Explanation

The DDS runs on a system which uses a job entry system other than JES2. RMF Postprocessor XML reports can only be retrieved by a DDS on systems which use JES2.

System action

The request is not processed.

User response

Run the DDS on a system with JES2.

GPM0748W**Incomplete action or Postprocessor data (Reason: *reason_text*).**

Explanation

The Postprocessor job was successfully run, but the DDS did not return all output data or an action (for instance, deletion of job output) did not complete successfully.

System action

Either only a partial XML answer is produced for the request or the Postprocessor job output is not purged.

User response

Observe the *reason_text*, check the Postprocessor messages or the Postprocessor job directly. If job output could not be purged, examine your security definitions for the JESJOBS class.

GPM0749E**The provided JCL is not valid for this Postprocessor HTTP request.**

Explanation

The DDS uses a Postprocessor JCL template that is designed for the usage of SMF data sets and SMF logstream data, but this template does not contain the marker strings that are required for this functionality in the DDS.

System action:

The HTTP Postprocessor request is rejected.

User response

Correct the Postprocessor JCL template that is used with the GPMPPJCL DD card of the GPMSEVERE started task.

| | |
|----------------|--|
| GPM084I | HSTS value specified but HTTPS set to NO. HSTS will have no effect on connections that are not secured by AT-TLS. |
|----------------|--|

Explanation

HSTS only makes sense with HTTPS, provided by AT-TLS. If the DDS cannot detect active AT-TLS, it will continue to run, but HSTS will not be enabled.

System action

None.

User response

Ensure that AT-TLS is properly configured for the DDS. Set HTTPS (ATTLS) in the option member.

| | |
|-----------------|--|
| GPM0801I | A program error was detected in module <i>module</i>, function <i>function</i>, at line <i>line_number</i>, trace entry <i>entry</i> on the host. |
|-----------------|--|

Explanation

The DDS server encountered a program error.

System action

RMF PM may or may not continue depending on the severity of the error.

User response

Try to repeat the condition with the trace for the DDS server enabled. Report the problem to the IBM Support Center and supply information you collected.

| | |
|-----------------|--|
| GPM0802I | A program error was detected on the host. |
|-----------------|--|

Explanation

The DDS server encountered a program error which prevented the host from responding.

System action

RMF PM cannot continue to communicate with the DDS server on this sysplex.

User response

Try to repeat the condition with the trace on the host enabled. Report the problem to the IBM Support Center and supply information you collected.

| | |
|-----------------|--------------------------------------|
| GPM0804I | Request to host is not valid. |
|-----------------|--------------------------------------|

Explanation

The request to the host was not recognized as a message and therefore could not be decoded for further processing.

System action

RMF PM cannot continue to communicate with the DDS server on this sysplex.

User response

Report this error to the IBM Support Center.

| | |
|-----------------|---|
| GPM0805I | Request to the host cannot be decoded. |
|-----------------|---|

Explanation

The request to the host was recognized as a message but could not be decoded to a particular request for further processing.

System action

RMF PM cannot continue to communicate with the DDS server on this sysplex.

User response

Report this error to the IBM Support Center.

| | |
|-----------------|---|
| GPM0806I | The key of the request to the host is unknown. |
|-----------------|---|

Explanation

The request to the host was recognized as a message but the key in the message is unknown at the host.

System action

RMF PM cannot continue to communicate with the DDS server on this host.

User response

Report this error to the IBM Support Center.

| | |
|-----------------|---|
| GPM0807I | The host cannot satisfy a storage request. |
|-----------------|---|

Explanation

Trying to allocate an object on the host failed due to storage shortage.

System action

RMF PM cannot continue to communicate with this sysplex.

User response

Ensure that the DDS server obtains enough storage.

| | |
|-----------------|---|
| GPM0809I | Creating configuration information for resource <resource_ulq,resource_name,resource_type> on the host failed. |
|-----------------|---|

Explanation

Trying to create the configuration information <upper-level-qualifier,resource-name,resource-type> failed.

System action

The DDS server does not satisfy the request.

User response

Report this error to the IBM Support Center.

| | |
|-----------------|--|
| GPM0810I | Creating performance data for resource <resource_ulq,resource_name,resource_type> on the host failed. |
|-----------------|--|

Explanation

Trying to create the performance data for <upper-level-qualifier,resource-name,resource-type> failed.

System action

The DDS server does not satisfy the request.

User response

Report this error to the IBM Support Center.

| | |
|-----------------|---|
| GPM0811I | Creating work scope data for resource <resource_ulq,resource_name,resource_type> on the host failed. |
|-----------------|---|

Explanation

Trying to create the work scope data for <upper-level-qualifier,resource-name,resource-type> failed.

System action

The DDS server does not satisfy the request.

User response

Report this error to the IBM Support Center.

| | |
|-----------------|--|
| GPM0812I | Creating the sysplex data on the host failed. |
|-----------------|--|

Explanation

Trying to create the sysplex information on the host failed.

System action

The DDS server does not satisfy the request.

User response

Report this error to the IBM Support Center.

| | |
|-----------------|---|
| GPM0813I | Creating an error response on the host has failed. |
|-----------------|---|

Explanation

Trying to create an error response on the host failed.

System action

The DDS server cannot respond to the request.

User response

Report this error to the IBM Support Center.

| | |
|-----------------|---|
| GPM0814I | No data in response from the host. |
|-----------------|---|

Explanation

RMF PM received no data on a request, but also no error information.

System action

RMF PM cannot process the response.

User response

Report this error to the IBM Support Center.

| | |
|-----------------|---|
| GPM0901I | RMF PM detected an internal error. |
|-----------------|---|

Explanation

RMF PM detected a corrupted INI file.

System action

The application cannot be started.

User response

Reinstall RMF PM.

| | |
|-----------------|---|
| GPM0902I | RMF PM cannot find metrics <i>metrics</i>. |
|-----------------|---|

Explanation

RMF PM detected a program error, because it could not load a class.

System action

The application cannot continue.

User response

Report the problem to IBM Support Center and supply the message information.

| | |
|-----------------|---|
| GPM0903I | RMF PM cannot find resource types <i>resource_types</i>. |
|-----------------|---|

Explanation

RMF PM detected a program error, because it could not load a class.

System action

The application cannot continue.

User response

Report the problem to IBM Support Center and supply the message information.

GPM0904I**RMF PM had swapped reversed dates.**

Explanation

RMF PM found that the **From:** date was later than the **To:** date, and had to swap the values in order to sample in the time range specified.

System action

RMF PM swapped the reversed dates.

GPM1001E**GPM4CIM could not retrieve the requested data. The resource *resource* is not available.**

Explanation

The resource specified with the request could not be found.

System action

No data is returned.

User response

Verify that the resource specification is correct or that a resource of the requested type is configured in your system.

GPM1002E**GPM4CIM could not retrieve the requested data. The metric *metric* is not defined for the resource type *resource_type*.**

Explanation

The metric specified with the request is not defined for the resource type.

System action

No data is returned.

User response

Specify a valid combination of metric and resource type.

GPM1003E**GPM4CIM could not retrieve the requested data. No data returned for the specified metric *metric* from system *system*.**

Explanation

The metric specified with the request could not be retrieved from the CIM server on the target system.

System action

No data is returned.

System programmer response

Verify the CIM server setup and the setup for the CIM metric providers on the target system.

| | |
|-----------------|--|
| GPM1004E | GPM4CIM could not retrieve the requested data. The resource category <i>resource_category</i> is invalid. |
|-----------------|--|

Explanation

The resource category specified with the request could not be found.

System action

No data is returned.

User response

Verify that the resource category specification is correct.

| | |
|-----------------|---|
| GPM1005E | GPM4CIM could not retrieve the requested data. No connection could be established to the specified system <i>system</i>. |
|-----------------|---|

Explanation

The connection to the specified system failed.

System action

No data is returned.

System programmer response

Verify the network setup and the CIM server setup on the target system.

| | |
|-----------------|---|
| GPM1006E | Resource list for system complex <i>system_complex</i> not available. No resource data returned. |
|-----------------|---|

Explanation

The resource data request has been routed to all systems within the system complex. No valid resources were returned.

System action

None.

User response

Verify the network setup and the setup of the CIM servers and metric providers on all target systems.

| | |
|-----------------|---|
| GPM1007I | Resource list for system complex <i>system_complex</i> is incomplete. No resource data returned from system <i>system</i>. |
|-----------------|---|

Explanation

The resource data request has been routed to all systems within the system complex. One or more systems did not return resources for the list.

System action

None.

User response

Verify the network setup and the setup of the CIM servers and metric providers on all target systems.

GPM1008I

GPM4CIM could not retrieve complete data. Data gathering for system *system* has just been started.

Explanation

The data returned upon the request might be incomplete because data gathering has just been started on the monitored system.

System action

None.

User response

Wait for the next interval.

Chapter 3. RMF Spreadsheet Reporter messages

In case of errors during the conversion task, for example, when creating a working set from a report listing, the **RMF Spreadsheet Reporter** issues messages and refers to an error log where these messages are stored.

ERB9000A **PWS: Cannot open message file *mmmmm***

Explanation

The Spreadsheet Reporter was trying to open its message file *mmmmm* but could not find it.

User response

Reinstall the Spreadsheet Reporter.

ERB9001A **PWS: Cannot open report file *d:\ppp\xxxx***

Explanation

Trying to open the RMF report file *xxxx* in read mode for conversion failed.

User response

Report the problem to the IBM Support Center and send the error log together with the report listings or the Overview records.

ERB9003A **PWS: Program error in module *mmmm* line *llll***

Explanation

The Spreadsheet Reporter detected a program error in line *llll* of module *mmmm*.

User response

Note the message ID ERB9003, the module name *mmmm*, and the line number *llll*. Report the problem to the IBM Support Center and send the error log together with the report listings or the Overview records.

ERB9008A **PWS: Failed building report from source *sss*, generator *ggg*, type *ttt***

Explanation

The report source, generator, and type have been successfully detected but the initialization from further report data failed.

User response

Make sure the file is not corrupted and retry the action.

ERB9009A **PWS: Failed building Overview report**

Explanation

The report has been successfully detected but the initialization from its binary overview records failed.

User response

Regenerate the Overview report and try again.

Problem determination

Look for preceding messages that further explain the failure. Verify that the version of the Spreadsheet Reporter is the same or higher than the RMF report version. Try to determine whether the file is corrupted (has been edited and altered).

ERB9010A**PWS: Failed writing *WK1* file from *rrrr***

Explanation

An error was detected during writing the spreadsheet file with extension *WK1*. The reason could be in the *rrrr* input or in the spreadsheet file to be written.

User response

Retry the action after correcting the error reported by the preceding error messages.

Problem determination

Look for preceding messages that further explain the failure.

ERB9060A**PWS: Writing begin of spreadsheet file *sssss* failed**

Explanation

The Spreadsheet Reporter successfully opened the spreadsheet file, but failed to write to the file.

User response

Retry the action with a spreadsheet specification of a drive with enough space.

Problem determination

The drive to which the file should be written is probably full.

ERB9061A**PWS: Writing end of spreadsheet file *sssss* failed**

Explanation

The Spreadsheet Reporter successfully wrote almost all of the spreadsheet file, but failed to write the end of file information into the file.

User response

Retry the action with a spreadsheet specification of a drive with enough space.

Problem determination

The drive to which the file should be written is probably full.

ERB9065A**PWS: Write to spreadsheet column *ccc*, row *rrr* - limit failed**

Explanation

During writing to a spreadsheet, the Spreadsheet Reporter found that the limit for rows (8192) or for columns (256) in the spreadsheet file would be exceeded.

User response

Use the macro 'Filter DASD or Cache Reports' to reduce the amount of data in the report and retry the action with the filtered report.

Problem determination

The number of rows converted from an RMF report exceeded the limit for rows (8192).

ERB9080A**PWS: Writing *WK1* subreport trailer s failed**

Explanation

The error occurred while the Spreadsheet Reporter was converting subreport trailer part s and writing it to the spreadsheet file.

User response

Correct the errors and retry the action.

Problem determination

The reason for the failure is described in error messages preceding this error message in the error log. Verify that the version of the Spreadsheet Reporter is the same or higher than the RMF report version.

ERB9081A**PWS: Writing *WK1* range names s failed**

Explanation

The error occurred while the Spreadsheet Reporter was converting part s and writing range names to the spreadsheet file.

User response

Correct the errors and retry the action.

Problem determination

The reason for the failure is described in error messages preceding this error message in the error log. Verify that the version of the Spreadsheet Reporter is the same or higher than the RMF report version.

ERB9082A**PWS: Writing *WK1* values s failed**

Explanation

The error occurred while the Spreadsheet Reporter was converting part s and writing value ranges to the spreadsheet file.

User response

Correct the errors and retry the action.

Problem determination

The reason for the failure is described in error messages preceding this error message in the error log. Verify that the version of the Spreadsheet Reporter is the same or higher than the RMF report version.

ERB9083A**PWS: Writing *WK1* column header s failed**

Explanation

The error occurred, while the Spreadsheet Reporter was converting part: s and writing the column header to the spreadsheet file.

User response

Correct the errors and retry the action.

Problem determination

The reason for the failure is described in error messages preceding this error message in the error log. Verify that the version of the Spreadsheet Reporter is the same or higher than the RMF report version.

ERB9084A**PWS: Writing *WK1* subreport header s failed**

Explanation

The error occurred while the Spreadsheet Reporter was converting part: s and writing the subreport header to the spreadsheet file.

User response

Correct the errors and retry the action.

Problem determination

The reason for the failure is described in error messages preceding this error message in the error log. Verify that the version of the Spreadsheet Reporter is the same or higher than the RMF report version.

ERB9085A**PWS: Writing *WK1* subreport s failed**

Explanation

The error occurred while the Spreadsheet Reporter was converting part: s and writing the subreport to the spreadsheet file.

User response

Correct the errors and retry the action.

Problem determination

The reason for the failure is described in error messages preceding this error message in the error log. Verify that the version of the Spreadsheet Reporter is the same or higher than the RMF report version.

ERB9086A**PWS: Writing *WK1* end range labels failed**

Explanation

The error occurred while the Spreadsheet Reporter was trying to write the label denoting the end of the report to the spreadsheet file.

User response

Correct the errors and retry the action.

Problem determination

The reason for the failure is described in error messages preceding this error message in the error log. Verify that the version of the Spreadsheet Reporter is the same or higher than the RMF report version.

ERB9087A**PWS: Writing *WK1* header failed**

Explanation

The error occurred while the Spreadsheet Reporter was trying to convert and write the overall report header of the report to the spreadsheet file.

User response

Correct the errors and retry the action.

Problem determination

The reason for the failure is described in error messages preceding this error message in the error log. Verify that the version of the Spreadsheet Reporter is the same or higher than the RMF report version.

ERB9100A**PWS: Writing *WK1* Overview value ranges failed**

Explanation

The error occurred while the Spreadsheet Reporter was trying to convert Overview records and write the Value Ranges to the spreadsheet file.

User response

Correct the errors and retry the action.

Problem determination

The reason for the failure is described in error messages preceding this error message in the error log. Verify that the version of the Spreadsheet Reporter is the same or higher than the RMF report version.

ERB9101A**PWS: Writing *WK1* Overview values failed**

Explanation

The error occurred while the Spreadsheet Reporter was trying to convert Overview records and write the values to the spreadsheet file.

User response

Correct the errors and retry the action.

Problem determination

The reason for the failure is described in error messages preceding this error message in the error log. Verify that the version of the Spreadsheet Reporter is the same or higher than the RMF report version.

ERB9102A**PWS: Writing *WK1* Overview column header failed**

Explanation

The error occurred while the Spreadsheet Reporter was trying to convert Overview records and write the column header to the spreadsheet file.

User response

Correct the errors and retry the action.

Problem determination

The reason for the failure is described in error messages preceding this error message in the error log. Verify that the version of the Spreadsheet Reporter is the same or higher than the RMF report version.

ERB9103A**PWS: Writing *WK1* Overview header failed**

Explanation

The error occurred while the Spreadsheet Reporter was trying to convert Overview records and write the overall header to the spreadsheet file.

User response

Correct the errors and retry the action.

Problem determination

The reason for the failure is described in error messages preceding this error message in the error log. Verify that the version of the Spreadsheet Reporter is the same or higher than the RMF report version.

ERB9112A**PWS: Overview records - version mismatch file *v1* / structure *v2***

Explanation

The error occurred while the Spreadsheet Reporter was trying to process an Overview record file. Due to an invalid download of the file, the record header has a wrong version number.

User response

Correct the error and retry the action.

Problem determination

Verify that the Overview file has been downloaded as BINARY file (not as ASCII file).

ERB9113A**PWS: Overview records - memory allocation *mmmm* bytes failed**

Explanation

The error occurred while the Spreadsheet Reporter was allocating *mmmm* bytes of memory for the Overview record information.

User response

Retry the action.

Problem determination

Verify that the operating system can supply the memory requested. Free some memory by stopping other applications.

ERB9114A**PWS: Overview records - failed to read header**

Explanation

The error occurred while the Spreadsheet Reporter was reading a header from the Overview records.

User response

Retry the action with intact Overview records file.

Problem determination

Verify that the Overview records file is not damaged.

Chapter 4. Messages for IBM® Health Checker for z/OS®

This topic lists all messages issued by RMF health checks.

| | |
|---|-----------------------------------|
| GPMH1001I | GPMSEVE AT-TLS is required |
| Explanation: The DDS option HTTPS(ATTLS) is specified, requiring that the incoming HTTP connection to the DDS is secured by an AT-TLS setup, and an active Policy was found. | |
| System action: None. | |
| Operator response: None. | |
| System programmer response: None. | |

| | |
|--|---------------------------------------|
| GPMH1002I | GPMSEVE AT-TLS is not required |
| Explanation: The DDS option HTTPS(NO) is specified, indicating that AT-TLS is not required. | |
| System action: None. | |
| Operator response: None. | |
| System programmer response: None. | |

| | |
|--|--|
| GPMH1003E | GPMSEVE AT-TLS policy was not found |
| Explanation: The DDS option HTTPS(ATTLS) is specified, requiring that the incoming HTTP connection to the DDS is secured by an AT-TLS setup. This setting requires that an AT-TLS Policy is active in the Policy Agent, but no active Policy was found. | |
| System action: None. | |
| Operator response: None. | |
| System programmer response: Define an AT-TLS Policy for the DDS port. | |

| | |
|--|---|
| GPMH1004I | GPMSEVE PARMLIB options were processed successfully. |
| Explanation: The DDS options in PARMLIB member GPMSRV00 were processed successfully. No deprecated DDS options were encountered. | |
| System action: None. | |
| Operator response: None. | |
| System programmer response: None. | |

GPMH1005E

GPMSERVE deprecated options were specified: *list of deprecated options*

Explanation:

PARMLIB member GPMSRV00 contains deprecated options, which are listed in the message.

System action:

None.

Operator response:

None.

System programmer response:

Remove the deprecated options from PARMLIB member GPMSRV00.

Chapter 5. User completion codes

System Programmer Response

For most user completion codes, the system programmer should continue with the following procedure:

- Obtain the dump for the failing job step. If the JCL for the step did not contain a DD statement for a SYSMDUMP dump, add this statement and run the job step again.
- Format and analyze the SYSMDUMP with the interactive problem control system (IPCS).
- Search problem reporting databases for a fix for the problem. If no fix exists, report the problem to the IBM Support Center.

0213

Explanation

User ABEND issued at CACHE data collection.

The ABEND is requested by the CACHE data collection interface 'IDCSSS01' and is issued by its caller GRBCRSRS, which is invoked by a Monitor I or Monitor III gatherer session.

System action

Issues an SDUMP for the first occurrence within the session. At the next RMF measurement interval, CACHE data collection is invoked again.

Note: The interval begin time for those control units that had not been processed at the time of ABEND remains unchanged. The interval begin time for the other control units is the time it had been processed.

Operator response

Contact your system programmer and save the dump. If it is a permanent problem, deactivate RMF CACHE data collection.

System programmer response

Refer to the explanation at the beginning of this topic.

0301

Explanation

A return code other than 0 or 16 was returned by the TPUT SVC.

System action

RMF either terminates the session or issues message ERB235A to allow the user to decide whether or not to continue the session. The system writes an ABEND dump for the failing job step.

System programmer response

Refer to the explanation at the beginning of this topic.

Programmer response

None.

0500**Explanation**

A VSAM error occurred during execution of a GENCB, MODCB, SHOWCB, or TESTCB macro.

System action

If this code occurs during a Monitor III data gatherer session, RMF issues message ERB857I, terminates the data set recording (terminates the data set support subtask), and issues an SDUMP. If this code occurs during a Monitor III display reporter session, RMF issues message ERB236I, indicating that the module terminated abnormally, and ERB284A, requesting whether the user wants a dump or not, and terminates the session.

The system sends messages about the job to one of the following:

- The primary console
- The remote console, for a system with remote consoles
- The hard-copy log for a system with multiple console support (MCS)

System programmer response

Refer to the explanation at the beginning of this topic.

Programmer response

Contact your system programmer.

1200**Explanation**

An unexpected return code was received from the Monitor I session initialization SVC because the SVC tried to issue an ENQ macro instruction but the name (SYSZRBMF,ACTIVE) was already in use.

System action

Monitor I session processing terminates.

The system sends messages about the job to one of the following:

- The primary console
- The remote console, for a system with remote consoles
- The hard-copy log for a system with multiple console support (MCS)

The system writes an ABEND dump for the failing job step.

System programmer response

Refer to the explanation at the beginning of this topic.

Programmer response

None.

1201**Explanation**

An unexpected return code was received from the Monitor I session data collection SVC.

System action

Monitor I session processing terminates.

The system sends messages about the job to one of the following:

- The primary console
- The remote console, for a system with remote consoles
- The hard-copy log for a system with multiple console support (MCS)

The system writes an ABEND dump for the failing job step.

System programmer response

Refer to the explanation at the beginning of this topic.

Programmer response

None.

1202

Explanation

An OPEN error occurred while opening the RMF programmer message data set that was to contain abnormal messages issued as a result of errors detected during RMF processing.

System action

RMF processing terminates.

The system sends messages about the job to one of the following:

- The primary console
- The remote console, for a system with remote consoles
- The hard-copy log for a system with multiple console support (MCS)

The system writes an ABEND dump for the failing job step.

System programmer response

Refer to the explanation at the beginning of this topic.

Programmer response

None.

1203

Explanation

An error occurred while attempting to dynamically allocate a SYSOUT data set.

System action

If the error is associated with a report subtask, RMF measurement collection continues.

If the error is associated with the main RMF task, processing terminates.

The system writes an ABEND dump for the failing job step.

System programmer response

Refer to the explanation at the beginning of this topic.

1204

Explanation

A return code other than 0 was returned by the I/O configuration retrieve module GRBCNFG.

System action

RMF processing terminates.

The system sends messages about the job to one of the following:

- The primary console
- The remote console, for a system with remote consoles
- The hard-copy log for a system with multiple console support (MCS)

The system writes an ABEND dump for the failing job step.

System programmer response

Refer to the explanation at the beginning of this topic.

Programmer response

None.

1205

Explanation

During initialization of a Monitor I or Monitor II background session, an unexpected return code was issued by one of the system services used to access the data set containing the session options. The session options are located in the data set named on the IEFARM DD statement in the RMF cataloged procedure; if there is no IEFARM DD statement in this procedure, the session options are read from the logical Parmlib concatenation.

System action

The session is not initialized.

The system writes an ABEND dump for the failing job step.

System programmer response

Refer to the explanation at the beginning of this topic.

Programmer response

None.

1206

Explanation

While gathering data for the Monitor I Virtual Storage Report, the sampler received a return code of 8 or greater from the VSMLIST service. The meaning of these return codes is described in *z/OS MVS Programming: Authorized Assembler Services Reference SET-WTO*.

System action

An SDUMP is produced.

1. If the failure occurred while Monitor I gathered data for the common area (indicated by ISSUER=GRBMFEVT in the SDUMP title), Monitor I terminates measurement collection. RMF attempts to reinstate Monitor I and, if successful, Monitor I continues to measure data under the control of the original options. If reinstatement fails, RMF terminates Monitor I.
2. If the failure occurred while Monitor I gathered data for a private area (indicated by ISSUER=GRBMFPVS in the SDUMP title), RMF attempts one retry. If the retry fails for the same private area, RMF no longer collects data for that private area. If there are two failures for two different private areas, RMF terminates Monitor I.

The system sends messages about the job to one of the following:

- The primary console
- The remote console, for a system with remote consoles
- The hard-copy log for a system with multiple console support (MCS)

System programmer response

Obtain the SYS1.LOGREC error record, and refer to the explanation at the beginning of this topic.

Programmer response

If Monitor I terminates, restart it without the virtual storage report by specifying the NOVSTOR option.

Another alternative is to reduce the number of jobs you have specified with the VSTOR option. Specify system address spaces, for example, CATALOG or VTAM, only for a short period of time when diagnosing a special performance situation.

1207

Explanation

An RMF lock has not been obtained within the required number of attempts.

System action

An SDUMP is produced.

1. If the failure occurred in GRBMFPVS, the lock used to serialize with GRBMFDVP remained unavailable for more than 10 seconds.
2. If the failure occurred in GRBMFDVP, the lock used to serialize with GRBMFPVS remained unavailable during 20,000 attempts by GRBMFDVP to obtain it.
3. If the failure occurred in GRBMFDTS, the lock STGSLOCK used to serialize with GRBMFEVT remained unavailable during 20,000 attempts by GRBMFDTS to obtain it.
4. If the failure occurred in GRBMFEVT, the lock used to serialize with GRBMFDTS remained unavailable for more than 10 seconds.

System programmer response

Obtain the SYS1.LOGREC error record, and refer to the explanation at the beginning of this topic.

Programmer response

- If the failure occurred in GRBMFPVS, reduce the number of jobs you have specified with the VSTOR option.
- Specify system address spaces, for example, CATALOG or VTAM, only for a short period of time when diagnosing a special performance situation.

- Otherwise, contact your system programmer.

1209**Explanation**

An error occurred during enqueue contention data collection. The reason codes are as follows:

01

Unable to establish the RMF listen exit for ENF51 ENQ data

02

Unable to establish the RMF listen exit for ENF51 RNL data

03

The RMF listen exit for GRS data received an invalid event code

04

The RMF listen exit for GRS data received an invalid parameter list

05

Too many listen events arrived concurrently at the RMF listen exit for GRS data

06

GRS listen event data cannot be accepted anymore because intermediate storage buffers are full

System action

A system dump is produced at the first occurrence of the user abend and message ERB437I is sent to the operator console. The RMF session continues. For reason codes 03 to 06 RMF tries to recover and restart enqueue data collection until the consecutive retry error count exceeds the retry limit of five within one hour. When the retry limit is reached, enqueue contention data collection is terminated.

Operator response

Contact your system programmer and save the dump. If message ERB437I indicates that enqueue contention data collection has been terminated and such data is still desired, then RMF must be stopped and started again.

System programmer response

Obtain the SVC dump and SYS1.LOGREC error records. Search the system logs for any exception regarding GRS or RMF. GRS messages (for example, ISG344I) in the system log might provide more details on the problem. For reason codes 05 and 06, you should verify that the priority definitions for RMF and RMFGAT are according to the specifications given in *z/OS Data Gatherer User's Guide*. Also, you should check if any application generates a massive amount of GRS enqueue contention events flooding the RMF listen exit. Search the problem reporting database for a fix of the problem. If no fix exists, report the problem to the IBM Support Center.

1210**Explanation:**

An unexpected return code was received from the Monitor T session initialization routine because it was tried to issue an ENQ macro instruction but the name (SYSZDG,ACTIVE) was already in use.

System action

Monitor T session processing terminates. The system sends messages about the job to one of the following:

- The primary console
- The remote console, for a system with remote consoles
- The hard-copy log for a system with multiple console support (MCS)

The system writes an ABEND dump for the failing job step.

System programmer response:

Refer to the explanation at the beginning of this topic.

Programmer response:

None.

1211

Explanation:

An unexpected return code was received from the Monitor T session initialization routine due to an environmental problem.

System action:

Monitor T session initialization terminates. The system writes an ABEND dump for the failing job step.

System programmer response:

Obtain the SYS1.LOGREC error record and refer to the explanation at the beginning of this topic.

Programmer response:

None.

1212

Explanation:

The SMF record producer queue was found in an inconsistent state.

System action:

Monitor T session terminates. The system writes an ABEND dump for the failing job step.

System programmer response:

Obtain the SYS1.LOGREC error record and refer to the explanation at the beginning of this topic.

Programmer response:

None.

1300

Explanation

An OPEN error was detected while opening a report SYSOUT data set.

System action

No reports are formatted for this measurement interval. RMF measurement collection continues.

The system writes an ABEND dump for the failing job step.

System programmer response

Obtain the SYS1.LOGREC error record, and refer to the explanation at the beginning of this topic.

Programmer response

None.

1301

Explanation

The report subtask experienced an unexpected return code from one of the system services while formatting and printing reports.

System action

No reports are formatted for this measurement interval. RMF measurement collection continues.

The system writes an ABEND dump for the failing job step.

System programmer response

Obtain the SYS1.LOGREC error record, and refer to the explanation at the beginning of this topic.

Programmer response

None.

1310

Explanation

An I/O error occurred while writing a report to the report SYSOUT data set.

System action

The report subtask might be reinstated. If the reinstatement is successful, a complete set of reports is reformatted and printed for this interval. If the reinstatement is unsuccessful, the reports for the RMF interval are not completely formatted and all RMF measurement collection continues.

The system writes an ABEND dump for the failing job step.

System programmer response

Obtain the SYS1.LOGREC error record, and refer to the explanation at the beginning of this topic.

Programmer response

None.

1313

Explanation

While creating a duration report, the Postprocessor found an overflow of counters. Because it is not practical to increase the size of the counters to hold more data, it is a permanent restriction of RMF that the longest duration interval supported is the amount of data that fits into the counters for that particular system. The input syntax limits the maximum to 99 hours, but the practical limitation is shorter on most systems.

System action

The system writes an ABEND dump and continues preparing the duration report. The report can contain some incorrect data.

System programmer response

If the abend continues to recur, or there is incorrect data in the report, obtain the ABEND dump and refer to the explanation at the beginning of this topic.

Programmer response

Specify a shorter interval on the DINTV control statement. When the abend does not recur, maintain the value on the DINTV control statement as the longest interval for your system.

1401

Explanation

An error code of 4, 16, 20, or more than 20 was returned by the TGET SVC.

System action

RMF either terminates the session or issues message ERB235A to allow the user to decide whether or not to continue the session.

The system writes an ABEND dump for the failing job step.

System programmer response

Refer to the explanation at the beginning of this topic.

Programmer response

None.

1402

Explanation

A return code of 8, indicating an incorrect entry code parameter, was returned by a data gatherer or data reporter during a Monitor II session.

System action

RMF either terminates the session or issues message ERB235A to allow the user to decide whether or not to continue the session.

The system writes an ABEND dump for the failing job step.

System programmer response

Refer to the explanation at the beginning of this topic.

Programmer response

None, if the module causing the error is supplied by IBM. If the module causing the error is an installation-supplied routine, locate the source of the error and test the module again.

1403

Explanation

During a Monitor II session, RMF module ERBRMFPL (the putline routine) was called with an incorrect input parameter. Either the text length was 0 or greater than 79, or the data type contained a value other than HD or DT.

System action

RMF either terminates the session or issues message ERB235A to allow the user to decide whether or not to continue the session.

The system writes an ABEND dump for the failing job step.

System programmer response

Refer to the explanation at the beginning of this topic.

Programmer response

None, if the module causing the error is supplied by IBM. If the module causing the error is an installation-supplied routine, locate the source of the incorrect parameter to the putline routine and test the module again.

1404

Explanation

During a display session, RMF module ERBPUTSM was called to add a header or data line to the logical terminal buffer, but the buffer already contained the maximum number of header or data lines.

System action

RMF either terminates the session or issues message ERB235A to allow the user to decide whether or not to continue the session.

The system writes an ABEND dump for the failing job step.

System programmer response

Refer to the explanation at the beginning of this topic.

Programmer response

None, if the module causing the error is supplied by IBM. If the module causing the error is an installation-supplied routine, locate the source of the error and test the module again.

1405

Explanation

During a display session, RMF module ERBPUTSM was called to add a header or data line to the logical terminal buffer, but the length specified for the text was zero.

System action

RMF either terminates the session or issues message ERB235A to allow the user to decide whether or not to continue the session.

The system writes an ABEND dump for the failing job step.

System programmer response

Refer to the explanation at the beginning of this topic.

Programmer response

None, if the module causing the error is supplied by IBM. If the module causing the error is an installation-supplied routine, locate the source of the error and test the module again.

1410

Explanation

An error code of 4, 16, 20, or more than 20 was returned by the TGET SVC.

System action

RMF either terminates the session or issues message ERB276I to allow the user to decide whether or not to continue the session.

The system writes an ABEND dump for the failing job step.

System programmer response

Refer to the explanation at the beginning of this topic.

Programmer response

None.

1411

Explanation

During a Monitor III display session, RMF requested an ISPF service via ISPLINK, but ISPLINK returned an unexpected return code. The reason code **rr**, which identifies the ISPF service, and the return code **cc** are both displayed in hexadecimal digits (0000rrcc). The reason codes (rr) for ISPF services are as follows:

- 01 - CONTROL
- 02 - DISPLAY
- 03 - GETMSG
- 04 - GRERROR
- 05 - GRINIT
- 06 - GRTERM
- 07 - LOG
- 08 - SELECT
- 09 - SETMSG
- 0A - TBADD
- 0B - TBBOTTOM
- 0C - TBCLOSE
- 0D - TBCREATE
- 0E - TBDELETE
- 0F - TBDISPL
- 10 - TBEND
- 11 - TBERASE
- 12 - TBEXIST
- 13 - TBGET
- 14 - TBMOD
- 15 - TBOPEN
- 16 - TBPOT
- 17 - TBQUERY
- 18 - TBSARG
- 19 - TBSAVE
- 1A - TBSCAN
- 1B - TBSKIP
- 1C - TBSORT
- 1D - TBSTATS
- 1E - TBTOP
- 1F - TBVCLEAR
- 20 - VCOPY
- 21 - VDEFINE
- 22 - VDELETE
- 23 - VGET
- 24 - VPUT

25 - VREPLACE
26 - VRESET
27 - LIBDEF
28 - PQUERY
29 - VERASE
2A - ADDPOP
2B - REMPOP

System action

RMF issues the full screen panel ERB552I that indicates which module terminated abnormally, requests a user dump, and continues the session.

System programmer response

Refer to the explanation at the beginning of this topic.

Programmer response

Correct the situation indicated by the reason code, or contact your system programmer. See *z/OS ISPF Services Guide* for a description of ISPF services and return codes.

1412

Explanation

During a Monitor III display session, RMF requested a graphic display service via ADMASPLT, but ADMASPLT returned an unexpected return code.

System action

RMF displays message ERB682I, which identifies the error number and function of the Graphical Data Display Manager (GDDM). The message text for ERB682I appears on the command line of the full screen panel ERB552I. ERB552I indicates which module terminated abnormally, requests a user dump, and continues the session.

System programmer response

Refer to the explanation at the beginning of this topic.

Programmer response

Correct the situation indicated by message ERB682I, or contact your system programmer. See *GDDM Messages* for a description of GDDM error numbers and explanations.

1413

Explanation

During a Monitor III display session, RMF detected an incorrect definition of an ISPF table. The ISPF tables for a Monitor III display session contain RMF-supplied values; the table was probably changed outside of the session.

System action

RMF displays message ERB504I, which identifies the ISPF table in error. The message text for ERB504I appears on the command line of the full screen panel ERB551I. ERB551I indicates which module terminated abnormally, requests a user dump, and terminates the session.

System programmer response

Refer to the explanation at the beginning of this topic.

Programmer response

Verify that your installation has properly installed all ISPF tables, and reinstall valid tables for any that are in error.

1414

Explanation

During a Monitor III display session, RMF tried to open the ISPF table output library (DDNAME=ISPTABL), but the library was not allocated.

System action

RMF issues the full screen panel ERB551I that indicates which module terminated abnormally, requests a user dump, and terminates the session.

System programmer response

Refer to the explanation at the beginning of this topic.

Programmer response

Allocate the ISPF table library and restart the RMF Monitor III Report session.

1415

Explanation

RMF gets a user abend not issued by RMF.

System action

RMF issues message ERB552I, allows you to request a dump, and terminates the session. Message ERB552I indicates the non-RMF abend and its reason code to identify who is causing the abend.

Programmer response

Correct the situation as described by the help text of the message panel.

1503

Explanation

During a Monitor III display session, the RMF putline module ERB3RPUT was called with an incorrect input parameter. The text length was 0 or greater than 80, and the command code contained a value other than RS, RI, or RM.

System action

RMF issues message ERB276I and terminates the session.

The system writes an ABEND dump for the failing job step.

System programmer response

Refer to the explanation at the beginning of this topic.

Programmer response

None.

1504

Explanation

During a Monitor III display session, the RMF putline module ERB3RPUT was called to add a header line to the logical screen buffer, but the buffer already contained the maximum number of header lines (six).

System action

RMF issues message ERB276I and terminates the session.

The system writes an ABEND dump for the failing job step.

System programmer response

Refer to the explanation at the beginning of this topic.

Programmer response

None.

1505

Explanation

During a Monitor III display session, the RMF putline module ERB3RPUT was called to add a header or data line to the logical screen buffer, but the text length exceeded the maximum length allowed in the logical screen buffer. The command code was either HL, HR, DL, DR, DI, or MA.

System action

RMF issues message ERB275A to allow the user to decide whether or not to continue the session.

The system writes an ABEND dump for the failing job step.

System programmer response

Refer to the explanation at the beginning of this topic.

Programmer response

None, if the module causing the error is supplied by IBM. If the module causing the error is an installation-supplied routine, locate the source of the error and test the module again.

1506

Explanation

During a Monitor III display session, the RMF putline module ERB3RPUT was called to add an error line to the logical screen buffer, but the buffer already contained the maximum number of error lines (three).

System action

RMF issues message ERB275A to allow the user to decide whether or not to continue the session.

The system writes an ABEND dump for the failing job step.

System programmer response

Refer to the explanation at the beginning of this topic.

Programmer response

None.

1507

Explanation

During a Monitor III display session, the RMF putline module ERB3RPUT was called, and the command code was incorrect.

System action

RMF issues message ERB276I and terminates the session.

The system writes an ABEND dump for the failing job step.

System programmer response

Refer to the explanation at the beginning of this topic.

Programmer response

None.

1508

Explanation

During a Monitor III display session, the RMF putline module ERB3RPUT failed because of an incorrect function or report type. The following reason codes (**rr**) identify the incorrect types:

01 - incorrect function type.

02 - incorrect report type.

System action

An informational message appears on the command line of the full screen panel ERB552I and indicates the non-RMF user abend and a reason code for the cause of the abend. ERB552I indicates which module terminated abnormally, requests a user dump, and continues the session.

System programmer response

Refer to the explanation at the beginning of this topic.

Programmer response

Contact your system programmer

1510

Explanation

During a Monitor III reporter session, RMF retrieved data that cannot be processed in its current format.

System action

RMF issues message ERB566I and prompts the user to request a dump.

System programmer response

Refer to the explanation at the beginning of this topic.

Programmer response

Request a dump and continue the session. If data sets are pre-allocated, ensure that the data was written by a RMF Monitor III data gatherer. If you only can retrieve parts of the data set, the data set might be damaged. Contact your system programmer.

1601

Explanation

During a Monitor III data gathering session, RMF did not have enough storage in the wrap around buffer area to hold one set of samples.

System action

RMF issues message ERB268I, indicating that the storage buffer is not large enough, and the data gatherer session ends.

The system writes an ABEND dump for the failing job step.

System programmer response

Refer to the explanation at the beginning of this topic.

Programmer response

Increase the value of the WSTOR parameter and start the session again.

1602

Explanation

During a Monitor III data gatherer session, module GRB3GMSU encountered a permanent error condition when it collected too many incorrect consecutive samples (samples having missing or duplicate data). Because the Monitor III data gatherer runs enabled and holds no locks, it can be interrupted. When sampling resumes after the interrupt, system control blocks and queues may have changed, resulting in incomplete or duplicate data collections.

System action

RMF issues message ERB269I, indicating a permanent error condition, and the session terminates with message ERB280I.

The system writes an ABEND dump for the failing job step.

System programmer response

Refer to the explanation at the beginning of this topic.

Programmer response

The dispatching priority of the Monitor III data gatherer may be too low, resulting in frequent interrupts. Increasing the dispatching priority of the data gatherer should alleviate this problem.

1603

Explanation

During a Monitor III data gatherer session, module GRB3GENQ received a bad return code from GSCAN. The return code indicates an unpredictable data area.

System action

RMF issues an SDUMP with user completion code 1603 and message ERB269I, indicating a permanent error condition, and the ENQ data gathering session terminates.

The system writes an ABEND dump for the failing job step.

System programmer response

Refer to the explanation at the beginning of this topic.

Programmer response

Contact your system programmer.

1604

Explanation

During a Monitor III data gatherer session, module GRB3GJS2 found a broken SJB queue.

System action

RMF issues an SDUMP with user completion code 1604, issues a message ERB269I, indicating a permanent error condition, and terminates the JES2 data gatherer session.

System programmer response

Refer to the explanation at the beginning of this topic.

Programmer response

Make sure that the offset table GRB3GJ2E is valid for your JES2 release. Contact your system programmer.

1605

Explanation

During a Monitor III data gatherer session, module GRB3GJS3 found a broken MPC queue, or the JES3 macro IATXMVXM failed.

System action

RMF issues an SDUMP with user completion code 1605, issues message ERB269I, indicating a permanent error condition, and terminates the JES3 data gatherer session.

System programmer response

Refer to the explanation at the beginning of this topic.

Programmer response

Contact your system programmer.

1606

Explanation

During a Monitor III gathering session, module GRB3GHSM found a broken MWE queue.

System action

RMF issues an SDUMP with user completion code 1606, issues message ERB269I, indicating a permanent error condition, and terminates the HSM data gatherer session.

System programmer response

Refer to the explanation at the beginning of this topic.

Programmer response

Contact your system programmer.

1607

Explanation

During a Monitor III data gathering session, an interface has returned invalid parameters or no data.

System action

RMF issues a dump. The Monitor III data collection continues.

System programmer response

Refer to the explanation at the beginning of this topic.

Programmer response

Contact your system programmer.

1608

Explanation

During a Monitor III data gatherer session, module GRB3GCSR found a broken VSM user area block (CAUB) queue for unowned common storage.

System action

RMF does the following:

- Issues an SDUMP
- Issues message ERB269I, indicating a permanent error condition
- Ends the Common Storage Remaining data gatherer session

System programmer response

Refer to the explanation at the beginning of this topic.

Programmer response

Contact your system programmer.

1609

Explanation

During a Monitor III data gatherer session, module GRB3GRQA has detected a consecutive failure of the WLM IWMRQRY service.

System action

RMF issues an SDUMP with user completion code 1609, issues message ERB269I, indicating a permanent error condition, and terminates WLM workload activity data collection.

System programmer response

Refer to the explanation at the beginning of this topic.

Programmer response

Contact your system programmer.

1610

Explanation

During a data gatherer session, the RMF WLM interface services detected an error. A reason code is available from the dump taken.

System action

RMF issues an SDUMP.

System programmer response

Refer to the explanation at the beginning of this topic regarding how to obtain a dump. When reporting the problem to IBM Support Center, provide the reason code (in register 15). If the U1610 did not produce a dump, please contact IBM support for assistance.

Programmer response

Contact your system programmer.

1611

Explanation

During a Monitor III data gatherer session, module GRB3GSCM failed several times in a row to access Workload Manager data obtained from the interfaces IWMRCOLL and IWMSVPOL.

System action

RMF does the following:

- Issues an SDUMP
- Issues message ERB315I, indicating a permanent error condition
- Ends Service Policy gatherer session

System programmer response

There are several messages ERB309I and ERB310I that have been issued prior this ABEND. Analyze these messages, and refer to the explanation at the beginning of this topic.

Programmer response

Contact your system programmer.

1612

Explanation

During a Monitor III data gatherer session, module GRB3GJSX failed to retrieve the JES3 performance information data.

System action

RMF does the following:

- Issues an SDUMP
- Issues message ERB269I, indicating a permanent error condition
- Ends the JES3 performance data gatherer session

System programmer response

Refer to the explanation at the beginning of this topic.

Programmer response

Contact your system programmer.

40xx

Explanation

During a Postprocessor session, a problem has been encountered by an integrated routine of the Language Environment.

This can be an internal RMF error.

System action

RMF does the following:

- Issues a Language Environment dump
- Ends the Postprocessor session

System programmer response

Refer to the explanation at the beginning of this topic and add a CEEDUMP DD statement to the JCL.

Programmer response

- In case of a U4083 abend, define the library with the services of the Language Environment as STEPLIB for the Postprocessor job (for details, see *z/OS Resource Measurement Facility User's Guide*).
- In case of another U40.. abend, increase the region size for the Postprocessor job (for details, see *z/OS Resource Measurement Facility User's Guide*).
- Otherwise, contact your system programmer.

Chapter 6. Diagnosing problems

Before using the information provided in this topic, you should:

- Be familiar with RMF. See *z/OS Data Gatherer User's Guide* for specific information about RMF sessions.
- Understand the information in the *z/OS Problem Management*.

Identifying problems

The following table lists each problem type and its meaning. The table directs you to a diagnostic procedure for that problem type or to another information resource.

| Table 1. Problem Types | |
|--|---|
| For these problem types: | See the following: |
| Abend X'0D5' : RMF detected an address space identifier (ASID) that was not valid. | “Diagnosing abend 0D5” on page 187 |
| Abend X'0FE' : An error occurred, ending the Monitor I ZZ session. | “Diagnosing abend 0FE” on page 188 |
| Unexpected abend : A module with the prefix ERB or GRB abnormally ended with a system completion code other than the codes listed above. | “Diagnosing an unexpected abend” on page 190 |
| Message with ERB prefix. | “Diagnosing a message with an ERB prefix” on page 191 |
| Message with CEE or EDC prefix. | “Diagnosing a message with a CEE/EDC prefix” on page 191 |
| Abend with a user completion code issued by a module with an ERB or GRB prefix. | Chapter 5, “User completion codes,” on page 165 |
| Incorrect output : Unusually large or small numbers appeared in an RMF report. | “Diagnosing incorrect output” on page 192 |
| Documentation error : An error in RMF documentation was detected. | “Diagnosing a documentation error” on page 193 |
| Empty Monitor III JES delays report : A Monitor III JES delays report was displayed that contained no data. The headings appeared, but the fields were blank. | “Diagnosing an empty Monitor III JES Delays report” on page 194 |

Diagnosing abend 0D5

Use this procedure when a module with the prefix ERB or GRB abnormally ends with the system completion code X'0D5'. RMF detected an ASID that was not valid.

| Table 2. Diagnostic Procedure for Abend 0D5 | |
|--|--|
| Diagnostic Procedure | References |
| 1. Obtain the SYS1.LOGREC error record and format it with EREP to obtain a detail edit report. | EREP User's Guide for EREP formatting z/OS MVS Diagnosis: Tools and Service Aids to read the SYS1.LOGREC record |

| Table 2. Diagnostic Procedure for Abend OD5 (continued) | |
|--|---|
| Diagnostic Procedure | References |
| <p>2. Check the SYS1.LOGREC error record to determine if the abend occurred in module GRBMFPVS.</p> <p>If the abend did not occur in module GRBMFPVS, continue with step 4. Otherwise proceed with the next step.</p> | <p><i>z/OS MVS Diagnosis: Tools and Service Aids</i> to read the SYS1.LOGREC record</p> |
| <p>3. Obtain the SVC dump for the abend.</p> | <p><i>z/OS Problem Management</i></p> |
| <p>4. Format the dump with the IPCS VERBEXIT LOGDATA subcommand to see the system diagnostic work area (SDWA) and the search argument.</p> <p>In the dump, find the offset of the failing instruction into the module. If analyzing the dump at a terminal, use the IPCS WHERE subcommand to locate the failing instruction and to find its offset into the module.</p> | <p><i>z/OS MVS IPCS Commands</i> for the VERBEXIT LOGDATA and WHERE subcommands</p> |
| <p>5. Determine if the ASID is not valid. Either:</p> <ul style="list-style-type: none"> • The address space does not exist • The address space is swapped out. <p>Correct the problem and reinitialize RMF. If you cannot determine why the ASID is not valid, continue with the next step.</p> | |
| <p>6. Develop a search argument consisting of:</p> <ul style="list-style-type: none"> • Programmer identifier: IDS/566527404 • System abend code: AB/S00D5 • CSECT name: RIDS/cccccccc • Load module name: RIDS/cccccccc#L <p>Use the search argument to search problem reporting data bases. If the search finds that the problem has been reported before, request the problem fix. If not, continue with the next step.</p> | <p>“Developing a search argument for RMF” on page 195</p> <p><i>z/OS Problem Management</i></p> |
| <p>7. Report the problem to IBM. Provide the following problem data:</p> <ul style="list-style-type: none"> • Load module name and level • CSECT name and level • Offset of the failing instruction into the module • SVC dump (softcopy) • Search argument • Current RMF Monitor I options • RMF version and release • Name and level of the operating system with a list of program temporary fixes (PTF) applied at the time of the problem and all installation modifications, exits, and products with other than Class A service | <p>“Reporting a problem to IBM” on page 196</p> |

Diagnosing abend OFE

Use this procedure when RMF ends with a system completion code X'0FE'. RMF detected an error while sampling data about the state of the system.

| Table 3. Diagnostic procedure for abend 0FE | |
|---|--|
| Diagnostic procedure | References |
| 1. Obtain the SYS1.LOGREC error record and format it with EREP to obtain a detail edit report. | <i>EREP User's Guide</i> for EREP formatting <i>z/OS MVS Diagnosis: Tools and Service Aids</i> to read the SYS1.LOGREC record |
| 2. Locate the 0FE entry in the SYS1.LOGREC error record. The entry preceding X'0FE' indicates the module that abended. | <i>z/OS MVS Diagnosis: Tools and Service Aids</i> |
| 3. Set a SLIP trap for the abend code preceding the X'0FE' entry in the SYS1.LOGREC error record. Request the SLIP to produce an SVC dump. If you cannot reproduce the situation, continue with step 5. | <i>z/OS Problem Management</i> |
| 4. Format the dump produced by the SLIP trap with the IPCS VERBEXIT LOGDATA subcommand and keep as softcopy. In the dump, find the offset of the failing instruction into the module. If analyzing the dump at a terminal, use the IPCS WHERE subcommand to locate the failing instruction and to find its offset into the module. | <i>z/OS MVS IPCS Commands</i> for the VERBEXIT LOGDATA and WHERE subcommands |
| 5. Develop a search argument consisting of: <ul style="list-style-type: none"> • Program identifier: PIDS/566527404 • Load module name: RIDS/cccccccc#L • CSECT name: RIDS/cccccccc • System abend code: AB/S00FE • SLIP trap abend code: AB/S0xxx Use the search argument to search problem reporting data bases. If the search finds that the problem has been reported before, request the problem fix. If not, continue with the next step. | “Developing a search argument for RMF” on page 195 <i>z/OS Problem Management</i> |
| 6. Report the problem to IBM. Provide the following problem data: <ul style="list-style-type: none"> • Load module name and level • CSECT name and level • Offset of the failing instruction into the module • Registers at time of abend • SVC dump produced by the SLIP trap (softcopy) • SYS1.LOGREC (softcopy) • Search argument • Current RMF Monitor I options • RMF version and release • Console log of this situation including related ERBxxxI messages • Name and level of the operating system with a list of program temporary fixes (PTF) applied at the time of the problem and all installation modifications, exits, and products with other than Class A service | “Reporting a problem to IBM” on page 196 |

Diagnosing an unexpected abend

Use this procedure when a module with the prefix ERB or GRB abnormally ends with a system completion code other than the codes listed in the table under “Identifying problems” on page 187.

| Table 4. Diagnostic procedure for an unexpected abend | |
|--|--|
| Diagnostic procedure | References |
| 1. Look at the explanation for the abend code and any accompanying reason code. Take the recommended actions. | <i>z/OS MVS System Codes</i> for an explanation of the abend code |
| 2. Obtain messages accompanying the abend. Look at their explanations and take any recommended actions. | Visit IBM Documentation (www.ibm.com/docs/en/zos) to find the message explanation and recommended action. |
| 3. Obtain the SYS1.LOGREC error record, the dump, or both for the abend (softcopy). | <i>z/OS MVS Diagnosis: Tools and Service Aids</i> |
| 4. Format the dump or SYS1.LOGREC record to see the SDWA and the search argument: <ul style="list-style-type: none"> Format an SVC dump or SYSMDUMP ABEND dump with the IPCS VERBEXIT LOGDATA subcommand. Format a SYS1.LOGREC record with EREP to obtain a detail edit report. Find the heading VARIABLE RECORDING AREA (SDWAVRA). Note the SDWAVRA keys, lengths, and contents. | <i>z/OS MVS IPCS Commands</i> for the VERBEXIT LOGDATA subcommand <i>EREP User's Guide</i> for EREP formatting <i>z/OS MVS Diagnosis: Tools and Service Aids</i> |
| 5. In the dump, find the offset of the failing instruction within the CSECT of the load module. If analyzing the dump at a terminal, use the IPCS WHERE subcommand to locate the failing instruction and to find its offset into the module. | <i>z/OS MVS IPCS Commands</i> for the WHERE subcommand |
| 6. Use the WRITELOG system command to print the system log (keep as softcopy). The system log shows all system messages and commands issued. Make sure you print the log for the time period when the abend occurred. | <i>z/OS MVS System Commands</i> for the WRITELOG command |
| 7. Develop a search argument consisting of: <ul style="list-style-type: none"> Program identifier: PIDS/566527404 System abend code: AB/S0xx Abend reason code: PRCS/xxxxxxx Message identifier: MS/cccnns CSECT: RIDs/ccccccc Load module name: RIDs/ccccccc#L Use the search argument to search problem reporting data bases. If the search finds that the problem has been reported before, request the problem fix. If not, continue with the next step. | “ Developing a search argument for RMF ” on page 195 <i>z/OS Problem Management</i> |

| Table 4. Diagnostic procedure for an unexpected abend (continued) | |
|--|---|
| Diagnostic procedure | References |
| <p>8. Report the problem to IBM. Provide the following problem data:</p> <ul style="list-style-type: none"> • Accompanying messages • The dump, SYS1.LOGREC error record, or both (softcopy) • SDWAVRA keys, lengths, and contents • Hardcopy (or better softcopy) of console log • Search argument • Offset of the failing instruction into the module • Current RMF options for session running • RMF version and release • Load module name and level • CSECT name and level • Name and level of the operating system with a list of program temporary fixes (PTF) applied at the time of the problem and all installation modifications, exits, and products with other than Class A service. | <p>“Reporting a problem to IBM” on page 196</p> |

Diagnosing a message with an ERB prefix

Use this procedure when you receive a message with an ERB prefix.

| Table 5. Diagnostic procedure for a message with an ERB prefix | |
|--|--|
| Diagnostic procedure | References |
| <p>1. Determine which session was running when the message was issued.</p> <ul style="list-style-type: none"> • If the message was issued within an RMF ISPF reporter session, use the help facility RMF supplies for an explanation of the message and user response. • If the message was received on the main operator console, it is a system message. <p>If you need assistance with a message, continue with the next step.</p> | <p>Press the HELP key (PF1) for an explanation of the message. These message explanations are also listed in <i>z/OS Resource Measurement Facility Messages and Codes</i>.</p> <p>For an explanation and an appropriate operator response for system messages, see IBM Documentation (www.ibm.com/docs/en/zos).</p> |
| <p>2. Report the problem to IBM. Provide the following problem data:</p> <ul style="list-style-type: none"> • Message number • RMF version and release • RMF session: Monitor I, II, III or Postprocessor • Name and level of the operating system with a list of program temporary fixes (PTF) applied at the time of the problem and all installation modifications, exits, and products with other than Class A service | <p>“Reporting a problem to IBM” on page 196</p> |

Diagnosing a message with a CEE/EDC prefix

Use this procedure when you receive a message with a CEE or EDC prefix.

Diagnosing problems

These message are created by integrated LE/370 routines during a Postprocessor session.

| Table 6. Diagnostic Procedure for a Message with a CEE/EDC Prefix | |
|--|--|
| Diagnostic Procedure | References |
| 1. Increase the region size for the Postprocessor job. If the problem is not solved, continue with the next step. | See <i>z/OS Resource Measurement Facility User's Guide</i> for details. See <i>z/OS Language Environment Debugging Guide</i> for an explanation of the message. |
| 2. Report the problem to IBM. Provide the following problem data: <ul style="list-style-type: none">• Message number• RMF version and release• RMF session: Postprocessor• Name and level of the operating system with a list of program temporary fixes (PTF) applied at the time of the problem and all installation modifications, exits, and products with other than Class A service | “Reporting a problem to IBM” on page 196 |

Diagnosing incorrect output

Use this procedure when unusually large or small numbers appear in any RMF reports. Inaccurate input might have been given to RMF from another system component.

| Table 7. Diagnostic procedure for incorrect output | |
|--|--|
| Diagnostic procedure | References |
| 1. Obtain a hardcopy of the report that has unusual numbers. If the problem is a Monitor III JES Delays report that has no data, see “Diagnosing an empty Monitor III JES Delays report” on page 194 . | <i>z/OS Resource Measurement Facility User's Guide</i> |
| 2. If you are running a Monitor I or Monitor II session or the Postprocessor, and you are collecting SMF data, print the contents of the SMF records which generated <i>this</i> report (and keep them as softcopy). If you are running a Monitor III session, keep any VSAM data sets used to hold data during the session. If the problem is with a report produced by a Monitor III SMF record, print the contents of that SMF record (and keep it as softcopy). | <i>z/OS Resource Measurement Facility User's Guide</i> |

| Table 7. Diagnostic procedure for incorrect output (continued) | |
|---|---|
| Diagnostic procedure | References |
| <p>3. Report the problem to IBM. Provide the following problem data:</p> <ul style="list-style-type: none"> • Hardcopy (or better softcopy) of the report • Accompanying messages • RMF version and release • RMF session: Monitor I, II, III or Postprocessor • SMF record contents • VSAM data set contents if running a Monitor III session • Current RMF options • Name and level of the operating system with a list of program temporary fixes (PTF) applied at the time of the problem and all installation modifications, exits, and products with other than Class A service | <p>“Reporting a problem to IBM” on page 196</p> |

Diagnosing a documentation error

Use this procedure when you find an error in RMF documentation.

| Table 8. Diagnostic procedure for a documentation error | |
|--|---|
| Diagnostic procedure | References |
| <p>1. If you have a problem with an RMF publication, use the Reader's Comment Form of that book to report the documentation error. Be specific when reporting the error.</p> <p>If there is no Reader's Comment Form, send your description of the documentation error to the address listed in the edition notice of the book. Include the following information:</p> <ul style="list-style-type: none"> • Publication title • Publication order number • Page number containing the problem • Thorough description of the problem <p>If the problem is with a form of documentation other than a publication, continue with the next step.</p> | <p>See the Reader's Comment Form of this book for an example.</p> |
| <p>2. If the problem was with an RMF ISPF panel, type PANELID on the command line to display the panel ID. Use the Reader's Comment Form of <i>z/OS Resource Measurement Facility Report Analysis</i> to report the problem. Include the following information:</p> <ul style="list-style-type: none"> • RMF version and release • Panel ID • Thorough description of the problem | <p>See the Reader's Comment Form of this book for an example.</p> |

| Table 8. Diagnostic procedure for a documentation error (continued) | |
|---|---|
| Diagnostic procedure | References |
| <p>3. Report the problem to the IBM Support Center <i>only</i> in the following situations:</p> <ul style="list-style-type: none"> • The correction to the documentation is needed to prevent a severe problem. • You are not sure if the problem is a documentation error or product error. <p>If you report the problem to the IBM Support Center, provide the following data:</p> <ul style="list-style-type: none"> • RMF version and release. • The name and order number of the publication you are using and the page containing the error. • If the error was on an online panel, provide the panel ID. Type PANELID on the command line to display the panel ID. • Name and level of the operating system with a list of program temporary fixes (PTF) applied at the time of the problem and all installation modifications, exits, and products with other than Class A service. | <p>“Reporting a problem to IBM” on page 196</p> |

Diagnosing an empty Monitor III JES Delays report

Use this procedure when no data appears in a Monitor III JES Delays report.

If there are no jobs delayed by JES, RMF generates an empty Monitor III JES Delays report. In this case, an empty report is not considered a problem.

| Table 9. Diagnostic Procedure for Empty Monitor III JES Delays Report | |
|---|---|
| Diagnostic Procedure | References |
| 1. Find out if the JES2 or JES3 control blocks have changed at your installation. If so, Monitor III modules might be affected. | For the RMF/JES interface module installation procedures, see <i>z/OS Program Directory</i> |
| 2. If the JES control blocks have changed, you must reassemble and link-edit the RMF source modules that map offsets to the JES control block fields sampled by Monitor III using the new JES macros. If the problem occurs again, continue with the next step. | |
| <p>3. Report the problem to IBM. Provide the following problem data:</p> <ul style="list-style-type: none"> • Accompanying messages • RMF version and release • Installed JES level • Hardcopy of the report • VSAM data set contents • Name and level of the operating system with a list of program temporary fixes (PTF) applied at the time of the problem and all installation modifications, exits, and products with other than Class A service. | <p>“Reporting a problem to IBM” on page 196</p> |

Obtaining a dump from Monitor II or Monitor III

If an error occurs in the Monitor II or Monitor III reporter session, RMF prompts you whether you want to write a dump. Follow the steps of the diagnostic procedure to obtain a dump:

1. Enter into the command line:

```
TSO FREE FI(SYSUDUMP SYSABEND)
```

You can ignore messages, for example: IKJ56247I FILE xxxxxxxx NOT FREED, IS NOT ALLOCATED

2. Enter into the command line:

```
TSO ALLOC FI(SYSMDUMP) DA(dsname) NEW SP(200 200) CYL REUSE REL
```

If the command does not fit into the command line, start the split-screen mode to enter the command.

3. Answer Y in the dump request panel:

Would you like a dump? Enter Y or N. ==> **Y**

4. The system now writes an unformatted dump to the data set just allocated. This may take some time. When it is finished, the system issues message:

```
IEA993I SYSMDUMP TAKEN TO dsname
```

5. You can now process the dump with IPCS.

Developing a search argument for RMF

You or IBM can use a search argument to search a problem reporting data base to look for a problem similar to the one you encountered. If the problem was reported previously, a problem reporting data base contains information about the problem and, possibly, a fix. See *z/OS Problem Management* for detailed descriptions of formatting search arguments and searching data bases.

The following table shows symptoms for RMF search arguments. The table summarizes the symptoms recommended in the diagnostic procedures in [Chapter 6, “Diagnosing problems,”](#) on page 187.

Use the **free-format** if your installation has a free-format search tool, such as INFO/System with the INFO/MVS data base.

Use the **structured** format if your installation has a structured format search tool, such as INFO/Management or INFO/Access.

| Table 10. Search arguments from diagnostic procedures | | | |
|---|-------------|-------------------|-----------------------------|
| Description | Free format | Structured format | Examples |
| System abend code | abendhhh | AB/S0hhh | abend0D5 AB/S00D5 |
| User completion code | abenddddd | AB/Udddd | abend1207 AB/U1207 |
| Message identifier | msgccccccc | MS/ccccccc | msgERB251I MS/ERB251I |
| Load module name | cccccccc | RIDS/cccccccc#L | ERB3GMFC RIDS/ERB3GMFC#L |

Table 10. Search arguments from diagnostic procedures (continued)

| Description | Free format | Structured format | Examples |
|---|--------------------|--------------------------|-----------------------------|
| CSECT name (object module) | cccccccc | RIDS/cccccccc | ERBRMFPP RIDS/ERBRMFPP |
| Return code | rchhhhhhhh | PRCS/hhhhhhhh | 00000020 PRCS/00000020 |
| Program identifier The first four characters identify the product MVS and the last five characters identify RMF. | cccccccc | PIDS/cccccccc | 566527404 PIDS/566527404 |

Reporting a problem to IBM

The following tables identify the information you need to collect before calling IBM to report an RMF or a z/OS Data Gatherer problem. When you report a problem, you need to describe your system and the problem you experienced. The IBM Support Center personnel uses this information to see if the problem is already known to IBM, check whether a fix is available, or determine how to correct the problem.

Table 11 on page 196 lists the problem data you need to collect before calling IBM to report a problem with an abend X'0D5'.

Table 11. Checklist for reporting a problem with a 0D5 abend

| Problem data | Example or reference |
|--|---|
| Load module name and level ¹ | ERBxxxxx Unnnnnnn ² GRBxxxxx Unnnnnnn |
| CSECT name and level | ERBxxxxx Unnnnnnn ² GRBxxxxx Unnnnnnn |
| Offset of the failing instruction into the module | X'090AF' |
| SVC dump (SYSMDUMP as softcopy) | <i>z/OS Problem Management</i> |
| Search argument | “Developing a search argument for RMF” on page 195 <i>z/OS Problem Management</i> |
| Current z/OS Data Gatherer options | Use the RMF DISPLAY command to display the current options on the operator console. <i>z/OS Data Gatherer User's Guide</i> |
| RMF version and release z/OS Data Gatherer version and release | z/OS RMF 3.1 z/OS Data Gatherer 3.1 |
| Program temporary fix (PTF) numbers | Unnnnnnn |
| Other problem data developed while using <i>z/OS Problem Management</i> and the diagnostic procedures in Chapter 1 | |

| Table 11. Checklist for reporting a problem with a OD5abend (continued) | |
|---|----------------------|
| Problem data | Example or reference |
| Note: 1. The level can be <i>Unnnnnnn</i> , <i>HRMnnnnn</i> , or <i>JRMnnnnn</i> . 2. <i>xxxxx</i> and <i>nnnnnn</i> are just placeholders. The actual data can be obtained from the dump. | |

Table 12 on page 197 lists the problem data you need to collect before calling IBM to report a problem with an abend X'0FE'.

| Table 12. Checklist for reporting a problem with a OFEabend | |
|---|---|
| Problem data | Example or reference |
| Load module name and level ¹ | ERBxxxxx <i>Unnnnnnn</i> ² GRBxxxxx <i>Unnnnnnn</i> |
| CSECT name and level | ERBxxxxx <i>Unnnnnnn</i> ² GRBxxxxx <i>Unnnnnnn</i> |
| Offset of the failing instruction into the module | X'090AF' |
| SVC dump produced by the SLIP trap (softcopy) | <i>z/OS Problem Management</i> |
| SYS1.LOGREC (softcopy) | <i>z/OS MVS Diagnosis: Tools and Service Aids</i> |
| Console log (softcopy) | |
| Search argument | “Developing a search argument for RMF” on page 195 <i>z/OS Problem Management</i> |
| Current Monitor I options | Use the RMF DISPLAY command to display the current options on the operator console. <i>z/OS Data Gatherer User's Guide</i> |
| RMF version and release z/OS Data Gatherer version and release | z/OS RMF 3.1 z/OS Data Gatherer 3.1 |
| Program temporary fix (PTF) numbers | <i>Unnnnnnn</i> |
| Other problem data developed while using <i>z/OS Problem Management</i> and the diagnostic procedures in Chapter 1 | |
| Note: 1. The level can be <i>Unnnnnnn</i> , <i>HRMnnnnn</i> , or <i>JRMnnnnn</i> . 2. <i>xxxxx</i> and <i>nnnnnn</i> are just placeholders. The actual data can be obtained from the dump. | |

Table 13 on page 198 lists the problem data you need to collect before calling IBM to report a problem with an unexpected abend.

| <i>Table 13. Checklist for reporting a problem with an unexpected abend</i> | |
|--|---|
| Problem data | Example or reference |
| Load module name and level ¹ | ERBxxxxx Unnnnnn ² GRBxxxxx Unnnnnn |
| CSECT name and level | ERBxxxxx Unnnnnn ² GRBxxxxx Unnnnnn |
| Messages accompanying the problem, including the message identifier and variable data in the message text | Identifier: ERB259I Text: EXCEPTION REPORTING TERMINATED z/OS Resource Measurement Facility Messages and Codes |
| SVC dump (SYSMDUMP as softcopy) | <i>z/OS Problem Management</i> |
| SYS1.LOGREC error record (softcopy) | <i>z/OS Problem Management</i> |
| SDWAVRA keys, lengths, and contents | <i>z/OS Problem Management</i> |
| System log to show system messages and commands (softcopy) | <i>z/OS MVS System Commands</i> for WRITELOG command |
| Search argument | “Developing a search argument for RMF” on page 195 <i>z/OS Problem Management</i> |
| In case of a Monitor III error, provide the contents of the VSAM data set belonging to this problem | |
| Offset of the failing instruction into the module | X'090AF' |
| Current z/OS Data Gatherer options for session running | Use the RMF DISPLAY command to display the current options on the operator console. <i>z/OS Data Gatherer User's Guide</i> |
| RMF version and release z/OS Data Gatherer version and release | <i>z/OS RMF 3.1</i> <i>z/OS Data Gatherer 3.1</i> |
| Program temporary fix (PTF) numbers | <i>Unnnnnn</i> |
| Other problem data developed while using <i>z/OS Problem Management</i> and the diagnostic procedures in Chapter 1 | |
| Note: 1. The level can be <i>Unnnnnn</i> , <i>HRMnnnn</i> , or <i>JRMnnnn</i> . 2. xxxxx and nnnnnn are just placeholders. The actual data can be obtained from the dump. | |

[Table 14 on page 199](#) lists the problem data you need to collect before calling IBM to report a problem with an ERB, CEE or EDC message.

| <i>Table 14. Checklist for reporting a problem with an ERB, CEE, or EDC message</i> | |
|---|--|
| Problem data | Example or reference |
| Message number | ERB671I |
| RMF version and release z/OS Data Gatherer version and release | z/OS RMF 3.1 z/OS Data Gatherer 3.1 |
| RMF session | Monitor I, II, III or Postprocessor |
| Program temporary fix (PTF) numbers | Unnnnnn ¹ |
| Other problem data developed while using <i>z/OS Problem Management</i> and the diagnostic procedures in Chapter 1. | |
| Note: 1. <i>nnnnnn</i> is just a placeholder. The actual data can be obtained from the dump. | |

Table 15 on page 199 lists the problem data you need to collect before calling IBM to report a problem with incorrect output.

| <i>Table 15. Checklist for reporting a problem with incorrect output</i> | |
|--|--|
| Problem data | Example or reference |
| Hardcopy of report | <i>z/OS Resource Measurement Facility User's Guide</i> |
| Accompanying messages | <i>z/OS Resource Measurement Facility Messages and Codes</i> |
| RMF version and release z/OS Data Gatherer version and release | z/OS RMF 3.1 z/OS Data Gatherer 3.1 |
| RMF session | Monitor I, II, III or Postprocessor |
| SMF record contents | <i>z/OS Resource Measurement Facility User's Guide</i> |
| Unloaded VSAM data set contents if running a Monitor III session | <i>z/OS Data Gatherer User's Guide</i> |
| Current RMF and z/OS Data Gatherer options | Copy from SYS1.PARMLIB |
| Program temporary fix (PTF) numbers | Unnnnnn ¹ |
| Other problem data developed while using <i>z/OS Problem Management</i> and the diagnostic procedures in Chapter 1 | |
| Note: 1. <i>nnnnnn</i> is just a placeholder. The actual data can be obtained from the dump. | |

Table 16 on page 199 lists the problem data you need to collect before calling IBM to report a problem with documentation.

| <i>Table 16. Checklist for reporting a documentation error</i> | |
|--|--|
| Problem data | Example or reference |
| Publication title | <i>z/OS Resource Measurement Facility Messages and Codes</i> |

Reporting a problem

| Table 16. Checklist for reporting a documentation error (continued) | |
|---|--|
| Problem data | Example or reference |
| Publication order number | SC34-2666-xx ¹ |
| Page number containing problem | 3-45 |
| Panel ID | ERB3PRM |
| RMF version and release z/OS Data Gatherer version and release | z/OS RMF 3.1 z/OS Data Gatherer 3.1 |
| Program temporary fix (PTF) numbers | Unnnnnn ² |
| Thorough description of the problem. | |
| Other problem data developed while using <i>z/OS Problem Management</i> and the diagnostic procedures in Chapter 1 | |
| Notes: 1. xx is just a placeholder. Supply the actual publication order number suffix. 2. nnnnnn is just a placeholder. The actual data can be obtained from the dump. | |

Table 17 on page 200 lists the problem data you need to collect before calling IBM to report a problem with a Monitor III JES delays report.

| Table 17. Checklist for reporting a problem with a Monitor III JES Delays report | |
|--|--|
| Problem data | Example or reference |
| Accompanying messages | <i>z/OS Resource Measurement Facility Messages and Codes</i> |
| Installed JES level | JES3 Release x.x |
| Hardcopy of report | <i>z/OS Resource Measurement Facility User's Guide</i> |
| Unloaded VSAM data set contents | <i>z/OS Data Gatherer User's Guide</i> |
| RMF version and release z/OS Data Gatherer version and release | z/OS RMF 3.1 z/OS Data Gatherer 3.1 |
| Program temporary fix (PTF) numbers | Unnnnnn ¹ |
| Other problem data developed while using <i>z/OS Problem Management</i> and the diagnostic procedures in Chapter 1 | |
| Note: 1. nnnnnn is just a placeholder. The actual data can be obtained from the dump. | |

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