CICS Transaction Server for z/OS

CICS Trace Entries

Version 3  Release 1
Note!
Before using this information and the product it supports, be sure to read the general information under "Notices" on page 541.

This edition applies to Version 3 Release 1 of CICS Transaction Server for z/OS, program number 5655-M15, and to all subsequent versions, releases, and modifications until otherwise indicated in new editions. Make sure you are using the correct edition for the level of the product.

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</thead>
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</tr>
</tbody>
</table>
Preface

What this book is about
This book contains CICS® trace information. It consists of tables that you can use to interpret trace entries, as described in the CICS Problem Determination Guide.

Who this book is for
This book is for:
• System programmers
• CICS or system operators
• Application programmers.

What you need to know to understand this book
You need to have a good understanding of how CICS works. This assumes familiarity with most, if not all, of the books in the CICS library, together with adequate practical experience of running a CICS system.

Book structure
This book lists CICS trace entries alphanumerically. There are two slightly different types of trace entry formats. One (“old-style”) resembles the format used in earlier releases of CICS, and gives FIELD A and FIELD B values. The other (“new-style”) uses a different format.

Chapter 1, “AP domain trace points – ‘old style’,” on page 1 contains the trace interpretation tables for “old-style” trace entries.

Trace entries added for this release of CICS and not previously published are indicated by a vertical bar to the left of the new information.
Summary of changes

This edition of the *Trace Entries* is based on the CICS Transaction Server for z/OS®, Version 2 Release 3 edition. Changes from the CICS Transaction Server for z/OS, Version 2 Release 3 edition are marked by a vertical line to the left of the change.

Changes for CICS Transaction Server for z/OS Version 3 Release 1

Trace entries are added in the following areas:

- **XPLink**, see [“XPLink trace points” on page 97](#)
- Conversion, see [“Conversion trace points” on page 206](#)
- Pipeline manager domain, see Chapter 28, “Pipeline manager domain trace points,” on page 435
- Program manager domain, see Chapter 27, “Program manager domain trace points,” on page 425
- Web domain, see Chapter 42, “Web domain trace points,” on page 511

The trace entries for Java hot-pooling (AP 19A0 – AP 19C4) are removed.

Changes for CICS Transaction Server for z/OS, Version 2 Release 3

Trace entries are added in the following areas:

- **C++ and Java**, see [“C++ and JAVA trace points” on page 104](#)
- Terminal control, see [“Terminal control trace points” on page 245](#)
- Business application manager, see Chapter 3, “Business application manager trace points,” on page 263
- Debugging profiles domain, see Chapter 8, “Debugging profiles domain trace points,” on page 281
- Dispatcher domain, see Chapter 9, “Dispatcher domain trace points,” on page 285
- IIOP domain, see Chapter 16, “IIOP domain trace points,” on page 365
- Monitoring domain, see Chapter 23, “Monitoring domain trace points,” on page 413
- SJ domain, see Chapter 34, “JVM domain trace points,” on page 473
- Storage manager domain, see Chapter 35, “Storage manager domain trace points,” on page 479
- Sockets domain, see Chapter 36, “Socket domain trace points,” on page 489

Changes for CICS Transaction Server for z/OS, Version 2 Release 2

Trace entries are added in the following areas:

- DM gate service module, see [“DM gate service module trace points” on page 44](#) (AP 09F0 – AP 09F2)
- Bridge facility management, see [“Bridge facility management trace points: Part 1” on page 101](#) and [“Bridge facility management trace points: Part 2” on page 181](#)
- CICS DB2, see [“CICS-DB2 trace points” on page 188](#) (various)
- Enterprise Java domain, see Chapter 11, “Enterprise Java domain trace points,” on page 297 (various)
- Interval control, see [“Interval control trace points” on page 229](#) (AP F307)
- Document handler domain, see Chapter 6, “Document handler trace points,” on page 273 (DH 040B and DH 041A)
- Dispatcher domain, see Chapter 9, “Dispatcher domain trace points,” on page 285 (DS 0185 – DS 0190)
- IE (ECI over TCP/IP) domain, see Chapter 14, “IE (ECI over TCP/IP) domain trace points,” on page 351 (various)
- Partner domain, see Chapter 29, “Partner domain trace points,” on page 443 (PT 0000 – PT 0117)
Changes for CICS Transaction Server for z/OS, Version 2 Release 1

The major changes for this edition are the addition of trace entries for the following areas:
- AP domain Java, see Chapter 11, “Enterprise Java domain trace points,” on page 297
- IIOP domain, see Chapter 16, “IIOP domain trace points,” on page 365
- Object transaction domain, see Chapter 25, “Object transaction domain Java generated trace points,” on page 421
- Request streams domain, see Chapter 32, “Request streams domain trace points,” on page 463
- JVM domain, see Chapter 34, “JVM domain trace points,” on page 473
Chapter 1. AP domain trace points – ‘old style’

Trace entries with point IDs in the range AP 0000 through AP 00C2 are user trace entries, the numeric part of the point ID being defined in the application making the trace call. AP domain system trace entries have point IDs in the range AP 00C3 through AP FFFF. Not all the values are used.

Where descriptions are given of the specific contents of the REQ field, FIELD A, FIELD B, and the RESOURCE field, byte positions are numbered from left to right, starting at 0.

Format of REQ, FIELD A, FIELD B, and RESOURCE fields

<table>
<thead>
<tr>
<th>Field</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>REQ</strong></td>
<td>For system entries, byte 0 and byte 1 (bits 0–3) usually contain the request code relating to the type of CICS management involved. For user entries, these bits are not used.</td>
</tr>
<tr>
<td>Byte 0 and byte 1, bits 0–3</td>
<td></td>
</tr>
<tr>
<td><strong>REQ</strong></td>
<td>These bits indicate the type of entry, as follows:</td>
</tr>
<tr>
<td>Byte 1, bits 4–7</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'2' User entry</td>
</tr>
<tr>
<td></td>
<td>X'3' LIFO system entry</td>
</tr>
<tr>
<td></td>
<td>X'4' System entry</td>
</tr>
<tr>
<td></td>
<td>X'5' LIFO response/return</td>
</tr>
<tr>
<td></td>
<td>X'D' Trace on/off entry</td>
</tr>
<tr>
<td><strong>FIELD A</strong></td>
<td>Data relevant to this entry</td>
</tr>
<tr>
<td>Bytes 0–3</td>
<td></td>
</tr>
<tr>
<td><strong>FIELD B</strong></td>
<td>Data relevant to this entry</td>
</tr>
<tr>
<td>Bytes 0–3</td>
<td></td>
</tr>
<tr>
<td><strong>RESOURCE</strong></td>
<td>When provided, this is usually the name of a resource associated with the request being traced. Details are given below.</td>
</tr>
<tr>
<td>Bytes 0–7</td>
<td></td>
</tr>
</tbody>
</table>

Contents of the trace entry resource field

<table>
<thead>
<tr>
<th>ID</th>
<th>Program</th>
<th>Request Types</th>
<th>Resource</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 00C4</td>
<td>DFHWMS</td>
<td>Entry</td>
<td>Bytes 0–3: instance number (WMSINSTN) Bytes 4–7: version number (WMSVERN)/ queue name (WMSQNAME)</td>
</tr>
<tr>
<td>AP 00D6</td>
<td>Allocation program</td>
<td>X'17' allocate</td>
<td>Modename</td>
</tr>
<tr>
<td>AP 00E3</td>
<td>System spooling interface</td>
<td>Where appropriate</td>
<td>Data set ID token</td>
</tr>
<tr>
<td>AP 00EA</td>
<td>Table management program</td>
<td>Where appropriate</td>
<td>Resource name</td>
</tr>
<tr>
<td>AP 00F3</td>
<td>Interval control</td>
<td>Where appropriate X'90' RETRY X'F0' CANCEL</td>
<td>Transid Request ID Request ID</td>
</tr>
<tr>
<td>AP 00F7</td>
<td>Temporary storage</td>
<td>Where appropriate</td>
<td>Queue name</td>
</tr>
</tbody>
</table>
### Data conversion for CICS OS/2 ISC

**Table 1. AP 00C3, DFHCCNV trace entries**

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 00C3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DFHCCNV</td>
<td>Byte 1, bits 4-7</td>
<td>X'4'</td>
<td>System trace</td>
</tr>
<tr>
<td></td>
<td>Byte 0</td>
<td>X'01'</td>
<td>TS resource</td>
</tr>
<tr>
<td></td>
<td>Field A, bytes 0-1</td>
<td></td>
<td>Reserved</td>
</tr>
<tr>
<td></td>
<td>bytes 2-3</td>
<td></td>
<td>TS data length</td>
</tr>
<tr>
<td></td>
<td>Field B</td>
<td></td>
<td>TS data address</td>
</tr>
<tr>
<td></td>
<td>Byte 0</td>
<td>X'02'</td>
<td>TS resource</td>
</tr>
<tr>
<td></td>
<td>Field A, byte 0</td>
<td></td>
<td>Reserved</td>
</tr>
<tr>
<td></td>
<td>byte 1</td>
<td></td>
<td>Match key template</td>
</tr>
<tr>
<td></td>
<td>.... 1...</td>
<td></td>
<td>Match on select compare</td>
</tr>
<tr>
<td></td>
<td>.... .1..</td>
<td></td>
<td>Match on select default</td>
</tr>
<tr>
<td></td>
<td>.... ..1.</td>
<td></td>
<td>Match on resource name</td>
</tr>
<tr>
<td></td>
<td>.... ...1</td>
<td></td>
<td>TS template length</td>
</tr>
<tr>
<td></td>
<td>bytes 2-3</td>
<td></td>
<td>TS template address</td>
</tr>
<tr>
<td></td>
<td>Field B</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Byte 0</td>
<td>X'03'</td>
<td>TD resource</td>
</tr>
<tr>
<td></td>
<td>Field A, bytes 0-1</td>
<td></td>
<td>Reserved</td>
</tr>
<tr>
<td></td>
<td>bytes 2-3</td>
<td></td>
<td>TD data length</td>
</tr>
<tr>
<td></td>
<td>Field B</td>
<td></td>
<td>TD data address</td>
</tr>
<tr>
<td></td>
<td>Byte 0</td>
<td>X'04'</td>
<td>TD resource</td>
</tr>
<tr>
<td></td>
<td>Field A, byte 0</td>
<td></td>
<td>Reserved</td>
</tr>
<tr>
<td></td>
<td>byte 1</td>
<td></td>
<td>Match key template</td>
</tr>
<tr>
<td></td>
<td>.... 1...</td>
<td></td>
<td>Match on select compare</td>
</tr>
<tr>
<td></td>
<td>.... .1..</td>
<td></td>
<td>Match on select default</td>
</tr>
<tr>
<td></td>
<td>.... ..1.</td>
<td></td>
<td>Match on resource name</td>
</tr>
<tr>
<td></td>
<td>.... ....</td>
<td></td>
<td>TD template length</td>
</tr>
<tr>
<td></td>
<td>bytes 2-3</td>
<td></td>
<td>TD template address</td>
</tr>
<tr>
<td></td>
<td>Field B</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Byte 0</td>
<td>X'05'</td>
<td>FC resource</td>
</tr>
<tr>
<td></td>
<td>Field A, bytes 0-1</td>
<td></td>
<td>Reserved</td>
</tr>
<tr>
<td></td>
<td>bytes 2-3</td>
<td></td>
<td>FC data length</td>
</tr>
<tr>
<td></td>
<td>Field B</td>
<td></td>
<td>FC data address</td>
</tr>
<tr>
<td></td>
<td>Byte 0</td>
<td>X'06'</td>
<td>FC resource</td>
</tr>
<tr>
<td></td>
<td>Field A, byte 0</td>
<td></td>
<td>Reserved</td>
</tr>
<tr>
<td></td>
<td>byte 1</td>
<td></td>
<td>Match key template</td>
</tr>
<tr>
<td></td>
<td>.... 1...</td>
<td></td>
<td>Match on select compare</td>
</tr>
<tr>
<td></td>
<td>.... .1..</td>
<td></td>
<td>Match on select default</td>
</tr>
<tr>
<td></td>
<td>.... ..1.</td>
<td></td>
<td>Match on resource name</td>
</tr>
<tr>
<td></td>
<td>.... ....</td>
<td></td>
<td>FC template length</td>
</tr>
<tr>
<td></td>
<td>bytes 2-3</td>
<td></td>
<td>FC template address</td>
</tr>
<tr>
<td></td>
<td>Field B</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Byte 0</td>
<td>X'07'</td>
<td>FC resource</td>
</tr>
<tr>
<td></td>
<td>Field A, bytes 0-1</td>
<td></td>
<td>Reserved</td>
</tr>
<tr>
<td></td>
<td>bytes 2-3</td>
<td></td>
<td>FC key length</td>
</tr>
<tr>
<td></td>
<td>Field B</td>
<td></td>
<td>FC key address</td>
</tr>
<tr>
<td></td>
<td>Byte 0</td>
<td>X'08'</td>
<td>FC resource</td>
</tr>
<tr>
<td></td>
<td>Field A, bytes 0-1</td>
<td></td>
<td>Reserved</td>
</tr>
</tbody>
</table>
Table 1. AP 00C3, DFHCCNV trace entries (continued)

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>FC key template length</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>FC key template address</td>
</tr>
<tr>
<td></td>
<td>bytes 2-3</td>
<td>FC key template length</td>
<td></td>
</tr>
<tr>
<td>Field B</td>
<td></td>
<td></td>
<td>IC resource address</td>
</tr>
<tr>
<td></td>
<td>Field B</td>
<td></td>
<td>IC data length</td>
</tr>
<tr>
<td></td>
<td>Field B</td>
<td></td>
<td>IC data address</td>
</tr>
<tr>
<td></td>
<td>Field A, bytes 0-1</td>
<td>IC resource address</td>
<td></td>
</tr>
<tr>
<td>Field B</td>
<td></td>
<td></td>
<td>Reserved</td>
</tr>
<tr>
<td></td>
<td>Field B</td>
<td></td>
<td>Reserved</td>
</tr>
<tr>
<td></td>
<td>bytes 2-3</td>
<td>IC template length</td>
<td></td>
</tr>
<tr>
<td>Field B</td>
<td></td>
<td></td>
<td>IC template address</td>
</tr>
<tr>
<td></td>
<td>Field B</td>
<td></td>
<td>Reserved</td>
</tr>
<tr>
<td></td>
<td>Field B</td>
<td></td>
<td>Reserved</td>
</tr>
<tr>
<td>Byte 0</td>
<td></td>
<td>X'09'</td>
<td>IC resource address</td>
</tr>
<tr>
<td>Field A, byte 0</td>
<td>X'09'</td>
<td>IC resource address</td>
<td></td>
</tr>
<tr>
<td>Byte 0</td>
<td></td>
<td>X'0A'</td>
<td>IC resource address</td>
</tr>
<tr>
<td>Field A, byte 0</td>
<td>X'0A'</td>
<td>IC resource address</td>
<td></td>
</tr>
<tr>
<td>byte 1</td>
<td></td>
<td></td>
<td>Match key template</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Match on select compare</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Match on select default</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Match on resource name</td>
</tr>
<tr>
<td>bytes 2-3</td>
<td></td>
<td></td>
<td>IC template length</td>
</tr>
<tr>
<td>Field B</td>
<td></td>
<td></td>
<td>IC template address</td>
</tr>
<tr>
<td></td>
<td>Field B</td>
<td></td>
<td>Reserved</td>
</tr>
<tr>
<td></td>
<td>Field B</td>
<td></td>
<td>Reserved</td>
</tr>
<tr>
<td>Byte 0</td>
<td></td>
<td>X'0B'</td>
<td>Exit</td>
</tr>
<tr>
<td>Field A</td>
<td></td>
<td></td>
<td>Resource name</td>
</tr>
<tr>
<td>Field B</td>
<td></td>
<td></td>
<td>Resource name</td>
</tr>
<tr>
<td></td>
<td>Field B</td>
<td></td>
<td>Reserved</td>
</tr>
<tr>
<td></td>
<td>Field B</td>
<td></td>
<td>Reserved</td>
</tr>
<tr>
<td>Byte 0</td>
<td></td>
<td>X'0C'</td>
<td>Entry</td>
</tr>
<tr>
<td>Field A, byte 0</td>
<td>X'0C'</td>
<td>Entry</td>
<td></td>
</tr>
<tr>
<td>byte 1</td>
<td></td>
<td>X'02'</td>
<td>ASCII to EBCDIC request</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'04'</td>
<td>EBCDIC to ASCII request</td>
</tr>
<tr>
<td>bytes 2-3</td>
<td></td>
<td></td>
<td>ARG0 bytes 1 and 2 (FNCODE)</td>
</tr>
<tr>
<td>Field B</td>
<td></td>
<td></td>
<td>ARG0 bytes 3-6</td>
</tr>
</tbody>
</table>

CAVM services

Table 2. AP 00C4, DFHWMS trace entries

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 00C4</td>
<td>Byte 1, bits 4-7</td>
<td>X'3'</td>
<td>Entry</td>
</tr>
<tr>
<td>DFHWMS</td>
<td>Field A</td>
<td></td>
<td>Message manager request ID (WMSREQID)</td>
</tr>
<tr>
<td>AP Lvl 1</td>
<td>Field B</td>
<td></td>
<td>Data area address (WMSDATAD)</td>
</tr>
<tr>
<td></td>
<td>Byte 1, bits 4-7</td>
<td>X'5'</td>
<td>Exit</td>
</tr>
<tr>
<td></td>
<td>Field A</td>
<td></td>
<td>Message manager return code (WMSRC)</td>
</tr>
<tr>
<td></td>
<td>Field B, bytes 0-1</td>
<td></td>
<td>Data area size (WMSDATSZ)</td>
</tr>
<tr>
<td></td>
<td>bytes 2-3</td>
<td></td>
<td>Data length (WMSDATLN)</td>
</tr>
</tbody>
</table>

Table 3. AP 00C5, DFHXRCP trace entries

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 00C5</td>
<td>Byte 0</td>
<td>X'00'</td>
<td>Entry</td>
</tr>
<tr>
<td>DFHXRCP</td>
<td>Byte 1</td>
<td>X'04'</td>
<td>Reserved</td>
</tr>
<tr>
<td>AP Lvl 1</td>
<td>Field A</td>
<td></td>
<td>Reserved</td>
</tr>
<tr>
<td>Field B</td>
<td></td>
<td></td>
<td>Reserved</td>
</tr>
<tr>
<td>Byte 0</td>
<td></td>
<td>X'01'</td>
<td>Exit</td>
</tr>
<tr>
<td>Field A</td>
<td></td>
<td></td>
<td>Reserved</td>
</tr>
<tr>
<td>Field B</td>
<td></td>
<td></td>
<td>Reserved</td>
</tr>
</tbody>
</table>
### Table 3. AP 00C5, DFHXRCP trace entries (continued)

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Byte 0</td>
<td>X'02'</td>
<td>Resumption of DFHXRCP</td>
</tr>
<tr>
<td></td>
<td>Field A</td>
<td></td>
<td>Reserved</td>
</tr>
<tr>
<td></td>
<td>Field B</td>
<td></td>
<td>Reserved</td>
</tr>
<tr>
<td></td>
<td>Byte 0</td>
<td>X'03'</td>
<td>Suspension of DFHXRCP</td>
</tr>
<tr>
<td></td>
<td>Field A</td>
<td></td>
<td>Reserved</td>
</tr>
<tr>
<td></td>
<td>Field B</td>
<td></td>
<td>Reserved</td>
</tr>
<tr>
<td></td>
<td>Byte 0</td>
<td>X'04'</td>
<td>CIB prefix</td>
</tr>
<tr>
<td></td>
<td>Field A, byte 0</td>
<td></td>
<td>CIBVERB</td>
</tr>
<tr>
<td></td>
<td>byte 1</td>
<td></td>
<td>CIBLEN</td>
</tr>
<tr>
<td></td>
<td>bytes 2-3</td>
<td></td>
<td>CIBASID</td>
</tr>
<tr>
<td></td>
<td>Field B</td>
<td></td>
<td>CIB console ID (CIBCONID or CIBXCNID)</td>
</tr>
<tr>
<td></td>
<td>Byte 0</td>
<td>X'05'</td>
<td>CIB data for modify command</td>
</tr>
<tr>
<td></td>
<td>Field A</td>
<td></td>
<td>CIB data bytes 0-3</td>
</tr>
<tr>
<td></td>
<td>Field B</td>
<td></td>
<td>CIB data bytes 4-7</td>
</tr>
<tr>
<td></td>
<td>Byte 0</td>
<td>X'06'</td>
<td>CIB data for modify command - continuation 1</td>
</tr>
<tr>
<td></td>
<td>Field A</td>
<td></td>
<td>CIB data bytes 8-11</td>
</tr>
<tr>
<td></td>
<td>Field B</td>
<td></td>
<td>CIB data bytes 12-15</td>
</tr>
<tr>
<td></td>
<td>Byte 0</td>
<td>X'07'</td>
<td>CIB data for modify command - continuation 2</td>
</tr>
<tr>
<td></td>
<td>Field A</td>
<td></td>
<td>CIB data bytes 16-19</td>
</tr>
<tr>
<td></td>
<td>Field B</td>
<td></td>
<td>CIB data bytes 20-23</td>
</tr>
</tbody>
</table>

### Table 4. AP 00C6 DFHXRSP trace entries

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 00C6</td>
<td>Byte 0</td>
<td>X'00'</td>
<td>Entry</td>
</tr>
<tr>
<td>DFHXRSP</td>
<td>Byte 1</td>
<td>X'04'</td>
<td>Reserved</td>
</tr>
<tr>
<td>AP Lvl 1</td>
<td>Field A</td>
<td></td>
<td>Reserved</td>
</tr>
<tr>
<td></td>
<td>Field B</td>
<td></td>
<td>Reserved</td>
</tr>
<tr>
<td></td>
<td>Byte 0</td>
<td>X'01'</td>
<td>Exit</td>
</tr>
<tr>
<td></td>
<td>Field A</td>
<td></td>
<td>Reserved</td>
</tr>
<tr>
<td></td>
<td>Field B</td>
<td></td>
<td>Reserved</td>
</tr>
<tr>
<td></td>
<td>Byte 0</td>
<td>X'02'</td>
<td>Resumption of DFHXRSP</td>
</tr>
<tr>
<td></td>
<td>Field A</td>
<td></td>
<td>Reserved</td>
</tr>
<tr>
<td></td>
<td>Field B</td>
<td></td>
<td>Reserved</td>
</tr>
<tr>
<td></td>
<td>Byte 0</td>
<td>X'03'</td>
<td>Suspension of DFHXRSP</td>
</tr>
<tr>
<td></td>
<td>Field A</td>
<td></td>
<td>Reserved</td>
</tr>
<tr>
<td></td>
<td>Field B</td>
<td></td>
<td>Reserved</td>
</tr>
<tr>
<td></td>
<td>Byte 0</td>
<td>X'04'</td>
<td>Work element</td>
</tr>
<tr>
<td></td>
<td>Field A, byte 0 (XRWEREQ)</td>
<td></td>
<td>Signon</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'01'</td>
<td>Signoff normal</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'02'</td>
<td>Signoff abnormal</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'03'</td>
<td>Clock difference changed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'07'</td>
<td>Status data changed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'09'</td>
<td>Surveillance signal overdue</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'0A'</td>
<td>Surveillance signal resumed</td>
</tr>
</tbody>
</table>
### Table 4. AP 00C6 DFHXRSP trace entries (continued)

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>X'0F'</td>
<td></td>
<td></td>
<td>Takeover requested</td>
</tr>
<tr>
<td>X'10'</td>
<td></td>
<td></td>
<td>Post IA (incipient active) ECB</td>
</tr>
<tr>
<td>X'11'</td>
<td></td>
<td></td>
<td>Post TC (takeover complete) ECB</td>
</tr>
<tr>
<td>X'12'</td>
<td></td>
<td></td>
<td>Post SS (synchronized with respect to signoff) ECB</td>
</tr>
<tr>
<td>X'13'</td>
<td></td>
<td></td>
<td>Post ST (synchronized with respect to termination) ECB</td>
</tr>
<tr>
<td>X'18'</td>
<td></td>
<td></td>
<td>CAVM failed</td>
</tr>
<tr>
<td>X'19'</td>
<td></td>
<td></td>
<td>Invalidated</td>
</tr>
</tbody>
</table>

- byte 1, bit 0: XRWERQM, implicit request, (SIGNON/SIGNOFFNORM)
- byte 1, bit 1: XRWERQM, DUMP=YES (takeover requested)
- bytes 2-3: Reserved

#### Field B
- A(work element)

#### Byte 0
- X'05'

- Field A: XRWEINS instance number
- Field B: XRWEVER version number

#### Byte 0
- X'06'

For sign-on:
- Field A: APPLID- first four characters
- Field B: APPLID - second four characters

For clock diff changed:
- Field A: Lower bound for difference in seconds
- Field B: Upper bound for difference in seconds

For surveillance signal overdue:
- Field A: Number of seconds overdue

For CAVM failed:
- Field A: Abend code

Any other event:
- Field A: Reserved

#### Byte 1
- X'07'

- Field A: Abend imminent
- Field B: Reserved

### Table 5. AP 00C7, DFHXRA trace entries

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 00C7</td>
<td>Byte 1 bits 4-7</td>
<td>X'3'</td>
<td>Entry</td>
</tr>
<tr>
<td>DFHXRA</td>
<td>Field A, byte 0</td>
<td>X'01'</td>
<td>DFHXR CTYPE=INITIALIZE</td>
</tr>
<tr>
<td>AP Lvl 1</td>
<td>(XRRQTR)</td>
<td>X'02'</td>
<td>DFHXR CTYPE=TERMINATE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'03'</td>
<td>DFHXR CTYPE=SIGNON</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'04'</td>
<td>DFHXR CTYPE=SIGNOFF</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'05'</td>
<td>DFHXR CTYPE=QUERY-TAKEOVER-INIT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'06'</td>
<td>DFHXR CTYPE=SET-TAKEOVER-INIT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'07'</td>
<td>DFHXR CTYPE=WAIT-TAKEOVER-INIT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'08'</td>
<td>DFHXR CTYPE=QUERY-TAKEOVER-COMP</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'09'</td>
<td>DFHXR CTYPE=SET-TAKEOVER-COMP</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'0A'</td>
<td>DFHXR CTYPE=WAIT-TAKEOVER-COMP</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'0B'</td>
<td>DFHXR CTYPE=QUERY-RSD-AVAIL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'0C'</td>
<td>DFHXR CTYPE=SET-RSD-AVAIL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'0D'</td>
<td>DFHXR CTYPE=WAIT-RSD-AVAIL</td>
</tr>
</tbody>
</table>
### Resource field

#### Table 5. AP 00C7, DFHXRXA trace entries (continued)

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>X'0E'</td>
<td>DFHRX CTYPE=QUERY-SYNC-SIGNOFF</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'0F'</td>
<td>DFHRX CTYPE=SET-SYNC-SIGNOFF</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'10'</td>
<td>DFHRX CTYPE=WAIT-SYNC-SIGNOFF</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'11'</td>
<td>DFHRX CTYPE=QUERY-SYNC-TERM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'12'</td>
<td>DFHRX CTYPE=SET-SYNC-TERM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'13'</td>
<td>DFHRX CTYPE=WAIT-SYNC-TERM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'18'</td>
<td>DFHRX CTYPE=INIT-SURVEILLANCE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'19'</td>
<td>DFHRX CTYPE=TERM-SURVEILLANCE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'1A'</td>
<td>DFHRX CTYPE=INIT-CONSOLE-COMM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'1B'</td>
<td>DFHRX CTYPE=TERM-CONSOLE-COMM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'1C'</td>
<td>DFHRX CTYPE=SET-HEALTH-DATA</td>
</tr>
</tbody>
</table>

**Byte 1 bits 4-7**  
Field A, byte 0  
See entry trace XRRQTR immediately above  
byte 3  
(XRRQRC)

For DFHRX CTYPE=xxx  
X'00' Normal response  
X'08' Invalid request  

For DFHRX CTYPE=SIGNON  
X'14' Retry possible  
X'1C' Rejected by CAVM  

For DFHRX CTYPE=SIGNOFF  
X'24' Dump requested  
X'2C' Rejected by CAVM  

For DFHRX CTYPE=SET-TAKEOVER-INIT  
X'34' Takeover in progress  
X'35' Shutdown in progress  
X'3C' Rejected by CAVM  

For DFHRX CTYPE=WAIT-RSD-AVAIL  
X'44' Restart data set not available

### Dynamic transaction backout

#### Table 6. AP 00CB DFHDBP trace entries

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>X'00CB'</td>
<td>Bytes 0-1</td>
<td></td>
<td>Reserved</td>
</tr>
<tr>
<td>DFHDBP</td>
<td>Field A</td>
<td></td>
<td>Saved DWE chain address, TCADWASV</td>
</tr>
<tr>
<td>AP Lvl 1</td>
<td>Field B</td>
<td></td>
<td>Address of first DWE, TCADWLBA</td>
</tr>
</tbody>
</table>

### Basic mapping support

#### Table 7. AP 00CD BMS trace entries

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>X'00CD'</td>
<td>Bytes 0-1</td>
<td></td>
<td>Reserved</td>
</tr>
<tr>
<td>BMS</td>
<td>Field A</td>
<td></td>
<td>First four bytes of temporary storage key</td>
</tr>
<tr>
<td>BM Lvl 1</td>
<td>Field B</td>
<td></td>
<td>Next four bytes of temporary storage key</td>
</tr>
</tbody>
</table>

**Note:** See also trace point AP 00FA.
Recovery control

Table 8. AP 00CE, DFHRCP trace entries

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte 1, bits 4-7</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 00CE</td>
<td>Field A, byte 0</td>
<td>X'01'</td>
<td>OPEN</td>
</tr>
<tr>
<td>DFHRCP</td>
<td>(request type)</td>
<td>X'02'</td>
<td>CLOSE</td>
</tr>
<tr>
<td>AP Lvl 1</td>
<td>(request type)</td>
<td>X'03'</td>
<td>CONNECT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'04'</td>
<td>DISCONNECT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'05'</td>
<td>STARTBROWSE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'06'</td>
<td>ENDBROWSE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'07'</td>
<td>GETNEXT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'08'</td>
<td>WRITE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'09'</td>
<td>READ</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'0A'</td>
<td>DELETE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'0B'</td>
<td>PURGE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'0C'</td>
<td>LOG</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'0D'</td>
<td>INITIALIZE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'0E'</td>
<td>WAITINIT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'0F'</td>
<td>RESTART TASK</td>
</tr>
</tbody>
</table>

byte 1 RCRQRM
bytes 2-3 Reserved
Field B Addr of parm list except when byte 8 is X'0F' - it is then reserved.

Byte 1, bits 4-7 X'5'
Field A, byte 0 (request type)
bytes 1-2 Reserved
byte 3 Response code, RCRQRC
Field B Reserved

Basic mapping support

Table 9. AP 00CF, BMS trace entries

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte 0-1</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 00CF</td>
<td>Field A</td>
<td></td>
<td>Reserved</td>
</tr>
<tr>
<td>DFHMCP</td>
<td></td>
<td></td>
<td>Same as for AP 00FA with byte 1, bits 4-7=X'5'</td>
</tr>
<tr>
<td>BM Lvl 1</td>
<td></td>
<td></td>
<td>Reserved</td>
</tr>
</tbody>
</table>

Note: This trace occurs when an application program issues an EXEC CICS PAGE with RELEASE before the BMS module issues a DFHPC TYPE=RETURN macro to exit from the calling program.

LU6.2 services manager

Table 10. AP 00D3, DFHLUP trace entries

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte 0-1</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 00D3</td>
<td>Field A</td>
<td></td>
<td>Reserved</td>
</tr>
<tr>
<td>DFHLUP</td>
<td></td>
<td></td>
<td>Reserved</td>
</tr>
<tr>
<td>TC Lvl 1</td>
<td>Field B</td>
<td></td>
<td>Reserved</td>
</tr>
</tbody>
</table>

Development Management System/CICS/VS

Byte 0 - X'D4': DMS trace entry, see the Development Management System/CICS/VS: Problem Determination Manual.
Resource field

### Allocation program

**Table 11. AP 00D6, DFHALP trace entries**

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte 1, bits 4-7</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 00D6</td>
<td>X’03’</td>
<td>Entry</td>
<td></td>
</tr>
<tr>
<td>DFHALP</td>
<td>X’01’</td>
<td>Unchain</td>
<td></td>
</tr>
<tr>
<td>KC Lvl 1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Byte 0</td>
<td>X’02’</td>
<td>BMS TPQ call 2</td>
<td></td>
</tr>
<tr>
<td>Byte 0</td>
<td>X’05’</td>
<td>MCRID</td>
<td></td>
</tr>
<tr>
<td>Byte 0</td>
<td>X’06’</td>
<td>Address of AID</td>
<td></td>
</tr>
<tr>
<td>Byte 0</td>
<td>X’07’</td>
<td>CRS call 1</td>
<td></td>
</tr>
<tr>
<td>Byte 0</td>
<td>X’08’</td>
<td>Tranid</td>
<td></td>
</tr>
<tr>
<td>Byte 0</td>
<td>X’09’</td>
<td>ICP call 1</td>
<td></td>
</tr>
<tr>
<td>Byte 0</td>
<td>X’0A’</td>
<td>Reserved</td>
<td></td>
</tr>
<tr>
<td>Byte 0</td>
<td>X’0C’</td>
<td>BMS TPQ call 3</td>
<td></td>
</tr>
<tr>
<td>Byte 0</td>
<td>X’0D’</td>
<td>(Supplied AID)</td>
<td></td>
</tr>
<tr>
<td>Byte 0</td>
<td>X’0E’</td>
<td>Addr of TCTTE</td>
<td></td>
</tr>
<tr>
<td>Byte 0</td>
<td>X’10’</td>
<td>CRQ call 1</td>
<td></td>
</tr>
<tr>
<td>Byte 0</td>
<td>X’12’</td>
<td>BMS TPR call 1</td>
<td></td>
</tr>
<tr>
<td>Byte 0</td>
<td>X’14’</td>
<td>Avail</td>
<td></td>
</tr>
<tr>
<td>Byte 0</td>
<td>X’15’</td>
<td>Unavail</td>
<td></td>
</tr>
<tr>
<td>Byte 0</td>
<td>X’16’</td>
<td>Release</td>
<td></td>
</tr>
<tr>
<td>Byte 0</td>
<td>X’17’</td>
<td>Allocate</td>
<td></td>
</tr>
<tr>
<td>Byte 0</td>
<td>X’18’</td>
<td>Release abnormal</td>
<td></td>
</tr>
<tr>
<td>Byte 0</td>
<td>X’05’</td>
<td>Exit</td>
<td></td>
</tr>
<tr>
<td>Byte 0</td>
<td>X’00’</td>
<td>Normal return</td>
<td></td>
</tr>
<tr>
<td>Byte 0</td>
<td>X’04’</td>
<td>Error return</td>
<td></td>
</tr>
</tbody>
</table>
Table 11. AP 00D6, DFHALP trace entries (continued)

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>byte 1</td>
<td>X'01'</td>
<td>BMS TPQ call 1, no AIDs found</td>
</tr>
<tr>
<td></td>
<td>Secondary error code</td>
<td>X'02'</td>
<td>BMS TPQ call 2, no AIDs found</td>
</tr>
<tr>
<td></td>
<td>X'03'</td>
<td>BMS TPQ call 3, no AIDs found</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'04'</td>
<td>ICP call 1, no AIDs found</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'05'</td>
<td>ICP call 1, AID found but does not match</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'06'</td>
<td>No AID found for generalized locate function</td>
<td></td>
</tr>
<tr>
<td></td>
<td>byte 0</td>
<td>X'0C'</td>
<td>Error return</td>
</tr>
<tr>
<td></td>
<td>X'31'</td>
<td>Error return</td>
<td></td>
</tr>
</tbody>
</table>

Data interchange

Table 12. AP 00D7, DFHDIP trace entries

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AP 00D7 Byte 1, bits 4-7</td>
<td>X'03'</td>
<td>Entry</td>
</tr>
<tr>
<td></td>
<td>DFHDIP Byte 0</td>
<td>X'01'</td>
<td>ADD</td>
</tr>
<tr>
<td></td>
<td>X'02'</td>
<td>ERASE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'03'</td>
<td>REPLACE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'04'</td>
<td>ABORT</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'05'</td>
<td>QUERY</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'06'</td>
<td>END</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'07'</td>
<td>RECEIVE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'08'</td>
<td>NOTE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'09'</td>
<td>DETACH</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'0A'</td>
<td>ATTACH</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'0B'</td>
<td>SEND</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'0C'</td>
<td>WAIT</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Byte 1, bits 0-3</td>
<td>X'1'</td>
<td>DSN not specified</td>
</tr>
<tr>
<td></td>
<td>X'2'</td>
<td>Profile specified</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'4'</td>
<td>SELECT</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'8'</td>
<td>VOLADDR</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Field A, byte 0</td>
<td>X'01'</td>
<td>WAIT</td>
</tr>
<tr>
<td></td>
<td>X'08'</td>
<td>KEYNUMB</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'10'</td>
<td>RRNADDR</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'20'</td>
<td>KEYADDR</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'40'</td>
<td>TYPE=SAVE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'80'</td>
<td>DEFRESP=YES</td>
<td></td>
</tr>
<tr>
<td></td>
<td>byte 1</td>
<td>Reserved</td>
<td></td>
</tr>
<tr>
<td></td>
<td>byte 2</td>
<td>Value of NUMREC (valid for ADD, ERASE, and REPLACE)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Field B</td>
<td>TIOA address, TCTTEDA</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Byte 1, bits 4-7</td>
<td>X'05'</td>
<td>Exit</td>
</tr>
<tr>
<td></td>
<td>Field A, bytes 0-1</td>
<td>Return code, TCADIRC</td>
<td></td>
</tr>
<tr>
<td></td>
<td>bytes 2-3</td>
<td>Deferred return code (set by next call to DFHDIP if nonzero)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Field B, bytes 0-1</td>
<td>System sense code from DFHZNAC</td>
<td></td>
</tr>
<tr>
<td></td>
<td>bytes 2-3</td>
<td>User sense code from DFHZNAC</td>
<td></td>
</tr>
</tbody>
</table>

Abnormal condition program

Table 13. AP 00DC, DFHACP trace entries

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AP 00DC Byte 1, bits 4-7</td>
<td>X'3'</td>
<td>Entry</td>
</tr>
<tr>
<td></td>
<td>DFHACP byte 0</td>
<td>X'00'</td>
<td>Abend or invalid transaction</td>
</tr>
</tbody>
</table>
### Table 13. AP 00DC, DFHACP trace entries (continued)

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP Lvl 1</td>
<td>X'81'</td>
<td>Invalid transaction ID</td>
</tr>
<tr>
<td></td>
<td>X'82'</td>
<td>Transaction disabled</td>
</tr>
<tr>
<td></td>
<td>X'83'</td>
<td>End user not authorized - security violation</td>
</tr>
<tr>
<td></td>
<td>X'84'</td>
<td>Invalid tranid during system quiesce</td>
</tr>
<tr>
<td></td>
<td>X'85'</td>
<td>Transaction not executable on requested terminal</td>
</tr>
<tr>
<td></td>
<td>X'86'</td>
<td>Invalid remote transaction ID</td>
</tr>
<tr>
<td></td>
<td>X'87'</td>
<td>ZNAC detected error</td>
</tr>
<tr>
<td></td>
<td>X'88'</td>
<td>I/O error when starting session</td>
</tr>
<tr>
<td></td>
<td>X'89'</td>
<td>Normal termination for DFHACP</td>
</tr>
<tr>
<td></td>
<td>X'8A'</td>
<td>Console not defined</td>
</tr>
<tr>
<td></td>
<td>X'8B'</td>
<td>Program not available</td>
</tr>
<tr>
<td></td>
<td>X'8C'</td>
<td>Terminal profile not available</td>
</tr>
<tr>
<td></td>
<td>X'8D'</td>
<td>XRF recovery process is active</td>
</tr>
<tr>
<td></td>
<td>X'8E'</td>
<td>Remote system out of service</td>
</tr>
<tr>
<td></td>
<td>X'8F'</td>
<td>Dynamic route system not available</td>
</tr>
<tr>
<td></td>
<td>X'90'</td>
<td>All remote sessions are busy</td>
</tr>
<tr>
<td></td>
<td>X'91'</td>
<td>Invalid PIP received with ATTACH</td>
</tr>
<tr>
<td></td>
<td>X'92'</td>
<td>Requested transaction does not support GDS</td>
</tr>
<tr>
<td></td>
<td>X'93'</td>
<td>Invalid conversation type in ATTACH</td>
</tr>
<tr>
<td></td>
<td>X'94'</td>
<td>Invalid SBA in ATTACH</td>
</tr>
<tr>
<td></td>
<td>X'95'</td>
<td>Requested syncpoint level not supported</td>
</tr>
<tr>
<td></td>
<td>X'96'</td>
<td>Invalid syncpoint in ATTACH</td>
</tr>
<tr>
<td></td>
<td>X'97'</td>
<td>Invalid ACC in ATTACH</td>
</tr>
<tr>
<td></td>
<td>X'98'</td>
<td>Invalid UOW in ATTACH</td>
</tr>
<tr>
<td></td>
<td>X'99'</td>
<td>Invalid FMH length</td>
</tr>
<tr>
<td></td>
<td>X'9A'</td>
<td>Conversation restart not supported</td>
</tr>
<tr>
<td></td>
<td>X'9C'</td>
<td>Invalid access security subfield length</td>
</tr>
<tr>
<td></td>
<td>X'9D'</td>
<td>Password required but not supplied in FMH</td>
</tr>
<tr>
<td></td>
<td>X'9E'</td>
<td>Invalid ATTACH parameter</td>
</tr>
<tr>
<td></td>
<td>X'9F'</td>
<td>Partner LU security protocol violation</td>
</tr>
<tr>
<td></td>
<td>X'C2'</td>
<td>Invalid non-terminal transaction</td>
</tr>
<tr>
<td></td>
<td>X'C3'</td>
<td>End user not signed on - security violation</td>
</tr>
<tr>
<td></td>
<td>X'C4'</td>
<td>Insufficient resource to start transaction</td>
</tr>
</tbody>
</table>

| Field A | Current transaction |
| Field B | Abend code |
| Byte 1, bits 4-7 | X'5' | Exit |
|            | X'00' | Invalid transaction entered at terminal |
|            | X'05' | Transaction abended |
|            | X'06' | Transaction abended, resource backout successful |
|            | X'07' | Resource backout failed |
|            | X'08' | Resource backout abended |
|            | X'10' | Restart rejected - backout had failed |
|            | X'11' | Restart rejected due to abend code |
|            | X'12' | Restart rejected due to terminal I/O |
|            | X'13' | Restart rejected due to prior syncpoint |
|            | X'14' | Restart rejected at request of user code |
| X'81' - X'9F' | As entry trace |
| X'C2' - X'C4' | As entry trace |

| Field A | Current transaction |
| Field B | Abend code |
Subtask management program

Table 14. AP 00DE, DFHSKP trace entries

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 00DE</td>
<td>Byte 1, bits 4-7</td>
<td>X'3'</td>
<td>Entry</td>
</tr>
<tr>
<td>DFHSKP</td>
<td>Field A, byte 0</td>
<td>X'01'</td>
<td>PERFORM</td>
</tr>
<tr>
<td>AP Lvl 1</td>
<td>(request type)</td>
<td>X'02'</td>
<td>WAIT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'03'</td>
<td>RETURN</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'04'</td>
<td>TERMINATE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'05'</td>
<td>DWE PROCESS</td>
</tr>
<tr>
<td></td>
<td>byte 1</td>
<td>....</td>
<td>AUTH=YES</td>
</tr>
<tr>
<td></td>
<td>(request modifier)</td>
<td>....</td>
<td>CLASS=I/O</td>
</tr>
<tr>
<td></td>
<td></td>
<td>....</td>
<td>SAVAREA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>....</td>
<td>SYNC=YES</td>
</tr>
<tr>
<td></td>
<td>bytes 2-3</td>
<td></td>
<td>Reserved</td>
</tr>
<tr>
<td>Field B</td>
<td></td>
<td></td>
<td>Address of exit routine if byte 8=X'01', otherwise reserved</td>
</tr>
<tr>
<td>Byte 1, bits 4-7</td>
<td>X'5'</td>
<td>Exit</td>
<td></td>
</tr>
<tr>
<td>Field A, byte 0</td>
<td>X'01'</td>
<td>PERFORM</td>
<td></td>
</tr>
<tr>
<td>(request type)</td>
<td>X'02'</td>
<td>WAIT</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'03'</td>
<td>RETURN</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'04'</td>
<td>TERMINATE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'05'</td>
<td>DWE PROCESS</td>
<td></td>
</tr>
<tr>
<td>bytes 1-2</td>
<td></td>
<td>Reserved</td>
<td></td>
</tr>
<tr>
<td>byte 3</td>
<td>X'00'</td>
<td>Normal response</td>
<td></td>
</tr>
<tr>
<td>(response code)</td>
<td>X'04'</td>
<td>User code failed</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'08'</td>
<td>Subtask code failed</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'0C'</td>
<td>Unable to perform request</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'10'</td>
<td>Request never completed</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'14'</td>
<td>Invalid request</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'18'</td>
<td>Invalid ECB address</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'1C'</td>
<td>User task canceled</td>
<td></td>
</tr>
<tr>
<td>Field B</td>
<td></td>
<td>Addr of parm list</td>
<td></td>
</tr>
</tbody>
</table>

Intersystem program

Table 15. AP 00DF, DFHISP trace entries

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 00DF</td>
<td>Byte 1, bits 4-7</td>
<td>X'3'</td>
<td>Entry</td>
</tr>
<tr>
<td>DFHISP</td>
<td>Field A, byte 0</td>
<td>X'03'</td>
<td>Shut down</td>
</tr>
<tr>
<td>IS Lvl 1</td>
<td></td>
<td>X'04'</td>
<td>Converse</td>
</tr>
<tr>
<td></td>
<td>bytes 1-2</td>
<td></td>
<td>Reserved</td>
</tr>
<tr>
<td>Field B</td>
<td></td>
<td></td>
<td>TCTSE name</td>
</tr>
<tr>
<td>Byte 1, bits 4-7</td>
<td>X'5'</td>
<td>Exit</td>
<td></td>
</tr>
<tr>
<td>Field A, byte 0</td>
<td>X'00'</td>
<td>Successful</td>
<td></td>
</tr>
<tr>
<td>(ISCRQTR)</td>
<td>X'04'</td>
<td>Retry possible</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'08'</td>
<td>Permanent error</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'0C'</td>
<td>Terminal out of service</td>
<td></td>
</tr>
<tr>
<td>bytes 1-3</td>
<td></td>
<td>Reserved</td>
<td></td>
</tr>
<tr>
<td>Field B</td>
<td></td>
<td>Reserved</td>
<td></td>
</tr>
</tbody>
</table>
Message processor

Table 16. AP 00E0, DFHMGP trace entries

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte 0, bits 4-7</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 00E0</td>
<td>Byte 1, bits 4-7</td>
<td>X'3'</td>
<td>Entry</td>
</tr>
<tr>
<td>DFHMGP</td>
<td>Field A, byte 0</td>
<td>X'01'</td>
<td>CSCS (TD queue)</td>
</tr>
<tr>
<td>AP Lvl 1</td>
<td>byte 1</td>
<td>X'01'</td>
<td>TIOA to be used</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'02'</td>
<td>No number to be used</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'04'</td>
<td>Return the message</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'08'</td>
<td>Output to console</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'10'</td>
<td>Output to terminal</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'20'</td>
<td>CSTL (TD queue)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'40'</td>
<td>CSMT (TD queue)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'80'</td>
<td></td>
</tr>
<tr>
<td>bytes 2-3</td>
<td></td>
<td></td>
<td>Message number in binary</td>
</tr>
<tr>
<td>Field B</td>
<td></td>
<td></td>
<td>TCTTE address</td>
</tr>
</tbody>
</table>

Field A, byte 0 X'01'  
Field B  
Field A, byte 1 X'02'  
Field B  
Field A, byte 1 X'04'  
Field B  
Field A, byte 1 X'08'  
Field B  
Field A, byte 1 X'10'  
Field B  
Field A, byte 1 X'20'  
Field B  
Field A, byte 1 X'40'  
Field B  
Field A, byte 1 X'80'  
Field B  

EXEC interface

Table 17. AP 00E1, DFHEIP trace entries

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte 0</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 00E1</td>
<td>Byte 0</td>
<td>X'0'</td>
<td>Entry</td>
</tr>
<tr>
<td>DFHEIP</td>
<td>Byte 1, bits 0-3</td>
<td>X'0'</td>
<td>Value of Register 13:</td>
</tr>
<tr>
<td>El Lvl 1</td>
<td>Field A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field B, byte 0  
byte 1  
bytes 2-3  

Byte 0

Byte 1, bits 0-3 X'F'  
Field A  
Field B, byte 0-1  
bytes 2-3  

Note: See [the CICS Application Programming Reference](#) and [the CICS System Programming Reference](#) for the values and meanings of RESP, RESP2, and EIBFN fields. Trace entries with an EIBFN byte 0 value greater than X'80' are CICS internal trace entries.
CSD parameter utility program

Table 18. AP 00E2, DFHPUP trace entries

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 00E2</td>
<td>Byte 0</td>
<td></td>
<td>Reserved</td>
</tr>
<tr>
<td>DFHPUP</td>
<td>Byte 1, bits 4-7</td>
<td>X'3'</td>
<td>Entry</td>
</tr>
<tr>
<td></td>
<td>Field A, bytes 0-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'F001'</td>
<td>Flatten</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'F002'</td>
<td>Unflatten</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'F003'</td>
<td>Trancase</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'F004'</td>
<td>Backtrans</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'F005'</td>
<td>Compare</td>
<td></td>
</tr>
<tr>
<td>Field B</td>
<td></td>
<td></td>
<td>Reserved</td>
</tr>
<tr>
<td>Byte 1, bits 4-7</td>
<td>X'5'</td>
<td>Exit</td>
<td></td>
</tr>
<tr>
<td>Field A, byte 3</td>
<td></td>
<td>Response code</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'00'</td>
<td>Normal response</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'04'</td>
<td>Warning</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'08'</td>
<td>Error</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'0C'</td>
<td>Severe error</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'10'</td>
<td>Terminating</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'FC'</td>
<td>Inform</td>
<td></td>
</tr>
<tr>
<td>Field B, bytes 0-3</td>
<td>X'00'</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

System spooling interface

Table 19. AP 00E3, DFHPSP trace points

Note: RESP and RESP2 codes are explained in the CICS Application Programming Reference and the CICS System Programming Reference.

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 00E3</td>
<td>Byte 0</td>
<td>X'A0'</td>
<td>Entry</td>
</tr>
<tr>
<td>DFHPSP</td>
<td>Field A</td>
<td>Address of DFHPS parameter list</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Field B</td>
<td>Reserved</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Byte 0</td>
<td>X'A1'</td>
<td>Response</td>
</tr>
<tr>
<td></td>
<td>Field A</td>
<td>Address of DFHPS parameter list</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Field B</td>
<td>Reserved</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Byte 0</td>
<td>X'A2'</td>
<td>Unsupported function</td>
</tr>
<tr>
<td></td>
<td>Field A</td>
<td>Address of DFHPS parameter list</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Field B</td>
<td>RESP return code</td>
<td></td>
</tr>
</tbody>
</table>

The following trace entries are provided only if the system spooling interface trace facility has been activated (by means of the SPOOLFE option of the CSFE transaction), or if an abnormal response is given:

<p>| Byte 0 | X'10' | DFHEPS SPOOLCLOSE response |
| Field A | |
| Field B | | RESP return code |
| Byte 0 | X'11' | DFHEPS SPOOLCLOSE DELETE |
| Field A | | Reserved |
| Field B | | Reserved |
| Byte 0 | X'14' | DFHEPS SPOOLCLOSE PRINT |
| Field A | | Reserved |
| Field B | | Reserved |
| Byte 0 | X'20' | DFHEPS SPOOLREAD response |
| Field A | | RESP return code |
| Field B | | RESP2 return code |
| Byte 0 | X'21' | DFHEPS SPOOLREAD STANDARD |
| Field A | | Reserved |</p>
<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><code>22</code></td>
<td>DFHEPS SPOOLWRITE response</td>
</tr>
<tr>
<td></td>
<td><code>28</code></td>
<td>DFHEPS SPOOLWRITE STANDARD</td>
</tr>
<tr>
<td></td>
<td><code>40</code></td>
<td>DFHEPS SPOOLOPEN response</td>
</tr>
<tr>
<td></td>
<td><code>41</code></td>
<td>DFHEPS SPOOLOPEN OUTPUT</td>
</tr>
<tr>
<td></td>
<td><code>42</code></td>
<td>DFHEPS SPOOLOPEN INPUT</td>
</tr>
<tr>
<td></td>
<td><code>88</code></td>
<td>DFHEPS SPOOLOPEN STANDARD</td>
</tr>
<tr>
<td></td>
<td><code>B0</code></td>
<td>DFHPSPCK entry</td>
</tr>
<tr>
<td></td>
<td><code>B1</code></td>
<td>DFHPSPCK invalid request</td>
</tr>
<tr>
<td></td>
<td><code>B2</code></td>
<td>DFHPSPCK interface halting</td>
</tr>
<tr>
<td></td>
<td><code>B3</code></td>
<td>DFHPSPCK interface disable</td>
</tr>
<tr>
<td></td>
<td><code>B4</code></td>
<td>DFHPSPCK interface terminate</td>
</tr>
<tr>
<td></td>
<td><code>E0</code></td>
<td>DFHPSPST entry</td>
</tr>
<tr>
<td></td>
<td><code>E1</code></td>
<td>DFHPSPST open input response</td>
</tr>
<tr>
<td></td>
<td><code>E2</code></td>
<td>DFHPSPST open output response</td>
</tr>
<tr>
<td></td>
<td><code>E3</code></td>
<td>DFHPSPST read response</td>
</tr>
<tr>
<td></td>
<td><code>E4</code></td>
<td>DFHPSPST write response</td>
</tr>
<tr>
<td></td>
<td><code>E5</code></td>
<td>DFHPSPST close response</td>
</tr>
<tr>
<td></td>
<td><code>E6</code></td>
<td>DFHPSPST interface halting</td>
</tr>
</tbody>
</table>
### Table 19. AP 00E3, DFHPSP trace points (continued)

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field B</td>
<td>Field A</td>
<td>X'E7'</td>
<td>DFHPSPST invalid request</td>
</tr>
<tr>
<td>Field B</td>
<td>Field A</td>
<td>X'E8'</td>
<td>DFHPSPST invalid open request</td>
</tr>
<tr>
<td>Field B</td>
<td>Field A</td>
<td>X'E9'</td>
<td>DFHPSPST invalid read request</td>
</tr>
<tr>
<td>Field B</td>
<td>Field A</td>
<td>X'EA'</td>
<td>DFHPSPST invalid write request</td>
</tr>
<tr>
<td>Field B</td>
<td>Field A</td>
<td>X'EB'</td>
<td>DFHPSPST invalid close request</td>
</tr>
</tbody>
</table>

### Terminal control

### Table 20. AP 00E6, DFHTCP trace entries

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 00E6</td>
<td>Byte 1, bits 4-7</td>
<td>X'4'</td>
<td>System trace. See <a href="#">1 on page 16</a> for more information</td>
</tr>
<tr>
<td>DFHTCP</td>
<td>Byte 0</td>
<td>X'01'</td>
<td>TCATRID1</td>
</tr>
<tr>
<td>TC Lvl 2</td>
<td>Field A</td>
<td>Field B</td>
<td>TCTLE address</td>
</tr>
<tr>
<td></td>
<td>Byte 0</td>
<td>X'02'</td>
<td>TCTREID1. See <a href="#">1 on page 16</a> for more information</td>
</tr>
<tr>
<td></td>
<td>Field A, byte 0</td>
<td>byte 1</td>
<td>TCTLESI, line status</td>
</tr>
<tr>
<td></td>
<td>bytes 2-3</td>
<td>Field B</td>
<td>TCTLEMI, access method flags</td>
</tr>
<tr>
<td></td>
<td>Byte 0</td>
<td>X'03'</td>
<td>TCTLEAL, input area length</td>
</tr>
<tr>
<td></td>
<td>Field A</td>
<td>Field B, bytes 0-1</td>
<td>TCTLEEBCB, event control block</td>
</tr>
<tr>
<td></td>
<td>X'0000'</td>
<td>X'0000'</td>
<td>Write break</td>
</tr>
<tr>
<td></td>
<td>X'0001'</td>
<td>X'0001'</td>
<td>Read initial</td>
</tr>
<tr>
<td></td>
<td>X'0002'</td>
<td>X'0002'</td>
<td>Write initial</td>
</tr>
<tr>
<td></td>
<td>X'0003'</td>
<td>X'0003'</td>
<td>Read continue</td>
</tr>
<tr>
<td></td>
<td>X'0004'</td>
<td>X'0004'</td>
<td>Write continue</td>
</tr>
<tr>
<td></td>
<td>X'0005'</td>
<td>X'0005'</td>
<td>Read conv</td>
</tr>
<tr>
<td></td>
<td>X'0006'</td>
<td>X'0006'</td>
<td>Write conv</td>
</tr>
<tr>
<td></td>
<td>X'0006'</td>
<td>X'0006'</td>
<td>Write erase alternate</td>
</tr>
<tr>
<td></td>
<td>X'0008'</td>
<td>X'0008'</td>
<td>Write structured field</td>
</tr>
<tr>
<td></td>
<td>X'0008'</td>
<td>X'0008'</td>
<td>Write +ve ack</td>
</tr>
<tr>
<td></td>
<td>X'0009'</td>
<td>X'0009'</td>
<td>Read inquiry monitor</td>
</tr>
<tr>
<td></td>
<td>X'000A'</td>
<td>X'000A'</td>
<td>Write -ve ack</td>
</tr>
<tr>
<td></td>
<td>X'000A'</td>
<td>X'000A'</td>
<td>Write reset</td>
</tr>
<tr>
<td></td>
<td>X'000A'</td>
<td>X'000A'</td>
<td>Write disconnect</td>
</tr>
<tr>
<td></td>
<td>X'000B'</td>
<td>X'000B'</td>
<td>Write reset monitor</td>
</tr>
<tr>
<td></td>
<td>X'000B'</td>
<td>X'000B'</td>
<td>Read buffer</td>
</tr>
<tr>
<td></td>
<td>X'000C'</td>
<td>X'000C'</td>
<td>Write at line address</td>
</tr>
<tr>
<td></td>
<td>X'000C'</td>
<td>X'000C'</td>
<td>Write initial transparent block</td>
</tr>
<tr>
<td></td>
<td>X'000D'</td>
<td>X'000D'</td>
<td>Write initial conv</td>
</tr>
</tbody>
</table>
### Table 20. AP 00E6, DFHTCP trace entries (continued)

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>X'000E'</td>
<td></td>
<td>Write erase</td>
<td></td>
</tr>
<tr>
<td>X'000E'</td>
<td></td>
<td>Write continue transparent block</td>
<td></td>
</tr>
<tr>
<td>X'000F'</td>
<td></td>
<td>Write cont conv</td>
<td></td>
</tr>
<tr>
<td>X'000F'</td>
<td></td>
<td>Read with ID exch</td>
<td></td>
</tr>
<tr>
<td>X'0010'</td>
<td></td>
<td>Write disconnect</td>
<td></td>
</tr>
<tr>
<td>X'0011'</td>
<td></td>
<td>Write modified</td>
<td></td>
</tr>
<tr>
<td>X'0011'</td>
<td></td>
<td>Read connect</td>
<td></td>
</tr>
<tr>
<td>X'0012'</td>
<td></td>
<td>Write initial transient</td>
<td></td>
</tr>
<tr>
<td>X'0012'</td>
<td></td>
<td>Write unprotected erase</td>
<td></td>
</tr>
<tr>
<td>X'0014'</td>
<td></td>
<td>Write continue transparent</td>
<td></td>
</tr>
<tr>
<td>X'0015'</td>
<td></td>
<td>Read inquiry</td>
<td></td>
</tr>
<tr>
<td>X'0016'</td>
<td></td>
<td>Write inquiry</td>
<td></td>
</tr>
<tr>
<td>X'001A'</td>
<td></td>
<td>Write wait before transmitting</td>
<td></td>
</tr>
<tr>
<td>X'001B'</td>
<td></td>
<td>Read interrupt</td>
<td></td>
</tr>
<tr>
<td>X'001C'</td>
<td></td>
<td>Write connect</td>
<td></td>
</tr>
<tr>
<td>X'0080'</td>
<td></td>
<td>Init with reset</td>
<td></td>
</tr>
<tr>
<td>X'0081'</td>
<td></td>
<td>Read init with reset</td>
<td></td>
</tr>
<tr>
<td>X'0082'</td>
<td></td>
<td>Write init with reset</td>
<td></td>
</tr>
<tr>
<td>X'0086'</td>
<td></td>
<td>Write conv with reset</td>
<td></td>
</tr>
</tbody>
</table>

**Bytes 2-3**

| Byte 0 | X'04' | TCATRID1. See 3 for more information |
| Field A |       | See definition of field A for byte 0=X'02' |
| Field B | Reserved |                                               |

**DFHTACP**

| Byte 1, bits 4-7 | X'4' | System trace |
| Byte 0 | X'10' | TCATRID1 |

**TC Lvl 2**

| Field A, bytes 0-1 | Op code, TCTLETOP |
| byte 2 | TP code, TCTLETPO |
| byte 3 | Action flags, TCTLEECB+1 (set by DFHTACP) |
| Field B | Terminal ID |

**Byte 0 | X'20' |**

**Field A, byte 0**

| byte 1 | Completion code, TCTLEECB |
| byte 2 | BTAM return code, TCTLEECB+3 |
| byte 3 | **Note:** BTAM is no longer supported by CICS. |
| Error flags, TCTLEPFL |
| Action flags, TCTLEECB+1 (set by DFHTACP) |
| Completion code, TCTLECC |
| Status byte, TCTLESF |
| Sense byte, TCTLESB |
| Sense byte, TCTLESB+1 |

**Notes:**

1. This trace occurs during line scan.
2. This trace occurs at I/O event initiation.
3. This trace occurs in DFHTACP just prior to transferring control to DFHTEP.
4. This trace occurs in DFHTACP just after returning from DFHTEP.

### Allocation management program

#### Table 21. AP 00EB, DFHAMP trace entries

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 00EB</td>
<td>Byte 0</td>
<td>X'3'</td>
<td>Entry</td>
</tr>
<tr>
<td>DFHAMP</td>
<td>Byte 1, bits 4-7</td>
<td>X'3'</td>
<td>Function code</td>
</tr>
<tr>
<td>AP Lvl 1</td>
<td>Field A, bytes 0-1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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CICS TS for z/OS: CICS Trace Entries
### Table 21. AP 00EB, DFHAMP trace entries (continued)

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>X'A001'</td>
<td></td>
<td>Alter</td>
<td></td>
</tr>
<tr>
<td>X'A019'</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>X'A041'</td>
<td></td>
<td>Define</td>
<td></td>
</tr>
<tr>
<td>X'A059'</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>X'A060'</td>
<td></td>
<td>Copy</td>
<td></td>
</tr>
<tr>
<td>X'A064'</td>
<td></td>
<td>Rename</td>
<td></td>
</tr>
<tr>
<td>X'A068'</td>
<td></td>
<td>Delete</td>
<td></td>
</tr>
<tr>
<td>X'A070'</td>
<td></td>
<td>Append</td>
<td></td>
</tr>
<tr>
<td>X'A078'</td>
<td></td>
<td>Remove</td>
<td></td>
</tr>
<tr>
<td>X'A07A'</td>
<td></td>
<td>Add</td>
<td></td>
</tr>
<tr>
<td>X'A080'</td>
<td></td>
<td>Lock</td>
<td></td>
</tr>
<tr>
<td>X'A084'</td>
<td></td>
<td>Append</td>
<td></td>
</tr>
<tr>
<td>X'A08A'</td>
<td></td>
<td>Check</td>
<td></td>
</tr>
<tr>
<td>X'A090'</td>
<td></td>
<td>Install</td>
<td></td>
</tr>
<tr>
<td>X'A094'</td>
<td></td>
<td>Begin</td>
<td></td>
</tr>
<tr>
<td>X'A098'</td>
<td></td>
<td>End</td>
<td></td>
</tr>
<tr>
<td>X'A099'</td>
<td></td>
<td>Install</td>
<td></td>
</tr>
<tr>
<td>X'A0A0'</td>
<td></td>
<td>Expand group</td>
<td></td>
</tr>
<tr>
<td>X'A0A8'</td>
<td></td>
<td>Display</td>
<td></td>
</tr>
<tr>
<td>X'A0AA'</td>
<td></td>
<td>Expand list</td>
<td></td>
</tr>
</tbody>
</table>

Field B

**Byte 1, bits 4-7**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>Exit</th>
<th></th>
</tr>
</thead>
</table>

For function code X'A099'

Field A, bytes 1, 3

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>Normal response</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>00,00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>00,04</td>
<td></td>
<td>Some installs failed</td>
<td></td>
</tr>
<tr>
<td>00,08</td>
<td></td>
<td>Install errors</td>
<td></td>
</tr>
<tr>
<td>01,08</td>
<td></td>
<td>Bad list - retry</td>
<td></td>
</tr>
<tr>
<td>00,0C</td>
<td></td>
<td>Severe errors, unable to continue</td>
<td></td>
</tr>
</tbody>
</table>

Field B

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>Reason</th>
<th></th>
</tr>
</thead>
</table>

For function code other than X'A099'

Field A, byte 3

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>Normal response</th>
<th>DISPLAY, EXPAND already active</th>
</tr>
</thead>
<tbody>
<tr>
<td>X'00'</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>X'01'</td>
<td></td>
<td></td>
<td>DISPLAY, EXPAND already active</td>
</tr>
<tr>
<td>X'02'</td>
<td></td>
<td></td>
<td>CSD accessing error</td>
</tr>
<tr>
<td>X'03'</td>
<td></td>
<td></td>
<td>Duplicate resource or group</td>
</tr>
<tr>
<td>X'04'</td>
<td></td>
<td></td>
<td>End of display</td>
</tr>
<tr>
<td>X'08'</td>
<td></td>
<td></td>
<td>INSTALL failed</td>
</tr>
<tr>
<td>X'09'</td>
<td></td>
<td></td>
<td>Invalid keyword</td>
</tr>
<tr>
<td>X'0A'</td>
<td></td>
<td></td>
<td>Conflicting keywords</td>
</tr>
<tr>
<td>X'0B'</td>
<td></td>
<td></td>
<td>List is group</td>
</tr>
<tr>
<td>X'0C'</td>
<td></td>
<td></td>
<td>Group or list is locked</td>
</tr>
<tr>
<td>X'D'</td>
<td></td>
<td></td>
<td>No keyword specified</td>
</tr>
<tr>
<td>X'0E'</td>
<td></td>
<td></td>
<td>After, before group not in list</td>
</tr>
<tr>
<td>X'0F'</td>
<td></td>
<td></td>
<td>DISPLAY, EXPAND not active</td>
</tr>
<tr>
<td>X'10'</td>
<td></td>
<td></td>
<td>GROUP, LIST, RESOURCE not found</td>
</tr>
<tr>
<td>X'11'</td>
<td></td>
<td></td>
<td>DEFINE REPLACE TIMESTAMP conflict</td>
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<tr>
<td>X'12'</td>
<td></td>
<td></td>
<td>Not allowed</td>
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Field B, byte 3

<table>
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<tr>
<th></th>
<th></th>
<th>Reason</th>
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</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>No error</th>
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</tr>
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<tbody>
<tr>
<td>X'00'</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>X'01'</td>
<td></td>
<td>AFTER name invalid</td>
<td></td>
</tr>
<tr>
<td>X'02'</td>
<td></td>
<td>BEFORE name invalid</td>
<td></td>
</tr>
<tr>
<td>X'03'</td>
<td></td>
<td>CSD control record corrupt</td>
<td></td>
</tr>
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## Resource field

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte</th>
<th>Value</th>
<th>Contents</th>
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<tr>
<td>X'04'</td>
<td></td>
<td>CSD disabled</td>
<td></td>
</tr>
<tr>
<td>X'05'</td>
<td></td>
<td>Data set ID error</td>
<td></td>
</tr>
<tr>
<td>X'06'</td>
<td></td>
<td>CSD full</td>
<td></td>
</tr>
<tr>
<td>X'07'</td>
<td></td>
<td>CSD READ</td>
<td>WRITE error</td>
</tr>
<tr>
<td>X'08'</td>
<td></td>
<td>Cannot CONNECT to CSD</td>
<td></td>
</tr>
<tr>
<td>X'09'</td>
<td></td>
<td>Insufficient function in FCP</td>
<td></td>
</tr>
<tr>
<td>X'0A'</td>
<td></td>
<td>Insufficient function in FCT entry</td>
<td></td>
</tr>
<tr>
<td>X'0B'</td>
<td></td>
<td>CSD not OPEN</td>
<td></td>
</tr>
<tr>
<td>X'0C'</td>
<td></td>
<td>VSAM share options</td>
<td></td>
</tr>
<tr>
<td>X'0D'</td>
<td></td>
<td>VSAM STRNO limit exceeded</td>
<td></td>
</tr>
<tr>
<td>X'0E'</td>
<td></td>
<td>Cannot OPEN CSD</td>
<td></td>
</tr>
<tr>
<td>X'0F'</td>
<td></td>
<td>DISPLAY command not active</td>
<td></td>
</tr>
<tr>
<td>X'10'</td>
<td></td>
<td>EXPAND command active</td>
<td></td>
</tr>
<tr>
<td>X'11'</td>
<td></td>
<td>Group not found</td>
<td></td>
</tr>
<tr>
<td>X'12'</td>
<td></td>
<td>DEFINE created a new group</td>
<td></td>
</tr>
<tr>
<td>X'13'</td>
<td></td>
<td>Groupname invalid</td>
<td></td>
</tr>
<tr>
<td>X'14'</td>
<td></td>
<td>IBM® protected</td>
<td></td>
</tr>
<tr>
<td>X'15'</td>
<td></td>
<td>BROWSE, START commands inconsistent</td>
<td></td>
</tr>
<tr>
<td>X'17'</td>
<td></td>
<td>List not found</td>
<td></td>
</tr>
<tr>
<td>X'18'</td>
<td></td>
<td>ADD created a new list</td>
<td></td>
</tr>
<tr>
<td>X'19'</td>
<td></td>
<td>Listname in error</td>
<td></td>
</tr>
<tr>
<td>X'1A'</td>
<td></td>
<td>Group not in list</td>
<td></td>
</tr>
<tr>
<td>X'1B'</td>
<td></td>
<td>Resource not found</td>
<td></td>
</tr>
<tr>
<td>X'1C'</td>
<td></td>
<td>Resource name invalid</td>
<td></td>
</tr>
<tr>
<td>X'1D'</td>
<td></td>
<td>Resource type invalid</td>
<td></td>
</tr>
<tr>
<td>X'1E'</td>
<td></td>
<td>Locked internally by command in progress</td>
<td></td>
</tr>
<tr>
<td>X'1F'</td>
<td></td>
<td>Group or list locked to you</td>
<td></td>
</tr>
<tr>
<td>X'20'</td>
<td></td>
<td>Group or list not locked</td>
<td></td>
</tr>
<tr>
<td>X'21'</td>
<td></td>
<td>Locked to another user</td>
<td></td>
</tr>
</tbody>
</table>

## Definition management program

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 00EC</td>
<td></td>
<td>X'3'</td>
<td>Entry</td>
</tr>
<tr>
<td>DFHDMF</td>
<td></td>
<td>X'00'</td>
<td>Router</td>
</tr>
<tr>
<td>AP Lvl 1</td>
<td></td>
<td></td>
<td>Function code</td>
</tr>
<tr>
<td></td>
<td></td>
<td>XD001'</td>
<td>Connect</td>
</tr>
<tr>
<td></td>
<td></td>
<td>XD002'</td>
<td>Disconnect</td>
</tr>
<tr>
<td></td>
<td></td>
<td>XD003'</td>
<td>Build key</td>
</tr>
<tr>
<td></td>
<td></td>
<td>XD004'</td>
<td>Read</td>
</tr>
<tr>
<td></td>
<td></td>
<td>XD005'</td>
<td>Write</td>
</tr>
<tr>
<td></td>
<td></td>
<td>XD006'</td>
<td>Delete</td>
</tr>
<tr>
<td></td>
<td></td>
<td>XD007'</td>
<td>Lock</td>
</tr>
<tr>
<td></td>
<td></td>
<td>XD008'</td>
<td>Unlock</td>
</tr>
<tr>
<td></td>
<td></td>
<td>XD009'</td>
<td>Set browse</td>
</tr>
<tr>
<td></td>
<td></td>
<td>XD00A'</td>
<td>End browse</td>
</tr>
<tr>
<td></td>
<td></td>
<td>XD00B'</td>
<td>Get next</td>
</tr>
<tr>
<td></td>
<td></td>
<td>XD00C'</td>
<td>Create set</td>
</tr>
<tr>
<td></td>
<td></td>
<td>XD00E'</td>
<td>Query set</td>
</tr>
<tr>
<td></td>
<td></td>
<td>XD00F'</td>
<td>Erase set</td>
</tr>
<tr>
<td></td>
<td></td>
<td>XD010'</td>
<td>Release KWA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>bytes 2-3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Definition management program</th>
<th>Point ID</th>
<th>Byte</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 00EC, DFHDMF</td>
<td>AP 00EC</td>
<td></td>
<td>X'3'</td>
<td>Entry</td>
</tr>
<tr>
<td>DFHDMF AP Lvl 1</td>
<td>DFHDMF</td>
<td></td>
<td>X'00'</td>
<td>Router</td>
</tr>
<tr>
<td></td>
<td>AP Lvl 1</td>
<td></td>
<td></td>
<td>Function code</td>
</tr>
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</table>
### Table 22. AP 00EC, DFHDMF trace entries (continued)

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td>X'01'</td>
<td>Connect</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'02'</td>
<td>Disconnect</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'03'</td>
<td>Write</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'04'</td>
<td>Read</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'05'</td>
<td>Delete</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'06'</td>
<td>(Un)lock</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'08'</td>
<td>Start browse</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'09'</td>
<td>Get next</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'0A'</td>
<td>End browse</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'0B'</td>
<td>Create set</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'0D'</td>
<td>Query set</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'0F'</td>
<td>Access primary control record</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'10'</td>
<td>Build KWA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'11'</td>
<td>Release KWA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'12'</td>
<td>Tokenize key</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'13'</td>
<td>Free tokens</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'15'</td>
<td>Generic qualify</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'16'</td>
<td>Seq ordered set</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'17'</td>
<td>Verify KWA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'63'</td>
<td>Adapter</td>
</tr>
</tbody>
</table>

Field A, bytes 0-1

Function code

- X'D201' GETMAIN
- X'D202' FREEMAIN
- X'D203' FREEFWA
- X'D204' Get
- X'D205' Set browse
- X'D206' Get next
- X'D207' Get previous
- X'D208' End browse
- X'D209' Put
- X'D20A' Delete
- X'D20B' Query CSD
- X'D20C' Gettime
- X'D20D' Gettis
- X'D20E' Wait
- X'D20F' Load
- X'D210' Open
- X'D211' Close
- X'D215' Free tils
- X'D216' Unload

Field B, bytes 2-3

Reserved

Field B, Byte 1, bits 4-7

- X'5' Exit

Field A, byte 3

- X'00' Normal response
- X'04' Warning
- X'08' Error
- X'0C' Severe error
- X'0C' Terminating

Field B, byte 3

- X'01' CSD empty or not initialized
- X'02' Invalid request
- X'03' CSD cannot be connected

---

**Resource field**

**Chapter 1. AP domain trace points – ‘old style’** 19
### Terminal object resolution

**Table 23. AP 00EF, DFHTOR trace entries**

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 00EF</td>
<td>Byte 1</td>
<td>X'3'</td>
<td>Entry</td>
</tr>
<tr>
<td>DFHTOR</td>
<td>Byte 0</td>
<td>X'01'</td>
<td>Main program</td>
</tr>
<tr>
<td>AP Lvl 1</td>
<td>Field A</td>
<td>X'E301'</td>
<td>Add</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'E302'</td>
<td>End lcr</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'E304'</td>
<td>End luw</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'E305'</td>
<td>End lu6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'E314'</td>
<td>End luw commit</td>
</tr>
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### Resource field

#### Table 23. AP 00EF, DFHTOR trace entries (continued)

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>X'324'</td>
<td>End luw cancel</td>
</tr>
<tr>
<td>bytes 2-3</td>
<td></td>
<td>Reserved</td>
<td></td>
</tr>
<tr>
<td>Field B</td>
<td>Byte 0</td>
<td>X'02'</td>
<td>Add nonpooled terminal</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'03'</td>
<td>Add pooled terminal</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'04'</td>
<td>Add TYPETERM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'05'</td>
<td>Add connection</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'06'</td>
<td>Add sessions</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'07'</td>
<td>End group event 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'08'</td>
<td>End group event 2</td>
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<tr>
<td></td>
<td></td>
<td>X'09'</td>
<td>DWE commit</td>
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<td></td>
<td></td>
<td>X'0A'</td>
<td>DWE cancel</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'0B'</td>
<td>Utility 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'0C'</td>
<td>Utility 2</td>
</tr>
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<td></td>
<td>X'10'</td>
<td>Model retrieval</td>
</tr>
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<td></td>
<td></td>
<td>X'11'</td>
<td>Create terminal BPS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'12'</td>
<td>Recovery program</td>
</tr>
<tr>
<td>Byte 1, bits 4-7</td>
<td>X'5'</td>
<td>Exit</td>
<td></td>
</tr>
<tr>
<td>Field A, byte 3</td>
<td>X'00'</td>
<td>Normal response</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'04'</td>
<td>Warning</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'08'</td>
<td>Error</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'0C'</td>
<td>Severe error</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'0C'</td>
<td>Terminating</td>
<td></td>
</tr>
<tr>
<td>Field B, bytes 2-3</td>
<td>X'0000'</td>
<td>No error</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'000D'</td>
<td>Invalid request</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'00C8'</td>
<td>Start luw</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'00C9'</td>
<td>Add connection</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'00CA'</td>
<td>Add pooled terminal</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'00CB'</td>
<td>Add session</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'00CC'</td>
<td>Add terminal</td>
<td></td>
</tr>
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<td></td>
<td>X'00CD'</td>
<td>Add typeterm</td>
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</tr>
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<td></td>
<td>X'00CE'</td>
<td>End lcr</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'00CF'</td>
<td>End lui</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'00D0'</td>
<td>End luw cancel</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'00D1'</td>
<td>End luw commit</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X'0130'</td>
<td>Error</td>
<td></td>
</tr>
</tbody>
</table>

#### Interval control

#### Table 24. AP 00F3, DFHICP trace entries

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 00F3</td>
<td>Byte 1, bits 4-7</td>
<td>X'3'</td>
<td>Entry</td>
</tr>
<tr>
<td>DFHICP</td>
<td>Byte 0</td>
<td>0001 00..</td>
<td>GETIME</td>
</tr>
<tr>
<td>IC Lvl 1</td>
<td>Field A</td>
<td>0001 00..</td>
<td>Return time to user address, TCAICDA</td>
</tr>
<tr>
<td></td>
<td>Field B</td>
<td>Reserved</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Byte 0</td>
<td>0001 ...0</td>
<td>Binary format</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0001 ...1</td>
<td>Packed format</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0001 ..0.</td>
<td>Refresh CSA time only</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0001 ..1.</td>
<td>Return time to user</td>
</tr>
<tr>
<td></td>
<td>Byte 0</td>
<td>0010 ...0</td>
<td>WAIT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0011 ...0</td>
<td>POST</td>
</tr>
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</table>
### Table 24. AP 00F3, DFHiCP trace entries (continued)

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field A</td>
<td>INTERVAL or TIME value, TCAICRT</td>
<td></td>
</tr>
<tr>
<td>Field B</td>
<td>Reserved</td>
<td></td>
</tr>
<tr>
<td><strong>Byte 0</strong></td>
<td>0010 .00.</td>
<td>No request ID provided</td>
</tr>
<tr>
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<td>001. .01.</td>
<td>Request ID prefix in TCAICQPX</td>
</tr>
<tr>
<td></td>
<td>001. .10.</td>
<td>Request ID in TCAICQID</td>
</tr>
<tr>
<td></td>
<td>001. 0...</td>
<td>INTERVAL specified</td>
</tr>
<tr>
<td></td>
<td>001. 1...</td>
<td>TIME specified</td>
</tr>
<tr>
<td><strong>Byte 0</strong></td>
<td>0100 ....</td>
<td>INITIATE</td>
</tr>
<tr>
<td></td>
<td>0101 ....</td>
<td>PUT</td>
</tr>
<tr>
<td></td>
<td>0110 ....</td>
<td>INITIATE</td>
</tr>
<tr>
<td></td>
<td>0111 ....</td>
<td>PUT</td>
</tr>
<tr>
<td>Field A</td>
<td>INTERVAL or TIME value, TCAICRT</td>
<td></td>
</tr>
<tr>
<td>Field B</td>
<td>Reserved</td>
<td></td>
</tr>
<tr>
<td><strong>Byte 0</strong></td>
<td>01.. .00.</td>
<td>Nonterminal dest</td>
</tr>
<tr>
<td></td>
<td>01.. .1</td>
<td>Terminal dest</td>
</tr>
<tr>
<td></td>
<td>01.. .00.</td>
<td>No request ID supplied</td>
</tr>
<tr>
<td></td>
<td>01.. .01.</td>
<td>Request ID prefix in TCAICQPX</td>
</tr>
<tr>
<td></td>
<td>01.. .10.</td>
<td>Request ID in TCAICQID</td>
</tr>
<tr>
<td></td>
<td>01.. 0...</td>
<td>INTERVAL supplied</td>
</tr>
<tr>
<td></td>
<td>01.. 1...</td>
<td>TIME supplied</td>
</tr>
<tr>
<td><strong>Byte 0</strong></td>
<td>1000 00..</td>
<td>GET</td>
</tr>
<tr>
<td>Field A</td>
<td>User-provided data address</td>
<td></td>
</tr>
<tr>
<td>Field B</td>
<td>Reserved</td>
<td></td>
</tr>
<tr>
<td><strong>Byte 0</strong></td>
<td>1000 ...1</td>
<td>RELEASE=NO</td>
</tr>
<tr>
<td></td>
<td>1000 .0</td>
<td>Data address specified</td>
</tr>
<tr>
<td></td>
<td>1000 .1</td>
<td>Return address to user</td>
</tr>
<tr>
<td></td>
<td>1000 1...</td>
<td>WAIT specified</td>
</tr>
<tr>
<td></td>
<td>1001 000.</td>
<td>RETRY</td>
</tr>
<tr>
<td></td>
<td>1001 ...1</td>
<td>RELEASE=NO</td>
</tr>
<tr>
<td><strong>Byte 0</strong></td>
<td>1010 0000</td>
<td>RESET</td>
</tr>
<tr>
<td></td>
<td>1011 0000</td>
<td>SCHEDULE</td>
</tr>
<tr>
<td></td>
<td>1100 ....</td>
<td>EXPIRY ANALYSIS</td>
</tr>
<tr>
<td></td>
<td>1101 ....</td>
<td>RECOVERY CALL</td>
</tr>
<tr>
<td>Field A</td>
<td>Reserved</td>
<td></td>
</tr>
<tr>
<td>Field B</td>
<td>Reserved</td>
<td></td>
</tr>
<tr>
<td><strong>Byte 0</strong></td>
<td>1111 ....</td>
<td>Use extended function code</td>
</tr>
<tr>
<td>Field A, byte 0</td>
<td>X'01'</td>
<td>SEARCH</td>
</tr>
<tr>
<td></td>
<td>X'02'</td>
<td>RESUME_GET_WAITS</td>
</tr>
<tr>
<td>Field B</td>
<td>Reserved</td>
<td></td>
</tr>
<tr>
<td><strong>Byte 0</strong></td>
<td>1111 0.00</td>
<td>CANCEL</td>
</tr>
<tr>
<td></td>
<td>1111 .0..</td>
<td>No request ID provided</td>
</tr>
<tr>
<td></td>
<td>1111 .1..</td>
<td>Request ID specified</td>
</tr>
<tr>
<td><strong>Byte 1, bits 4-7</strong></td>
<td>X'5'</td>
<td>Exit</td>
</tr>
<tr>
<td><strong>Byte 0</strong></td>
<td>X'00'</td>
<td>Return code</td>
</tr>
<tr>
<td></td>
<td>X'01'</td>
<td>NORESP</td>
</tr>
<tr>
<td></td>
<td>X'04'</td>
<td>ENDATA</td>
</tr>
<tr>
<td></td>
<td>X'05'</td>
<td>IERROR</td>
</tr>
<tr>
<td></td>
<td>X'08'</td>
<td>FOUND</td>
</tr>
<tr>
<td></td>
<td>X'11'</td>
<td>TRNIDER</td>
</tr>
<tr>
<td></td>
<td>X'12'</td>
<td>TRMIDER</td>
</tr>
<tr>
<td></td>
<td>X'14'</td>
<td>TSINVLD</td>
</tr>
<tr>
<td></td>
<td>X'20'</td>
<td>EXPIRD</td>
</tr>
<tr>
<td></td>
<td>X'40'</td>
<td>NOT_FOUND (search)</td>
</tr>
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</table>
Table 24. AP 00F3, DFHICP trace entries (continued)

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>X'81'</td>
<td>NOTFND</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'FF'</td>
<td>INVREQ</td>
</tr>
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Temporary storage

Table 25. AP 00F7, DFHTSP trace entries

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 00F7</td>
<td></td>
<td>X'03'</td>
<td>Application request</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'13'</td>
<td>Start of DWE logic</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'23'</td>
<td>Start of cancel logic</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'05'</td>
<td>Appl response</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'00'</td>
<td>NORESP</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'01'</td>
<td>ENERROR</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'02'</td>
<td>IDERROR</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'04'</td>
<td>IOERROR</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'08'</td>
<td>NOSPACE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'20'</td>
<td>INVREQ</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'00'</td>
<td>Reserved</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'02'</td>
<td>Reserved</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'15'</td>
<td>End of DWE logic</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'25'</td>
<td>End of cancel logic</td>
</tr>
</tbody>
</table>

Basic mapping support

Table 26. AP 00FA, DFHBMS trace entries

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 00FA</td>
<td></td>
<td>X'00'</td>
<td>Entry</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'01'</td>
<td>OPCLASS=operator class</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'02'</td>
<td>LIST=symbolic address</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'04'</td>
<td>LIST=ALL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'08'</td>
<td>TIME=numeric</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'10'</td>
<td>INTERVAL=numeric</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'20'</td>
<td>ERRTERM=termid</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'40'</td>
<td>ERRTERM=ORIG</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'80'</td>
<td>TYPE=ROUTE</td>
</tr>
<tr>
<td></td>
<td>byte 1</td>
<td>X'01'</td>
<td>TYPE=PURGE</td>
</tr>
<tr>
<td></td>
<td>byte 1</td>
<td>X'04'</td>
<td>Send partition set</td>
</tr>
<tr>
<td></td>
<td>byte 1</td>
<td>X'08'</td>
<td>IOTYPE=IMMED</td>
</tr>
<tr>
<td></td>
<td>byte 1</td>
<td>X'10'</td>
<td>LDC=mnemonic or YES</td>
</tr>
<tr>
<td></td>
<td>byte 1</td>
<td>X'20'</td>
<td>REQID=alphanum.</td>
</tr>
<tr>
<td></td>
<td>byte 1</td>
<td>X'40'</td>
<td>PROPT=NLEOM</td>
</tr>
<tr>
<td></td>
<td>byte 1</td>
<td>X'80'</td>
<td>TITLE=symbolic address</td>
</tr>
<tr>
<td></td>
<td>byte 2</td>
<td>X'01'</td>
<td>MAPSET=map set name</td>
</tr>
<tr>
<td></td>
<td>byte 2</td>
<td>X'02'</td>
<td>MSETADR=symbolic address</td>
</tr>
<tr>
<td></td>
<td>byte 2</td>
<td>X'04'</td>
<td>MAP=map name</td>
</tr>
</tbody>
</table>
### Table 26. AP 00FA, DFHBMS trace entries (continued)

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>X’08’</td>
<td></td>
<td>CTRL=any 3270 WCC</td>
<td></td>
</tr>
<tr>
<td>X’10’</td>
<td></td>
<td>CURSOR=number</td>
<td></td>
</tr>
<tr>
<td>X’20’</td>
<td></td>
<td>TYPE=TEXT</td>
<td></td>
</tr>
<tr>
<td>X’40’</td>
<td></td>
<td>Receive partition set</td>
<td></td>
</tr>
<tr>
<td>X’80’</td>
<td></td>
<td>TYPE=LAST</td>
<td></td>
</tr>
<tr>
<td>byte 3</td>
<td></td>
<td>X’01’</td>
<td>TYPE=IN</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X’02’</td>
<td>TYPE=ERASE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X’04’</td>
<td>TYPE=MAP</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X’08’</td>
<td>TYPE=WAIT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X’10’</td>
<td>MAPADR=symbolic address</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X’20’</td>
<td>TYPE=SAVE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X’40’</td>
<td>DATA=NO</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X’C0’</td>
<td>DATA=YES</td>
</tr>
<tr>
<td>Field B, byte 0</td>
<td>X’01’</td>
<td>TYPE=RETURN</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>X’02’</td>
<td>TYPE=STORE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X’04’</td>
<td>TYPE=OUT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X’20’</td>
<td>TYPE=ERASEAUP</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X’40’</td>
<td>OFLOW=symbolic address</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X’80’</td>
<td>TYPE=PAGEBLD</td>
</tr>
<tr>
<td>byte 1</td>
<td></td>
<td>X’01’</td>
<td>EODPURG=OPER</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X’02’</td>
<td>WRBRK=ALL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X’04’</td>
<td>WRBRK=CURRENT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X’08’</td>
<td>CTRL=RELEASE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X’10’</td>
<td>CTRL=RETAIN</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X’20’</td>
<td>CTRL=PAGE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X’40’</td>
<td>CTRL=AUTOPAGE</td>
</tr>
<tr>
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<td></td>
<td>X’80’</td>
<td>TYPE=PAGEOUT</td>
</tr>
<tr>
<td>byte 2</td>
<td></td>
<td>X’01’</td>
<td>TYPE=NOEDIT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X’04’</td>
<td>Active partition</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X’08’</td>
<td>Out partition</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X’10’</td>
<td>JUSTIFY specified</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X’20’</td>
<td>TRAILER=symbolic address</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X’40’</td>
<td>HEADER=symbolic address</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X’80’</td>
<td>TYPE=TEXTBLD</td>
</tr>
<tr>
<td>byte 3</td>
<td></td>
<td>X’01’</td>
<td>Control</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X’04’</td>
<td>WRBRK=symbolic address</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X’08’</td>
<td>RDATT=symbolic address</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X’10’</td>
<td>FMHPARM=YES or parameter</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X’20’</td>
<td>Request by EXEC interface</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X’40’</td>
<td>Magnetic stripe reader</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X’80’</td>
<td>In partition</td>
</tr>
<tr>
<td>Byte 1, bits 4-7</td>
<td>X’5’</td>
<td>Exit</td>
<td></td>
</tr>
<tr>
<td>Field A, byte 0</td>
<td>X’00’</td>
<td>Normal response</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X’01’</td>
<td>Invalid request</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X’02’</td>
<td>Page returned</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X’04’</td>
<td>I/O area cannot be mapped</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X’08’</td>
<td>Map too large</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X’20’</td>
<td>Invalid error terminal</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X’40’</td>
<td>Route worked, some resolutions</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X’80’</td>
<td>Route failed, no resolutions</td>
<td></td>
</tr>
<tr>
<td>byte 1</td>
<td></td>
<td>X’02’</td>
<td>Partition fail</td>
</tr>
<tr>
<td></td>
<td>X’04’</td>
<td>Invalid partition</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X’08’</td>
<td>Invalid partition set</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X’10’</td>
<td>Invalid LDC mnemonic</td>
<td></td>
</tr>
</tbody>
</table>
### Resource field

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>X'80'</td>
<td>Temporary storage I/O error</td>
</tr>
<tr>
<td>byte 2</td>
<td></td>
<td>X'01'</td>
<td>PAGELBD overflow</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'02'</td>
<td>Inbound FMH in last input</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'04'</td>
<td>End-of-data-set in last input</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'08'</td>
<td>End-of-chain in last input</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'10'</td>
<td>Specified REQID ignored</td>
</tr>
<tr>
<td>byte 3</td>
<td></td>
<td></td>
<td>Terminal code when byte 0=X'08'</td>
</tr>
<tr>
<td>Field B</td>
<td></td>
<td></td>
<td>Reserved unless field A indicates PAGELBD overflow when:</td>
</tr>
<tr>
<td>bytes 0-1</td>
<td></td>
<td></td>
<td>Current page number</td>
</tr>
<tr>
<td>bytes 2-3</td>
<td></td>
<td></td>
<td>Overflow control number</td>
</tr>
<tr>
<td><strong>Byte 0</strong></td>
<td></td>
<td>X'01'</td>
<td>DFHRLR entry</td>
</tr>
<tr>
<td>Field A</td>
<td></td>
<td></td>
<td>Addr(OSPWA)</td>
</tr>
<tr>
<td>Field B</td>
<td></td>
<td></td>
<td>Addr(TCTTE)</td>
</tr>
<tr>
<td><strong>Byte 0</strong></td>
<td></td>
<td>X'02'</td>
<td>DFHPBP entry</td>
</tr>
<tr>
<td>Field A</td>
<td></td>
<td></td>
<td>Addr(TTP)</td>
</tr>
<tr>
<td>Field B</td>
<td></td>
<td></td>
<td>Addr(TIOA)</td>
</tr>
<tr>
<td><strong>Byte 0</strong></td>
<td></td>
<td>X'03'</td>
<td>DFHM32 entry</td>
</tr>
<tr>
<td>Field A</td>
<td></td>
<td></td>
<td>Addr(TTP)</td>
</tr>
<tr>
<td>Field B</td>
<td></td>
<td></td>
<td>Addr(TIOA)</td>
</tr>
<tr>
<td><strong>Byte 0</strong></td>
<td></td>
<td>X'04'</td>
<td>DFHML1 entry</td>
</tr>
<tr>
<td>Field A</td>
<td></td>
<td></td>
<td>Addr(TTP)</td>
</tr>
<tr>
<td>Field B</td>
<td></td>
<td></td>
<td>Addr(TIOA)</td>
</tr>
<tr>
<td><strong>Byte 0</strong></td>
<td></td>
<td>X'05'</td>
<td>DFHDSB entry</td>
</tr>
<tr>
<td>Field A</td>
<td></td>
<td></td>
<td>Addr(TTP)</td>
</tr>
<tr>
<td>Field B</td>
<td></td>
<td></td>
<td>Addr(TIOA)</td>
</tr>
<tr>
<td><strong>Byte 0</strong></td>
<td></td>
<td>X'06'</td>
<td>DFHTPP entry</td>
</tr>
<tr>
<td>Field A</td>
<td></td>
<td></td>
<td>Addr(TTP)</td>
</tr>
<tr>
<td>Field B</td>
<td></td>
<td></td>
<td>Addr(TIOA)</td>
</tr>
<tr>
<td><strong>Byte 0</strong></td>
<td></td>
<td>X'07'</td>
<td>DFHIIP entry</td>
</tr>
<tr>
<td>Field A</td>
<td></td>
<td></td>
<td>Addr(TTP)</td>
</tr>
<tr>
<td>Field B</td>
<td></td>
<td></td>
<td>Addr(TIOA)</td>
</tr>
<tr>
<td><strong>Byte 0</strong></td>
<td></td>
<td>X'41'</td>
<td>DFHRLR exit</td>
</tr>
<tr>
<td>Field A</td>
<td></td>
<td></td>
<td>Addr(OSPWA)</td>
</tr>
<tr>
<td>Field B</td>
<td></td>
<td></td>
<td>Addr(TIOA)</td>
</tr>
<tr>
<td><strong>Byte 0</strong></td>
<td></td>
<td>X'42'</td>
<td>DFHPBP exit</td>
</tr>
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<td>Field A</td>
<td></td>
<td></td>
<td>Addr(TTP)</td>
</tr>
<tr>
<td>Field B</td>
<td></td>
<td></td>
<td>Addr(TIOA)</td>
</tr>
<tr>
<td><strong>Byte 0</strong></td>
<td></td>
<td>X'43'</td>
<td>DFHM32 exit</td>
</tr>
<tr>
<td>Field A</td>
<td></td>
<td></td>
<td>Addr(TTP)</td>
</tr>
<tr>
<td>Field B</td>
<td></td>
<td></td>
<td>Addr(TIOA)</td>
</tr>
<tr>
<td><strong>Byte 0</strong></td>
<td></td>
<td>X'44'</td>
<td>DFHML1 exit</td>
</tr>
<tr>
<td>Field A</td>
<td></td>
<td></td>
<td>Addr(TTP)</td>
</tr>
<tr>
<td>Field B</td>
<td></td>
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<td>Addr(TIOA)</td>
</tr>
<tr>
<td><strong>Byte 0</strong></td>
<td></td>
<td>X'45'</td>
<td>DFHDSB exit</td>
</tr>
<tr>
<td>Field A</td>
<td></td>
<td></td>
<td>Addr(TTP)</td>
</tr>
<tr>
<td>Field B</td>
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<td>Addr(TIOA)</td>
</tr>
<tr>
<td><strong>Byte 0</strong></td>
<td></td>
<td>X'46'</td>
<td>DFHTPP exit</td>
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<td>Addr(TTP)</td>
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<tr>
<td>Field B</td>
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<td>Addr(TIOA)</td>
</tr>
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<td><strong>Byte 0</strong></td>
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<td>X'47'</td>
<td>DFHIIP exit</td>
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<td>Field A</td>
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<td></td>
<td>Addr(TTP)</td>
</tr>
<tr>
<td>Field B</td>
<td></td>
<td></td>
<td>Addr(TIOA)</td>
</tr>
<tr>
<td><strong>Byte 0</strong></td>
<td></td>
<td>X'81'</td>
<td>Query entry 1</td>
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<tr>
<td>Field A, byte 0</td>
<td></td>
<td>TCTE32EF</td>
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Resource field

Table 26. AP 00FA, DFHBMS trace entries (continued)

<table>
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<th>Byte</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>byte 1</td>
<td></td>
<td>TCTE32E2</td>
</tr>
<tr>
<td></td>
<td>byte 2</td>
<td></td>
<td>TCTE32E3</td>
</tr>
<tr>
<td></td>
<td>byte 3</td>
<td></td>
<td>TCTE32SF</td>
</tr>
<tr>
<td></td>
<td>Field B, bytes 0-1</td>
<td></td>
<td>TCTEASCZ</td>
</tr>
<tr>
<td></td>
<td>byte 2</td>
<td></td>
<td>TCTEASCL</td>
</tr>
<tr>
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<td>byte 3</td>
<td></td>
<td>TCTEASC2</td>
</tr>
<tr>
<td><strong>Byte 0</strong></td>
<td>X'82'</td>
<td></td>
<td>Query entry 2</td>
</tr>
<tr>
<td></td>
<td>Field A, byte 0</td>
<td></td>
<td>TCTETXTF</td>
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<tr>
<td></td>
<td>byte 1</td>
<td></td>
<td>TCTTEFMB</td>
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<tr>
<td></td>
<td>bytes 2-3</td>
<td></td>
<td>Reserved</td>
</tr>
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<td></td>
<td>Field B, bytes 0-1</td>
<td></td>
<td>TCTECGSG1</td>
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<td>bytes 2-3</td>
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<td>TCTECGSG2</td>
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Built-in function

Table 27. AP 00FB, DFHEBF trace entries

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<tbody>
<tr>
<td><strong>AP 00FB</strong></td>
<td></td>
<td>X'02'</td>
<td>DEEDIT</td>
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<tr>
<td>DFHEBF</td>
<td>Field A, bytes 0-1</td>
<td></td>
<td>Field length</td>
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<tr>
<td>BF Lvl 1</td>
<td>bytes 2-3</td>
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<td>Reserved</td>
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<td>Field B</td>
<td></td>
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<td>Field address</td>
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Terminal control

Table 28. AP 00FC, Terminal control

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<th>Byte</th>
<th>Value</th>
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<tbody>
<tr>
<td><strong>AP 00FC</strong></td>
<td></td>
<td>X'CA'</td>
<td>DFHTRZCP build terminal BPS</td>
</tr>
<tr>
<td>DFHZCP</td>
<td>Field A, bytes 0-1</td>
<td></td>
<td>Response</td>
</tr>
<tr>
<td></td>
<td>bytes 2-3</td>
<td></td>
<td>Reason</td>
</tr>
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<td></td>
<td>Field B, bytes 0-1</td>
<td></td>
<td>BPS_RTC</td>
</tr>
<tr>
<td></td>
<td>bytes 2-3</td>
<td></td>
<td>BPS_SUBTYPE</td>
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<tr>
<td><strong>Byte 0</strong></td>
<td>X'CB'</td>
<td></td>
<td>DFHTRZXP build connection BPS</td>
</tr>
<tr>
<td></td>
<td>Field A, bytes 0-1</td>
<td></td>
<td>Response</td>
</tr>
<tr>
<td></td>
<td>bytes 2-3</td>
<td></td>
<td>Reason</td>
</tr>
<tr>
<td></td>
<td>Field B, bytes 0-1</td>
<td></td>
<td>BPS_RTC</td>
</tr>
<tr>
<td></td>
<td>bytes 2-3</td>
<td></td>
<td>BPS_SUBTYPE</td>
</tr>
<tr>
<td><strong>Byte 0</strong></td>
<td>X'CC'</td>
<td></td>
<td>DFHTRZIP build sessions BPS</td>
</tr>
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<td>Field A, bytes 0-1</td>
<td></td>
<td>Response</td>
</tr>
<tr>
<td></td>
<td>bytes 2-3</td>
<td></td>
<td>Reason</td>
</tr>
<tr>
<td></td>
<td>Field B, bytes 0-1</td>
<td></td>
<td>BPS_RTC</td>
</tr>
<tr>
<td></td>
<td>bytes 2-3</td>
<td></td>
<td>BPS_SUBTYPE</td>
</tr>
<tr>
<td><strong>Byte 0</strong></td>
<td>X'CD'</td>
<td></td>
<td>DFHTRZYP build type BPS</td>
</tr>
<tr>
<td></td>
<td>Field A, bytes 0-1</td>
<td></td>
<td>Response</td>
</tr>
<tr>
<td></td>
<td>bytes 2-3</td>
<td></td>
<td>Reason</td>
</tr>
<tr>
<td></td>
<td>Field B, bytes 0-1</td>
<td></td>
<td>BPS_RTC</td>
</tr>
<tr>
<td></td>
<td>bytes 2-3</td>
<td></td>
<td>BPS_SUBTYPE</td>
</tr>
<tr>
<td><strong>Byte 0</strong></td>
<td>X'CE'</td>
<td></td>
<td>DFHTRZPP build pool BPS</td>
</tr>
<tr>
<td></td>
<td>Field A, bytes 0-1</td>
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<td>Response</td>
</tr>
<tr>
<td></td>
<td>bytes 2-3</td>
<td></td>
<td>Reason</td>
</tr>
<tr>
<td></td>
<td>Field B, bytes 0-1</td>
<td></td>
<td>BPS_RTC</td>
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<td></td>
<td>bytes 2-3</td>
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<td>BPS_SUBTYPE</td>
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<tr>
<td><strong>Byte 0</strong></td>
<td>X'CF'</td>
<td></td>
<td>DFHTRZZP merge terminal and type BPS</td>
</tr>
<tr>
<td>Point ID</td>
<td>Byte</td>
<td>Value</td>
<td>Contents</td>
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</tr>
<tr>
<td>Field A, bytes 0-1</td>
<td>Field B, bytes 0-1</td>
<td>X'D3'</td>
<td>DFHZXSTS set logon</td>
</tr>
<tr>
<td>Field A</td>
<td>Field B</td>
<td>Reserved</td>
<td>Reserved</td>
</tr>
<tr>
<td>Field A, byte 0</td>
<td>Field B</td>
<td>X'D5'</td>
<td>DFHTCPRS</td>
</tr>
<tr>
<td>Field A</td>
<td>Field B</td>
<td>'S'</td>
<td>Schedule action</td>
</tr>
<tr>
<td>Field A, byte 0</td>
<td>Field B</td>
<td>'M'</td>
<td>Give ZXQ0 an error message for display purposes</td>
</tr>
<tr>
<td>byte 1</td>
<td>Field B</td>
<td>Response code</td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>Field B</td>
<td>XQ0_RSP_NORMAL</td>
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<td>1</td>
<td>Field B</td>
<td>XQ0_RSP_SCHEDULE</td>
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<tr>
<td>4</td>
<td>Field B</td>
<td>XQ0_RSP_ERROR</td>
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</tr>
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<td>Field B</td>
<td>Address of token used to correlate the initiated action and its completion (done by ZNAC)</td>
<td></td>
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</tr>
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<td>Field A, byte 0</td>
<td>Field B</td>
<td>X'D6'</td>
<td>DFHTCRPC</td>
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<tr>
<td>Field A</td>
<td>Field B</td>
<td>'S'</td>
<td>Schedule action</td>
</tr>
<tr>
<td>Field A, byte 0</td>
<td>Field B</td>
<td>'M'</td>
<td>Give ZXQ0 an error message for display purposes</td>
</tr>
<tr>
<td>byte 1</td>
<td>Field B</td>
<td>Response code</td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>Field B</td>
<td>XQ0_RSP_NORMAL</td>
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</tr>
<tr>
<td>1</td>
<td>Field B</td>
<td>XQ0_RSP_SCHEDULE</td>
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<td>&gt;4</td>
<td>Field B</td>
<td>Error code returned by ZCP RECOVER</td>
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<tr>
<td>Field B</td>
<td>Address of token used to correlate the initiated action and its completion (done by ZNAC)</td>
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<td>Field A, byte 0</td>
<td>Field B</td>
<td>X'D7'</td>
<td>DFHZXRE0 valid on the return/exit trace</td>
</tr>
<tr>
<td>Field A</td>
<td>Field B</td>
<td>Passnumber</td>
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<td>byte 1</td>
<td>Field B</td>
<td>Number of unbound entries</td>
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</tr>
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<td>byte 2</td>
<td>Field B</td>
<td>Number of standby-bound entries</td>
<td></td>
</tr>
<tr>
<td>byte 3</td>
<td>Field B</td>
<td>Number with TCTEXRE set in error</td>
<td></td>
</tr>
<tr>
<td>Field B</td>
<td>Address of last TCTTE processed if error</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Field A, byte 0</td>
<td>Field B</td>
<td>X'D8'</td>
<td>DFHZXQ0 exit trace</td>
</tr>
<tr>
<td>Field A</td>
<td>Field B</td>
<td>XQ0-REQCODE</td>
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<tr>
<td>'I'</td>
<td>Field B</td>
<td>Initialize</td>
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</tr>
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<td>'A'</td>
<td>Field B</td>
<td>Add action</td>
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</tr>
<tr>
<td>'P'</td>
<td>Field B</td>
<td>Post</td>
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</tr>
<tr>
<td>'D'</td>
<td>Field B</td>
<td>Drain</td>
<td></td>
</tr>
<tr>
<td>bytes 2-3</td>
<td>Field B</td>
<td>XQ0-RESPONSE</td>
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<td>0</td>
<td>Field B</td>
<td>Complete</td>
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</tr>
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<td>1</td>
<td>Field B</td>
<td>Scheduled</td>
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</tr>
<tr>
<td>3</td>
<td>Field B</td>
<td>Queued</td>
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</tr>
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<td>4</td>
<td>Field B</td>
<td>GMU</td>
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</tr>
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<td>8</td>
<td>Field B</td>
<td>Invreq</td>
<td></td>
</tr>
<tr>
<td>Field B</td>
<td>Address(action)</td>
<td></td>
<td></td>
</tr>
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<td>Field A, byte 0</td>
<td>Field B</td>
<td>X'D9'</td>
<td>DFHZXST exit trace</td>
</tr>
<tr>
<td>Field A</td>
<td>Field B</td>
<td>X'00'</td>
<td>BIND complete in active</td>
</tr>
<tr>
<td>Field A, byte 0</td>
<td>Field B</td>
<td>X'01'</td>
<td>Logon data free in active</td>
</tr>
<tr>
<td>Field A, byte 0</td>
<td>Field B</td>
<td>X'02'</td>
<td>UNBIND complete in active</td>
</tr>
<tr>
<td>Field A, byte 0</td>
<td>Field B</td>
<td>X'03'</td>
<td>BOUND catch-up in active</td>
</tr>
<tr>
<td>Field A, byte 0</td>
<td>Field B</td>
<td>X'05'</td>
<td>UNBOUND catch-up in active</td>
</tr>
<tr>
<td>Field B</td>
<td>Addr(TCTTE)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Field A, byte 0</td>
<td>Field B</td>
<td>X'FC'</td>
<td>Set logon start and modify USERVAR</td>
</tr>
<tr>
<td>Field A, byte 0</td>
<td>Field B</td>
<td>X'FD'</td>
<td>Drain session tracking and modify USERVAR</td>
</tr>
<tr>
<td>Field B</td>
<td>Reserved</td>
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</table>
### Resource field

**Table 28. AP 00FC, Terminal control (continued)**

<table>
<thead>
<tr>
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<th>Byte</th>
<th>Value</th>
<th>Contents</th>
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<tbody>
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<td>Field A, byte 0</td>
<td>X'FE'</td>
<td>REQCODE session tracking in alternate</td>
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<td>byte 1</td>
<td></td>
<td>RESPCODE</td>
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<td>X'0'</td>
<td>Complete</td>
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<td>X'1'</td>
<td>Scheduled</td>
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<td></td>
<td>X'4'</td>
<td>Error</td>
</tr>
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<td>byte 2</td>
<td></td>
<td>XTR-ST-REQUEST</td>
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<td></td>
<td>X'1'</td>
<td>BIND</td>
</tr>
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<td></td>
<td>X'2'</td>
<td>Free LOGON data</td>
</tr>
<tr>
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<td></td>
<td>X'3'</td>
<td>UNBIND</td>
</tr>
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<td>XTR-ST-FLAGS-1</td>
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<td>XRF-capable</td>
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<td>Field B</td>
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<td>XTR-XT-SESS-NAME netname</td>
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<td>Field A, byte 0</td>
<td>X'FF'</td>
<td>Action complete in alternate</td>
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</tr>
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<td>Field B</td>
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<td>Addr(TCTTE)</td>
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<tr>
<td><strong>Byte 0</strong></td>
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<td>X'DA'</td>
<td>DFHZXTR put/get header</td>
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<td></td>
<td>X'DB'</td>
<td>DFHZXTR put/get key</td>
</tr>
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<td></td>
<td>X'DC'</td>
<td>DFHZXTR put/get data</td>
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<td>Field A, bytes 0-1</td>
<td>X'0000'</td>
<td>Normal</td>
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<td>X'0401'</td>
<td>XRF inactive</td>
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<td>X'0402'</td>
<td>End of data</td>
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<td>X'0403'</td>
<td>Backup signed off</td>
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<td>X'0801'</td>
<td>Invalid request</td>
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<td>X'0802'</td>
<td>Service closed</td>
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<td>X'0803'</td>
<td>Task canceled</td>
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<td>X'0804'</td>
<td>Length error</td>
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<td>X'0805'</td>
<td>Overlap</td>
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<td>X'0806'</td>
<td>No destination</td>
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<td>X'0807'</td>
<td>Queue busy</td>
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<td>X'0808'</td>
<td>Program check</td>
</tr>
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<td>X'0809'</td>
<td>Abend</td>
</tr>
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<td>X'080A'</td>
<td>I/O error</td>
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<td>X'080B'</td>
<td>Format error</td>
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<td>X'080C'</td>
<td>Sequence number error</td>
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<td>X'080D'</td>
<td>System not active</td>
</tr>
<tr>
<td>bytes 2-3</td>
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<td>Data length</td>
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<td>Field B, bytes 0-1</td>
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<td>Record ID</td>
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<td>byte 2</td>
<td>X'C3'</td>
<td>Type</td>
</tr>
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<td>X'E2'</td>
<td>Contents</td>
</tr>
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<td></td>
<td>byte 3</td>
<td>X'01'</td>
<td>Request ID</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'02'</td>
<td>Put message</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'03'</td>
<td>Get message</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X'02'</td>
<td>Put request</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Put response</td>
</tr>
</tbody>
</table>

### Trace control

**Table 29. AP 00FE, trace control**

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 00FE</td>
<td>Byte 1, bits 4-7</td>
<td>X'D'</td>
<td>On/off entry</td>
</tr>
<tr>
<td>Trace turned on</td>
<td>Byte 0</td>
<td></td>
<td>Reserved</td>
</tr>
<tr>
<td></td>
<td>Byte 1, bits 0-3</td>
<td>X'0'</td>
<td>Images before trace request as follows:</td>
</tr>
</tbody>
</table>
### Table 29. AP 00FE, trace control (continued)

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>byte 8</td>
<td></td>
<td></td>
<td>CSATRMF1</td>
</tr>
<tr>
<td>byte 9</td>
<td></td>
<td></td>
<td>CSATRMF2</td>
</tr>
<tr>
<td>byte 10</td>
<td></td>
<td></td>
<td>CSATRMF3</td>
</tr>
<tr>
<td>byte 11</td>
<td></td>
<td></td>
<td>CSATRMF4</td>
</tr>
<tr>
<td>Field B</td>
<td></td>
<td></td>
<td>Images before trace request as follows:</td>
</tr>
<tr>
<td>byte 12</td>
<td></td>
<td></td>
<td>TCATRTR</td>
</tr>
<tr>
<td>byte 13</td>
<td></td>
<td></td>
<td>TCATRID</td>
</tr>
<tr>
<td>byte 14</td>
<td></td>
<td></td>
<td>TCATRMF</td>
</tr>
<tr>
<td>byte 15</td>
<td></td>
<td></td>
<td>TCATRID1</td>
</tr>
</tbody>
</table>

**Byte 1, bits 0-3** X'1'

Field A

| byte 8   |      |       | CSATRMF1 |
| byte 9   |      |       | CSATRMF2 |
| byte 10  |      |       | CSATRMF3 |
| byte 11  |      |       | CSATRMF4 |
| Field B  |      |       | Images after trace request as follows: |
| byte 12  |      |       | CSATRMF1 |
| byte 13  |      |       | CSATRMF2 |
| byte 14  |      |       | CSATRMF3 |
| byte 15  |      |       | CSATRMF4 |

### Table 30. AP 00FF, trace control

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Byte</th>
<th>Value</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 00FF</td>
<td></td>
<td>Bytes 0 thru 14</td>
<td>As for X'FE'</td>
</tr>
</tbody>
</table>

Trace turned off
Resource field
Chapter 2. AP domain trace points – ‘new style’

XPI trace put trace points

Trace point IDs in the range AP 0100 through AP 01FF are reserved for users of the XPI TRACE PUT function.

Trace points in common subroutines

Table 31. Trace points in common subroutines

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>** FF00</td>
<td>DFHSUWT</td>
<td>** 1</td>
<td>Entry</td>
<td>SUWT parameter list</td>
</tr>
<tr>
<td>** FF01</td>
<td>DFHSUWT</td>
<td>** 1</td>
<td>Exit</td>
<td>SUWT parameter list</td>
</tr>
<tr>
<td>** FF02</td>
<td>DFHSUWT</td>
<td>** 1</td>
<td>Before WTO MVS™ SVC call</td>
<td>WTO parameter</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>** FF03</td>
<td>DFHSUWT</td>
<td>** 1</td>
<td>After WTO MVS SVC call</td>
<td>WTO parameter list</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>** FF04</td>
<td>DFHSUWT</td>
<td>** 1</td>
<td>Before WTOR MVS SVC call</td>
<td>WTOR parameter list</td>
</tr>
<tr>
<td>** FF05</td>
<td>DFHSUWT</td>
<td>** 1</td>
<td>After WTOR MVS SVC call</td>
<td>WTOR parameter list</td>
</tr>
<tr>
<td>** FF06</td>
<td>DFHSUWT</td>
<td>Exc</td>
<td>WTOR operator message exceeded maximum length</td>
<td>SUWT parameter list</td>
</tr>
<tr>
<td>** FF07</td>
<td>DFHSUWT</td>
<td>Exc</td>
<td>WTOR operator message exceeded maximum length</td>
<td>SUWT parameter list</td>
</tr>
<tr>
<td>** FF08</td>
<td>DFHSUWT</td>
<td>Exc</td>
<td>Reply area not allocated</td>
<td>SUWT parameter list</td>
</tr>
<tr>
<td>** FF09</td>
<td>DFHSUWT</td>
<td>Exc</td>
<td>DS call error</td>
<td>DSSR parameter list</td>
</tr>
<tr>
<td>** FF0A</td>
<td>DFHSUWT</td>
<td>Exc</td>
<td>Unformatted message</td>
<td>SUWT parameter list</td>
</tr>
<tr>
<td>** FF0B</td>
<td>DFHSUWT</td>
<td>Exc</td>
<td>Invalid route code</td>
<td>SUWT parameter list</td>
</tr>
<tr>
<td>** FF0C</td>
<td>DFHSUWT</td>
<td>Exc</td>
<td>Invalid descriptor code</td>
<td>SUWT parameter list</td>
</tr>
<tr>
<td>** FF0D</td>
<td>DFHSUWT</td>
<td>Exc</td>
<td>Line formatting error</td>
<td>SUWT parameter list</td>
</tr>
<tr>
<td>** FF0E</td>
<td>DFHSUWT</td>
<td>Exc</td>
<td>Recovery</td>
<td>SUWT parameter list</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>** FF30</td>
<td>SUME</td>
<td>** 1</td>
<td>Entry</td>
<td>SUME parameter list</td>
</tr>
<tr>
<td>** FF31</td>
<td>SUME</td>
<td>** 1</td>
<td>Exit</td>
<td>SUME parameter list</td>
</tr>
<tr>
<td>** FF32</td>
<td>SUME</td>
<td>Exc</td>
<td>Invalid format</td>
<td>SUME parameter list</td>
</tr>
<tr>
<td>** FF33</td>
<td>SUME</td>
<td>Exc</td>
<td>Invalid function</td>
<td>SUME parameter list</td>
</tr>
<tr>
<td>** FF34</td>
<td>SUME</td>
<td>Exc</td>
<td>Missing message</td>
<td>SUME parameter list</td>
</tr>
<tr>
<td>** FF35</td>
<td>MEFO</td>
<td>** 1</td>
<td>Entry</td>
<td>MEFO parameter list</td>
</tr>
<tr>
<td>** FF36</td>
<td>MEFO</td>
<td>** 1</td>
<td>Exit</td>
<td>MEFO parameter list</td>
</tr>
<tr>
<td>** FF37</td>
<td>MEFO</td>
<td>Exc</td>
<td>Invalid DBCS format</td>
<td>MEFO parameter list</td>
</tr>
<tr>
<td>** FF38</td>
<td>MEFO</td>
<td>Exc</td>
<td>Invalid input string</td>
<td>MEFO parameter list</td>
</tr>
<tr>
<td>** FF39</td>
<td>MEFO</td>
<td>Exc</td>
<td>Emergency format used</td>
<td>MEFO parameter list</td>
</tr>
<tr>
<td>** FF40</td>
<td>MEWS</td>
<td>** 1</td>
<td>Entry</td>
<td>CDURUN parameter list</td>
</tr>
<tr>
<td>** FF41</td>
<td>MEWS</td>
<td>** 1</td>
<td>Exit</td>
<td>CDURUN parameter list</td>
</tr>
<tr>
<td>** FF42</td>
<td>MEWS</td>
<td>Exc</td>
<td>Invalid format</td>
<td>CDURUN parameter list</td>
</tr>
<tr>
<td>** FF43</td>
<td>MEWS</td>
<td>Exc</td>
<td>Invalid function</td>
<td>CDURUN parameter list</td>
</tr>
<tr>
<td>** FF44</td>
<td>MEWS</td>
<td>** 2</td>
<td>Good return from SYMREC</td>
<td>Symptom record</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>** FF50</td>
<td>NQIE</td>
<td>** 1</td>
<td>Entry</td>
<td>NQIE parameter list</td>
</tr>
<tr>
<td>** FF51</td>
<td>NQIE</td>
<td>** 1</td>
<td>Exit</td>
<td>NQIE parameter list</td>
</tr>
</tbody>
</table>
### Table 31. Trace points in common subroutines (continued)

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>** FF52</td>
<td>NQIE</td>
<td>Exc</td>
<td>Recovery</td>
<td>1 NQNQ parameter list</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 Kernel error data</td>
</tr>
<tr>
<td>** FF53</td>
<td>NQIE</td>
<td>Exc</td>
<td>Invalid format</td>
<td>1 Invalid parameter list</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1 NQNQ parameter list</td>
</tr>
<tr>
<td>** FF54</td>
<td>NQIE</td>
<td>Exc</td>
<td>Invalid function</td>
<td>1 NQNQ parameter list</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 Storage addressed by token</td>
</tr>
<tr>
<td>** FF55</td>
<td>NQIE</td>
<td>Exc</td>
<td>Invalid pool token</td>
<td>1 NQIE parameter list</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 NQPL control block</td>
</tr>
<tr>
<td>** FF56</td>
<td>NQIE</td>
<td>Exc</td>
<td>Invalid enqueue</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** ** Component is either AP, ME, or LM

### DBCTL and DL/I trace points

### Table 32. DBCTL and DL/I trace points

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 0302</td>
<td>DFHDLIDP</td>
<td>FC 2</td>
<td>Before RMCALL to DBCTL</td>
<td>DSB parameter list</td>
</tr>
<tr>
<td>AP 0303</td>
<td>DFHDLIDP</td>
<td>FC 2</td>
<td>After RMCALL to DBCTL</td>
<td>DSB parameter list</td>
</tr>
<tr>
<td>AP 0304</td>
<td>DFHDBSPX</td>
<td>FC 1</td>
<td>DFHDBSPX about to wait</td>
<td>DSB request type</td>
</tr>
<tr>
<td>AP 0305</td>
<td>DFHDBSPX</td>
<td>FC 1</td>
<td>DFHDBSPX has been posted</td>
<td>DSB request type</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 TCADLII</td>
</tr>
<tr>
<td>AP 0306</td>
<td>DFHDBCT</td>
<td>FC 1</td>
<td>DFHDBCT has been posted</td>
<td>Control work area chain</td>
</tr>
<tr>
<td>AP 030E</td>
<td>DFHDXTCT</td>
<td>FC 1</td>
<td>DBCT XRF message put</td>
<td>Message text</td>
</tr>
<tr>
<td>AP 030F</td>
<td>DFHDBCRT</td>
<td>FC 1</td>
<td>Message received from XRF active</td>
<td>Return code</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 Reason code</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3 Message data</td>
</tr>
<tr>
<td>AP 0310</td>
<td>DFHDBAT</td>
<td>FC 2</td>
<td>Entry</td>
<td>ERM request type</td>
</tr>
<tr>
<td>AP 0311</td>
<td>DFHDBAT</td>
<td>FC 1</td>
<td>Before invoking DRA thread request</td>
<td>Recovery token</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 DRA request type</td>
</tr>
<tr>
<td>AP 0312</td>
<td>DFHDBAT</td>
<td>FC 1</td>
<td>After invoking DRA thread request</td>
<td>Recovery token</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 DRA return code</td>
</tr>
<tr>
<td>AP 0313</td>
<td>DFHDBAT</td>
<td>FC 2</td>
<td>Exit</td>
<td>DFHDBAT response code</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(R15)</td>
</tr>
<tr>
<td>AP 0314</td>
<td>DFHDBAT</td>
<td>FC 1</td>
<td>After loading router</td>
<td>LOAD response code (R15)</td>
</tr>
<tr>
<td>AP 0315</td>
<td>DFHDBAT</td>
<td>FC 1</td>
<td>Before invoking DRA interface request</td>
<td>DRA request type</td>
</tr>
<tr>
<td>AP 0316</td>
<td>DFHDBAT</td>
<td>FC 1</td>
<td>After invoking DRA interface request</td>
<td>DRA return code</td>
</tr>
<tr>
<td>AP 0320</td>
<td>DFHDXTSM</td>
<td>FC 1</td>
<td>Entry</td>
<td>DXSTM parameter list</td>
</tr>
<tr>
<td>AP 0321</td>
<td>DFHDXTSM</td>
<td>FC 1</td>
<td>Exit</td>
<td>DXSTM parameter list</td>
</tr>
<tr>
<td>AP 0322</td>
<td>DFHDXTSM</td>
<td>FC 2</td>
<td>MVS subtask attach</td>
<td>Queue element</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 Subtask storage</td>
</tr>
<tr>
<td>AP 0323</td>
<td>DFHDXTSM</td>
<td>FC 2</td>
<td>MVS subtask detach</td>
<td>Queue element</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 Subtask storage</td>
</tr>
<tr>
<td>AP 0324</td>
<td>DFHDXTSM</td>
<td>FC 2</td>
<td>MVS subtask retrieve</td>
<td>DXSTM parameter list</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Returned parameters</td>
</tr>
<tr>
<td>AP 0325</td>
<td>DFHDBREX</td>
<td>RI 2</td>
<td>DFHDBREX has posted ECB</td>
<td>DFHDSB (without fields</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>DSBMONI and</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>DSBGTRACE)</td>
</tr>
</tbody>
</table>
### Table 32. DBCTL and DL/I trace points (continued)

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 0328</td>
<td>DFHDLI</td>
<td>FC 1</td>
<td>Entry</td>
<td>1. DL/I 4-character function code</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2. If data1 ‘PCB ’, Addr(PSB)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>If data1 ‘TERM’ or ‘T’, Reserved</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>If data1 database access call, Addr(PCB)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>If data1 AIB format call, Addr(AIB)</td>
</tr>
<tr>
<td>AP 0329</td>
<td>DFHDLI</td>
<td>FC 1</td>
<td>Exit</td>
<td>3. 8 bytes of data at data2 address</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>PCB format</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1. UIB return codes (TCADLRC and TCADLTR) shown as 4 hex characters</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2. DL/I status code, 2 characters (if any). Non-alphameric values are</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>printed as 4 hexadecimal characters. If the UIB return code is 0805</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(that is, the response code is 'PSB schedule failure') and the PSB is</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>local to this CICS system, the DL/I status code is the PSTSCHDF field</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>from the IMS™ PST control block.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3. DL/I function code 4 characters</td>
</tr>
<tr>
<td>AP 0330</td>
<td>DFHDLIDP</td>
<td>FC 1</td>
<td>Entry</td>
<td>2. Address of ECB</td>
</tr>
<tr>
<td>AP 0331</td>
<td>DFHDLIDP</td>
<td>FC 1</td>
<td>Exit</td>
<td></td>
</tr>
<tr>
<td>AP 0348</td>
<td>DFHDLIRP</td>
<td>FC 1</td>
<td>Entry</td>
<td></td>
</tr>
<tr>
<td>AP 0349</td>
<td>DFHDLIRP</td>
<td>FC 1</td>
<td>Exit</td>
<td></td>
</tr>
</tbody>
</table>

### File control trace points

### Table 33. File control trace points

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 0410</td>
<td>DFHFCMT</td>
<td>FC 1</td>
<td>Entry</td>
<td>1. FCMT parameter list</td>
</tr>
<tr>
<td>AP 0411</td>
<td>DFHFCMT</td>
<td>FC 1</td>
<td>Exit</td>
<td>1. FCMT parameter list</td>
</tr>
<tr>
<td>AP 0412</td>
<td>DFHFCMT</td>
<td>FC 2</td>
<td>Exit</td>
<td>1. FCT entry</td>
</tr>
<tr>
<td>AP 0413</td>
<td>DFHFCMT</td>
<td>Exc</td>
<td>Invalid response</td>
<td>1. FCMT parameter list</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2. Reason for error</td>
</tr>
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<td>Dispatcher error ACB. GETMAIN detected</td>
<td>1</td>
</tr>
</tbody>
</table>

CICS TS for z/OS: CICS Trace Entries
### Table 33. File control trace points (continued)

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 04D7</td>
<td>DFHFCL</td>
<td>Exc</td>
<td>VSAM error</td>
<td>1 Name of VSAM macro</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 VSAM rc from register 15</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3 VSAM rc from reg 0 if macro is LOCATE</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4 VSAM rc from reg 1 if macro is LOCATE</td>
</tr>
<tr>
<td>AP 04D9</td>
<td>DFHFCM</td>
<td>FC 1</td>
<td>Dispatcher</td>
<td></td>
</tr>
<tr>
<td>AP 04DA</td>
<td>DFHFCVR</td>
<td>FC 2</td>
<td>Enter UPAD</td>
<td></td>
</tr>
<tr>
<td>AP 04DB</td>
<td>DFHFCVR</td>
<td>FC 2</td>
<td>Exit UPAD</td>
<td></td>
</tr>
<tr>
<td>AP 04DC</td>
<td>DFHFCN</td>
<td>FC 1</td>
<td>CLEANUP entry</td>
<td></td>
</tr>
<tr>
<td>AP 04E0</td>
<td>DFHFCFR</td>
<td>FC 1</td>
<td>Entry</td>
<td></td>
</tr>
<tr>
<td>AP 04E1</td>
<td>DFHFCFR</td>
<td>FC 1</td>
<td>Exit</td>
<td></td>
</tr>
<tr>
<td>AP 04E2</td>
<td>DFHFCFR</td>
<td>FC 2</td>
<td>Exit</td>
<td></td>
</tr>
<tr>
<td>AP 04E3</td>
<td>DFHFCFR</td>
<td>Exc</td>
<td>Invalid request</td>
<td></td>
</tr>
<tr>
<td>AP 04E4</td>
<td>DFHFCFR</td>
<td>Exc</td>
<td>Recovery</td>
<td></td>
</tr>
<tr>
<td>AP 04E5</td>
<td>DFHFCFR</td>
<td>Exc</td>
<td>Disaster</td>
<td></td>
</tr>
<tr>
<td>AP 04E6</td>
<td>DFHFCFR</td>
<td>Exc</td>
<td>Purged</td>
<td></td>
</tr>
<tr>
<td>AP 04E7</td>
<td>DFHFCFR</td>
<td>Exc</td>
<td>Recoverable request made when file control restart has failed</td>
<td></td>
</tr>
<tr>
<td>AP 04F0</td>
<td>DFHEIFC</td>
<td>FC 2</td>
<td>Entry</td>
<td></td>
</tr>
<tr>
<td>AP 04F1</td>
<td>DFHEIFC</td>
<td>FC 2</td>
<td>Exit</td>
<td></td>
</tr>
<tr>
<td>AP 04F2</td>
<td>DFHEIFC</td>
<td>Exc</td>
<td>Invalid request</td>
<td></td>
</tr>
<tr>
<td>AP 04F7</td>
<td>DFHEIFC</td>
<td>Exc</td>
<td>Dispatcher call failed</td>
<td></td>
</tr>
<tr>
<td>AP 04FB</td>
<td>DFHEFRM</td>
<td>Exc</td>
<td>Recovery</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** For more file control trace entries, see “File control trace points” on page 51 and “File control trace points” on page 166.

### Transaction manager trace points

The following table shows trace entries that support the transaction manager.

#### Table 34. AP domain trace entries for transaction manager

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 0518</td>
<td>DFHXFRM</td>
<td>IS 1</td>
<td>Entry</td>
<td>1 Parameter list (RMRO, RMKP, RMDE)</td>
</tr>
<tr>
<td>AP 0519</td>
<td>DFHXFRM</td>
<td>IS 1</td>
<td>Exit</td>
<td>1 Parameter list (RMRO, RMKP, RMDE)</td>
</tr>
<tr>
<td>AP 051A</td>
<td>DFHXFRM</td>
<td>Exc</td>
<td>Recovery</td>
<td>1 Parameter list</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 Kernel error data</td>
</tr>
<tr>
<td>AP 0581</td>
<td>DFHAPSI</td>
<td>AP 1</td>
<td>Entry</td>
<td>1 None</td>
</tr>
<tr>
<td>AP 0582</td>
<td>DFHAPSI</td>
<td>AP 1</td>
<td>Exit</td>
<td>1 None</td>
</tr>
<tr>
<td>AP 0583</td>
<td>DFHAPSI</td>
<td>Exc</td>
<td>Add subpool failure</td>
<td>1 DFHSMAD_ARG</td>
</tr>
<tr>
<td>AP 0584</td>
<td>DFHAPSI</td>
<td>Exc</td>
<td>GETMAIN failure</td>
<td>1 DFHSMGF_ARG</td>
</tr>
<tr>
<td>AP 0585</td>
<td>DFHAPSI</td>
<td>Exc</td>
<td>Define program failure</td>
<td>1 DFHLDDL_ARG</td>
</tr>
<tr>
<td>AP 0586</td>
<td>DFHAPSI</td>
<td>Exc</td>
<td>Acquire program failure</td>
<td>1 DFHLDDL_ARG</td>
</tr>
<tr>
<td>AP 0587</td>
<td>DFHAPSI</td>
<td>Exc</td>
<td>Add gate failure</td>
<td>1 DFHKEDD_ARG</td>
</tr>
<tr>
<td>AP 0588</td>
<td>DFHAPSI</td>
<td>Exc</td>
<td>Add trandef failure</td>
<td>1 DFHXMXD_ARG</td>
</tr>
<tr>
<td>Point ID</td>
<td>Module</td>
<td>Lvl</td>
<td>Type</td>
<td>Data</td>
</tr>
<tr>
<td>---------</td>
<td>----------</td>
<td>-----</td>
<td>-------------------</td>
<td>-------------------------------</td>
</tr>
<tr>
<td>AP 0589</td>
<td>DFHAPSI</td>
<td>Exc</td>
<td>Abend</td>
<td>1 Kernel error data</td>
</tr>
<tr>
<td>AP 058A</td>
<td>DFHAPSI</td>
<td>Exc</td>
<td>Wait phase failure</td>
<td>1 DFHDMDM_ARG</td>
</tr>
<tr>
<td>AP 058B</td>
<td>DFHAPSI</td>
<td>Exc</td>
<td>Add program failure</td>
<td>1 DFHPGDD_ARG</td>
</tr>
<tr>
<td>AP 058C</td>
<td>DFHAPSI</td>
<td>Exc</td>
<td>RM register fail</td>
<td>1 RMCD parameter list</td>
</tr>
<tr>
<td>AP 0590</td>
<td>DFHAPXM</td>
<td>AP 1</td>
<td>Entry</td>
<td>1 DFHAPXM_ARG</td>
</tr>
<tr>
<td>AP 0591</td>
<td>DFHAPXM</td>
<td>AP 1</td>
<td>Exit</td>
<td>1 DFHAPXM_ARG</td>
</tr>
<tr>
<td>AP 0592</td>
<td>DFHAPXM</td>
<td>Exc</td>
<td>Recovery</td>
<td>1 DFHAPXM_ARG</td>
</tr>
<tr>
<td>AP 0593</td>
<td>DFHAPXM</td>
<td>Exc</td>
<td>Invalid format</td>
<td>1 DFHAPXM_ARG</td>
</tr>
<tr>
<td>AP 0594</td>
<td>DFHAPXM</td>
<td>Exc</td>
<td>Invalid function</td>
<td>1 DFHAPXM_ARG</td>
</tr>
<tr>
<td>AP 0595</td>
<td>DFHAPXM</td>
<td>Exc</td>
<td>TCA GETMAIN failure</td>
<td>1 DFHSMGF_ARG</td>
</tr>
<tr>
<td>AP 0596</td>
<td>DFHAPXM</td>
<td>Exc</td>
<td>User GETMAIN failure</td>
<td>1 DFHSMGF_ARG</td>
</tr>
<tr>
<td>AP 0597</td>
<td>DFHAPXM</td>
<td>Exc</td>
<td>TCA FREEMAIN failure</td>
<td>1 DFHSMGF_ARG</td>
</tr>
<tr>
<td>AP 0598</td>
<td>DFHAPXM</td>
<td>Exc</td>
<td>UOWAT FREEMAIN failure</td>
<td>1 DFHSMGF_ARG</td>
</tr>
<tr>
<td>AP 0599</td>
<td>DFHAPXM</td>
<td>AP 1</td>
<td>Dump control block to trace</td>
<td>1 DFHSMGF_ARG</td>
</tr>
<tr>
<td>AP 059A</td>
<td>DFHAPXM</td>
<td>Exc</td>
<td>GETMAIN failure</td>
<td>1 TCA</td>
</tr>
</tbody>
</table>
| AP 059B | DFHAPXM  | Exc | Language Environment®
GETMAIN failure | 1 DFHSMGF_ARG     |
| AP 05A8 | DFHAPRC  | SP 1| Entry             | 1 Parameter list (RMRO, RMKP, RMDE, ROIN) |
| AP 05A9 | DFHAPRC  | SP 1| Exit              | 1 Parameter list (RMRO, RMKP, RMDE, ROIN) |
| AP 05AA | DFHAPRC  | Exc | Recovery          | 1 Parameter list              |
| AP 05AB | DFHAPRC  | Exc | Invalid format    | 1 Parameter list              |
| AP 05AC | DFHAPRC  | Exc | Invalid function  | 1 Parameter list              |
| AP 05B0 | DFHTDXM  | AP 1| Entry             | 1 DFHTDXM_ARG                 |
| AP 05B1 | DFHTDXM  | AP 1| Exit              | 1 DFHTDXM_ARG                 |
| AP 05B2 | DFHTDXM  | Exc | Recovery          | 1 DFHTDXM_ARG                 |
| AP 05B3 | DFHTDXM  | Exc | Invalid format    | 1 None                        |
| AP 05B4 | DFHTDXM  | Exc | Invalid function  | 1 None                        |
| AP 05B5 | DFHTDXM  | Exc | Invalid environment| 1 None                      |
| AP 05B6 | DFHTDXM  | Exc | XMIQ failure      | 1 DFHXMIQ_ARG                 |
| AP 05B7 | DFHTDXM  | Exc | XMAT failure      | 1 DFHXMAT_ARG                 |
| AP 05B8 | DFHTDXM  | Exc | Unexpected USXM failure| 1 USXM parameter list |
| AP 05C0 | DFHICXM  | AP 1| Entry             | 1 DFHICXM_ARG                 |
| AP 05C1 | DFHICXM  | AP 1| Exit              | 1 DFHICXM_ARG                 |
| AP 05C2 | DFHICXM  | Exc | Recovery          | 1 DFHICXM_ARG                 |
| AP 05C3 | DFHICXM  | Exc | Invalid format    | 1 None                        |
| AP 05C4 | DFHICXM  | Exc | Invalid function  | 1 None                        |
| AP 05C5 | DFHICXM  | Exc | Invalid environment| 1 None                      |
| AP 05C6 | DFHICXM  | Exc | XMIQ failure      | 1 DFHXMIQ_ARG                 |
| AP 05C7 | DFHICXM  | Exc | XMAT failure      | 1 DFHXMAT_ARG                 |
| AP 05C8 | DFHICXM  | Exc | SMGF failure      | 1 DFHSMGF_ARG                 |
| AP 05C9 | DFHICXM  | Exc | Unexpected USXM failure| 1 USXM parameter list |
| AP 05CA | DFHICXM  | Exc | Unexpected USAD failure| 1 USAD parameter list |
| AP 05D0 | DFHAPNT  | AP 1| Entry             | 1 DFHXMNT_ARG                 |
| AP 05D1 | DFHAPNT  | AP 1| Exit              | 1 DFHXMNT_ARG                 |
| AP 05D2 | DFHAPNT  | Exc | Recovery          | 1 DFHXMNT_ARG                 |
| AP 05D3 | DFHAPNT  | Exc | Invalid format    | 1 None                        |
| AP 05D8 | DFHAPDN  | AP 1| Entry             | 1 DFHXMDN_ARG                 |
### Table 34. AP domain trace entries for transaction manager (continued)

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 05D9</td>
<td>DFHAPDN</td>
<td>AP 1</td>
<td>Exit</td>
<td>1 DFHXMDN_ARG</td>
</tr>
<tr>
<td>AP 05DA</td>
<td>DFHAPDN</td>
<td>Exc</td>
<td>Recovery</td>
<td>1 DFHXMDN_ARG</td>
</tr>
<tr>
<td>AP 05DB</td>
<td>DFHAPDN</td>
<td>Exc</td>
<td>Invalid format</td>
<td>2 Kernel error data</td>
</tr>
<tr>
<td>AP 05DC</td>
<td>DFHAPDN</td>
<td>AP 2</td>
<td>Before token</td>
<td>1 DFHAPXDC</td>
</tr>
<tr>
<td>AP 05DD</td>
<td>DFHAPDN</td>
<td>AP 2</td>
<td>After token</td>
<td>1 DFHAPXDC</td>
</tr>
<tr>
<td>AP 05DE</td>
<td>DFHAPDN</td>
<td>Exc</td>
<td>SMGF failure</td>
<td>1 DFHSMGF_ARG</td>
</tr>
<tr>
<td>AP 05DF</td>
<td>DFHAPDN</td>
<td>Exc</td>
<td>KCSC failure</td>
<td>1 DFHKCSC_ARG</td>
</tr>
<tr>
<td>AP 05E0</td>
<td>DFHAPTT</td>
<td>AP 1</td>
<td>Entry</td>
<td>1 None</td>
</tr>
<tr>
<td>AP 05E1</td>
<td>DFHAPTT</td>
<td>AP 1</td>
<td>Exit</td>
<td>1 None</td>
</tr>
<tr>
<td>AP 05E7</td>
<td>DFHMIRS</td>
<td>Exc</td>
<td>Recovery</td>
<td>1 Kernel error data</td>
</tr>
<tr>
<td>AP 05E8</td>
<td>DFHAPXME</td>
<td>AP 1</td>
<td>Entry</td>
<td>1 DFHXMER_ARG if error occurs during transaction initialization, or 1 DFHXMPP_ARG if force purge request is issued</td>
</tr>
<tr>
<td>AP 05E9</td>
<td>DFHAPXME</td>
<td>AP 1</td>
<td>Exit</td>
<td>1 DFHXMER_ARG if error occurs during transaction initialization, or 1 DFHXMPP_ARG if force purge request is issued</td>
</tr>
<tr>
<td>AP 05EA</td>
<td>DFHAPXME</td>
<td>Exc</td>
<td>Invalid format</td>
<td>1 CDURUN input parameter list</td>
</tr>
<tr>
<td>AP 05EB</td>
<td>DFHAPXME</td>
<td>Exc</td>
<td>Invalid function</td>
<td>1 CDURUN input parameter list</td>
</tr>
<tr>
<td>AP 05EC</td>
<td>DFHAPXME</td>
<td>Exc</td>
<td>Invalid message</td>
<td>1 DFHXMER_ARG</td>
</tr>
<tr>
<td>AP 05ED</td>
<td>DFHAPXME</td>
<td>Exc</td>
<td>Recovery</td>
<td>1 CDURUN input parameter list</td>
</tr>
<tr>
<td>AP 05EF</td>
<td>DFHAPXME</td>
<td>Exc</td>
<td>PGLK error</td>
<td>2 Kernel error data</td>
</tr>
</tbody>
</table>

### Transaction attach trace points

#### Table 35. Transaction attach trace points

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 0651</td>
<td>DFHALXM</td>
<td>AP 1</td>
<td>Entry</td>
<td>1 ALXM parameter list</td>
</tr>
<tr>
<td>AP 0652</td>
<td>DFHALXM</td>
<td>AP 1</td>
<td>Exit</td>
<td>1 ALXM parameter list</td>
</tr>
<tr>
<td>AP 0653</td>
<td>DFHALXM</td>
<td>Exc</td>
<td>Recovery</td>
<td>1 ALXM parameter list</td>
</tr>
<tr>
<td>AP 0654</td>
<td>DFHALXM</td>
<td>Exc</td>
<td>Invalid format</td>
<td>1 None</td>
</tr>
<tr>
<td>AP 0655</td>
<td>DFHALXM</td>
<td>Exc</td>
<td>Invalid function</td>
<td>1 None</td>
</tr>
<tr>
<td>AP 0656</td>
<td>DFHALXM</td>
<td>Exc</td>
<td>RMWT failure</td>
<td>1 None</td>
</tr>
</tbody>
</table>

### JAVA/IIOP trace points

#### Table 36. JAVA/IIOP trace points

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 0680</td>
<td>DFHIIOOP</td>
<td>AP 1</td>
<td>Data</td>
<td>1 Session token</td>
</tr>
<tr>
<td>AP 0681</td>
<td>DFHIIOOP</td>
<td>AP 2</td>
<td>Data</td>
<td>1 First 32 bytes of COMMAREA</td>
</tr>
<tr>
<td>AP 0682</td>
<td>DFHIIOOP</td>
<td>AP 1</td>
<td>Data</td>
<td>1 Record length</td>
</tr>
<tr>
<td>AP 0683</td>
<td>DFHIIOOP</td>
<td>AAP 1</td>
<td>Data</td>
<td>2 First 16 bytes of message</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1 RQM pattern</td>
</tr>
</tbody>
</table>
### Table 36. JAVA/IIOP trace points (continued)

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 0686</td>
<td>DFHIIOP</td>
<td>Exc</td>
<td>Exc</td>
<td>1 Pointer to shared memory</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 Program name</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3 Program status word</td>
</tr>
<tr>
<td>AP 0687</td>
<td>DFHIIOP</td>
<td>AP 1</td>
<td>Data</td>
<td>1 XMAT request block</td>
</tr>
<tr>
<td>AP 0690</td>
<td>DFHIPXM</td>
<td>Exc</td>
<td>Invalid function</td>
<td>None</td>
</tr>
<tr>
<td>AP 0691</td>
<td>DFHIPXM</td>
<td>Exc</td>
<td>USAD failure</td>
<td>1 USAD parameter list</td>
</tr>
<tr>
<td>AP 0692</td>
<td>DFHIPXM</td>
<td>Exc</td>
<td>USXM failure</td>
<td>1 USXM parameter list</td>
</tr>
<tr>
<td>AP 0693</td>
<td>DFHIPXM</td>
<td>AP 1</td>
<td>Entry</td>
<td>1 IPXM parameter list</td>
</tr>
<tr>
<td>AP 0694</td>
<td>DFHIPXM</td>
<td>Exc</td>
<td>Invalid format</td>
<td>None</td>
</tr>
<tr>
<td>AP 0695</td>
<td>DFHIPXM</td>
<td>AP 1</td>
<td>Exit</td>
<td>1 IPXM parameter list</td>
</tr>
<tr>
<td>AP 0696</td>
<td>DFHIPXM</td>
<td>Exc</td>
<td>Invalid environment</td>
<td>None</td>
</tr>
<tr>
<td>AP 0697</td>
<td>DFHIPXM</td>
<td>Exc</td>
<td>Recovery</td>
<td>1 XMAC parameter list</td>
</tr>
</tbody>
</table>

### AP domain recovery trace points

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 0701</td>
<td>DFHSRLI</td>
<td>AP 2</td>
<td>Entry</td>
<td>1 SRLI parameter list</td>
</tr>
<tr>
<td>AP 0702</td>
<td>DFHSRLI</td>
<td>AP 2</td>
<td>Exit</td>
<td>1 SRLI parameter list</td>
</tr>
<tr>
<td>AP 0741</td>
<td>DFHABAB</td>
<td>AP 1</td>
<td>Entry</td>
<td>1 ABAB parameter list</td>
</tr>
<tr>
<td>AP 0742</td>
<td>DFHABAB</td>
<td>AP 1</td>
<td>Exit</td>
<td>1 ABAB parameter list</td>
</tr>
<tr>
<td>AP 0743</td>
<td>DFHABAB</td>
<td>Exc</td>
<td>Recovery</td>
<td>1 ABAB parameter list</td>
</tr>
<tr>
<td>AP 0744</td>
<td>DFHABAB</td>
<td>Exc</td>
<td>Invalid format</td>
<td>1 ABAB parameter list</td>
</tr>
<tr>
<td>AP 0745</td>
<td>DFHABAB</td>
<td>Exc</td>
<td>Invalid function</td>
<td>1 ABAB parameter list</td>
</tr>
<tr>
<td>AP 0779</td>
<td>DFHSRP</td>
<td>Exc</td>
<td>Abend AEYD</td>
<td>1 Application program name</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 Parameter address</td>
</tr>
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### Table 37. System recovery trace points (continued)

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**Notes:**
1. TCASRDAT contains:
   a. Name of abended program
   b. Kernel error code
   c. Abend offset in program
   d. Flags
2. TCAPCSTG contains indicator of storage hit.

---

### LU6.2 transaction routing trace points

#### Table 38. LU6.2 transaction routing

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Chapter 2. AP domain trace points – ‘new style’  41
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<td>DFHZXRT</td>
<td>Exc</td>
<td>Bad rc from terminal</td>
<td>1 Relay link TCTTE address</td>
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<td>2 LU6.2 session TCTTE address</td>
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## DM gate service module trace points

**Table 39. DM gate service module trace points**

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<tr>
<th>Point ID</th>
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<td>Exc Insufficient storage</td>
<td>SMGF parameter list</td>
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<td>AP 0905</td>
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<td>Exc Unable to define subpools</td>
<td>SMAD parameter list</td>
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<td>Exc Invalid format</td>
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<td>Exc Recovery entered</td>
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<td>Exc Loader domain call failed</td>
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<td>Exc DFHPGDDM define program failure</td>
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<td># AP 092F</td>
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<td>Exc DFHXMXDM add or replace trandef failure</td>
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<td># AP 09B0</td>
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<td># AP 09B1</td>
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<td>Exit</td>
<td>None</td>
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<tr>
<td># AP 09B2</td>
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<td>Event - before MQ PUT to dead letter queue</td>
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<tr>
<td># # AP 09B3</td>
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<td>Event - after MQ PUT to dead letter queue</td>
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<tr>
<td># # # AP 09B4</td>
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<td>AP 1</td>
<td>Event - before MQ OPEN</td>
<td>MQOD - MQ Object Descriptor</td>
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Table 39. DM gate service module trace points (continued)

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<thead>
<tr>
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<td>2 MQ Reason Code</td>
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<tr>
<td># #</td>
<td></td>
<td></td>
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<td>3 MQOD - MQ Object Descriptor</td>
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<tr>
<td># AP 09B6</td>
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<td>Event - before MQ CLOSE</td>
<td>4 MQ Object Handle</td>
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<td>1 MQ Object Handle</td>
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<td>Event - before MQ GET</td>
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<td>1 MQ Completion Code</td>
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<td>3 MQGMO - MQ Get Message</td>
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<td>4 MQMD Handle</td>
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<td>2 MQ Reason Code</td>
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<td>3 MQ Object Handle</td>
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<td>4 MQ Character attributes</td>
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<td># AP 09BD</td>
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<td>Exc</td>
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<td>Locate URIMAP failed</td>
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<td>Exc</td>
<td>URIMAP not pipeline</td>
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<td>2 Target URI</td>
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<td>3 URIMAP name</td>
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<td># AP 09C2</td>
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<td>AP 1</td>
<td>Before MQPUT1</td>
<td>1 MQOD - MQ Object Descriptor</td>
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<td>2 MQMD - MQ Message Descriptor</td>
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<td>3 MQPMA - MQ Put Message</td>
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<td>4 MQPMA - MQ Put Message</td>
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<td>5 MQPMA - MQ Put Message</td>
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<td>3 MQOD - MQ Object Descriptor</td>
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<td>4 MQOD - MQ Object Descriptor</td>
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<td></td>
<td>6 MQOD - MQ Object Descriptor</td>
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### DM gate service module trace points (continued)

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<td>BAPR parameter list</td>
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<td>Non-Web transaction</td>
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### PI and II trace points

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<td>Create BTS process error</td>
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<td>DFHPILSQ</td>
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<td>PUT BTS container error</td>
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<td>DFHPITP</td>
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<td>AP 09F8</td>
<td>DFHIIRRS</td>
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# XRF takeover trace points

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<td>AP 1</td>
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<td>AP 0A01</td>
<td>DFHSUSX</td>
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<td>SUSX parameter list</td>
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<td>AP 0A02</td>
<td>DFHSUSX</td>
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<td>Unable to produce key from TCTTE</td>
<td>ZXTR buffer</td>
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<td>ZC make key response</td>
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<td>TCTTE</td>
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<td>AP 0A03</td>
<td>DFHSUSX</td>
<td>Exc</td>
<td>Key longer than expected</td>
<td>ZXTR buffer before sending to alternate</td>
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<td>TCTTE</td>
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<td>AP 0A04</td>
<td>DFHSUSX</td>
<td>Exc</td>
<td>Unsuccessful locate</td>
<td>ZXTR buffer as received by alternate</td>
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<td>AP 0A05</td>
<td>DFHSUSX</td>
<td>AP 2</td>
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<td>AP 0A06</td>
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<td>Unable to unlock TCTTE</td>
<td>ZXTR buffer as received by alternate</td>
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<td>AP 0A07</td>
<td>DFHCSSC</td>
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<td>Data</td>
<td>Number of TCTTEs eligible for signoff</td>
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<td>during takeover</td>
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<td># AP 0A10</td>
<td>DFHXRCP</td>
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<td># AP 0A11</td>
<td>DFHXRCP</td>
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<td>Suspend</td>
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<td>Command input buffer (CIB) processing</td>
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<td>DFHXRCP</td>
<td>AP 1</td>
<td>Command input buffer (CIB) data</td>
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## Data tables trace points

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<td>AP 0B0A</td>
<td>DFHTRE</td>
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<td>Unrecognized function on call to DFHTRE</td>
<td>DFHDTPPS parameter list</td>
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<td>DFHTRR</td>
<td>Exc</td>
<td>Unrecognized function on call to DFHTRR</td>
<td>DFHDTPPS parameter list</td>
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<tr>
<td>AP 0B0C</td>
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Chapter 2. AP domain trace points – ‘new style’
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CICS TS for z/OS: CICS Trace Entries
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Chapter 2. AP domain trace points – ‘new style’ 49
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</tr>
<tr>
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<td>DFHFCCA</td>
<td>Exc</td>
<td>GENCB VSAM error</td>
<td>1  Name of VSAM macro</td>
</tr>
<tr>
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<td>2  VSAM return code</td>
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<td>3  VSAM reason code</td>
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<td>4  ACB</td>
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<td>6  Name of current task</td>
</tr>
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<td>ACB Before IDAREGP</td>
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<td>DFHFCCA</td>
<td>FC 2</td>
<td>ACB After IDAREGP</td>
<td>1  ACB</td>
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<td>ACB After IDAUNRP</td>
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<td>Exc</td>
<td>REG VSAM error</td>
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<td>3  VSAM reason code</td>
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<td>4  VSAM error data</td>
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<td>6  ACB address</td>
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<td>7  Name of current task</td>
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<td>3  VSAM reason code</td>
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<td>4  VSAM error data</td>
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<td>6  ACB address</td>
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<td>7  Name of current task</td>
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<tr>
<td>Point ID</td>
<td>Module</td>
<td>Lvl</td>
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<td>Data</td>
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<td>----------------------------------------------------------------------</td>
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<td>Entry</td>
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<td>Exit</td>
<td>1 FCFS parameter list</td>
</tr>
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<td>DFHFCRO</td>
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<td>Invalid request</td>
<td>1 FCFS parameter list</td>
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<td>DFHFCRO</td>
<td>Exc</td>
<td>Recovery</td>
<td>2 Kernel error data</td>
</tr>
<tr>
<td>AP 0BA4</td>
<td>DFHFCRO</td>
<td>Exc</td>
<td>Disaster</td>
<td>1 Name of VSAM macro</td>
</tr>
<tr>
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<td>DFHFCRO</td>
<td>Exc</td>
<td>Purged</td>
<td>1 Name of VSAM macro</td>
</tr>
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<td>Getmain failed</td>
<td>1 SMGF parameter list</td>
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<td>Call VSAM</td>
<td>2 Name of VSAM macro</td>
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<td>DFHFCRO</td>
<td>FC 2</td>
<td>Return from VSAM</td>
<td>2 ACB address</td>
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<td>DFHFCRO</td>
<td>FC 2</td>
<td>Locate volume before</td>
<td>2 ACB address</td>
</tr>
<tr>
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<td>DFHFCRO</td>
<td>FC 2</td>
<td>Locate volume after</td>
<td>2 ACB address</td>
</tr>
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<td>FC 1</td>
<td>Entry</td>
<td>1 RMDE parameter list</td>
</tr>
<tr>
<td>AP 0BB1</td>
<td>DFHFCIR</td>
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<td>Exit</td>
<td>1 RMDE parameter list</td>
</tr>
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<td>DFHFCIR</td>
<td>Exc</td>
<td>Invalid format</td>
<td>1 Supplied parameter list</td>
</tr>
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<td>AP 0BB3</td>
<td>DFHFCIR</td>
<td>Exc</td>
<td>Invalid function</td>
<td>1 RMDE parameter list</td>
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<td>Exc</td>
<td>Recovery routine</td>
<td>1 RMDE parameter list</td>
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<tr>
<td>AP 0BB7</td>
<td>DFHFCIR</td>
<td>Exc</td>
<td>Inadequate parameter list supplied</td>
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<tr>
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<td>Table manager locate for FCTE returned not found</td>
<td>2 Start of FC log record</td>
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<tr>
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<td>DFHFCIR</td>
<td>Exc</td>
<td>Table manager locate for FCTE returned serious error</td>
<td>2 Table manager return code</td>
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<tr>
<td>AP 0BBA</td>
<td>DFHFCIR</td>
<td>Exc</td>
<td>Table manager unlock for FCTE returned not found</td>
<td>3 Start of FC log record</td>
</tr>
<tr>
<td>AP 0BBB</td>
<td>DFHFCIR</td>
<td>Exc</td>
<td>Table manager unlock for FCTE returned serious error</td>
<td>3 Table manager return code</td>
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<td>AP 0BBC</td>
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<td>Exc</td>
<td>Enqueue error on acquiring retained CICS</td>
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<td>AP 0BBD</td>
<td>DFHFCIR</td>
<td>Exc</td>
<td>Unrecognized data set type code</td>
<td>2 NQNQ parameter list</td>
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<td>DFHFCIR</td>
<td>Exc</td>
<td>DFHRMRE call failed</td>
<td>2 RMRE parameter list</td>
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<td>AP 0BCG</td>
<td>DFHFCLJ</td>
<td>LG 1</td>
<td>Buffer length error</td>
<td>1 FCLJ parameter list</td>
</tr>
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<td>AP 0BC0</td>
<td>DFHFCLJ</td>
<td>FC 2</td>
<td>Entry</td>
<td>1 FCLJ parameter list</td>
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<td>Point ID</td>
<td>Module</td>
<td>Lvl</td>
<td>Type</td>
<td>Data</td>
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<td>----------------------------------------------------------------------</td>
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<td>AP 0BC1</td>
<td>DFHFCCLJ</td>
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<td>FCLJ parameter list</td>
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<td>2 See “Format of data fields 2, 3, and 4 from DFHFCCLJ” on page 56</td>
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<td>3 See “Format of data fields 2, 3, and 4 from DFHFCCLJ” on page 56</td>
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<td>4 See “Format of data fields 2, 3, and 4 from DFHFCCLJ” on page 56</td>
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<td>Exc</td>
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<td>FCLJ parameter list</td>
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<td>FCLJ parameter list</td>
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<td>2 Kernel error data</td>
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<td>DFHFCCLJ</td>
<td>Exc</td>
<td>Table manager GETNEXT failure</td>
<td>FCLJ parameter list</td>
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<td>DFHFCCLJ</td>
<td>Exc</td>
<td>Recovery manager append failure</td>
<td>FCLJ parameter list</td>
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<td>2 RMRE parameter list</td>
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<td>AP 0BC7</td>
<td>DFHFCCLJ</td>
<td>Exc</td>
<td>Recovery manager force failure</td>
<td>FCLJ parameter list</td>
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<td>2 RMRE parameter list</td>
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<td>AP 0BC8</td>
<td>DFHFCCLJ</td>
<td>Exc</td>
<td>Buffer length error</td>
<td>FCLJ parameter list</td>
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<td>2 LGGL parameter list</td>
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<td>DFHFCES</td>
<td>FC 1</td>
<td>Entry</td>
<td>DMEN parameter list</td>
</tr>
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<td>AP 0BD1</td>
<td>DFHFCES</td>
<td>FC 1</td>
<td>Exit</td>
<td>DMEN parameter list</td>
</tr>
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<td>AP 0BD2</td>
<td>DFHFCES</td>
<td>Exc</td>
<td>Invalid format</td>
<td>Supplied parameter list</td>
</tr>
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<td>AP 0BD3</td>
<td>DFHFCES</td>
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<td>Invalid function</td>
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<td>DFHFCES</td>
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<td>2 Kernel error data</td>
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<tr>
<td>AP 0BD5</td>
<td>DFHFCES</td>
<td>Exc</td>
<td>Disaster</td>
<td>DMEN parameter list</td>
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<td>DFHFCES</td>
<td>Exc</td>
<td>Purged</td>
<td>DMEN parameter list</td>
</tr>
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<td>AP 0BD7</td>
<td>DFHFCES</td>
<td>Exc</td>
<td>Transaction environment error</td>
<td>DMEN parameter list</td>
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<td>FC 1</td>
<td>Entry</td>
<td>RMRO, RMDE, or RMKP parameter list</td>
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<td>1 RMRO, RMDE, or RMKP parameter list</td>
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<td>DFHFCRC</td>
<td>FC 1</td>
<td>Exit</td>
<td>RMRO, RMDE, or RMKP parameter list</td>
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<td></td>
<td>1 RMRO, RMDE, or RMKP parameter list</td>
</tr>
<tr>
<td>AP 0BE2</td>
<td>DFHFCRC</td>
<td>Exc</td>
<td>Invalid format</td>
<td>supplied parameter list</td>
</tr>
<tr>
<td>AP 0BE3</td>
<td>DFHFCRC</td>
<td>Exc</td>
<td>Invalid function</td>
<td>RMRO, RMDE, or RMKP parameter list</td>
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<td>2 Kernel error data</td>
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<tr>
<td>AP 0BE4</td>
<td>DFHFCRC</td>
<td>Exc</td>
<td>Recovery routine</td>
<td>RMRO, RMDE, or RMKP parameter list</td>
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<td>2 Kernel error data</td>
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<td>AP 0BE7</td>
<td>DFHFCRC</td>
<td>Exc</td>
<td>Invalid log record type</td>
<td>Log record type</td>
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<td>AP 0BE8</td>
<td>DFHFCRC</td>
<td>Exc</td>
<td>Invalid file name in log record</td>
<td>File name from log record</td>
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<tr>
<td>AP 0BE9</td>
<td>DFHFCRC</td>
<td>Exc</td>
<td>Invalid LUWID</td>
<td>RMRO parameter list</td>
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<td>2 FCCA parameter list</td>
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<td></td>
<td></td>
<td>3 LUWID from FRAB</td>
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<td>4 LUWID from Recovery Manager</td>
</tr>
<tr>
<td>AP 0BEA</td>
<td>DFHFCRC</td>
<td>Exc</td>
<td>Unretained FLAB found on unshunt</td>
<td>RMRO parameter list</td>
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<td>2 FLAB</td>
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<tr>
<td>AP 0BEB</td>
<td>DFHFCRC</td>
<td>Exc</td>
<td>Release locks exception</td>
<td>RMRO parameter list</td>
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<td>2 FCCA parameter list</td>
</tr>
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<td>AP 0BEC</td>
<td>DFHFCRC</td>
<td>Exc</td>
<td>Retain locks exception</td>
<td>RMRO parameter list</td>
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<td>2 FCCA parameter list</td>
</tr>
<tr>
<td>AP 0BED</td>
<td>DFHFCRC</td>
<td>Exc</td>
<td>Unexpected backout failure</td>
<td>RMRO parameter list</td>
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<td>2 FCFR parameter list</td>
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### Table 43. File control trace points (continued)

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<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
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</thead>
<tbody>
<tr>
<td>AP 0BEE</td>
<td>DFHFCRC</td>
<td>Exc</td>
<td>Lost locks complete error</td>
<td>1  RMRO parameter list</td>
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<td>2  FCCA parameter list</td>
</tr>
<tr>
<td>AP 0BEF</td>
<td>DFHFCRC</td>
<td>Exc</td>
<td>Backout failure</td>
<td>1  RMRO parameter list</td>
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<td>2  Type of backout failure</td>
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<td></td>
<td>3  Data set name</td>
</tr>
<tr>
<td>AP 0BF0</td>
<td>DFHFCRC</td>
<td>Exc</td>
<td>Exception from FCFR Prepare</td>
<td>1  RMRO parameter list</td>
</tr>
<tr>
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<td></td>
<td>2  FCFR parameter list</td>
</tr>
<tr>
<td>AP 0BF1</td>
<td>DFHFCRC</td>
<td>Exc</td>
<td>Transaction attach error</td>
<td>1  RMRO parameter list</td>
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<td></td>
<td>2  FCFR parameter list</td>
</tr>
<tr>
<td>AP 0BF2</td>
<td>DFHFCRC</td>
<td>Exc</td>
<td>No work token</td>
<td>1  RMRO parameter list</td>
</tr>
</tbody>
</table>

**Format of data fields 2, 3, and 4 from DFHFCLJ**

Data field 1 contains the FCLJ parameter list in all cases. The contents of data fields 2, 3, and 4 depend on the function performed by DFHFCLJ:

**Function**

**Contents of data fields**

**File Open**

Data field 2 contains the complete tie-up record. This comprises data that is general to all log records followed by data specific to tie-up records. Data fields 3 and 4 are not used.

**Dataset Copy**

Data fields 2, 3, and 4 are as for File Open.

**File Close**

Data field 2 contains the complete file close record. This comprises data general to all log records followed by data specific to file close records. Data fields 3 and 4 are not used.

**Read Only**

Data field 2 contains the fixed-length part of the log record. This comprises data that is general to all log records followed by data that is particular to just the records being accessed. Data field 3 contains the key of access. Data field 4 contains the first 80 bytes of the record being accessed.

**Read Update**

Data fields 2, 3, and 4 are as for Read Only.

**Write Update**

Data fields 2, 3, and 4 are as for Read Only.

**Write Add**

Data fields 2, 3, and 4 are as for Read Only.

**Write Add Complete**

Data fields 2, 3, and 4 are as for Read Only. However, if the Write Add Complete is to an ESDS, data fields 3 and 4 are not used.

**Write Delete**

Data field 2 contains the fixed-length part of the log record. This comprises data that is general to all log records, followed by data that is specific to Write Delete records. Data field 3 contains the base key. Data field 4 contains the path key.

**Take Keypoint**

Data fields 2, 3, and 4 are not used.

**Synchronize Read Update**

Data fields 2, 3, and 4 are not used.

**Note:** For more file control trace entries, see "File control trace points" on page 33 and "File control trace points" on page 166.
### Common Programming Interface trace points

Table 44. Common Programming Interface

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 0C01</td>
<td>DFHCPIN1</td>
<td>CP 1</td>
<td>Entry</td>
<td>CPIN parameter list</td>
</tr>
<tr>
<td>AP 0C02</td>
<td>DFHCPIN1</td>
<td>CP 1</td>
<td>Exit</td>
<td>CPIN parameter list</td>
</tr>
<tr>
<td>AP 0C03</td>
<td>DFHCPIN1</td>
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<td>Exc</td>
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</tr>
<tr>
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<td>DFHCPCBL</td>
<td>CP 2</td>
<td>Locate_CPC exit</td>
<td>1 Address of CPC&lt;br&gt;2 Response</td>
</tr>
<tr>
<td>AP 0CF8</td>
<td>DFHCPCBD</td>
<td>CP 2</td>
<td>Delete_conversation entry</td>
<td>1 Address of CPC</td>
</tr>
<tr>
<td>AP 0CF9</td>
<td>DFHCPCBD</td>
<td>CP 2</td>
<td>Delete_conversation exit</td>
<td>1 Address of CPC</td>
</tr>
<tr>
<td>AP 0CFA</td>
<td>DFHCPCBB</td>
<td>CP 2</td>
<td>Increment_Last_convid entry</td>
<td>1 Conversation ID</td>
</tr>
<tr>
<td>AP 0CFC</td>
<td>DFHCPCBG</td>
<td>CP 2</td>
<td>Initialize_CPC entry</td>
<td>1 Address of CPC</td>
</tr>
<tr>
<td>AP 0CFD</td>
<td>DFHCPCBG</td>
<td>CP 2</td>
<td>Initialize_CPC exit</td>
<td>1 Address of CPC</td>
</tr>
<tr>
<td>AP 0CFE</td>
<td>DFHCPCBE</td>
<td>CP 2</td>
<td>Extract_syncpoint_rc entry</td>
<td>1 Address of CPC</td>
</tr>
<tr>
<td>AP 0cff</td>
<td>DFHCPCBE</td>
<td>CP 2</td>
<td>Extract_syncpoint_rc exit</td>
<td>1 Address of CPC&lt;br&gt;2 Response</td>
</tr>
</tbody>
</table>
### Table 45. DFHCRIxx

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 0D80</td>
<td>DFHCRIU</td>
<td>AP 1</td>
<td>Entry</td>
<td>1: DFHRMLKM parameter list</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2: Session TCTTE address (unless RMLK_FUNCTION = RMLK_PERFORM_UNSHUNT)</td>
</tr>
<tr>
<td>AP 0D81</td>
<td>DFHCRIU</td>
<td>AP 1</td>
<td>Exit</td>
<td>1: DFHRMLKM parameter list</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2: Session TCTTE address (unless RMLK_FUNCTION = RMLK_PERFORM_UNSHUNT)</td>
</tr>
<tr>
<td>AP 0D82</td>
<td>DFHCRIU</td>
<td>Exc</td>
<td>Recovery</td>
<td>1: DFHRMLKM parameter list</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2: Kernel error data</td>
</tr>
<tr>
<td>AP 0D83</td>
<td>DFHCRIU</td>
<td>Exc</td>
<td>DFHRMUWM FUNCTION(SET_UOW) call failure</td>
<td>1: DFHRMLKM parameter list</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2: DFHRMUWM parameter list</td>
</tr>
<tr>
<td>AP 0D84</td>
<td>DFHCRIU</td>
<td>Exc</td>
<td>DFHRMLNM FUNCTION(INQUIRE_LINK) call failure during PERFORM_COMMIT request</td>
<td>1: DFHRMLKM parameter list</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2: DFHRMLNM parameter list</td>
</tr>
<tr>
<td>AP 0D85</td>
<td>DFHCRIU</td>
<td>Exc</td>
<td>DFHRMLNM FUNCTION(INQUIRE_LINK) call failure during PERFORM_SHUNT request</td>
<td>1: DFHRMLKM parameter list</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2: DFHRMLNM parameter list</td>
</tr>
<tr>
<td>AP 0D86</td>
<td>DFHCRIU</td>
<td>Exc</td>
<td>Failure during DFHTC TYPE=FREE call</td>
<td>1: DFHRMLKM parameter list</td>
</tr>
<tr>
<td>AP 0D87</td>
<td>DFHCRIU</td>
<td>Exc</td>
<td>Unreachable OTHERWISE clause executed during DO_COMMIT request</td>
<td>1: DFHRMLKM parameter list</td>
</tr>
<tr>
<td>AP 0D88</td>
<td>DFHCRIU</td>
<td>Exc</td>
<td>Unreachable OTHERWISE clause executed during PERFORM_PREPARE request</td>
<td>1: DFHRMLKM parameter list</td>
</tr>
<tr>
<td>AP 0D89</td>
<td>DFHCRIU</td>
<td>Exc</td>
<td>After call to DFHRMUW</td>
<td>1: DFHRMLKM parameter list</td>
</tr>
<tr>
<td>AP 0D90</td>
<td>DFHCRIU</td>
<td>AP 1</td>
<td>Entry</td>
<td>1: DFHRMLNM parameter list</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2: DFHCRIU parameter list</td>
</tr>
<tr>
<td>AP 0D91</td>
<td>DFHCRIU</td>
<td>AP 1</td>
<td>Exit</td>
<td>1: DFHCRIU parameter list</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2: DFHCRIU parameter list</td>
</tr>
<tr>
<td>AP 0D92</td>
<td>DFHCRIU</td>
<td>Exc</td>
<td>Recovery routine</td>
<td>1: DFHCRIU parameter list</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2: DFHCRIU parameter list</td>
</tr>
<tr>
<td>AP 0D93</td>
<td>DFHCRIU</td>
<td>Exc</td>
<td>After call to DFHRMUW</td>
<td>1: DFHCRIU parameter list</td>
</tr>
<tr>
<td>AP 0D94</td>
<td>DFHCRIU</td>
<td>Exc</td>
<td>After call to DFHRMLN</td>
<td>1: DFHCRIU parameter list</td>
</tr>
<tr>
<td>AP 0D95</td>
<td>DFHCRIU</td>
<td>Exc</td>
<td>After call to DFHRMLN</td>
<td>1: DFHCRIU parameter list</td>
</tr>
<tr>
<td>AP 0D96</td>
<td>DFHCRIU</td>
<td>Exc</td>
<td>After DFHTC TYPE=FREE</td>
<td>1: DFHCRIU parameter list</td>
</tr>
<tr>
<td>AP 0D97</td>
<td>DFHCRIU</td>
<td>Exc</td>
<td>After call to DFHTFRF</td>
<td>1: DFHCRIU parameter list</td>
</tr>
<tr>
<td>AP 0DA0</td>
<td>DFHCRIU</td>
<td>AP 1</td>
<td>Entry</td>
<td>1: DFHRMLKM parameter list</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2: Session TCTTE address (unless RMLK_FUNCTION = RMLK_PERFORM_UNSHUNT)</td>
</tr>
</tbody>
</table>
## Table 45. DFHCRRxx (continued)

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
</table>
| AP 0DA1  | DFHCR2U | AP 1 | Exit | 1 DFHRMLKM parameter list  
|          |        |     |      | 2 Session TCTTE address  
|          |        |     |      | (unless RMLK_FUNCTION = RMLK_PERFORM_UNSHUNT) |
| AP 0DA2  | DFHCR2U | Exc | Recovery | 1 DFHRMLKM parameter list  
|          |        |     |      | 2 Kernel error data |
| AP 0DA3  | DFHCR2U | Exc | DFHRMUWM FUNCTION(SET_UOW) failure | 1 DFHRMLKM parameter list  
|          |        |     |      | 2 DFHRMUWM parameter list |
| AP 0DA4  | DFHCR2U | Exc | DFHRMLNM FUNCTION(INQUIRE_LINK) failure during PERFORM_COMMIT request | 1 DFHRMLKM parameter list  
|          |        |     |      | 2 DFHRMLNM parameter list |
| AP 0DA5  | DFHCR2U | Exc | DFHRMLNM FUNCTION(INQUIRE_LINK) failure during PERFORM_SHUNT request | 1 DFHRMLKM parameter list  
|          |        |     |      | 2 DFHRMLNM parameter list |
| AP 0DA6  | DFHCR2U | Exc | DFHTC TYPE=FREE call failure | 1 DFHRMLKM parameter list  
|          |        |     |      | 2 DFHRMLKM parameter list |
| AP 0DA7  | DFHCR2U | Exc | DFHTFRFM RELEASE_FACILITY request returned DISASTER resp | 1 DFHRMLKM parameter list  
|          |        |     |      | 2 DFHTFRFM parameter list |
| AP 0DB0  | DFHCRL | AP 1 | Entry | 1 DFHRMROM, DFHRMDEM, or DFHRMKPM parameter list  
|          |        |     |      | 2 DFHRMROM, DFHRMDEM, or DFHRMKPM parameter list |
| AP 0DB1  | DFHCRL | AP 1 | Exit | 1 DFHRMROM, DFHRMDEM, or DFHRMKPM parameter list  
|          |        |     |      | 2 DFHRMROM, DFHRMDEM, or DFHRMKPM parameter list |
| AP 0DB2  | DFHCRL | Exc | Recovery | 1 DFHRMROM, DFHRMDEM, or DFHRMKPM parameter list  
|          |        |     |      | 2 Kernel error data |
| AP 0DB3  | DFHCRL | Exc | Invalid format | 1 Domain call parameter list  
|          |        |     |      | 2 Domain call parameter list |
| AP 0DB4  | DFHCRL | Exc | Invalid function | 1 DFHRMROM, DFHRMDEM, or DFHRMKPM parameter list  
|          |        |     |      | 2 DFHRMROM, DFHRMDEM, or DFHRMKPM parameter list |
| AP 0DB5  | DFHCRL | Exc | DFHRMKDM FUNCTION(KEYPUNT_DATA) call failure during DFHRMKPM TAKE_KEYPOINT call | 1 DFHRMROM, DFHRMDEM, or DFHRMKPM parameter list  
|          |        |     |      | 2 DFHRMKDM parameter list |
| AP 0DB6  | DFHCRL | Exc | DFHRMLNM FUNCTION(START_LINK_BROWSE) call failure during DFHRMDEM END_DELIVERY call | 1 DFHRMDEP parameter list  
|          |        |     |      | 2 DFHRMLNM parameter list |
| AP 0DB7  | DFHCRL | Exc | DFHRMLNM FUNCTION(GET_NEXT_LINK) call failure during DFHRMDEM END_DELIVERY call | 1 DFHRMDEP parameter list  
|          |        |     |      | 2 DFHRMLNM parameter list |
| AP 0DB8  | DFHCRL | Exc | DFHRMLNM FUNCTION(END_LINK_BROWSE) call failure during DFHRMDEM END_DELIVERY call | 1 DFHRMDEP parameter list  
|          |        |     |      | 2 DFHRMLNM parameter list |
| AP 0DB9  | DFHCRL | Exc | DFHSMGFI FUNCTION(GETMAIN) for DFHCRL's anchor block failed | 1 DFHRMDEP parameter list  
|          |        |     |      | 2 DFHSMGFI parameter list |
| AP 0DBA  | DFHCRL | Exc | DFHSMGFI FUNCTION(GETMAIN) for DFHCRL recovery record | 1 DFHRMDEP parameter list  
|          |        |     |      | 2 DFHSMGFI parameter list |
| AP 0DC0  | DFHCRLB | AP 1 | Entry | 1 DFHCRLB parameter list  
|          |        |     |      | 2 DFHCRLB parameter list |
| AP 0DC1  | DFHCRLB | AP 1 | Exit | 1 DFHCRLB parameter list  
|          |        |     |      | 2 DFHCRLB parameter list |
| AP 0DC2  | DFHCRLB | Exc | Recovery | 1 DFHCRLB parameter list  
|          |        |     |      | 2 DFHCRLB parameter list |
| AP 0DC3  | DFHCRLB | Exc | Invalid format | 1 Domain call parameter list  
|          |        |     |      | 2 Domain call parameter list |
| AP 0DC4  | DFHCRLB | Exc | Invalid function | 1 DFHCRLB parameter list  
|          |        |     |      | 2 DFHCRLB parameter list |
| AP 0DC5  | DFHCRLB | Exc | DFHMRMREM FUNCTION(APPEND) call failure | 1 DFHCRLB parameter list  
|          |        |     |      | 2 DFHCRLB parameter list |

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## CICS OS/2 mirror program trace points

Table 46. CICS OS/2 mirror program

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 0E00</td>
<td>DFHCHS</td>
<td>IS2</td>
<td>Entry</td>
<td></td>
</tr>
<tr>
<td>AP 0E01</td>
<td>DFHCHS</td>
<td>IS2</td>
<td>Exit</td>
<td></td>
</tr>
<tr>
<td>AP 0E02</td>
<td>DFHCHS</td>
<td>IS2</td>
<td>SEND REQUEST NOACK LAST</td>
<td></td>
</tr>
<tr>
<td>AP 0E03</td>
<td>DFHCHS</td>
<td>IS2</td>
<td>SEND RESPONSE NOACK LAST</td>
<td></td>
</tr>
<tr>
<td>AP 0E04</td>
<td>DFHCHS</td>
<td>IS2</td>
<td>SEND RESPONSE ACK NOT LAST</td>
<td></td>
</tr>
<tr>
<td>AP 0E05</td>
<td>DFHCHS</td>
<td>IS2</td>
<td>SEND NEGATIVE ACK</td>
<td></td>
</tr>
<tr>
<td>AP 0E06</td>
<td>DFHCHS</td>
<td>IS2</td>
<td>SEND ACK</td>
<td></td>
</tr>
<tr>
<td>AP 0E07</td>
<td>DFHCHS</td>
<td>IS2</td>
<td>RECV RESPONSE NOACK LAST</td>
<td></td>
</tr>
<tr>
<td>AP 0E08</td>
<td>DFHCHS</td>
<td>IS2</td>
<td>RECV REQUEST NOACK LAST</td>
<td></td>
</tr>
<tr>
<td>AP 0E09</td>
<td>DFHCHS</td>
<td>IS2</td>
<td>RECV REQUEST ACK NOT LAST</td>
<td></td>
</tr>
<tr>
<td>AP 0E0A</td>
<td>DFHCHS</td>
<td>IS2</td>
<td>RECV NEGATIVE ACK</td>
<td></td>
</tr>
<tr>
<td>AP 0E0B</td>
<td>DFHCHS</td>
<td>IS2</td>
<td>RECV ACK</td>
<td></td>
</tr>
<tr>
<td>AP 0E10</td>
<td>DFHCHS</td>
<td>IS2</td>
<td>SERF AND PLIST</td>
<td>1 Copy of Service Request Function (SERF) block descriptor</td>
</tr>
<tr>
<td>AP 0E11</td>
<td>DFHCHS</td>
<td>IS2</td>
<td>SEND UNENCODED DATA</td>
<td>1 VSI header</td>
</tr>
<tr>
<td>AP 0E12</td>
<td>DFHCHS</td>
<td>IS2</td>
<td>SEND ENCODED DATA</td>
<td>1 TIOA data beginning address</td>
</tr>
<tr>
<td>AP 0E13</td>
<td>DFHCHS</td>
<td>IS2</td>
<td>RESEND ENCODED DATA</td>
<td>1 TIOA data beginning address</td>
</tr>
<tr>
<td>AP 0E14</td>
<td>DFHCHS</td>
<td>IS2</td>
<td>RECV ENCODED DATA</td>
<td>1 VSI header</td>
</tr>
<tr>
<td>AP 0E15</td>
<td>DFHCHS</td>
<td>IS2</td>
<td>RECV UNENCODED DATA</td>
<td>1 TIOA data beginning address</td>
</tr>
<tr>
<td>AP 0E20</td>
<td>DFHCHS</td>
<td>IS2</td>
<td>DATA SHORT</td>
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</tr>
<tr>
<td>AP 0E21</td>
<td>DFHCHS</td>
<td>IS2</td>
<td>UNKNOWN DATA ORIGIN</td>
<td></td>
</tr>
<tr>
<td>AP 0E22</td>
<td>DFHCHS</td>
<td>IS2</td>
<td>CHECKSUM FAILED</td>
<td></td>
</tr>
</tbody>
</table>

## Autoinstall terminal model manager trace points

Table 47. Autoinstall terminal model manager

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 0F01</td>
<td>DFHAIRP</td>
<td>AP1</td>
<td>Entry</td>
<td>1 AIRP parameter list</td>
</tr>
<tr>
<td>AP 0F02</td>
<td>DFHAIRP</td>
<td>AP1</td>
<td>Exit</td>
<td>1 AIRP parameter list</td>
</tr>
<tr>
<td>AP 0F03</td>
<td>DFHAIRP</td>
<td>Exc</td>
<td>Initialization failed</td>
<td>1 AIRP parameter list</td>
</tr>
<tr>
<td>AP 0F08</td>
<td>DFHAIMT</td>
<td>AP1</td>
<td>Entry</td>
<td>1 AITM parameter list</td>
</tr>
<tr>
<td>AP 0F09</td>
<td>DFHAIMT</td>
<td>AP1</td>
<td>Exit</td>
<td>1 AITM parameter list</td>
</tr>
<tr>
<td>AP 0F0A</td>
<td>DFHAIMT</td>
<td>Exc</td>
<td>Catalog write failed</td>
<td>1 AITM parameter list</td>
</tr>
<tr>
<td>AP 0F0B</td>
<td>DFHAIMT</td>
<td>Exc</td>
<td>Catalog delete failed</td>
<td>1 AITM parameter list</td>
</tr>
<tr>
<td>AP 0F10</td>
<td>DFHAIIN</td>
<td>AP1</td>
<td>Entry</td>
<td>1 AIIN parameter list</td>
</tr>
<tr>
<td>AP 0F11</td>
<td>DFHAIIN</td>
<td>AP1</td>
<td>Exit</td>
<td>1 AIIN parameter list</td>
</tr>
<tr>
<td>AP 0F18</td>
<td>DFHAIIQ</td>
<td>AP1</td>
<td>Entry</td>
<td>1 AIIQ parameter list</td>
</tr>
<tr>
<td>AP 0F19</td>
<td>DFHAIIQ</td>
<td>AP1</td>
<td>Exit</td>
<td>1 AIIQ parameter list</td>
</tr>
</tbody>
</table>

## Partner resource manager trace points

Table 48. Partner resource manager

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 0F20</td>
<td>DFHPRIN1</td>
<td>AP1</td>
<td>Entry</td>
<td>1 PRIN parameter list</td>
</tr>
<tr>
<td>AP 0F21</td>
<td>DFHPRIN1</td>
<td>AP1</td>
<td>Exit</td>
<td>1 PRIN parameter list</td>
</tr>
<tr>
<td>AP 0F22</td>
<td>DFHPRIN1</td>
<td>Exc</td>
<td>The point where failure of partner initialization is detected</td>
<td>1 SSAPRM</td>
</tr>
<tr>
<td>AP 0F24</td>
<td>DFHPRIN2</td>
<td>AP1</td>
<td>Entry</td>
<td>1 SSAPRM</td>
</tr>
</tbody>
</table>
### Table 48. Partner resource manager (continued)

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 0F25</td>
<td>DFHPRIN2</td>
<td>AP 1</td>
<td>Exit</td>
<td>1 SSAPRM</td>
</tr>
<tr>
<td>AP 0F26</td>
<td>DFHPRIN2</td>
<td>Exc</td>
<td>The point where failure of partner initialization is detected</td>
<td>2 Partner static storage area</td>
</tr>
<tr>
<td>AP 0F30</td>
<td>DFHPRPT</td>
<td>AP 1</td>
<td>Entry</td>
<td>1 PRPT parameter list</td>
</tr>
<tr>
<td>AP 0F31</td>
<td>DFHPRPT</td>
<td>AP 1</td>
<td>Exit</td>
<td>2 PRPT parameter list</td>
</tr>
<tr>
<td>AP 0F32</td>
<td>DFHPRPP</td>
<td>AP 1</td>
<td>Entry</td>
<td>1 PRRP parameter list</td>
</tr>
<tr>
<td>AP 0F33</td>
<td>DFHPRPP</td>
<td>AP 1</td>
<td>Exit</td>
<td>2 PRRP parameter list</td>
</tr>
<tr>
<td>AP 0F34</td>
<td>DFHPRFS</td>
<td>AP 1</td>
<td>Entry</td>
<td>1 PRFS parameter list</td>
</tr>
<tr>
<td>AP 0F35</td>
<td>DFHPRFS</td>
<td>AP 1</td>
<td>Exit</td>
<td>2 PRFS parameter list</td>
</tr>
<tr>
<td>AP 0F36</td>
<td>DFHPRCM</td>
<td>AP 1</td>
<td>Entry</td>
<td>1 PRCM parameter list</td>
</tr>
<tr>
<td>AP 0F37</td>
<td>DFHPRCM</td>
<td>AP 1</td>
<td>Exit</td>
<td>2 PRCM parameter list</td>
</tr>
</tbody>
</table>

### Front end programming interface (FEPI) trace points

All FEPI trace entries are in the AP domain (X’1200’ through X’16FF’) and under the control of SZ level 1. Unless indicated otherwise, the trace data areas are “Internal areas”—these are object code only (OCO) control blocks.

### Table 49. FEPI trace entries

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data area description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 1200</td>
<td>DFHESZ</td>
<td>SZ 1</td>
<td>Entry</td>
<td>1 Static area</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 Parameter list</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3 Static area</td>
</tr>
<tr>
<td>AP 1201</td>
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### Table 49. FEPI trace entries (continued)

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## Transaction initiation trace points

The trace entries in the following table are related to transaction initiation.

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[Chapter 2. AP domain trace points – ‘new style’](#)
Table 50. Transaction initiation trace entries (continued)

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### Table 50. Transaction initiation trace entries (continued)

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Table 50. Transaction initiation trace entries (continued)

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**AP domain Java generated trace points**

The following trace points are generated in a Java™ environment and then mapped to the listed CICS trace points. This approach means that any number of trace points can use each of the trace points in table 84. The interface defines 15 different trace types. It is also possible to determine whether the trace point is an entry or an exit, which gives a total of 16 different trace point IDs (RASITraceEvent types). Setting CICS trace at a particular level can generate several of these RASITraceEvent types. As is generally the case in CICS, these trace levels are exclusive, for example trace level 2 does not include trace level 1. These trace types and the corresponding CICS trace levels are explained in table 52 on page 85.

The second data field is optional and can be omitted when it offers no additional information (such as on a TYPE_ENTRY_EXIT event, where the class and the method name are all that is needed). The remaining data passed on the call, which can vary at run time, is inserted into the remaining fields. In the event of a trace event having more than 6 objects to trace, it spills over to one or more additional trace points where the second and subsequent trace points have a sequence number in parentheses appended to the class and method names, for example (2), (3), and so on.

**Note:** The IBM Developer Kit and Runtime Environment, Java 2 Technology Edition, Version 1.4.2 Diagnostics Guide, SC34-6358, which is available to download from www.ibm.com/developerworks/java/dk/diagnosis/ documents the Java generated trace points and provides more information about problem determination for Java.
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Table 51. AP domain Java generated trace points (continued)

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</tr>
<tr>
<td>AP 180F</td>
<td>CICSTraceService.class</td>
<td>AP 1</td>
<td>TYPE_ENTRY_EXIT (Exit)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Table 52. Types of Java generated trace points (RASITraceEvent types) and the associated CICS trace levels

<table>
<thead>
<tr>
<th>RASITraceEvent type</th>
<th>CICS trace level</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE_API</td>
<td>1</td>
<td>Defines an application programming interface (API) trace point.</td>
</tr>
<tr>
<td>TYPE_CALLBACK</td>
<td>2</td>
<td>Defines a callback method trace point.</td>
</tr>
<tr>
<td>TYPE_ENTRY_EXIT</td>
<td>1</td>
<td>Defines method entry and exit trace points.</td>
</tr>
<tr>
<td>TYPE_ERROR_EXC</td>
<td>off</td>
<td>Defines an error or exception condition trace point.</td>
</tr>
<tr>
<td>TYPE_MISC_DATA</td>
<td>2</td>
<td>Defines a miscellaneous data trace point.</td>
</tr>
<tr>
<td>TYPE_OBJ_CREATE</td>
<td>2</td>
<td>Defines an object creation (constructor) trace point.</td>
</tr>
<tr>
<td>TYPE_OBJ_DELETE</td>
<td>2</td>
<td>Defines an object deletion trace point.</td>
</tr>
<tr>
<td>TYPE_PRIVATE</td>
<td>2</td>
<td>Defines a private method trace point.</td>
</tr>
<tr>
<td>TYPE_PUBLIC</td>
<td>2</td>
<td>Defines a public method trace point. (This typically includes package and protected scope, as all of these methods may be used by other classes.)</td>
</tr>
<tr>
<td>TYPE_STATIC</td>
<td>2</td>
<td>Defines a static method trace point.</td>
</tr>
<tr>
<td>TYPE_SVC</td>
<td>2</td>
<td>Defines a service code trace point. Service code is generally &quot;low-level&quot; code which provides commonly used services to other classes.</td>
</tr>
<tr>
<td>TYPE_LEVEL1</td>
<td>1</td>
<td>Defines a &quot;low-detail&quot; trace point.</td>
</tr>
<tr>
<td>TYPE_LEVEL2</td>
<td>2</td>
<td>Defines a &quot;medium-detail&quot; trace point.</td>
</tr>
<tr>
<td>TYPE_LEVEL3</td>
<td>3</td>
<td>Defines a &quot;high-detail&quot; trace point.</td>
</tr>
<tr>
<td>TYPE_PERF</td>
<td>2</td>
<td>Defines a performance-monitoring trace point.</td>
</tr>
</tbody>
</table>
### Surrogate terminal interface trace points

Table 53. Surrogate terminal interface trace points

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 1910</td>
<td>DFHRTSU</td>
<td>1</td>
<td>Entry</td>
<td>1</td>
</tr>
<tr>
<td>AP 1911</td>
<td>DFHRTSU</td>
<td>1</td>
<td>Exit</td>
<td>2</td>
</tr>
<tr>
<td>AP 1912</td>
<td>DFHRTSU</td>
<td>1</td>
<td>Recovery</td>
<td>1</td>
</tr>
<tr>
<td>AP 1913</td>
<td>DFHRTSU</td>
<td>1</td>
<td>Invalid format</td>
<td>2</td>
</tr>
<tr>
<td>AP 1914</td>
<td>DFHRTSU</td>
<td>1</td>
<td>Invalid function</td>
<td>1</td>
</tr>
<tr>
<td>AP 1915</td>
<td>DFHRTSU</td>
<td>1</td>
<td>Invalid surrogate</td>
<td>2</td>
</tr>
<tr>
<td>AP 1916</td>
<td>DFHRTSU</td>
<td>1</td>
<td>Invalid state</td>
<td>1</td>
</tr>
<tr>
<td>AP 1917</td>
<td>DFHRTSU</td>
<td>1</td>
<td>Invalid saved_state</td>
<td>2</td>
</tr>
</tbody>
</table>

### Language Environment pthread handler trace points

Table 54. Language Environment pthread handler trace points

<table>
<thead>
<tr>
<th>#</th>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>#</td>
<td>AP 1930</td>
<td>DFHLEPT</td>
<td>LE 1</td>
<td>Entry</td>
<td>1</td>
</tr>
<tr>
<td>#</td>
<td>AP 1931</td>
<td>DFHLEPT</td>
<td>LE 1</td>
<td>Exit</td>
<td>1</td>
</tr>
<tr>
<td>#</td>
<td>AP 1932</td>
<td>DFHLEPT</td>
<td>Exc</td>
<td>Recovery</td>
<td>1</td>
</tr>
<tr>
<td>#</td>
<td>AP 1933</td>
<td>DFHLEPT</td>
<td>Exc</td>
<td>Invalid format</td>
<td>None</td>
</tr>
<tr>
<td>#</td>
<td>AP 1934</td>
<td>DFHLEPT</td>
<td>Exc</td>
<td>Invalid function</td>
<td>None</td>
</tr>
<tr>
<td>#</td>
<td>AP 1935</td>
<td>DFHLEPT</td>
<td>Exc</td>
<td>CEEPIPI entry</td>
<td>None</td>
</tr>
<tr>
<td>#</td>
<td>AP 1936</td>
<td>DFHLEPT</td>
<td>Exc</td>
<td>CEEPIPI exit</td>
<td>None</td>
</tr>
<tr>
<td>#</td>
<td>AP 1937</td>
<td>DFHLEPT</td>
<td>Exc</td>
<td>Enclave entry</td>
<td>None</td>
</tr>
<tr>
<td>#</td>
<td>AP 1938</td>
<td>DFHLEPT</td>
<td>Exc</td>
<td>Enclave exit</td>
<td>None</td>
</tr>
<tr>
<td>#</td>
<td>AP 1939</td>
<td>DFHLEPT</td>
<td>Exc</td>
<td>Pthread create failed</td>
<td>None</td>
</tr>
</tbody>
</table>

### Application language interface trace points

Table 55. Language interface trace points

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 1940</td>
<td>DFHAPLI</td>
<td>1</td>
<td>Entry</td>
<td>See Table 56 on page 87</td>
</tr>
<tr>
<td>AP 1941</td>
<td>DFHAPLI</td>
<td>1</td>
<td>Exit</td>
<td>See Table 56 on page 87</td>
</tr>
<tr>
<td>AP 1942</td>
<td>DFHAPLI</td>
<td>1</td>
<td>Recovery</td>
<td>Current parameter list</td>
</tr>
<tr>
<td>AP 1943</td>
<td>DFHAPLI</td>
<td>1</td>
<td>Invalid format</td>
<td>1</td>
</tr>
<tr>
<td>AP 1944</td>
<td>DFHAPLI</td>
<td>1</td>
<td>Invalid function</td>
<td>1</td>
</tr>
<tr>
<td>AP 1945</td>
<td>DFHAPLI</td>
<td>1</td>
<td>Missing parameter</td>
<td>1</td>
</tr>
<tr>
<td>AP 1948</td>
<td>DFHAPLI</td>
<td>1</td>
<td>Language Environment call</td>
<td>See Table 57 on page 88</td>
</tr>
<tr>
<td>AP 1949</td>
<td>DFHAPLI</td>
<td>1</td>
<td>Language Environment return</td>
<td>See Table 57 on page 88</td>
</tr>
<tr>
<td>AP 194C</td>
<td>DFHAPLI</td>
<td>1</td>
<td>C call</td>
<td>See Table 58 on page 89</td>
</tr>
<tr>
<td>AP 194D</td>
<td>DFHAPLI</td>
<td>1</td>
<td>C return</td>
<td>See Table 58 on page 89</td>
</tr>
<tr>
<td>AP 194E</td>
<td>DFHAPLI</td>
<td>1</td>
<td>Determine working storage failed</td>
<td>1</td>
</tr>
<tr>
<td>AP 1950</td>
<td>DFHAPLI</td>
<td>1</td>
<td>Language Environment error</td>
<td>Language Environment reason code</td>
</tr>
<tr>
<td>AP 1952</td>
<td>DFHAPLI</td>
<td>1</td>
<td>C error</td>
<td>C reason code</td>
</tr>
<tr>
<td>#</td>
<td>AP 1953</td>
<td>DFHAPLI</td>
<td>Exc</td>
<td>COBOL/2 recovery</td>
</tr>
<tr>
<td>#</td>
<td>AP 1954</td>
<td>DFHAPLI</td>
<td>Exc</td>
<td>C recovery</td>
</tr>
<tr>
<td>#</td>
<td>AP 1955</td>
<td>DFHAPLI</td>
<td>Exc</td>
<td>COBOL recovery</td>
</tr>
<tr>
<td>#</td>
<td>AP 1956</td>
<td>DFHAPLI</td>
<td>Exc</td>
<td>PLI recovery</td>
</tr>
</tbody>
</table>
### Table 55. Language interface trace points (continued)

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 1957</td>
<td>DFHAPLI</td>
<td>Exc</td>
<td>Dispatcher change mode failed</td>
<td>1</td>
</tr>
<tr>
<td>AP 1960</td>
<td>DFHAPLJ</td>
<td>1</td>
<td>Entry</td>
<td>1</td>
</tr>
<tr>
<td>AP 1961</td>
<td>DFHAPLJ</td>
<td>1</td>
<td>Exit</td>
<td>1</td>
</tr>
<tr>
<td>AP 1962</td>
<td>DFHAPLJ</td>
<td>Exc</td>
<td>Recovery</td>
<td>1</td>
</tr>
<tr>
<td>AP 1963</td>
<td>DFHAPLJ</td>
<td>Exc</td>
<td>Invalid format</td>
<td>1</td>
</tr>
<tr>
<td>AP 1964</td>
<td>DFHAPLJ</td>
<td>Exc</td>
<td>Invalid function</td>
<td>1</td>
</tr>
<tr>
<td>AP 1965</td>
<td>DFHAPLJ</td>
<td>Exc</td>
<td>Error occurred within JVM</td>
<td>1</td>
</tr>
<tr>
<td># AP 1966</td>
<td>DFHAPLJ</td>
<td>Exc</td>
<td>Invalid fetch in DFHJVMAT</td>
<td>1</td>
</tr>
<tr>
<td># AP 1967</td>
<td>DFHAPLJ</td>
<td>Exc</td>
<td>Error occurred within DFHJVMAT</td>
<td>1</td>
</tr>
<tr>
<td># AP 1968</td>
<td>DFHAPLJ</td>
<td>Exc</td>
<td>JVM system exit issued</td>
<td>1</td>
</tr>
<tr>
<td># AP 1969</td>
<td>DFHAPLJ</td>
<td>Exc</td>
<td>Dispatcher change mode failed</td>
<td>1</td>
</tr>
</tbody>
</table>

**Note:** The current parameter list relates to the function being performed at the time of failure, and is as shown for AP 1940 in 56. For an application problem, the function is usually Start Program.

### Table 56. DFHAPLI entry/exit trace data fields

<table>
<thead>
<tr>
<th>Function</th>
<th>Data fields for trace point AP 1940</th>
<th>Data fields for trace point AP 1941</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initialize languages</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Terminate languages</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Start program</td>
<td>1. Program name&lt;br&gt;2. CEDF status&lt;br&gt;3. Execution set (full API or DPL subset)&lt;br&gt;4. Environment type&lt;br&gt;5. SYNCONRETURN&lt;br&gt;6. Language block&lt;br&gt;7. Parameter-list address&lt;br&gt;8. COMMAREA address and length&lt;br&gt;9. Link level</td>
<td>1. Abend code&lt;br&gt;2. Program name</td>
</tr>
<tr>
<td>Find program attributes</td>
<td>1. RSA address</td>
<td>1. Program entry point&lt;br&gt;2. Name at entry point&lt;br&gt;3. Working storage address&lt;br&gt;4. Static storage address</td>
</tr>
<tr>
<td>Goto</td>
<td>1. RSA address</td>
<td>1. Parameter list&lt;br&gt;2. RSA address&lt;br&gt;3. Language Environment entry point</td>
</tr>
</tbody>
</table>
Table 57. Language Environment call/return trace data fields

<table>
<thead>
<tr>
<th>Function</th>
<th>Data fields for trace point AP 1948</th>
<th>Data fields for trace point AP 1949</th>
</tr>
</thead>
<tbody>
<tr>
<td>Partition termination</td>
<td>1. Function 2. Parameter list</td>
<td>1. Function</td>
</tr>
<tr>
<td>Thread termination</td>
<td>1. Function 2. Parameter list</td>
<td>1. Function</td>
</tr>
<tr>
<td>Run-Unit Initialization</td>
<td>1. Function 2. Parameter list 3. Program name 4. PGMINFO1 (see page Table 59 on page 90) 5. RSA address 6. Storage tuning area (Only if Language Environment dynamic storage tuning is supported)</td>
<td>1. Function 2. Reason code 3. Program name 4. Language Environment run-unit token 5. RSA address</td>
</tr>
<tr>
<td>Run-Unit Initialization and begin invocation</td>
<td>1. Function 2. Parameter list 3. Program name 4. PGMINFO1 (see page Table 59 on page 90) 5. RSA address 6. and-begin 7. Storage tuning area (Only if Language Environment dynamic storage tuning is supported)</td>
<td>1. Function 2. Reason code 3. Program name 4. Language Environment run-unit token 5. RSA address 6. and-begin</td>
</tr>
<tr>
<td>Run-unit termination</td>
<td>1. Function 2. Parameter list 3. Program name 4. RSA address</td>
<td>1. Function 2. Reason code 3. Program name 4. RSA address 5. PGMINFO2 (see page (Only if Language Environment dynamic storage tuning is supported) 6. Storage tuning area (Only if Language Environment dynamic storage tuning is supported)</td>
</tr>
</tbody>
</table>
### Table 57. Language Environment call/return trace data fields (continued)

<table>
<thead>
<tr>
<th>Function</th>
<th>Data fields for trace point AP 1948</th>
<th>Data fields for trace point AP 1949</th>
</tr>
</thead>
<tbody>
<tr>
<td>Run-unit end invocation</td>
<td>1. Function</td>
<td>1. Function</td>
</tr>
<tr>
<td></td>
<td>2. Parameter list</td>
<td>2. Reason code</td>
</tr>
<tr>
<td></td>
<td>3. Program name</td>
<td>3. Program name</td>
</tr>
<tr>
<td></td>
<td>4. System use</td>
<td>4. Contcode</td>
</tr>
<tr>
<td></td>
<td>5. RSA address</td>
<td>5. RSA address</td>
</tr>
<tr>
<td>Establish ownership type</td>
<td>1. Function</td>
<td>1. Function</td>
</tr>
<tr>
<td></td>
<td>2. Parameter list</td>
<td>2. Reason code</td>
</tr>
<tr>
<td></td>
<td>3. Program name</td>
<td>3. Program name</td>
</tr>
<tr>
<td></td>
<td>4. <strong>PGMINFO1</strong> (see page Table 59 on page 90)</td>
<td>4. <strong>PGMINFO2</strong> (see page Table 60 on page 90)</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> Language Environment parameter lists are described starting on page “Language Environment parameter lists” on page 91</td>
<td></td>
</tr>
<tr>
<td>Determine working storage</td>
<td>1. Function</td>
<td>1. Function</td>
</tr>
<tr>
<td></td>
<td>2. Parameter list</td>
<td>2. Reason code</td>
</tr>
<tr>
<td></td>
<td>3. Program name</td>
<td>3. Program name</td>
</tr>
<tr>
<td>Perform Goto</td>
<td>1. Function</td>
<td>1. Function</td>
</tr>
<tr>
<td></td>
<td>2. Parameter list</td>
<td>2. Reason code</td>
</tr>
<tr>
<td></td>
<td>3. Program name</td>
<td>3. Program name</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> Language Environment parameter lists are described starting on page “Language Environment parameter lists” on page 91</td>
<td></td>
</tr>
<tr>
<td>Program check recovery</td>
<td>1. Function</td>
<td>1. Function</td>
</tr>
<tr>
<td></td>
<td>2. Parameter list</td>
<td>2. Return code</td>
</tr>
<tr>
<td></td>
<td>3. Program name</td>
<td>3. Program name</td>
</tr>
<tr>
<td></td>
<td>4. Celinfo</td>
<td>4. Reason code</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> Language Environment parameter lists are described starting on page “Language Environment parameter lists” on page 91</td>
<td></td>
</tr>
</tbody>
</table>

### Table 58. C call/return trace data fields

<table>
<thead>
<tr>
<th>Function</th>
<th>Data fields for trace point AP 194C</th>
<th>Data fields for trace point AP 194D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Partition initialization</td>
<td>1. Function</td>
<td>1. Function</td>
</tr>
<tr>
<td></td>
<td>2. Parameter list</td>
<td>2. Reason code</td>
</tr>
<tr>
<td>Partition termination</td>
<td>1. Function</td>
<td>3. C partition token</td>
</tr>
<tr>
<td></td>
<td>2. Parameter list</td>
<td>4. C Interface level</td>
</tr>
<tr>
<td>Thread initialization</td>
<td>1. Function</td>
<td>1. Function</td>
</tr>
<tr>
<td></td>
<td>2. Parameter list</td>
<td>2. Reason code</td>
</tr>
<tr>
<td></td>
<td>3. Program name</td>
<td>3. Program name</td>
</tr>
<tr>
<td>Thread termination</td>
<td>1. Function</td>
<td>4. C Thread token</td>
</tr>
<tr>
<td></td>
<td>2. Parameter list</td>
<td>2. Reason code</td>
</tr>
<tr>
<td>Run-Unit Initialization</td>
<td>1. Function</td>
<td>1. Function</td>
</tr>
<tr>
<td></td>
<td>2. Parameter list</td>
<td>2. Reason code</td>
</tr>
<tr>
<td></td>
<td>3. Program name</td>
<td>3. Program name</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. C run-unit token</td>
</tr>
</tbody>
</table>
Table 58. C call/return trace data fields (continued)

<table>
<thead>
<tr>
<th>Function</th>
<th>Data fields for trace point AP 194C</th>
<th>Data fields for trace point AP 194D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Run-unit termination</td>
<td>1. Function</td>
<td>1. Function</td>
</tr>
<tr>
<td></td>
<td>2. Parameter list</td>
<td>2. Reason code</td>
</tr>
<tr>
<td></td>
<td>3. Program name</td>
<td>3. Program name</td>
</tr>
<tr>
<td></td>
<td>5. Registers at abend</td>
<td></td>
</tr>
<tr>
<td>Determine program type</td>
<td>1. Function</td>
<td>1. Function</td>
</tr>
<tr>
<td></td>
<td>2. Parameter list</td>
<td>2. Reason code</td>
</tr>
<tr>
<td></td>
<td>3. Program name</td>
<td>3. Program name</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. Program flags</td>
</tr>
<tr>
<td>Working storage locate</td>
<td>1. Function</td>
<td>1. Function</td>
</tr>
<tr>
<td></td>
<td>2. Parameter list</td>
<td>2. Reason code</td>
</tr>
<tr>
<td></td>
<td>3. Program name</td>
<td>3. Program name</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. W/S address</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5. W/S length</td>
</tr>
</tbody>
</table>

Note: C parameter lists are described starting on page C parameter lists on page 95

Table 59. PGMINFO1 structure. This structure, used for communication between CICS and Language Environment, is referred to in figures 56 and 57. The structure consists of 11 fullwords.

<table>
<thead>
<tr>
<th>Displacement (hex)</th>
<th>Fullword contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>00</td>
<td>Length of the structure</td>
</tr>
<tr>
<td>04</td>
<td>The language of the run unit (main program) as known to CICS. One of the first 6 bits is set on with the following meaning: 1. Assembler  2. C  3. Cobol/2  4. PL/I  5. RPG (not supported by CICS)  6. Not known or Language Environment</td>
</tr>
<tr>
<td>08</td>
<td>Address of the run unit program</td>
</tr>
<tr>
<td>0C</td>
<td>Length of the run unit program</td>
</tr>
<tr>
<td>10</td>
<td>Entry point address of the run unit; bit zero of this field is set on in the case of programs running in 31-bit addressing mode.</td>
</tr>
<tr>
<td>14</td>
<td>Modified entry address</td>
</tr>
<tr>
<td>18</td>
<td>Address of the run unit work area preallocated above 16 megabytes</td>
</tr>
<tr>
<td>1A</td>
<td>Address of the run unit work area preallocated below 16 megabytes</td>
</tr>
<tr>
<td>20</td>
<td>Address of the application program argument list, which is a 2-fullword structure containing the addresses of the user EIB and COMMAREA</td>
</tr>
<tr>
<td>24</td>
<td>Address of the run time options string passed by CICS to Language Environment.</td>
</tr>
<tr>
<td>28</td>
<td>Length of the run time options string</td>
</tr>
</tbody>
</table>

Table 60. PGMINFO2 structure. This structure, used for communication between CICS and Language Environment, is referred to in Table 57 on page 86. Some fields are used when the language is not Language Environment. The structure consists of 7 fullwords.

<table>
<thead>
<tr>
<th>Displacement (hex)</th>
<th>Fullword contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>00</td>
<td>Length of the structure</td>
</tr>
</tbody>
</table>
Table 60. PGMINFO2 structure (continued). This structure, used for communication between CICS and Language Environment, is referred to in Table 57 on page 88. Some fields are used when the language is not Language Environment. The structure consists of 7 fullwords.

<table>
<thead>
<tr>
<th>Displacement (hex)</th>
<th>Fullword contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>04</td>
<td>Size of the work area required to run the program. This is used by Language Environment for storage above the 16-megabyte line, and by C for all storage. For C only, the first bit of this fullword is set on to indicate storage above the 16-megabyte line.</td>
</tr>
<tr>
<td>08</td>
<td>Size of the work area, below the 16-megabyte line, that is required to run the program (Language Environment only).</td>
</tr>
</tbody>
</table>
| 0C                 | The first ten bits are binary flags. The meaning of an on setting for each bit is as follows:
1. The program can run under Language Environment.
2. Language Environment knows the language of the program (Language Environment only).
3. More than one language is used in the program (Language Environment only).
4. The program can run under Language Environment, but is not compiled by an Language Environment compiler. Language Environment must run the program in compatibility mode (Language Environment only).
5. The program is executable under Language Environment.
6. The program language is Assembler.
7. The program language is C.
8. The program language is COBOL 2.
9. The program language is OS/VS COBOL. (OS/VS COBOL programs cannot run under CICS Transaction Server for z/OS Version 3.)
10. The program language is PL/I. |
| 10                 | Language ID number of the first executable CSECT in the program (Language Environment only) |
| 14                 | Address of CEECOPT (Global Language Environment runtime options) |
| 18                 | Address of CEEVOPT (Specific Language Environment runtime options) |
| 1C                 | Address of dynamic storage tuning area |

Language Environment parameter lists
The parameter list passed to Language Environment varies with the function as follows.

**Partition initialization**
1. Function (partition initialization)
2. Address of reason code
3. Address of system EIB
4. Address of 240-byte work-area for use by Language Environment
5. Address of a double-word into which Language Environment saves its partition token
6. Address of a fullword containing the length of the EIB
7. Address of a fullword into which Language Environment saves the length of the thread work-area required for Language Environment programs
8. Address of a fullword into which Language Environment saves the Language Environment Interface Level number
9. Address of a pointer to the CICS Get CAA module DFHGCAA
10. Address of a pointer to the CICS Set CAA module DFHSCAA
11. Address of the LANGDEF area
12. Address of the 'language availability' area set by Language Environment. Flags set by Language Environment in this area that are of interest to CICS are:
Partition termination
1. Function (partition termination)
2. Address of reason code
3. Address of system EIB
4. Address of 240-byte work-area for use by Language Environment
5. Address of Language Environment partition token.

Thread initialization
1. Function (thread initialization)
2. Address of reason code
3. Address of system EIB
4. Address of 240-byte work-area for use by Language Environment
5. Address of Language Environment partition token
6. Address of a double-word into which Language Environment saves its thread token
7. Address of Language Environment Thread Work-area
8. Address of pgminfo1
9. Address of pgminfo2
10. Address of flagword.

Thread termination
1. Function (thread termination)
2. Address of reason code
3. Address of system EIB
4. Address of 240-byte work-area for use by Language Environment
5. Address of Language Environment partition token
6. Address of Language Environment thread token.

Run-unit initialization/Run-unit initialization and begin invocation
1. Function (run-unit initialization)
2. Address of reason code
3. Address of system EIB
4. Address of 240-byte work-area for use by Language Environment
5. Address of Language Environment partition token
6. Address of Language Environment thread token
7. Address of Language Environment run-unit token
8. Address of pgminfo1
10. Address of ioinfo.
11. Address of runinfo. Runinfo is a fullword containing bits:
    - **bit 0 - off**
      Indicates rununit initialization only
    - **bit 0 - on**
      Indicates combined rununit initialization and begin invocation
    - **bit 1 - on**
      Indicates CICSTS passing a reusable RUWA (allows Language Environment optimization)

Run-unit begin invocation
1. Function (run-unit begin invocation)
2. Address of reason code
3. Address of system EIB
4. Address of 240-byte work-area for use by Language Environment
5. Address of Language Environment partition token
6. Address of Language Environment thread token
7. Address of Language Environment run-unit token
8. Address of pgminfo1
9. Address of pgminfo2
10. Address of ioinfo

**Run-unit end invocation**
1. Function (run-unit end invocation)
2. Address of reason code
3. Address of system EIB
4. Address of 240-byte work-area for use by Language Environment
5. Address of Language Environment partition token
6. Address of Language Environment thread token
7. Address of Language Environment run-unit token
8. Address of pgminfo1
9. Address of pgminfo2
10. Address of celinfo.

**Program check recovery**
1. Function (program check recovery)
2. Address of reason code
3. Address of celinfo
4. Address of 240-byte work-area for use by Language Environment

**Run-unit termination**
1. Function (run-unit termination)
2. Address of reason code
3. Address of system EIB
4. Address of 240-byte work-area for use by Language Environment
5. Address of Language Environment partition token
6. Address of Language Environment thread token
7. Address of Language Environment run-unit token.

**Establish ownership type**
1. Function (establish ownership type)
2. Address of reason code
3. Address of system EIB
4. Address of 240-byte work-area for use by Language Environment
5. Address of Language Environment partition token
6. Reserved
7. Reserved
8. Address of pgminfo1

**Determine working storage**
1. Function (determine working storage)
2. Address of reason code
3. Address of system EIB
4. Address of 240-byte work-area for use by Language Environment
5. Address of Language Environment partition token
6. Address of Language Environment thread token for the user transaction
7. Address of Language Environment run-unit token for the user transaction
8. Address of the Language Definition bits
9. Address of the user program’s register save area
10. Address of a fullword into which Language Environment saves the address of the user program’s working storage
11. Address of a fullword into which Language Environment saves the length of the user program's working storage
12. Address of a fullword into which Language Environment saves the address of the user program's static storage
13. Address of a fullword into which Language Environment saves the length of the user program's static storage
14. Address of a fullword into which Language Environment saves the entry point of the program
15. Address of a fullword into which Language Environment saves the address of a character string, preceded by a length halfword, giving the internal name of the program (currently not supported by CICS).

Perform Goto
1. Function (perform Goto)
2. Address of reason code
3. Address of system EIB
4. Address of 240-byte work-area for use by Language Environment
5. Address of Language Environment partition token
6. Address of Language Environment thread token for the user transaction
7. Address of Language Environment run-unit token for the user transaction
8. Address of the Language Definition bits
9. Address of the label argument of the Handle command
10. Address of the user's RSA reflecting the registers at the last EXEC CICS command
11. Address of a fullword into which Language Environment may set the Cross-Call error flag
12. Address of a field holding the abend code from the TACB
13. Address of a field holding the value of Register 13 at the time of the abend.

COBOL2 parameter lists
The parameter list passed to COBOL2 varies with the function as follows.

Partition initialization
1. Function (partition initialization)
2. Address of system EIB
3. Address of take-token entry point (DFHEIPTT)
4. Address of GETMAIN entry point (DFHEIPGM)
5. Address of FREEMAIN entry point (DFHEIPFM)
6. Address of a 2-byte area ‘system_flags’ containing:
   • Mode Switching flag (X'80' bit)
   • CSZOPSYS (Operating System) value.
7. Address of a fullword containing the CICS interface-level number (always set to 1)
8. Address of a double-word into which COBOL2 saves its partition token
9. Address of a fullword into which COBOL2 saves its interface-level number.

Partition termination
This function is not supported for COBOL2.

Thread initialization
1. Function (thread initialization)
2. Address of COBOL2 partition token
3. Address of user EIB
4. Address of CICS thread token (i.e. the TCA)
5. Address of a double-word into which COBOL2 saves its thread token.

Thread termination
1. Function (thread termination)
2. Address of COBOL2 partition token
3. Address of COBOL2 thread token.
Run-unit initialization
1. Function (run-unit initialization)
2. Address of COBOL2 partition token
3. Address of COBOL2 thread token
4. Address of module entry point
5. Address of EIB and COMMAREA address vector.

Run-unit begin invocation
This function is not supported for COBOL2.

Run-unit end invocation
This function is not supported for COBOL2.

Run-unit termination
1. Function (run-unit termination)
2. Address of COBOL2 partition token
3. Address of COBOL2 thread token
4. Address of COBOL2 run-unit token
5. Address of terminfo.

Determine program type
1. Function (determine program type)
2. Address of COBOL2 partition token
3. Reserved
4. Address of token-holding program load point
5. Address of token-holding program entry point
6. Address of fullword containing program flags to be set by COBOL2
7. Program flags fullword.

Working storage locate
1. Function (working storage locate)
2. Address of COBOL2 partition token
3. Address of COBOL2 thread token for the transaction
4. Address of COBOL2 run-unit token for the transaction
5. Address of a fullword into which COBOL2 saves the address of the user program's working storage
6. Address of a fullword into which COBOL2 saves the length of the user program's working storage.

Perform Goto
This function is not supported for COBOL2.

C parameter lists
The parameter list passed to C varies with the function as follows.

Partition initialization
1. Function (partition initialization)
2. Address of reason code
3. Address of system EIB
4. Address of 240-byte work-area for use by Language Environment
5. Address of a double-word into which C saves its partition token
6. Reserved
7. Address of a fullword containing the length of the EIB
8. Address of a fullword into which C saves the length of the thread work-area required for C programs
9. Address of a fullword into which C saves its interface-level number.

Partition termination
1. Function (partition termination)
2. Address of reason code
3. Address of user EIB
4. Address of 240-byte work-area for use by C
5. Address of C partition token.

**Thread initialization**
1. Function (thread initialization)
2. Address of reason code
3. Address of user EIB
4. Address of 240-byte work-area for use by C
5. Address of C partition token
6. Address of a double-word into which C saves its thread token
7. Address of C thread Work-area.

**Thread termination**
1. Function (thread termination)
2. Address of reason code
3. Address of user EIB
4. Address of 240-byte work-area for use by C
5. Address of C partition token
6. Address of C thread token.

**Run-unit initialization**
1. Function (run-unit initialization)
2. Address of reason code
3. Address of user EIB
4. Address of 240-byte work-area for use by C
5. Address of C partition token
6. Address of C thread token
7. Address of C run-unit token
8. Address of C run-unit work area
9. Address of token-holding module entry point
10. Address of EIB and COMMAREA address vector
11. Address of ioinfo.

**Run-unit begin invocation**
This function is not supported for C.

**Run-unit end invocation**
This function is not supported for C.

**Run-unit termination**
1. Function (run-unit termination)
2. Address of reason code
3. Address of user EIB
4. Address of 240-byte work-area for use by C
5. Address of C partition token
6. Address of C thread token
7. Address of C run-unit token
8. Address of celinfo.

**Determine program type**
1. Function (determine program type)
2. Address of reason code
3. Address of user EIB
4. Address of 240-byte work-area for use by C
5. Address of C partition token
6. Address of C thread token
7. Address of token-holding program load point
8. Address of token-holding program entry point
9. Address of fullword containing program flags to be set by C
10. Address of fullword to receive the length of the required run-unit work-area
11. Program flags fullword.

**Working storage locate**
1. Function (working storage locate)
2. Address of reason code
3. Address of user EIB
4. Address of 240-byte work-area for use by C
5. Address of C partition token
6. Address of C thread token for the user transaction
7. Address of the user program’s register save area
8. Address of a fullword into which C saves the address of the user program’s working storage
9. Address of a fullword into which C saves the length of the user program’s working storage.

**Perform Goto**
This function is not supported for C.

---

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 19A0</td>
<td>DFHAPLX</td>
<td>AP 1</td>
<td>Entry</td>
<td>DFHAPLI parameter list</td>
</tr>
<tr>
<td>AP 19A1</td>
<td>DFHAPLX</td>
<td>AP 1</td>
<td>Exit</td>
<td>DFHAPLI parameter list</td>
</tr>
<tr>
<td>AP 19A2</td>
<td>DFHAPLX</td>
<td>Exc</td>
<td>Recovery</td>
<td>DFHAPLI parameter list</td>
</tr>
<tr>
<td>AP 19A3</td>
<td>DFHAPLX</td>
<td>Exc</td>
<td>Invalid Format</td>
<td>DFHAPLI parameter list</td>
</tr>
<tr>
<td>AP 19A4</td>
<td>DFHAPLX</td>
<td>Exc</td>
<td>Invalid Function</td>
<td>DFHAPLI parameter list</td>
</tr>
<tr>
<td>AP 19A5</td>
<td>DFHAPLX</td>
<td>AP 1</td>
<td>Entry</td>
<td>DFHD SAT parameter list</td>
</tr>
<tr>
<td>AP 19A6</td>
<td>DFHAPLX</td>
<td>Exc</td>
<td>Error response from DFHAPPIS</td>
<td>DFHAPLI parameter list</td>
</tr>
<tr>
<td>AP 19A7</td>
<td>DFHAPLX</td>
<td>AP 2</td>
<td>Event PIPI call init_main</td>
<td>CEEPIPI parameter list</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Language Environment runtime options string</td>
</tr>
<tr>
<td>AP 19A8</td>
<td>DFHAPLX</td>
<td>AP 2</td>
<td>Event PIPI return init_main</td>
<td>CEEPIPI parameter list</td>
</tr>
<tr>
<td>AP 19A9</td>
<td>DFHAPLX</td>
<td>AP 2</td>
<td>Event PIPI return del_main</td>
<td>CEEPIPI parameter list</td>
</tr>
<tr>
<td>AP 19A9</td>
<td>DFHAPLX</td>
<td>AP 2</td>
<td>Error response from CEEPIPI</td>
<td>APLX_PIPI_PARMS</td>
</tr>
<tr>
<td>AP 19AF</td>
<td>DFHAPLX</td>
<td>Exc</td>
<td>DSAT_change_mode_failed</td>
<td>DFHD SAT parameter list</td>
</tr>
<tr>
<td>AP 19B0</td>
<td>DFHAPLX</td>
<td>Exc</td>
<td>DFHAPLX failed to load DFHAPPIV</td>
<td>DFHLDLD_ARG</td>
</tr>
</tbody>
</table>
### Table 61. XPLink trace points (continued)

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 19B1</td>
<td>DFHAPLX</td>
<td>Exc</td>
<td>DFHAPLX failed to getmain PISV</td>
<td>1</td>
</tr>
<tr>
<td>AP 19B2</td>
<td>DFHAPLX</td>
<td>Exc</td>
<td>DFHAPLX failed to getmain PISB</td>
<td>1</td>
</tr>
<tr>
<td>AP 19B3</td>
<td>DFHAPLX</td>
<td>Exc</td>
<td>DFHAPLX failed to getmain work area</td>
<td>1</td>
</tr>
<tr>
<td>AP 19B4</td>
<td>DFHAPLX</td>
<td>Exc</td>
<td>Language Environment passed invalid module name length to DFHAPLX</td>
<td>1</td>
</tr>
<tr>
<td>AP 19B5</td>
<td>DFHAPLX</td>
<td>Exc</td>
<td>DFHAPLX failed to load a program</td>
<td>1</td>
</tr>
<tr>
<td>AP 19B6</td>
<td>DFHAPLX</td>
<td>Exc</td>
<td>Language Environment requested DFHAPLX to delete a program it had not loaded</td>
<td>1</td>
</tr>
<tr>
<td>AP 19B7</td>
<td>DFHAPLX</td>
<td>Exc</td>
<td>DFHAPLX failed to release a program</td>
<td>1</td>
</tr>
<tr>
<td>AP 19B8</td>
<td>DFHAPLX</td>
<td>Exc</td>
<td>DFHAPLX failed to getmain storage for Language Environment</td>
<td>1</td>
</tr>
<tr>
<td>AP 19B9</td>
<td>DFHAPLX</td>
<td>Exc</td>
<td>Language Environment requested DFHAPLX to free storage it had not allocated</td>
<td>1</td>
</tr>
<tr>
<td>AP 19BA</td>
<td>DFHAPLX</td>
<td>Exc</td>
<td>DFHAPLX failed to freemain storage for Language Environment</td>
<td>1</td>
</tr>
<tr>
<td>AP 19BB</td>
<td>DFHAPLX</td>
<td>Exc</td>
<td>DFHAPLX failed to inquire transaction data</td>
<td>1</td>
</tr>
<tr>
<td>AP 19BC</td>
<td>DFHAPLX</td>
<td>Exc</td>
<td>DFHAPLX failed to write TD queue</td>
<td>1</td>
</tr>
<tr>
<td>AP 19BD</td>
<td>DFHAPLX</td>
<td>Exc</td>
<td>DFHAPLX failed to getmain internal storage</td>
<td>1</td>
</tr>
<tr>
<td>AP 19BE</td>
<td>DFHAPLX</td>
<td>Exc</td>
<td>DFHAPLX failed to freemain internal storage</td>
<td>1</td>
</tr>
<tr>
<td>AP 19BF</td>
<td>DFHAPLX</td>
<td>Exc</td>
<td>DFHAPLX termination failed to release a program</td>
<td>1</td>
</tr>
<tr>
<td>AP 19C0</td>
<td>DFHAPLX</td>
<td>Exc</td>
<td>DFHAPLX termination failed to freemain storage</td>
<td>1</td>
</tr>
<tr>
<td>AP 19C1</td>
<td>DFHAPLX</td>
<td>Exc</td>
<td>DFHAPLX termination failed to freemain work area</td>
<td>1</td>
</tr>
<tr>
<td>AP 19C2</td>
<td>DFHAPLX</td>
<td>Exc</td>
<td>DFHAPLX termination failed to freemain PISB</td>
<td>1</td>
</tr>
<tr>
<td>AP 19C3</td>
<td>DFHAPLX</td>
<td>Exc</td>
<td>DFHAPLX termination failed to freemain PISV</td>
<td>1</td>
</tr>
<tr>
<td>AP 19C4</td>
<td>DFHAPLX</td>
<td>Exc</td>
<td>DFHAPLX termination failed to release DFHAPPIV</td>
<td>1</td>
</tr>
</tbody>
</table>

### Table 62. WSSE trace points

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 1C00</td>
<td>DFHWSSE1</td>
<td>AP 1</td>
<td>Entry</td>
<td>1</td>
</tr>
<tr>
<td>AP 1C01</td>
<td>DFHWSSE1</td>
<td>AP 1</td>
<td>Exit</td>
<td>1</td>
</tr>
<tr>
<td>AP 1C02</td>
<td>DFHWSSE1</td>
<td>AP 1</td>
<td>*Exc</td>
<td>1</td>
</tr>
<tr>
<td>AP 1C03</td>
<td>DFHWSSE1</td>
<td>AP 1</td>
<td>Event</td>
<td>1</td>
</tr>
<tr>
<td>AP 1C04</td>
<td>DFHWSSE1</td>
<td>AP 1</td>
<td>Event: ICSF_precall</td>
<td>1</td>
</tr>
<tr>
<td>AP 1C05</td>
<td>DFHWSSE1</td>
<td>AP 1</td>
<td>Event: ICSF_postcall</td>
<td>1</td>
</tr>
<tr>
<td>AP 1C06</td>
<td>DFHWSSE1</td>
<td>AP 1</td>
<td>Event: ICSF_failure</td>
<td>1</td>
</tr>
<tr>
<td>AP 1C07</td>
<td>DFHWSSE1</td>
<td>AP 2</td>
<td>Entry</td>
<td>1</td>
</tr>
</tbody>
</table>
Table 62. WSSE trace points (continued)

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 1C08</td>
<td>DFHWSSE1</td>
<td>AP 2</td>
<td>Exit</td>
<td>1 Class and method</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 - 7 Method parameters</td>
</tr>
<tr>
<td>AP 1C09</td>
<td>DFHWSSE1</td>
<td>AP 2</td>
<td>*Exc</td>
<td>1 Class and method</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 - 7 Method parameters</td>
</tr>
<tr>
<td>AP 1C0A</td>
<td>DFHWSSE1</td>
<td>AP 2</td>
<td>Event</td>
<td>1 Class and method</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 - 7 Method parameters</td>
</tr>
</tbody>
</table>

Program control trace points

Table 63. Program control trace points

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 2000</td>
<td>DFHPCPG</td>
<td>PC 1</td>
<td>Entry</td>
<td>1 TCAPCTR type</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 TCAPCSR secondary request byte</td>
</tr>
<tr>
<td>AP 2001</td>
<td>DFHPCPG</td>
<td>PC 1</td>
<td>Exit</td>
<td>1 TCAPCTR type</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
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Signon trace points

Table 64. Signon trace points

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Table 64. Signon trace points (continued)

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<td>Default session signon failure</td>
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<td>DFHSNPU</td>
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| AP 20A8  | DFHSNXR | Exc|                           | 1 DFHSNUS parameter list    |
| AP 20A9  | DFHSNXR | Exc|                           | 1 DFHSNUS parameter list    |
| AP 20AA  | DFHSNXR | Exc|                           | 1 DFHSNUS parameter list    |

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### Table 64. Signon trace points (continued)

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<td>AP 20AC</td>
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<td>Exc</td>
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<td>DFHSNSG</td>
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<td>Pointer to surrogate TCTTE</td>
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<td>Pointer to surrogate TCTTE</td>
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<td>DFHXSEV</td>
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<td>Four-word return code data area</td>
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### Bridge facility management trace points: Part 1

### Table 65. Bridge facility management trace points

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### Table 65. Bridge facility management trace points (continued)

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| AP 217D  | DFHBRIC     | BR 2 | Formatter return| 1: BRXA transaction area  
|          |             |      |                 | 2: BRXA command area    |
|          |             |      |                 | 3: From data            |
|          |             |      |                 | 4: Into data            |
| AP 217E  | DFHBRSP     | BR 2 | Call formatter  | 1: BRSP parameter list  
|          |             |      |                 | 2: BRXA transaction area  
|          |             |      |                 | 3: BRXA command area    |
|          |             |      |                 | 4: From data            |
|          |             |      |                 | 5: Into data            |
| AP 217F  | DFHBRSP     | BR 2 | Formatter return| 1: BRSP parameter list  
|          |             |      |                 | 2: BRXA transaction area  
|          |             |      |                 | 3: BRXA command area    |
|          |             |      |                 | 4: From data            |
|          |             |      |                 | 5: Into data            |

**Note:** For more bridge management facility trace entries, see [Bridge facility management trace points: Part 2](#) on page 181 and [Bridge facility management trace points: Part 3](#) on page 207.

### C++ and JAVA trace points

**Note:** The IBM Developer Kit and Runtime Environment, Java 2 Technology Edition, Version 1.4.2 Diagnostics Guide, SC34-6358, which is available to download from [www.ibm.com/developerworks/java/jdk/diagnosis/](http://www.ibm.com/developerworks/java/jdk/diagnosis/) documents the Java generated trace points and provides more information about problem determination for Java.

### Table 66. C++ and JAVA trace points

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| AP 2181  | ICCFCDLL      |      | See Table 71 on page 110 | See Table 67 on page 109  
|          |               |      | See data-1      | 2: Reserved            |
| AP 2182  | ICCFCDLL      |      | See Table 71 on page 110 | See Table 67 on page 109  
|          |               |      | See data-1      | 2: Reserved            |
| AP 2183  | ICCFCDLL      |      | See Table 71 on page 110 | See Table 67 on page 109  
|          |               |      | See data-1      | 2: Reserved            |
| AP 2184  | ICCFCDLL      |      | See Table 71 on page 110 | See Table 67 on page 109  
|          |               |      | See data-1      | 2: Reserved            |
| AP 2185  | ICCFCDLL      |      | See Table 71 on page 110 | See Table 67 on page 109  
|          |               |      | See data-1      | 2: Reserved            |
| AP 2186  | ICCFCDLL      |      | See Table 71 on page 110 | See Table 67 on page 109  
|          |               |      | See data-1      | 2: Reserved            |
| AP 2187  | ICCFCDLL      |      | See Table 71 on page 110 | See Table 67 on page 109  
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Table 66. C++ and JAVA trace points (continued)

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<td>3-7 See Table 71 on page 110</td>
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<td>3-7 See Table 71 on page 110</td>
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Table 66. C++ and JAVA trace points (continued)

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<th>Point ID</th>
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<td>DFJIIOP</td>
<td>See Table 74 on page 161</td>
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Table 67. C++, JCICS and IIOP data-1 layout

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<th>Offset</th>
<th>Description</th>
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<tbody>
<tr>
<td>0</td>
<td>Number of data fields in addition to data-1 and data-2</td>
</tr>
<tr>
<td>4</td>
<td>Trace point ID</td>
</tr>
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<td>6</td>
<td>Trace point type. See Table 68</td>
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<td>8</td>
<td>Caller type. See Table 69 on page 110</td>
</tr>
<tr>
<td>A</td>
<td>Method identifier. See Table 74 on page 161</td>
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</table>

Table 68. C++, JCICS and IIOP trace point types

<table>
<thead>
<tr>
<th>Type value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1001</td>
<td>Entry</td>
</tr>
<tr>
<td>1002 - 1005</td>
<td>Exit, Exit0 - Exit8</td>
</tr>
<tr>
<td>1006 - 100F</td>
<td>Exception</td>
</tr>
<tr>
<td>1010 - 101A</td>
<td>Error</td>
</tr>
<tr>
<td>101B - 101E</td>
<td>Warning</td>
</tr>
<tr>
<td>101F - 1022</td>
<td>Inf</td>
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<tr>
<td>1023</td>
<td>CICS Exception</td>
</tr>
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### Table 69. C++, JCICS and IIOP caller types

<table>
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<th>Type value</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>2001</td>
<td>Method</td>
</tr>
<tr>
<td>2002</td>
<td>Function</td>
</tr>
<tr>
<td>2003 - 2004</td>
<td>Constructor</td>
</tr>
<tr>
<td>2005 - 2006</td>
<td>Destructor</td>
</tr>
<tr>
<td>2007</td>
<td>Class static initialization</td>
</tr>
</tbody>
</table>

### Table 70. Direct CICS classes

<table>
<thead>
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<th>Method ID</th>
<th>Class_Method</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>3002</td>
<td>DtcExec</td>
<td>2</td>
<td>Entry</td>
<td>1 &amp;Options</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 &amp;arg0.grpcode</td>
</tr>
<tr>
<td>3002</td>
<td>DtcExec</td>
<td>2</td>
<td>Info</td>
<td>1 &amp;Options</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 ptr</td>
</tr>
<tr>
<td>3002</td>
<td>DtcExec</td>
<td>2</td>
<td>Exit</td>
<td>1 I-&gt;R.Resp);</td>
</tr>
<tr>
<td>3005</td>
<td>DtcInit</td>
<td>2</td>
<td>Info</td>
<td>1 &amp;Verb</td>
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<tr>
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<td></td>
<td></td>
<td></td>
<td>2 &amp;arg0.grpcode</td>
</tr>
<tr>
<td>3006</td>
<td>DtcNew</td>
<td>2</td>
<td>Entry</td>
<td>1 Options);</td>
</tr>
<tr>
<td>3006</td>
<td>DtcNew</td>
<td>2</td>
<td>Exit</td>
<td>ptr);</td>
</tr>
<tr>
<td>3007</td>
<td>DtcSet</td>
<td>2</td>
<td>Info</td>
<td>1 &amp;Keyword</td>
</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td>2 &amp;Value</td>
</tr>
<tr>
<td>3196</td>
<td>DtcGetMessageText</td>
<td>Exc</td>
<td>Entry</td>
<td>1 msgId);</td>
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<tr>
<td>3196</td>
<td>DtcGetMessageText</td>
<td>Exc</td>
<td>Info</td>
<td>1 messageBuffer</td>
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<tr>
<td>3196</td>
<td>DtcGetMessageText</td>
<td>Exc</td>
<td>Entry</td>
<td>1 insert3A</td>
</tr>
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<td></td>
<td></td>
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<td>3 insert5A</td>
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<td>3196</td>
<td>DtcGetMessageText</td>
<td>Exc</td>
<td>Exit</td>
<td>1 messageBuffer</td>
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### Table 71. C++ foundation classes

<table>
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<tr>
<th>Method ID</th>
<th>Class_Method</th>
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<th>Type</th>
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<tr>
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<td>IccTask::abend</td>
<td>2</td>
<td>Entry</td>
<td>1 abendCode</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 &amp;opt1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3 &amp;opt2</td>
</tr>
<tr>
<td>3008</td>
<td>IccTask::abend</td>
<td>2</td>
<td>Exit</td>
<td>1 abendCode</td>
</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td>2 &amp;opt1</td>
</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td>3 &amp;opt2</td>
</tr>
<tr>
<td>3009</td>
<td>IccAbendData::abendCode</td>
<td>2</td>
<td>Entry</td>
<td>1 &amp;opt</td>
</tr>
<tr>
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<td>Exit</td>
<td>1 ivpI-&gt;ivabcode</td>
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<tr>
<td>300A</td>
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<td>Exit</td>
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<td>Entry</td>
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<td>Type</td>
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<td>IccClock::absTime</td>
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<td>Exit</td>
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<td>Exit</td>
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<td>Exit</td>
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<td>Exit</td>
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<td>IccBuf::assign</td>
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<td>Exit</td>
<td>1 this-&gt;traceData()</td>
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<td>IccBuf::assign</td>
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<td>1 this-&gt;traceData()</td>
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<td>Entry</td>
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<td>Exit</td>
<td>1 &amp;dataArea</td>
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<td>IccSystem::beginBrowse</td>
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<td>2</td>
<td>Exit</td>
<td>1 &amp;resld</td>
</tr>
<tr>
<td>3019</td>
<td>IccSystem::beginBrowse</td>
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<td>Exit</td>
<td>1 &amp;resld</td>
</tr>
<tr>
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<td>Class_Method</td>
<td>Lvl</td>
<td>Type</td>
<td>Data</td>
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<td>-----</td>
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<td>-------------------------------------------</td>
</tr>
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<td>301A</td>
<td>IccFile::beginInsert</td>
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<td>Entry</td>
<td></td>
</tr>
<tr>
<td>301A</td>
<td>IccFile::beginInsert</td>
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<td>Exit</td>
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<td>301C</td>
<td>IccFileIteratorI::browseRecord</td>
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<td>Entry</td>
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</tr>
<tr>
<td>301C</td>
<td>IccFileIteratorI::browseRecord</td>
<td>2</td>
<td>Exit</td>
<td></td>
</tr>
<tr>
<td>301D</td>
<td>IccBaseI::buildFmtString</td>
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<td>Entry</td>
<td>1  fmt &amp;args</td>
</tr>
<tr>
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<td>IccBaseI::buildFmtString</td>
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<td>Exit</td>
<td>1  ivpFmtIntBuf-&gt;traceData()</td>
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<td>IccSessionI::buildSendCmd</td>
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<tr>
<td>301E</td>
<td>IccSessionI::buildSendCmd</td>
<td>2</td>
<td>Exit</td>
<td></td>
</tr>
<tr>
<td>301F</td>
<td>IccControl::callingProgramId</td>
<td>2</td>
<td>Entry</td>
<td></td>
</tr>
<tr>
<td>301F</td>
<td>IccControl::callingProgramId</td>
<td>2</td>
<td>Exit</td>
<td>1  ivpI-&gt;ivpInvokingProgId.traceData()</td>
</tr>
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Table 71. C++ foundation classes (continued)
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Table 71. C++ foundation classes (continued)

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Table 71. C++ foundation classes  (continued)

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Table 71. C++ foundation classes (continued)

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Table 71. C++ foundation classes (continued)

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Table 71. C++ foundation classes (continued)

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### Table 71. C++ foundation classes (continued)

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Table 71. C++ foundation classes (continued)

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### Table 71. C++ foundation classes (continued)

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Table 71. C++ foundation classes (continued)

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2 id.traceData() |
| 327D | IccResourceId::IccResourceId_D | 2 | Entry | |
| 327D | IccResourceId::IccResourceId_D | 2 | Exit | |
| 327E | IccConvId::IccConvId_C | 2 | Entry | 1 convName |
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| 327F | IccConvId::IccConvId_C | 2 | Entry | 1 convId.traceData() |
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| 3280 | IccTaskI::IccTaskI_C | 2 | Entry | 1 &baseObjI |
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| 3281 | IccTaskI::IccTaskI_D | 2 | Entry | |
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| 3282 | IccDataQueueId::IccDataQueueId_C | 2 | Entry | 1 queueName |
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| 3283 | IccDataQueueId::IccDataQueueId_C | 2 | Entry | 1 id.traceData() |
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| 3284 | IccTextI::IccTextI_C | 2 | Entry | 1 textData  
2 &textLength |
| 3284 | IccTextI::IccTextI_C | 2 | Exit | 1 textData  
2 &textLength |
<p>| 3285 | IccTextI::IccTextI_C1 | 2 | Entry | 1 text.traceData() |
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| 3286 | IccFileId::IccFileId_C | 2 | Entry | 1 fileName |
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| 3287 | IccFileId::IccFileId_C1 | 2 | Entry | 1 id.traceData() |
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| 3288 | IccTerminalDataI::IccTerminalDataI_C | 2 | Entry | |
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| 328A | IccGroupId::IccGroupId_C | 2 | Entry | 1 groupName |
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| 328B | IccGroupId::IccGroupId_C1 | 2 | Entry | 1 id.traceData() |
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| 328C | IccGroupId::operatorAs7 | 2 | Entry | 1 this-&gt;traceData() |
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| 328D | IccGroupId::operatorAs8 | 2 | Exit | 1 this |
| 328E | IccJournalId::IccJournalId_C | 2 | Entry | 1 &amp;journalNum |
| 328E | IccJournalId::IccJournalId_C | 2 | Exit | 1 &amp;journalNum |
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Table 71. C++ foundation classes (continued)

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Table 71. C++ foundation classes (continued)

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### Table 71. C++ foundation classes (continued)

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|           |               |     |      | 3 &type      
|           |               |     |      | 4 &owner     
|           |               |     |      | 5 &p         |
| 3302      | IccBufI::IccBufI_D | 2   | Entry|      |
| 3304      | IccControl::IccControl_C | 2 | Exit|      |
| 3305      | IccControl::IccControl_D | 2 | Exit|      |
| 3306      | IccControlIG::IccControlIG_C | 2 | Exit|      |
| 3307      | IccEventI::IccEventI_C | 2 | Exit|      |
| 3308      | IccEventI::IccEventI_D | 2 | Exit|      |
| 330A      | IccFileI::IccFileI_C | 2 | Entry| 1 &p  
|           |               |     |      | 2 &p2      |
| 330B      | IccFileI::IccFileI_D | 2 | Exit| 1 &ivpSPData|
| 330C      | IccMessageI::IccMessageI_C | 2 | Exit|      |
| 330D      | IccRecordIndex::IccRecordIndex_C | 2 | Exit|      |
| 330E      | IccRecordIndex::IccRecordIndex_D | 2 | Exit|      |
| 330F      | IccResourceI::IccResourceI_C | 2 | Exit| 1 &p  
|           |               |     |      | 2 &p2      |
| 3310      | IccResourceI::IccResourceI_D | 2 | Exit|      |
| 3311      | IccResourceIdI::IccResourceIdI_C | 2 | Exit| 1 &type  |
| 3312      | IccResourceIdI::IccResourceIdI_D | 2 | Exit|      |
| 3316      | IccSystemI::IccSystemI_C | 2 | Exit|      |
| 3317      | IccException::number | 2 | Entry|      |
| 3317      | IccException::number | 2 | Exit| 1 &ivpI->ivNumber |
### Table 71. C++ foundation classes (continued)

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### Table 72. CICS Connector for CICS TS

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| 3329     | com_ibm_ctg_server_ServerECIRequest::CcicsList | 0   | Exc   | cics_rc  
|          |              |     |       | jabytList  
|          |              |     |       | jaintECICall  
|          |              |     |       | “DFHCZ0152” |
| 332A     | com_ibm_ctg_server_ServerECIRequest::CcicsList | 0   | Exc   | cics_rc  
|          |              |     |       | jabytList  
|          |              |     |       | jaintECICall  
|          |              |     |       | “DFHCZ0153” |
| 332B     | com_ibm_ctg_server_ServerECIRequest::CcicsECI | 1   | Entry | cics_rc  
|          |              |     |       | jabytList  
|          |              |     |       | jaintECICall  
|          |              |     |       | “DFHCZ0153” |
| 332C     | com_ibm_ctg_server_ServerECIRequest::CcicsECI | 0   | Exit  | cics_rc  
|          |              |     |       | commarea_length  
|          |              |     |       | lwa.CommareaLength  
|          |              |     |       | lwa  
|          |              |     |       | “DFHCZ0154” |
| 332D     | com_ibm_ctg_server_ServerECIRequest::CcicsECI | 0   | Exit  | cics_rc  
|          |              |     |       | call_type  
|          |              |     |       | lwa  
|          |              |     |       | “DFHCZ0155” |
| 332E     | com_ibm_ctg_server_ServerECIRequest::JCECL_EXEC_CICS_ASSIGN_USERID | 2   | Entry | cics_rc  
|          |              |     |       | lwa.Resp  
|          |              |     |       | lwa.Resp2  
|          |              |     |       | lwa  
|          |              |     |       | “DFHCZ0156” |
| 332F     | com_ibm_ctg_server_ServerECIRequest::JCECL_EXEC_CICS_VERIFY_PASSWORD | 2   | Exit  | cics_rc  
|          |              |     |       | lwa.Resp  
|          |              |     |       | lwa.Resp2  
|          |              |     |       | lwa  
|          |              |     |       | “DFHCZ0158” |
| 3330     | com_ibm_ctg_server_ServerECIRequest::JCECL_Check_User_Security | 2   | Entry | cics_rc  
|          |              |     |       | lwa.Resp  
|          |              |     |       | lwa.Resp2  
|          |              |     |       | lwa  
|          |              |     |       | “DFHCZ0158” |
### Table 72. CICS Connector for CICS TS (continued)

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<th>Lvl</th>
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<th>Data</th>
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| 3330      | com_ibm_ctg_server_ServerECIRequest::JCECL_Check_User_Security | 0   | Exc  | 1 lwa.UserI  
2 lwa.UserI2  
3 lwa  
4 "DFHCZ0157" |
| 3331      | com_ibm_ctg_server_ServerECIRequest::JCECL_EXEC_Get_LUW_Token | 2   | Entry | 1 lwa  
2 lwa.LuwToken |
| 3331      | com_ibm_ctg_server_ServerECIRequest::JCECL_EXEC_Get_LUW_Token | 2   | Exit  | 1 lwa.LuwToken  
2 lwa |
| 3331      | com_ibm_ctg_server_ServerECIRequest::JCECL_EXEC_Get_LUW_Token | 0   | Exc  | 1 cics_rc  
2 lwa.Resp  
3 lwa.Resp2  
4 lwa  
5 "DFHCZ0158" |
| 3332      | com_ibm_ctg_server_ServerECIRequest::JCECL_EXEC_CICS_LINK | 1   | Entry |  |
| 3332      | com_ibm_ctg_server_ServerECIRequest::JCECL_EXEC_CICS_LINK | 1   | Exit  | 1 lwa  
2 lwa |
| 3332      | com_ibm_ctg_server_ServerECIRequest::JCECL_EXEC_CICS_LINK | 0   | Exc  | 1 cics_rc  
2 lwa.Resp  
3 lwa.Resp2  
4 lwa  
5 Message ID |
| 3332      | com_ibm_ctg_server_ServerECIRequest::JCECL_EXEC_CICS_LINK | 1   | Inf  | 1 lwa.Prog  
2 lwa.Sysid  
3 lwa.SyncOnRetrn  
4 lwa.Transid  
5 lwa  
6 Commarea addr  
7 CommareaLength  
8 Commarea data  
9 DataLength|
| 3333      | com_ibm_ctg_server_ServerECIRequest::JCECL_EXEC_CICS_LINK | 1   | Inf  | 1 lwa.Commarea addr  
2 lwa.CommareaLength  
3 Commarea data  
4 DataLength  
5 lwa |
| 3333      | com_ibm_ctg_server_ServerECIRequest::JCECL_EXEC_CICS_LINK | 0   | Exc  | 1 lwa.Prog  
2 lwa.Sysid  
3 lwa.SyncOnReturn  
4 lwa.Transid  
5 lwa  
6 Commarea addr  
7 CommareaLength  
8 Commarea data  
9 DataLength  
10 lwa |
| 3334      | com_ibm_ctg_server_ServerECIRequest::JCECL_EXEC_CICS_LINK | 0   | Exc  | 1 lwa.Commarea addr  
2 lwa.CommareaLength  
3 Commarea data  
4 DataLength  
5 lwa  
6 Commarea addr  
7 CommareaLength  
8 Commarea data  
9 DataLength  
10 lwa |
| 3335      | com_ibm_ctg_server_ServerECIRequest::JCECL_CheckAndCopy_IP_Parameter | 2   | Entry | 1 jStr  
2 len |
| 3335      | com_ibm_ctg_server_ServerECIRequest::JCECL_CheckAndCopy_IP_Parameter | 1   | Exit  | 1 cStr |
| 3335      | com_ibm_ctg_server_ServerECIRequest::JCECL_CheckAndCopy_IP_Parameter | 0   | Exc  | 1 rc1, rc2, len  
2 jStr  
3 tStr |
| 3336      | com_ibm_ctg_server_ServerECIRequest::JCECL_CheckAndCopy_IP_Parameter | 0   | Exc  | 1 rc1, rc2, len  
2 jStr  
3 tStr |
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<td>3338</td>
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### Table 72. CICS Connector for CICS TS (continued)

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| 3352      | com_ibm_ctg_server_ServerECIRequest::JCECL_Call_DFHCNV | 0   | Exc  | 1 ProgName  
|           |              |     |      | 2 cics_rc  
|           |              |     |      | 3 Resp    
|           |              |     |      | 4 Resp2   
|           |              |     |      | 5 “DFHCZ0158” |
| 3353      | com_ibm_ctg_server_ServerECIRequest::JCECL_Call_DFHCNV | 0   | Exc  | 1 ccnv_Params 
|           |              |     |      | 2 lwa      |
| 3357      | com_ibm_ctg_server_ServerECIRequest::JCECL_global_transaction_managed | 0   | Exc  | 1 rmuw_response 
|           |              |     |      | 2 rmuw_reason |
|           |              |     |      | 3 cics_rc 
|           |              |     |      | 4 excMsg   
|           |              |     |      | 5 “DFHCZ0158” |

### Table 73. Java native method entries

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Table 73. Java native method entries (continued)

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Table 74. Direct CICS classes

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| 31F2      | CDRInputStream_read_Object          | Exc | Exception | 3  ex.toString()  
| 31F2      | CDRInputStream_read_Object          | Exc | Exception | 4  ex.getMessage()  
| 31F2      | CDRInputStream_read_Object          | Exc | Exception | 5  ex.printStackTrace()  
| 31F5      | CICSCommareaMapping_checkBytes      | Exc | Error   | 3  commarea       
| 31F5      | CICSCommareaMapping_checkBytes      | Exc | Error   | 4  commarea length, length of prefix  
| 31F6      | CICSCommareaMapping_setBytes        | Exc | Exception | 3  ex.toString()  
| 31F6      | CICSCommareaMapping_setBytes        | Exc | Exception | 4  ex.getMessage()  
| 31F6      | CICSCommareaMapping_setBytes        | Exc | Exception | 5  ex.printStackTrace()  
| 31F6      | CICSCommareaMapping_setBytes        | Exc | Exception | 6  codepage       
| 31F8      | CICSCommareaMapping_setIIOPDataFromTSQ | 1   | Entry   | 3  tsqName       
| 31F8      | CICSCommareaMapping_setIIOPDataFromTSQ | 1   | Exit    |                                           |
| 31F8      | CICSCommareaMapping_setIIOPDataFromTSQ | Exc | Exception | 3  ex.toString()  
| 31F8      | CICSCommareaMapping_setIIOPDataFromTSQ | Exc | Exception | 4  ex.getMessage()  
| 31F8      | CICSCommareaMapping_setIIOPDataFromTSQ | Exc | Exception | 5  ex.printStackTrace()  
| 31F8      | CICSCommareaMapping_setIIOPDataFromTSQ | Exc | Exception | 6  bytes read  
| 31F8      | CICSCommareaMapping_setIIOPDataFromTSQ | Exc | Exception | 7  bytes expected  
| 31F8      | CICSCommareaMapping_setIIOPDataFromTSQ | Exc | Error   | 3  num items read  
| 31F8      | CICSCommareaMapping_setIIOPDataFromTSQ | Exc | Error   | 4  num items expected  

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### Table 74. Direct CICS classes (continued)

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<td>ex.getMessage()</td>
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<td>ex.printStackTrace()</td>
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<td>3</td>
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<td>classname</td>
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<td>2  Info</td>
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<td>classname</td>
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<td>2  Info0</td>
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<td>Exception</td>
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Table 75. GenericFactory entries by method identifier

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<td>classname</td>
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<td>1  Exit</td>
<td>3</td>
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<td>_GenericFactoryImpl_create_object</td>
<td>Exc</td>
<td>Exception</td>
<td>ex.toString()</td>
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<td></td>
<td></td>
<td></td>
<td>ex.getMessage()</td>
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<td>ex.printStackTrace()</td>
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<td>_GenericFactoryImpl_create_object</td>
<td>Exc</td>
<td>Exception0</td>
<td>ex.toString()</td>
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<td></td>
<td>ex.getMessage()</td>
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<td></td>
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<td></td>
<td>ex.printStackTrace()</td>
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<td></td>
<td>java classname</td>
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### Table 76. JCICS java entries by method identifier

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<th>Type</th>
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<td>Entry 3</td>
<td>args[0]</td>
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<td>1</td>
<td>Exit  3</td>
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<td>Wrapper_callUserClass</td>
<td>2</td>
<td>Info  3</td>
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<td>Wrapper_callUserClass</td>
<td>2</td>
<td>Info0 3-7</td>
<td>args[0]-args[4]</td>
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<td>Exception 3</td>
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<td>Exception0 3</td>
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<td>ex.getMessage()</td>
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<td>Wrapper_JDBC_post_reset</td>
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### RM for enterprise beans Java trace points

### Table 77. Trace points in the Java components of the resource manager for enterprise beans

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<th>Class_Method</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
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<tr>
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<td>com.ibm.cics.addeploy.dfhadjr.DFHADJR</td>
<td>0</td>
<td>Exc   1</td>
<td>description</td>
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<td></td>
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<td>Exc   1</td>
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<td>description</td>
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<td>Exc   1</td>
<td>description</td>
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<td>beanname</td>
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<td>Exc   1</td>
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<td></td>
<td></td>
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<td>ejbJar</td>
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<td>description</td>
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Table 77. Trace points in the Java components of the resource manager for enterprise beans (continued)

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### File control trace points

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<td>DFHFCQS</td>
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<td>Recovery</td>
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<td>Exit from FCDR's wait exit</td>
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<td>XDTRD returned invalid record length</td>
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<td>4 R0 reason code</td>
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Table 78. File control trace points (continued)

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<td>Before MaxReqs wait</td>
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<td>After MaxReqs wait</td>
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**Note:** For more file control trace entries, see "File control trace points" on page 33 and "File control trace points" on page 51.

**RMI trace entries**

Table 79. RMI trace entries

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### Table 79. RMI trace entries (continued)

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<td>RMDM inq startup failed</td>
<td>1 RMDM parameter list</td>
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<tr>
<td>AP 2545</td>
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<td>Exc</td>
<td>RMLN unexpected reason</td>
<td>1 RMLN parameter list</td>
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<tr>
<td>AP 2546</td>
<td>DFHRMSY</td>
<td>Exc</td>
<td>RMLN init recovery failed</td>
<td>1 RMLN parameter list</td>
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<tr>
<td>AP 2547</td>
<td>DFHRMSY</td>
<td>Exc</td>
<td>RMLN term recovery failed</td>
<td>1 RMLN parameter list</td>
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<tr>
<td>AP 2548</td>
<td>DFHRMSY</td>
<td>RI 2</td>
<td>RMSY event - about to call TRUE</td>
<td>1 TRUE’s entryname</td>
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<td>AP 2549</td>
<td>DFHRMSY</td>
<td>RI 2</td>
<td>RMSY event - return from TRUE</td>
<td>1 TRUE’s entryname</td>
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<td>AP 2560</td>
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<td>Entry</td>
<td>1 EIEI parameter list</td>
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<tr>
<td>AP 2561</td>
<td>DFHERMRS</td>
<td>RI 1</td>
<td>Exit</td>
<td>1 EIEI parameter list</td>
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<td>Exc</td>
<td>Invalid EIP function</td>
<td>1 EID</td>
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<td>AP 2563</td>
<td>DFHERMRS</td>
<td>Exc</td>
<td>Invalid EIEI function</td>
<td>1 EIEI parameter list</td>
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<td>RMLN start link failed</td>
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<td>Exc</td>
<td>RMLN getnext link failed</td>
<td>1 RMLN parameter list</td>
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<td>Exc</td>
<td>RMLN end link browse failed</td>
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<td>AP 2567</td>
<td>DFHERMRS</td>
<td>Exc</td>
<td>Recovery</td>
<td>1 EIEI parameter list</td>
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<tr>
<td>AP 2568</td>
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<td>Exc</td>
<td>RMUW Inq unit of work failed</td>
<td>2 Kernel error data</td>
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<td>Exc</td>
<td>RMLN Unexpected reason</td>
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<td>Exc</td>
<td>RMLN init recovery failed</td>
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<tr>
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<td>RMLN set mark failed</td>
<td>1 RMLN parameter list</td>
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<tr>
<td>AP 2573</td>
<td>DFHERMRS</td>
<td>Exc</td>
<td>XMAT attach failed</td>
<td>1 XMAT parameter list</td>
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### DFHCRRSY trace entries

#### Table 80. DFHCRRSY trace entries

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
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<tbody>
<tr>
<td>AP 2600</td>
<td>DFHCRRSY</td>
<td>RM 1</td>
<td>Entry</td>
<td>1 DFHCRRSY parameter list</td>
</tr>
<tr>
<td>AP 2601</td>
<td>DFHCRRSY</td>
<td>RM 1</td>
<td>Entry inbound</td>
<td>1 Inbound data</td>
</tr>
<tr>
<td>AP 2602</td>
<td>DFHCRRSY</td>
<td>Exc</td>
<td>Invalid device</td>
<td>1 TCTTE, first 8 bytes</td>
</tr>
<tr>
<td>AP 2603</td>
<td>DFHCRRSY</td>
<td>Exc</td>
<td>Invalid start code</td>
<td>2 TCSEFLGS</td>
</tr>
<tr>
<td>AP 2604</td>
<td>DFHCRRSY</td>
<td>Exc</td>
<td>Not basic conv</td>
<td>1 Start code</td>
</tr>
<tr>
<td>AP 2605</td>
<td>DFHCRRSY</td>
<td>Exc</td>
<td>XLN req parse failure</td>
<td>1 Conversation data type</td>
</tr>
<tr>
<td>AP 2606</td>
<td>DFHCRRSY</td>
<td>Exc</td>
<td>XLN reply parse failure</td>
<td>2 Conversation data type</td>
</tr>
<tr>
<td>AP 2607</td>
<td>DFHCRRSY</td>
<td>RM 1</td>
<td>XLN neg</td>
<td>1 Results so far of XLN</td>
</tr>
<tr>
<td>AP 2608</td>
<td>DFHCRRSY</td>
<td>RM 1</td>
<td>XLN result</td>
<td>2 Log exchange type data</td>
</tr>
<tr>
<td>AP 2609</td>
<td>DFHCRRSY</td>
<td>Exc</td>
<td>CS req parse failure</td>
<td>1 Log exchange type data</td>
</tr>
<tr>
<td>AP 260A</td>
<td>DFHCRRSY</td>
<td>Exc</td>
<td>CS reply parse failure</td>
<td>2 Received data</td>
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<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
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</table>
| AP 260B | DFHCRRSY     | RM 1| Action for link | 1 Local link data type  
2 Action code |
|         |              |     |               | 1 LUC call plist of failing LUC command |
|         |              |     |               | 2 Session ID |
| AP 260C | DFHCRRSY     | Exc | LUC call error | 1 Conversation data type |
|         |              |     |               | 1 Conversion data type |
| AP 260D | DFHCRRSY     | Exc | MRO call error | 1 DFHCRRSY plist, or null |
|         |              |     |               | 2 Conversation data type, or null |
| AP 260E | DFHCRRSY     | Exc | Conv error    | 1 DFHCRRSY plist, or null |
|         |              |     |               | 2 Conversation data type, or null |
| AP 260F | DFHCRRSY     | Exc | Handle abend  | 1 DFHCRRSY plist, or null |
|         |              |     |               | 2 Conversation data type, or null |
|         |              |     |               | 3 Local link data type, or null |
|         |              |     |               | 4 Recovery type data type |
|         |              |     |               | 5 Number of program restarts |
| AP 2610 | DFHCRRSY     | Exc | Connection not found | 1 Netname of partner system |
|         |              |     |               | 2 Conversation data type |
| AP 2611 | DFHCRRSY     | RM 1| Loc link data | 1 Local link data type |
|         |              |     |               | 2 Conversation data type |
| AP 2612 | DFHCRRSY     | RM 1| XLN data      | 1 Log exchange type data type |
|         |              |     |               | 1 Conversation data type |
| AP 2613 | DFHCRRSY     | RM 1| Conv data     | 1 Log exchange type data type |
|         |              |     |               | 1 Conversation data type |
| AP 2614 | DFHCRRSY     | RM 2| XLN data debug | 1 Local link data type |
|         |              |     |               | 2 Received data |
| AP 2615 | DFHCRRSY     | RM 2| Loc link data debug | 1 Local link data type |
|         |              |     |               | 2 Received data |
| AP 2616 | DFHCRRSY     | RM 2| Link in data debug | 1 Local link data type |
|         |              |     |               | 2 Received data |
| AP 2617 | DFHCRRSY     | RM 2| Conv data debug | 1 Local link data type |
|         |              |     |               | 2 Received data |
| AP 2618 | DFHCRRSY     | RM 2| Conv data debug MRO | 1 Local link data type |
|         |              |     |               | 2 Received data |
| AP 2619 | DFHCRRSY     | RM 1| Compare states action | 1 Local link data type |
|         |              |     |               | 2 Link in data type |
|         |              |     |               | 3 Resync case flags type data type |
| AP 2620 | DFHCRRSY     | RM 2| Conn data debug | 1 Local link data type |
|         |              |     |               | 2 Received data |
|         |              |     |               | 3 Trace point origin description |
| AP 2621 | DFHCRRSY     | Exc | Sess fail     | 1 Local link data type |
|         |              |     |               | 2 Conversation data type |
| AP 2622 | DFHCRRSY     | Exc | Conn fail     | 1 Conversation data type |
|         |              |     |               | 2 Conversation data type |
| AP 2623 | DFHCRRSY     | RM 1| Unbind session | 1 Conversation data type |
|         |              |     |               | 2 Conversation data type |
| AP 2624 | DFHCRRSY     | RM 1| Scan for links | 1 Conversation data type |
|         |              |     |               | 2 Action request type |
| AP 2625 | DFHCRRSY     | Exc | Handle error  | 1 Existence bits describing existence of following 3 fields: |
|         |              |     |               | 2 Local link data type |
|         |              |     |               | 3 Conversation data type |
|         |              |     |               | 4 Batch list type data type |
|         |              |     |               | 5 Recovery type data type |
| AP 2626 | DFHCRRSY     | RM 1| List overflow | 1 Connection type data type |

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### Table 80. DFHCRRSY trace entries (continued)

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
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<th>Data</th>
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<tr>
<td>AP 2627</td>
<td>DFHCRRSY</td>
<td>Exc</td>
<td>XLN neg reject</td>
<td>1 Exchange lognames negotiation result</td>
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<tr>
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<td>2 Log exchange type locally derived data</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3 Log exchange type received data</td>
</tr>
<tr>
<td>AP 2628</td>
<td>DFHCRRSY</td>
<td>Exc</td>
<td>XLN result</td>
<td>1 Log exchange type resulting from negotiation</td>
</tr>
<tr>
<td>AP 262A</td>
<td>DFHCRRSY</td>
<td>RM 1</td>
<td>Shunt reply received</td>
<td>1 Local link data type</td>
</tr>
<tr>
<td>AP 262B</td>
<td>DFHCRRSY</td>
<td>RM 1</td>
<td>Partner SPM not active</td>
<td>1 Conversation data type</td>
</tr>
<tr>
<td>AP 262C</td>
<td>DFHCRRSY</td>
<td>RM 2</td>
<td>STG list</td>
<td>1 Recovery type data type</td>
</tr>
<tr>
<td>AP 262D</td>
<td>DFHCRRSY</td>
<td>RM 1</td>
<td>CRERP enter</td>
<td>1 None</td>
</tr>
<tr>
<td>AP 262E</td>
<td>DFHCRRSY</td>
<td>RM 1</td>
<td>CRERP exit</td>
<td>1 None</td>
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<tr>
<td>AP 262F</td>
<td>DFHCRRSY</td>
<td>RM 1</td>
<td>Event inbound</td>
<td>1 Inbound data</td>
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<td></td>
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<td>2 Conversation data type</td>
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### LU6.1 Resynchronization trace points

### Table 81. LU6.1 Resynchronization

<table>
<thead>
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<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
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<tbody>
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<td>AP 2700</td>
<td>DFHZRSY1</td>
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<td>Entry</td>
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<td>2 TCTE_TRACE_1 fields in TCTTE</td>
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<td>DFHZRSY1</td>
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<td>Exit</td>
<td>1 TCTTE address</td>
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<td></td>
<td>2 TCTE_TRACE_1 fields in TCTTE</td>
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<td>AP 2702</td>
<td>DFHZRSY1</td>
<td>Exc</td>
<td>Invalid first STSN</td>
<td>1 TCTTE address</td>
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<td>2 TCTE_TRACE_1 fields in TCTTE</td>
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<td></td>
<td>3 Local sequence numbers and unit of work disposition</td>
</tr>
<tr>
<td>AP 2703</td>
<td>DFHZRSY1</td>
<td>Exc</td>
<td>Invalid second STSN</td>
<td>1 TCTTE address</td>
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<td>2 TCTE_TRACE_1 fields in TCTTE</td>
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<td>3 Local sequence numbers and unit of work disposition</td>
</tr>
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<td>AP 2704</td>
<td>DFHZRSY2</td>
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<td>Entry</td>
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<td>2 TCTE_TRACE_1 fields in TCTTE</td>
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<td>AP 2706</td>
<td>DFHZRSY3</td>
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<td>Entry</td>
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<td>2 TCTE_TRACE_1 fields in TCTTE</td>
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<td>AP 2707</td>
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<td>DFHZRSY4</td>
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<td>DFHZRSY5</td>
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<td>AP 270C</td>
<td>DFHZRSY5</td>
<td>Exc</td>
<td>Both partners cold</td>
<td>1 TCTTE address</td>
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<td>2 TCTE_TRACE_1 fields in TCTTE</td>
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<td>3 Local sequence numbers and unit of work disposition</td>
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<td>4 Partner's sequence numbers</td>
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### Table 81. LU6.1 Resynchronization (continued)

<table>
<thead>
<tr>
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<th>Lvl</th>
<th>Type</th>
<th>Data</th>
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<tr>
<td>AP 270D</td>
<td>DFHZRSY5</td>
<td>Exc</td>
<td>PLU's numbers rejected</td>
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<td>AP 270E</td>
<td>DFHZRSY5</td>
<td>Exc</td>
<td>Invalid response to STSN</td>
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<td>DFHZRSY5</td>
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<td>Invalid response to cold</td>
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<td>DFHZRSY6</td>
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<td>Invalid response to STSN</td>
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</table>

### Bridge facility management trace points: Part 2

### Table 82. Bridge facility management trace points

<table>
<thead>
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<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 2800</td>
<td>DFHBAT</td>
<td>BR 1</td>
<td>Entry</td>
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<tr>
<td>AP 2801</td>
<td>DFHBAT</td>
<td>BR 1</td>
<td>Exit</td>
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</tr>
<tr>
<td>AP 2802</td>
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<td>Exc</td>
<td>Invalid format</td>
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<tr>
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<td>DFHBAT</td>
<td>Exc</td>
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<td>Exc</td>
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<td>DFHBAT</td>
<td>Exc</td>
<td>XMXD sno</td>
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<td>XSRC sno</td>
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<td>Call user exit</td>
<td>1  BRXA transaction area</td>
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<td>2  BRXA command area</td>
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<td>2  BRXA command area</td>
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<td>3  To or From storage area (if applicable)</td>
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<td>1  Signed-on userid</td>
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<td>2  Current userid</td>
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<td>Entry</td>
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<td>Exit</td>
<td>1  BRTB parameter list</td>
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<td>1  BRTB parameter list</td>
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<td>2  Kernel error data</td>
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<td>AP 2885</td>
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<td>Process order</td>
<td>1  Order</td>
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<td>2  Data</td>
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<td>Process char</td>
<td>1  Data</td>
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<td>DFHBRTB</td>
<td>Exc</td>
<td>Add attribute</td>
<td>1  Attribute</td>
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<td>Exc</td>
<td>Replace attribute</td>
<td>1  Attribute</td>
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<td>Exc</td>
<td>Delete attribute</td>
<td>1  Attribute</td>
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<td>DFHBRTAQ</td>
<td>Exc</td>
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<td>Recovery entered</td>
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<td>Entry</td>
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<td>BR 1</td>
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<td>Recovery</td>
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<td>Exc</td>
<td>Disaster</td>
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<td>2  Parameter list</td>
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<td>Exc</td>
<td>Purged</td>
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### Table 82. Bridge facility management trace points (continued)

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<th>Type</th>
<th>Data</th>
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<td>DFHBRMP</td>
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<td>Corrupt BRIH</td>
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<td>DFHBRMP</td>
<td>Exc</td>
<td>Invalid facilitytoken</td>
<td>1 BRIH</td>
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<td>AP 28C8</td>
<td>DFHBRMP</td>
<td>Exc</td>
<td>No storage</td>
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<td>DFHBRMP</td>
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<td>Txn running</td>
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<td>DFHBRMP</td>
<td>Exc</td>
<td>Txn not running</td>
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<td>Txn disabled</td>
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<td>Exc</td>
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<td>DFHBRMP</td>
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<td>Exc</td>
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<td>DFHBRMR</td>
<td>Exc</td>
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<td>Before routing urm call</td>
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<td>After routing urm call</td>
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<td>Exc</td>
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Connection to quiesce processing trace points

Table 83. Connection to quiesce processing trace points

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<th>Type</th>
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</table>

Server support for CICS Clients trace points

Table 84 shows the trace entries for CICS Clients support.

Note: Turning on level 2 tracing when you are using DBCS code pages with client virtual terminals causes the amount of trace information to increase substantially.

Table 84. CICS Client support trace points

<table>
<thead>
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## Table 84. CICS Client support trace points (continued)

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### CICS-DB2 trace points

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<td>2 DB2 FRB block</td>
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### Table 85. CICS-DB2® trace points (continued)

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<th>Lvl</th>
<th>Type</th>
<th>Data</th>
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<td>4 DFHD2LOT block</td>
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**Notes:**

1. The CSUB trace table contained within the DFHD2CSB block is 160 bytes long, allowing ten 16-byte entries to be stored. It wraps when full. The format of each entry is as follows:

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<tr>
<th>Bytes</th>
<th>Content</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 3</td>
<td>Trace request number</td>
<td>Number of trace entry. Use it to find the last-written entry.</td>
</tr>
<tr>
<td>4 - 7</td>
<td>Trace request</td>
<td>Four-character representation of the DB2 request. Possible values:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ABRT  Abort request</td>
</tr>
<tr>
<td></td>
<td></td>
<td>API    SQL or IFI request</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ASSO   Associate request</td>
</tr>
<tr>
<td></td>
<td></td>
<td>COMM   Commit request</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CTHD   Create thread request</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DISS   Dissociate request</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ERRH   Error handler request</td>
</tr>
<tr>
<td></td>
<td></td>
<td>IDEN   Identify request</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PREP   Prepare request</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PSGN   Partial signon request</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SIGN    Full signon request</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SYNC    Single phase request</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TERM    Terminate thread request</td>
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<td></td>
<td></td>
<td>TIDN    Terminate identify request</td>
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<tr>
<td></td>
<td></td>
<td>TSGN    Terminate signon request</td>
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<tr>
<td></td>
<td></td>
<td>*REC    Recovery routine entered</td>
</tr>
</tbody>
</table>
2. If the subtask abounds, the CSUB contains the following additional SDWA diagnostic information before the CSUB trace block:
   • REGS — registers 0–15
   • PSW — program status word at the time of the error
   • Name of the abending program
   • Address of the abending program.

### Web trace points

#### Table 86. Web trace points

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<th>Point ID</th>
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<td>DFHWBIP</td>
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<td>Entry</td>
<td>1  WBIP parameters</td>
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<td>AP 4001</td>
<td>DFHWBIP</td>
<td>WB 1</td>
<td>Exit</td>
<td>1  WBIP parameters</td>
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<td>AP 4002</td>
<td>DFHWBIP</td>
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<td>Recovery</td>
<td>1  WBIP parameters</td>
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<td>2  Kernel error data</td>
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<td>DFHWBCLI</td>
<td>WB 1</td>
<td>Entry</td>
<td>1  WBCLI parameter list</td>
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<td>DFHWBCLI</td>
<td>WB 1</td>
<td>Exit</td>
<td>1  WBCLI parameter list</td>
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<td>AP 4100</td>
<td>DFHWBLT</td>
<td>WB 1</td>
<td>Entry</td>
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<td>DFHWBLT</td>
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<td>Invalid bxa function</td>
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<td>DFHWBLT</td>
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<td>Invalid function code</td>
<td>1  DFHBRARC</td>
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| AP 4363  | DFHWBC09 | Exc | READ error                        | DFHEIB
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Table 86. Web trace points (continued)

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### Conversion trace points

#### Table 87. Conversion trace points

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Table 86. Web trace points

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Table 86. Web trace points
## Bridge facility management trace points: Part 3

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Table 88. Bridge facility management trace points (continued)

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**Note:** For more bridge management facility trace entries, see ["Bridge facility management trace points: Part 1" on page 101](#) and ["Bridge facility management trace points: Part 2" on page 181](#).

### Transaction dump service trace points

Table 89. Transaction dump service trace points

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### User exit routines

Table 90. User exit routines

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<td>Before exit call</td>
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<td>After exit call</td>
<td>2 Exit program name</td>
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<td>DFHSUEX</td>
<td>UE 1</td>
<td>Before exit call</td>
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<td>Exc</td>
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<td>2 DFHSUEX parameter list</td>
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Note: For more bridge management facility trace entries, see ["Bridge facility management trace points: Part 1" on page 101](#) and ["Bridge facility management trace points: Part 2" on page 181](#).
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Table 90. User exit routines (continued)

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<td>DFHERM</td>
<td>EI 1</td>
<td>Handle abend exit modified address</td>
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<td>2 Program name</td>
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<td>AP D530</td>
<td>DFHUEIQ</td>
<td>UE 1</td>
<td>Before inquire exit program</td>
<td>1 DFHUEIQ parameter list</td>
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<td>AP D531</td>
<td>DFHUEIQ</td>
<td>UE 1</td>
<td>After inquire exit program</td>
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<td>Exc</td>
<td>Recovery</td>
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Cancel start requests trace points

The trace entries in the following table support the function that allows you to cancel AID control blocks on the AID chain.

Table 91. Cancel AID trace entries

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<tr>
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<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
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<tr>
<td>AP D600</td>
<td>DFHALP</td>
<td>AP 1</td>
<td>Entry</td>
<td>1  DFHALP parameter list</td>
</tr>
<tr>
<td>AP D601</td>
<td>DFHALP</td>
<td>AP 1</td>
<td>Exit</td>
<td>1  DFHALP parameter list</td>
</tr>
<tr>
<td>AP D602</td>
<td>DFHALP</td>
<td>AP 1</td>
<td>Cancel AID entry</td>
<td>1  Address of cancelled AID</td>
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<td>2  AID</td>
</tr>
<tr>
<td>AP D603</td>
<td>DFHALP</td>
<td>AP 1</td>
<td>DFHALP recovery invoked</td>
<td>1 DFHALP parameter list</td>
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<tr>
<td>AP D610</td>
<td>DFHALRC</td>
<td>AP 1</td>
<td>Entry</td>
<td>1 Parameter list (RMRO, RMKP, RMDE, ROIN)</td>
</tr>
<tr>
<td>AP D611</td>
<td>DFHALRC</td>
<td>AP 1</td>
<td>Exit</td>
<td>1 Parameter list (RMRO, RMKP, RMDE, ROIN)</td>
</tr>
<tr>
<td>AP D612</td>
<td>DFHALRC</td>
<td>Exc</td>
<td>Recovery</td>
<td>1 Parameter list</td>
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<td>AP D613</td>
<td>DFHALRC</td>
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<td>Invalid format</td>
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<td>1 Parameter list</td>
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Syncpoint program trace points

Table 92. Syncpoint program

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<th>Data</th>
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<td>DFHSPP</td>
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<td>Entry</td>
<td>1 Syncpoint request byte 1</td>
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<td>2 Backout required program state</td>
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<td>DFHSPP</td>
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<td>Exit</td>
<td>1 Return code</td>
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Function shipping data transformation trace points

Table 93. Function shipping data transformation

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<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
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</thead>
<tbody>
<tr>
<td>AP D900</td>
<td>DFHXFP</td>
<td>IS 1</td>
<td>Entry</td>
<td>Address of PLIST (4 bytes)</td>
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<td>Transformer number (1 byte)</td>
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<td>X'00' transform 1</td>
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<td></td>
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<td>X'02' transform 2</td>
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<td>X'04' transform 3</td>
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<td>X'06' transform 4</td>
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<td></td>
<td>Error code (2 bytes)</td>
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<td>X'0000' on entry</td>
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<td>EXEC group/function code</td>
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<td></td>
<td>(EIBFN) (2 bytes)</td>
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<td>AP D901</td>
<td>DFHXFP</td>
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<td>Exit</td>
<td>1 Address of PLIST (4 bytes)</td>
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<td>Transformer number (1 byte)</td>
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<td>Code type (error code --- 2 bytes)</td>
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<td>X'0800' transform 1 error</td>
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<td>X'0004' transform 2 error</td>
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<td>EXEC group/function code (EIBFN) (2 bytes)</td>
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Table 93. Function shipping data transformation (continued)

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<td>AP D903</td>
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Table 94. AP domain statistics gathering

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Chapter 2. AP domain trace points – ‘new style’  217
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### Transaction routing data transformation trace points

Table 95. Transaction routing data transformation

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<th>Type</th>
<th>Data</th>
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| AP DB00  | DFHXTP | IS 1 | Entry | Address of DFHXTSTG (4 bytes)  
Address of TCTTE (4 bytes)  
Transformer number (1 byte)  
X'00' transform 1  
X'02' transform 2  
X'04' transform 3  
X'06' transform 4  
Status code (1 byte)  
X'10' flush  
X'20' detach  
X'40' attach  
X'80' appl request |
| AP DB01  | DFHXTP | IS 1 | Exit  | Address of DFHXTSTG (4 bytes)  
Address of TCTTE (4 bytes)  
Transformer number (1 byte)  
Status code (1 byte)  
X'00' normal response  
X'08' error response |

### IRC commands trace points

Table 96. IRC commands

<table>
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<th>Data</th>
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| AP DD00  | DFHCRSP | IS 1 | After DFHIR TYPE=LOGON | Logon flags, IRVCLGFL  
2 Applid, IRVCLGIM  
3 Userid, IRVCUSID  
4 Address of SLCB, IRVCLGSL  
5 Return code (see page "IRC command return codes" on page 224)  
6 Reason code  
6 Reason code |
| AP DD01  | DFHCRSP | IS 2 | After DFHIR TYPE=LOGON | Maxusers arg, IRVCLGMU  
(logon connections list - see LCL) |
| AP DD02  | DFHCRSP | IS 1 | After DFHIR TYPE=QUIESCE | Userid, IRVCUSID  
2 Return code (see page "IRC command return codes" on page 224)  
3 Reason code |
| AP DD03  | DFHCRSP | IS 1 | After DFHIR TYPE=LOGOFF | Userid, IRVCUSID  
2 Return code (see page "IRC command return codes" on page 224)  
3 Reason code |
| AP DD04  | DFHCRSP | IS 1 | After DFHIRP level check | Return code (1)  
2 Caller's level ID  
3 DFHIRP's level ID |
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<td>DFHCRNP</td>
<td>IS 2</td>
<td>Inbound RU</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>RU length</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>First 2000 bytes of RU (if RU &gt; 4000 bytes), else all RU</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Final 2000 bytes of RU of RU (if RU &gt; 4000 bytes), else none</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>or</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>'SUPPRESSED DUE TO CONFDATA=HIDETC IN SIT'</td>
<td>2, 3</td>
</tr>
<tr>
<td>AP DD17</td>
<td>DFHCRNP</td>
<td>IS 1</td>
<td>After DFHIR TYPE=CONNECT</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Address of session TCTTE</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Userid, IRVCUSID</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Threadid, IRVCTHID</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Applid of connect-system,</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>IRVCCNTO</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Address of SCCB,</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>IRVCCNSC</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Return code (see page &quot;IRC command return codes&quot; on page 224)</td>
<td>6</td>
</tr>
<tr>
<td>AP DD18</td>
<td>DFHCRNP</td>
<td>IS 1</td>
<td>MRO control task CSNC dequeues a work element from immediate or delay work queue</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Element type concatenated</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>with element subtype</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Time stamp in STCK format</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(8 bytes)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Address of SCCB, or 0 if</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>none (4 bytes)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>applid of associated system,</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>or blanks if none, or</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>'***BATCH' if batch (8 bytes)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Address of session TCTTE,</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>or 0 if none (4 bytes)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Name of session TCTTE, or 0</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>if none (4 bytes)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Address of TIOA if work</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>element type=X'7' or 0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>otherwise (4 bytes)</td>
<td></td>
</tr>
<tr>
<td>Point ID</td>
<td>Module</td>
<td>Lvl</td>
<td>Type</td>
<td>Data</td>
</tr>
<tr>
<td>---------</td>
<td>----------</td>
<td>-----</td>
<td>------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>AP DD19</td>
<td>DFHCRNP</td>
<td>IS 1</td>
<td>CSNC dequeues a redundant work element for work related to a previous use of an MRO session. The work element is that last traced by CSNC</td>
<td></td>
</tr>
<tr>
<td>AP DD20</td>
<td>DFHZIS2</td>
<td>IS 1</td>
<td>After DFHIR TYPE=PULL</td>
<td></td>
</tr>
<tr>
<td>AP DD21</td>
<td>DFHZIS2</td>
<td>IS 1</td>
<td>After DFHIR TYPE=SWITCH</td>
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</tr>
<tr>
<td>AP DD22</td>
<td>DFHZIS2</td>
<td>IS 1</td>
<td>Outbound RH</td>
<td></td>
</tr>
<tr>
<td>AP DD23</td>
<td>DFHZIS2</td>
<td>IS 2</td>
<td>Outbound RU</td>
<td></td>
</tr>
<tr>
<td>AP DD24</td>
<td>DFHZIS2</td>
<td>IS 1</td>
<td>Inbound RH</td>
<td></td>
</tr>
<tr>
<td>AP DD25</td>
<td>DFHZIS2</td>
<td>IS 2</td>
<td>Inbound RU</td>
<td></td>
</tr>
<tr>
<td>AP DD26</td>
<td>DFHZIS2</td>
<td>IS 1</td>
<td>After DFHIR TYPE=DISC</td>
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</table>
### Table 96. IRC commands (continued)

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP DD27</td>
<td>DFHZIS2</td>
<td>IS 1</td>
<td>After DFHIR TYPE=QUIESCE</td>
<td>1 Userid, IRVCUSID</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 Function modifier, immediate or normal quiesce, IRVCSTYP</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3 Applid of system to be quiesced, IRVCCNTO</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4 Return code (see page &quot;IRC command return codes&quot; on page 224)</td>
</tr>
<tr>
<td>AP DD28</td>
<td>DFHZIS2</td>
<td>IS 1</td>
<td>After DFHIR TYPE=LOGOFF</td>
<td>1 Userid, IRVCUSID</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 Return code (see page &quot;IRC command return codes&quot; on page 224)</td>
</tr>
<tr>
<td>AP DD29</td>
<td>DFHZIS2</td>
<td>IS 1</td>
<td>After DFHIR TYPE=INSERV</td>
<td>1 Userid, IRVCUSID</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 Applid of system to be brought into service, IRVCCNTO</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3 Return code (see page &quot;IRC command return codes&quot; on page 224)</td>
</tr>
<tr>
<td>AP DD2A</td>
<td>DFHZIS2</td>
<td>IS 1</td>
<td>After DFHIR TYPE=ADD</td>
<td>1 ADD type (PREPARE, COMMIT, or ROLLBACK)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 Userid, IRVCUSID</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3 Applid</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4 ADD token</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5 Dynamic ADD LCL if PREPARE, otherwise return code (see below)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6 Return code if PREPARE (see below) otherwise reason code</td>
</tr>
<tr>
<td>AP DD32</td>
<td>DFHCRR</td>
<td>AP 2</td>
<td>Process session recovery flow</td>
<td>1 Address of session TCTTE</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 Session identifier</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3 ISC flags (TCTEISC1)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4 CR_SEQ_NOS (backout input, backout output, commit input, and commit output numbers respectively)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5 Number of leg in bind conversation commit output numbers respectively)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6 Current value of partners's logname commit output numbers respectively)</td>
</tr>
<tr>
<td>AP DD33</td>
<td>DFHCRR</td>
<td>Exc</td>
<td>Failure to locate profile DFHCICSA, or to ALLOCATE the session</td>
<td>1 Address of session TCTTE</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 DFHRMNMM parameter list</td>
</tr>
<tr>
<td>AP DD34</td>
<td>DFHCRR</td>
<td>Exc</td>
<td>DFHRMNMM INQUIRE_LOGNAME failure, or logname too long</td>
<td>1 DFHRMNMM parameter list</td>
</tr>
<tr>
<td>AP DD35</td>
<td>DFHCRR</td>
<td>Exc</td>
<td>DFHRMNMM INQUIRE_LOGNAME failure</td>
<td>1 DFHRMNMM parameter list</td>
</tr>
<tr>
<td>AP DD36</td>
<td>DFHCRR</td>
<td>Exc</td>
<td>XLN data missing from input datastream</td>
<td>1 Input TIOA</td>
</tr>
</tbody>
</table>
### IRC command return codes

IRC command return codes are as follows:

- **X'04'**: Invalid function requested
- **X'08'**: User not authorized to use SVC
- **X'0C'**: Environment incorrect or secondary to primary converter
- **X'10'**: Invalid user number
- **X'14'**: Invalid user identification
- **X'18'**: Invalid LCB address (internal error)
- **X'1C'**: Invalid thread number
- **X'20'**: Invalid thread ID
- **X'24'**: Set footprint failed
- **X'34'**: No SCTE in the SVA
- **X'38'**: No free LACBE for logon
- **X'3C'**: Duplicate logon
- **X'40'**: Maximum logons already reached
- **X'48'**: GETMAIN failed LACB storage
- **X'4C'**: GETMAIN failed SUDB storage
- **X'50'**: GETMAIN failed LCB/CCB storage
- **X'54'**: GETMAIN failed SLCB/SCCB storage
- **X'58'**: LCB not on SUDB chain
- **X'5C'**: System not logged on
- **X'60'**: System not connectable
- **X'64'**: GETMAIN failed CSB storage
- **X'68'**: Secondary system not in primary LCB
- **X'6C'**: No secondary CCB; found for primary system
- **X'70'**: Secondary is in-quiesce
- **X'74'**: Primary system not in secondary LCB
- **X'78'**: No primary CCB found for secondary system
- **X'7C'**: Primary is in-quiesce
- **X'80'**: No primary CCB; retry request
- **X'84'**: Link is already disconnected
- **X'88'**: Other side cannot receive data
- **X'8C'**: This side cannot send data
- **X'90'**: Other side cannot be pulled from
- **X'94'**: This side cannot pull data
- **X'98'**: There is no pull pending
- **X'9C'**: No data to be pulled (internal error)

### Table 96. IRC commands (continued)

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP DD37</td>
<td>DFHCRR</td>
<td>Exc</td>
<td>Invalid XLN data in input datastream</td>
<td>Input TIOA</td>
</tr>
<tr>
<td>AP DD38</td>
<td>DFHCRR</td>
<td>Exc</td>
<td>DFHRMLNM INITIATE_RECOVERY failure</td>
<td>DFHRMLNM parameter list</td>
</tr>
<tr>
<td>AP DD39</td>
<td>DFHCRR</td>
<td>Exc</td>
<td>DFHRMLNM SET_RECOVERY failure</td>
<td>DFHRMLNM parameter list</td>
</tr>
<tr>
<td>AP DD3A</td>
<td>DFHCRR</td>
<td>Exc</td>
<td>DFHRMLNM TERMINATE_RECOVERY failure</td>
<td>DFHRMLNM parameter list</td>
</tr>
<tr>
<td>AP DD3B</td>
<td>DFHCRR</td>
<td>Exc</td>
<td>Input datastream responding to second XLN flow is invalid</td>
<td>Input TIOA</td>
</tr>
<tr>
<td>AP DD3C</td>
<td>DFHCRR</td>
<td>Exc</td>
<td>DFHTC WRITE or READ request failure on attempt to perform session I/O</td>
<td>Address of session TCTTE</td>
</tr>
<tr>
<td>AP DD3D</td>
<td>DFHCRR</td>
<td>Exc</td>
<td>DFHRMNMM CLEAR_PENDING failure</td>
<td>DFHRMNMM parameter list</td>
</tr>
<tr>
<td>AP DD3E</td>
<td>DFHCRR</td>
<td>Exc</td>
<td>DFHRMNMM SET_LOGNAME failure</td>
<td>DFHRMNMM parameter list</td>
</tr>
<tr>
<td>AP DD3F</td>
<td>DFHCRR</td>
<td>Exc</td>
<td>Recovery</td>
<td>Original abend code</td>
</tr>
</tbody>
</table>
X'A0'   LCB is in-quiesce
X'A4'   Target system not found in LCB
X'A8'   CSB cannot be found
X'AC'   Link is not connected
X'B0'   Security check failed
X'B4'   Attempt to schedule an SRB/subtask failed
X'B8'   GETMAIN failed for SRB storage
X'BC'   "Special" abend (for example, bad ECB)
X'C0'   Invalid argument or parameter addr
X'C4'   Invalid address in parameter list
X'C8'   Invalid address in data list
X'CC'   Load of DFHACEE failed
X'D0'   GETMAIN failed for transfer buffer
X'D4'   GETMAIN failed for SSVT, SCTE, workarea
X'D8'   Subsystem notification error
X'DC'   Invalid target for data movement
X'E0'   Internal logic error
X'E4'   GETMAIN failed for use count array
X'E8'   Nonzero AX value currently set
X'EC'   GETMAIN failed for logon connections list
X'F0'   Connect SRB ATSET failed
X'F4'   No free entries in AX array or
         No free entries in LX array or
         Cross memory environment error
X'F8'   Total data length invalid for switch or pull
X'FC'   M/C check paging I/O or data error
X'100'  Bad name supplied for interregion work exit
X'104'  Load failed for interregion work exit
X'108'  Interregion work exit has bad format

EXEC interface trace points

Table 97. Exec Interface

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP E110</td>
<td>DFHEISR</td>
<td>AP 2</td>
<td>Entry</td>
<td>EISR parameter list</td>
</tr>
<tr>
<td>AP E111</td>
<td>DFHEISR</td>
<td>AP 2</td>
<td>Exit</td>
<td>EISR parameter list</td>
</tr>
<tr>
<td>AP E112</td>
<td>DFHEISR</td>
<td></td>
<td>Recovery</td>
<td>EISR parameter list</td>
</tr>
<tr>
<td>AP E113</td>
<td>DFHEISR</td>
<td></td>
<td>Storage not within DSA</td>
<td>EISR parameter list</td>
</tr>
<tr>
<td>AP E114</td>
<td>DFHEISR</td>
<td></td>
<td>INQUIRE_ACCESS request failed</td>
<td>EISR parameter list</td>
</tr>
<tr>
<td>AP E115</td>
<td>DFHEISR</td>
<td></td>
<td>Invalid function</td>
<td>EISR parameter list</td>
</tr>
<tr>
<td>AP E116</td>
<td>DFHEISR</td>
<td></td>
<td>GETMAIN request failed</td>
<td>EISR parameter list</td>
</tr>
<tr>
<td>AP E117</td>
<td>DFHEISR</td>
<td></td>
<td>Invalid data length</td>
<td>EISR parameter list</td>
</tr>
<tr>
<td>AP E118</td>
<td>DFHETC</td>
<td></td>
<td>LENGERR</td>
<td>TIOADBA</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>Data at TIOADBA (up to 128 bytes)</td>
</tr>
<tr>
<td>AP E119</td>
<td>DFHEIQVT</td>
<td></td>
<td>Invalid response from ZOPA</td>
<td>ZOPA return code</td>
</tr>
<tr>
<td>AP E11A</td>
<td>DFHEKC</td>
<td></td>
<td>WAIT EVENT bad ECB address</td>
<td>ECB address</td>
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</tbody>
</table>
Table 97. Exec Interface (continued)

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP E11B</td>
<td>DFHEIQSK</td>
<td>Exc</td>
<td>WAIT CICS bad ECB address</td>
<td>1 ECB address</td>
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<td></td>
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<td>2 ECBList address</td>
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<tr>
<td>AP E11C</td>
<td>DFHEIQSK</td>
<td>Exc</td>
<td>WAIT EXTERNAL bad ECB address</td>
<td>1 ECB address</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 ECBList address</td>
</tr>
<tr>
<td>AP E120</td>
<td>DFHSAIQ</td>
<td>AP 1</td>
<td>Entry</td>
<td>1 SAIQ input parameter list</td>
</tr>
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<td>AP E121</td>
<td>DFHSAIQ</td>
<td>AP 1</td>
<td>Exit</td>
<td>1 SAIQ output parameter list</td>
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<td>AP E122</td>
<td>DFHSAIQ</td>
<td>Exc</td>
<td>Recovery</td>
<td>1 SAIQ output parameter list</td>
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<td>2 Kernel error data</td>
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<tr>
<td>AP E130</td>
<td>DFHEISP</td>
<td>AP 2</td>
<td>Entry</td>
<td>1 EIEI parameter list</td>
</tr>
<tr>
<td>AP E131</td>
<td>DFHEISP</td>
<td>AP 2</td>
<td>Exit</td>
<td>1 EIEI parameter list</td>
</tr>
<tr>
<td>AP E133</td>
<td>DFHEISP</td>
<td>Exc</td>
<td>Invalid EIEI function</td>
<td>1 EIEI parameter list</td>
</tr>
<tr>
<td>AP E134</td>
<td>DFHEISP</td>
<td>Exc</td>
<td>Recovery</td>
<td>1 EIEI parameter list</td>
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<tr>
<td>AP E135</td>
<td>DFHINDSP</td>
<td>EI 1</td>
<td>Entry</td>
<td>1 RMLK parameter list</td>
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<tr>
<td>AP E136</td>
<td>DFHINDSP</td>
<td>EI 1</td>
<td>Exit</td>
<td>1 RMLK parameter list</td>
</tr>
<tr>
<td>AP E137</td>
<td>DFHINDSP</td>
<td>Exc</td>
<td>Recovery</td>
<td>1 RMLK parameter list</td>
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<td></td>
<td></td>
<td></td>
<td>2 Kernel error data</td>
</tr>
<tr>
<td>AP E138</td>
<td>DFHINDSP</td>
<td>Exc</td>
<td>Invalid format</td>
<td>1 RMLK parameter list</td>
</tr>
<tr>
<td>AP E13A</td>
<td>DFHINTRU</td>
<td>Exc</td>
<td>RMLN add link failed</td>
<td>1 RMLN parameter list</td>
</tr>
<tr>
<td>AP E13B</td>
<td>DFHINDT</td>
<td>Exc</td>
<td>RMLN start link browse failed</td>
<td>1 RMLN parameter list</td>
</tr>
<tr>
<td>AP E13C</td>
<td>DFHINDT</td>
<td>Exc</td>
<td>RMLN getnext link failed</td>
<td>1 RMLN parameter list</td>
</tr>
<tr>
<td>AP E13D</td>
<td>DFHINDT</td>
<td>Exc</td>
<td>RMLN end link browse failed</td>
<td>1 RMLN parameter list</td>
</tr>
<tr>
<td>AP E13E</td>
<td>DFHINDT</td>
<td>Exc</td>
<td>RMLN inq unit of work failed</td>
<td>1 RMUW parameter list</td>
</tr>
<tr>
<td>AP E13F</td>
<td>DFHINDT</td>
<td>Exc</td>
<td>RMLN Unexpected reason</td>
<td>1 RMLN parameter list</td>
</tr>
<tr>
<td>AP E140</td>
<td>DFHINDT</td>
<td>Exc</td>
<td>RMLN init recovery failed</td>
<td>1 RMLN parameter list</td>
</tr>
<tr>
<td>AP E141</td>
<td>DFHINDT</td>
<td>Exc</td>
<td>RMLN set recovery status failed</td>
<td>1 RMLN parameter list</td>
</tr>
<tr>
<td>AP E142</td>
<td>DFHINDT</td>
<td>Exc</td>
<td>RMLN term recovery failed</td>
<td>1 RMLN parameter list</td>
</tr>
<tr>
<td>AP E150</td>
<td>DFHEIP</td>
<td>AP 2</td>
<td>Entry GETMAIN/FREEMAIN subroutines</td>
<td>1 Request</td>
</tr>
<tr>
<td>AP E151</td>
<td>DFHEIP</td>
<td>AP 2</td>
<td>Exit GETMAIN/FREEMAIN subroutines</td>
<td>1 Request</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 Application parameter list</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3 Application reg 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4 EIB</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5 RSA address</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6 RSA data</td>
</tr>
<tr>
<td>AP E161</td>
<td>DFHEISR</td>
<td>AP 2</td>
<td>Exit</td>
<td>1 Command parameters (see Note below)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 Application parameter list</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3 Application reg 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4 EIB</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5 RSA address</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6 RSA data</td>
</tr>
</tbody>
</table>
Table 97. Exec Interface (continued)

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Note:</td>
<td>The entries AP E160 and AP E161 trace the interface between an application and CICS. The entries represent the command and its parameters as passed to CICS and as returned to the application.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The interpreted data from the data 1 field is shown in the interpretation string. The uninterpreted form of this data (in the data 1 field) is laid out as follows:

- Bytes 1 and 2 - length of data in data 1 field.
- The commands and their parameters in the following format:
  - Byte 1 - flag byte
  - Bytes 2 and 3 - 2 bytes of existence bits
  - Byte 4 - length of address/data
  - Bytes 5 to 8 - 4 byte address of data
  - Byte 9 onward - data, up to a maximum of 100 bytes

The first command and parameter data after the length bytes (bytes 1 and 2 of data 1) represent the values in arg0. Thereafter, they represent the application program commands.

The interpretation string, in addition to containing the formatted data 1 information, tells you:

- Whether NOHANDLE has been specified on the command
- Which language has been used (ASM, C, COBOL, PL/I, or PLX)
- Statement number of the command as calculated by the translator when DEBUG option is selected (not applicable to assembler language, however)
- RESP and RESP2 values (decimal) on exit trace.

It is advised that traces containing entries AP 150, AP 151, AP 160, and AP 161 be formatted with the FULL trace control statement. Using the ABBREV trace control statement results in interpretation strings which do not give the same level of information.

Security trace points

Table 98. Security

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP E500</td>
<td>DFHXSWM</td>
<td>AP 1</td>
<td>Entry</td>
<td>1 Requested function</td>
</tr>
<tr>
<td>AP E501</td>
<td>DFHXSWM</td>
<td>AP 1</td>
<td>Exit</td>
<td>1 Requested function</td>
</tr>
<tr>
<td>AP E502</td>
<td>DFHXSWM</td>
<td>Exc</td>
<td>Invalid function</td>
<td>2 Response code</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3 Reason code</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4 WMS parameter list</td>
</tr>
<tr>
<td>AP E503</td>
<td>DFHXSWM</td>
<td>Exc</td>
<td>Unexpected PUT failure</td>
<td>1 WMS parameter list</td>
</tr>
<tr>
<td>AP E504</td>
<td>DFHXSWM</td>
<td>Exc</td>
<td>GET received invalid data</td>
<td>1 WMS parameter list</td>
</tr>
<tr>
<td>AP E505</td>
<td>DFHXSWM</td>
<td>Exc</td>
<td>Unexpected GET failure</td>
<td>1 WMS parameter list</td>
</tr>
<tr>
<td>AP E506</td>
<td>DFHXSMN</td>
<td>Exc</td>
<td>Nonzero return code</td>
<td>1 R15 and R0¹</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 DFHSEC parameter list</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3 SNTTE</td>
</tr>
</tbody>
</table>

¹ After ESM failure, the R0 value contains SAF and ESM return codes and reason codes. If R15 contains X'18', then R0 contains the reason code as follows:

X'04'  Preset security on TCTTE
X'08'  No SNTTE or TCTTE
X'0C'  Request code error
X'20'  Security not active
X'24'  Request code out of range
X'28'  No ACEE address in SNTTE
X'2C'  Resource name length error
X'34'  GETMAIN failed for FRACHECK work area

Chapter 2. AP domain trace points – ‘new style’ 227
**Table Management Program trace points**

Table 99. Table Management Program

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP EA00</td>
<td>DFHTMP</td>
<td>AP</td>
<td>Entry</td>
<td>1    TMP parameter list</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2    Primary key (if applicable)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3    Alias key (if applicable)</td>
</tr>
<tr>
<td>AP EA01</td>
<td>DFHTMP</td>
<td>AP</td>
<td>Exit</td>
<td>1    TMP parameter list</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2    Primary key (if applicable)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3    Alias key (if applicable)</td>
</tr>
</tbody>
</table>

**Transaction manager trace points**

Table 100. Transaction manager

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP F000</td>
<td>DFHXCP</td>
<td>KC</td>
<td>Entry</td>
<td>1    28 bytes of data starting at TCAKCPBA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2    32 bytes of data starting at TCACCCA (ATTACH only)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3    Terminal ID, if any, of the task being attached (ENQ/DEQ only)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3    Resource name (RESUME only)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3    New transaction number</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4    Terminal ID, if any, to be used by transaction</td>
</tr>
<tr>
<td>AP F001</td>
<td>DFHXCP</td>
<td>KC</td>
<td>Exit</td>
<td>1    28 bytes of data starting at TCAKCPBA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2    32 bytes of data starting at TCACCCA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3    Request code from TCATCTR</td>
</tr>
<tr>
<td>AP F007</td>
<td>DFHXCP</td>
<td>Exc</td>
<td></td>
<td>1    Reserved</td>
</tr>
<tr>
<td>AP F008</td>
<td>DFHKCSC</td>
<td>KC</td>
<td>KC1 entry</td>
<td>1    KCSC parameter list</td>
</tr>
<tr>
<td>AP F009</td>
<td>DFHKCSC</td>
<td>KC</td>
<td>KC1 exit</td>
<td>1    KCSC parameter list</td>
</tr>
</tbody>
</table>

**Storage control SM interface trace points**

Table 101. Storage control SM interface

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP F101</td>
<td>DFHSMSCP</td>
<td>SC</td>
<td>Entry</td>
<td>1    TCASCSA</td>
</tr>
<tr>
<td>AP F102</td>
<td>DFHSMSCP</td>
<td>SC</td>
<td>Exit</td>
<td>1    TCASCSA</td>
</tr>
<tr>
<td>AP F104</td>
<td>DFHSMSCP</td>
<td>Exc</td>
<td>Invalid request</td>
<td>2  Address of storage</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1    TCASCSA</td>
</tr>
</tbody>
</table>
Table 101. Storage control SM interface (continued)

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP F105</td>
<td>DFHSMSCP</td>
<td>Exc</td>
<td>GETMAIN failed</td>
<td>TCASCSA</td>
</tr>
<tr>
<td>AP F106</td>
<td>DFHSMSCP</td>
<td>Exc</td>
<td>FREEMAIN failed</td>
<td>TCASCSA</td>
</tr>
<tr>
<td>AP F110</td>
<td>DFHAPSM</td>
<td>SC 1</td>
<td>Entry</td>
<td>SMNT parameter list</td>
</tr>
<tr>
<td>AP F111</td>
<td>DFHAPSM</td>
<td>SC 1</td>
<td>Exit</td>
<td>SMNT parameter list</td>
</tr>
<tr>
<td>AP F112</td>
<td>DFHAPSM</td>
<td>SC 1</td>
<td>Recovery</td>
<td>SMNT parameter list</td>
</tr>
<tr>
<td>AP F113</td>
<td>DFHAPSM</td>
<td>Exc</td>
<td>Invalid format</td>
<td>SMNT parameter list</td>
</tr>
<tr>
<td>AP F114</td>
<td>DFHAPSM</td>
<td>SC 1</td>
<td>Invalid function</td>
<td>SMNT parameter list</td>
</tr>
</tbody>
</table>

Program control trace points

Table 102. Program control

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP F230</td>
<td>DFHPCPC2</td>
<td>Exc</td>
<td>Pre-load error for COBOL module</td>
<td>Failing function</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>COBOL module name</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>R15 on return from MVS macro (if present)</td>
</tr>
<tr>
<td>AP F240</td>
<td>DFHPCLI</td>
<td>PC 1</td>
<td>XPCTA address modified</td>
<td>Modified address</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Program name</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Modified key</td>
</tr>
<tr>
<td>AP F241</td>
<td>DFHPCLI</td>
<td>PC 1</td>
<td>XPCHAIR address modified</td>
<td>Modified address</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Program name</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Reserved</td>
</tr>
<tr>
<td>AP F242</td>
<td>DFHPCLI</td>
<td>PC 1</td>
<td>XPCFTCH address modified</td>
<td>Modified address</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Program name</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Reserved</td>
</tr>
</tbody>
</table>

Interval control trace points

Table 103. Interval control

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP F300</td>
<td>DFHAPTI</td>
<td>IC 1</td>
<td>Entry</td>
<td>TISR parameter list</td>
</tr>
<tr>
<td>AP F301</td>
<td>DFHAPTI</td>
<td>IC 1</td>
<td>Exit</td>
<td>TISR parameter list</td>
</tr>
<tr>
<td>AP F302</td>
<td>DFHAPTI</td>
<td>Exc</td>
<td>Invalid TIME format</td>
<td>TISR parameter list</td>
</tr>
<tr>
<td>AP F303</td>
<td>DFHAPTI</td>
<td>Exc</td>
<td>Invalid function</td>
<td>TISR parameter list</td>
</tr>
<tr>
<td>AP F304</td>
<td>DFHAPTI</td>
<td>Exc</td>
<td>Invalid domain token type</td>
<td>TISR parameter list</td>
</tr>
<tr>
<td>AP F305</td>
<td>DFHAPTI</td>
<td>Exc</td>
<td>Bad response to RESUME</td>
<td>TISR parameter list</td>
</tr>
<tr>
<td>AP F306</td>
<td>DFHAPTI</td>
<td>Exc</td>
<td>Invalid domain token</td>
<td>TISR parameter list</td>
</tr>
<tr>
<td>AP F307</td>
<td>DFHAPTI</td>
<td>Exc</td>
<td>CRTP attach failure</td>
<td>TISR parameter list</td>
</tr>
<tr>
<td>AP F310</td>
<td>DFHAPTIM</td>
<td>IC 1</td>
<td>Entry</td>
<td>ICP static storage</td>
</tr>
<tr>
<td>AP F311</td>
<td>DFHAPTIM</td>
<td>IC 1</td>
<td>Exit</td>
<td>ICP static storage</td>
</tr>
<tr>
<td>AP F312</td>
<td>DFHAPTIM</td>
<td>IC 1</td>
<td>Suspend resumed</td>
<td>ICP static storage</td>
</tr>
<tr>
<td>AP F313</td>
<td>DFHAPTIM</td>
<td>Exc</td>
<td>Bad response to RESUME</td>
<td>ICP static storage</td>
</tr>
<tr>
<td>AP F314</td>
<td>DFHAPTIM</td>
<td>Exc</td>
<td>Invalid REQUEST_NOTIFY</td>
<td>ICP static storage</td>
</tr>
<tr>
<td>AP F320</td>
<td>DFHAPTIM</td>
<td>IC 1</td>
<td>Entry</td>
<td>ICP static storage</td>
</tr>
<tr>
<td>AP F321</td>
<td>DFHAPTIM</td>
<td>IC 1</td>
<td>Exit</td>
<td>ICP static storage</td>
</tr>
<tr>
<td>AP F322</td>
<td>DFHAPTIM</td>
<td>IC 1</td>
<td>Suspend resumed</td>
<td>ICP static storage</td>
</tr>
<tr>
<td>AP F323</td>
<td>DFHAPTIM</td>
<td>Exc</td>
<td>Bad response to RESUME</td>
<td>ICP static storage</td>
</tr>
<tr>
<td>AP F330</td>
<td>DFHICRC</td>
<td>AP 1</td>
<td>Entry</td>
<td>Parameter list (RMRO, RMKP, RMDE, RMRE, ROIN, TSIC)</td>
</tr>
</tbody>
</table>
### Table 103. Interval control (continued)

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP F331</td>
<td>DFHICRC</td>
<td>AP 1</td>
<td>Exit</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Parameter list (RMRO, RMKP, RMDE, RMRE, ROIN, TSIC)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AP F332</td>
<td>DFHICRC</td>
<td></td>
<td>Recovery</td>
<td>1</td>
</tr>
<tr>
<td>AP F333</td>
<td>DFHICRC</td>
<td></td>
<td>Invalid format</td>
<td>2</td>
</tr>
<tr>
<td>AP F334</td>
<td>DFHICRC</td>
<td></td>
<td>Invalid function</td>
<td>1</td>
</tr>
<tr>
<td>AP F380</td>
<td>DFHEIIC</td>
<td>IC 2</td>
<td>Entry</td>
<td>1</td>
</tr>
<tr>
<td>AP F381</td>
<td>DFHEIIC</td>
<td>IC 2</td>
<td>Exit</td>
<td>2</td>
</tr>
<tr>
<td>AP F382</td>
<td>DFHEIIC</td>
<td></td>
<td>Invalid function</td>
<td>1</td>
</tr>
</tbody>
</table>

### Dump control trace points

**Table 104. Dump control**

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP F400</td>
<td>DFHDCP</td>
<td>DC 1</td>
<td>Entry</td>
<td>1</td>
</tr>
<tr>
<td>AP F401</td>
<td>DFHDCP</td>
<td>DC 1</td>
<td>Exit</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Return code:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0 OK</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4 Partial dump</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>8 Dump data set not open</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>12 Dump data set open error</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>32 Dump suppressed</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AP F402</td>
<td>DFHFDP</td>
<td>DC 1</td>
<td>Entry</td>
<td>1</td>
</tr>
<tr>
<td>AP F403</td>
<td>DFHFDP</td>
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### Transient data trace points

**Table 105. Transient data**

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<td>Exc</td>
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### Table 105. Transient data (continued)

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### Temporary storage trace points

#### Table 106. Temporary storage

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Table 106. Temporary storage (continued)

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Event manager trace points

Table 107. Event manager trace points

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TCPIP SPI trace points

Table 108. TCPIP SPI trace points

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Journaling trace points

Table 109. Journaling

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### Document handler AP trace points

**Table 110. document handler**

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### Autoinstall for APPC sessions trace points

The trace entries listed in the following table support autoinstall for APPC sessions.

**Table 111. Autoinstall for APPC sessions, trace entries**

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### Table 111. Autoinstall for APPC sessions, trace entries (continued)

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Table 111. Autoinstall for APPC sessions, trace entries (continued)

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VTAM trace points

CICS VTAM trace points fall into the following ranges:
- Removal of affinities owned by CICS, AP FA50-FA58
- APPC/MRO bitmap manipulation, AP FB00-FB08
- Persistent sessions, AP FB10-FB7F AP FBD0-FBE9
- Generic resource registration, AP FB80-FB8F
- CNOS AP FB90-FBC9

Note: In a CICS emergency restart, message DFHZC0124 indicates that some VTAM sessions have persisted from the previous CICS run with a nonzero PSDI value. Each of these sessions has been restored or terminated. CICS issues messages DFHZC0146 and DFHZC0156 for restored non-APPC and APPC sessions respectively.

VTAM trace entries

Table 112. VTAM trace entries

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<td>DFHZGCN</td>
<td>Exc</td>
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<td>Exc</td>
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Table 112. VTAM trace entries (continued)

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<td>AP FBE4</td>
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<td>Event</td>
<td>Cleanup routine entered</td>
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Note: * indicates that the RPLRTNCD/FDB2 fields are of interest and are interpreted.
### Terminal control trace points

**Table 113. Terminal control**

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<th>Point ID</th>
<th>Module</th>
<th>Level</th>
<th>Type</th>
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<tr>
<td>AP FC01</td>
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<td>Event MRO/LU6.1 state setting</td>
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<td>3 Conversation TCTTE</td>
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<td>4 Work area</td>
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<td>AP FC17</td>
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<td>Exit</td>
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<td>DFHZCUT</td>
<td>TC 1</td>
<td>Entry</td>
<td>ZCUT parameter list</td>
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<td>Exit</td>
<td>ZCUT parameter list</td>
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<tr>
<td>AP FC57</td>
<td>DFHZCUT</td>
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<td>Exc Invalid function</td>
<td>ZCUT parameter list</td>
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<tr>
<td>AP FC5A</td>
<td>DFHZCUT</td>
<td></td>
<td>Exc Store clock failure</td>
<td>None</td>
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<tr>
<td>AP FC5B</td>
<td>DFHZCUT</td>
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<td>Exc Invalid userid length</td>
<td>ZCUT parameter list</td>
</tr>
<tr>
<td>AP FC80</td>
<td>DFHZATR</td>
<td>TC 1</td>
<td>Entry</td>
<td>XRF tracking</td>
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<tr>
<td>AP FC81</td>
<td>DFHZATR</td>
<td>TC 1</td>
<td>Exit</td>
<td>XRF session details</td>
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<tr>
<td>AP FC83</td>
<td>User exit</td>
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<td>Call</td>
<td>TERM_ID status</td>
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<td>AP FC84</td>
<td>User exit</td>
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<td>TERM_ID</td>
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<td>AP FC85</td>
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<td>Exit</td>
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<td>AP FC86</td>
<td>DFHZATD</td>
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<td>Entry</td>
<td>TERM_ID</td>
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<td>AP FC87</td>
<td>User exit</td>
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<td>TERM_ID</td>
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<td>AP FC88</td>
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<td>AP FC89</td>
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<td>DFHZATA</td>
<td>TC 1</td>
<td>Event</td>
<td>AWE (DFHTCTWE)</td>
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<tr>
<td>AP FC9B</td>
<td>DFHZATS</td>
<td>TC 1</td>
<td>Entry</td>
<td>Remote system ID</td>
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<td>AP FC9C</td>
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### Table 113. Terminal control (continued)

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<td>AP FC90</td>
<td>DFHZTRA</td>
<td>TC 1–2</td>
<td>VTAM I/O</td>
<td>1 TCTE_NIBD_TRACE</td>
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<td>2 VTAM RPL and ZC extension</td>
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<td>3 First buffer list entry, or 0</td>
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<td>4 Last buffer list entry, or 0</td>
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<td></td>
<td>5 Data</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td>6 Data as required</td>
</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td>7 Data as required</td>
</tr>
<tr>
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<td>5, 6, 7 4 bytes of data or 8 bytes of FMH followed by 'SUPPRESSED DUE TO CONFDATA=HIDETC IN SIT'</td>
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<tr>
<td>AP FC91</td>
<td>DFHZTRA</td>
<td>TC 1–2</td>
<td>VTAM I/O additional data</td>
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<td>or</td>
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<td>1 - 7 'SUPPRESSED DUE TO CONFDATA=HIDETC IN SIT'</td>
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<td>AP FC92</td>
<td>DFHZATMF</td>
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<td>DFHZATMF</td>
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<td>AP FC94</td>
<td>DFHZATMD</td>
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<td>Entry</td>
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<td>AP FC95</td>
<td>DFHZATMD</td>
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<td>Exit</td>
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<td>AP FC96</td>
<td>DFHZATS</td>
<td>TC 1</td>
<td>Call</td>
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<td>AP FC97</td>
<td>DFHZATS</td>
<td>TC 1</td>
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<td>AP FC98</td>
<td>DFHZATMD</td>
<td>TC 1</td>
<td>Call</td>
<td>1 Address of local TERM_ID</td>
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<tr>
<td>AP FC99</td>
<td>DFHZATMD</td>
<td>TC 1</td>
<td>Return</td>
<td>1 Address of selected shipped TERM_ID</td>
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<td>2 Address of selected shipped return code</td>
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<tr>
<td>AP FC9A</td>
<td>DFHZATS</td>
<td>TC 1</td>
<td>Return</td>
<td>1 Address of delete shipped local TERM_ID</td>
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<td>AP FC9B</td>
<td>DFHZATT</td>
<td>TC 1</td>
<td>Event delayed_data TCTTE</td>
<td>1 Address of TCTTE</td>
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<td>2 Data from TIOA</td>
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<tr>
<td>AP FCA0</td>
<td>DFHZRAS</td>
<td>TC 1</td>
<td>Event</td>
<td>1 TCTE_TRACE_1 fields in TCTTE</td>
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<td>2 TCTE_TRACE_5 fields in TCTTE</td>
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<td>3 Exit footprints, address of TCTTE</td>
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<td></td>
<td>4 TCTE_LUCX_TRACE fields in LUC extension</td>
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<td>AP FCA1</td>
<td>DFHZRAS</td>
<td>TC 1</td>
<td>Event</td>
<td>1 RRLRTNCD</td>
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<tr>
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<td>DFHZRAS</td>
<td>Exc</td>
<td>Receive specific NQ failed</td>
<td>1 TCTTE</td>
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<td>2 TCTE LU6.2 extension</td>
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<tr>
<td>AP FCA3</td>
<td>DFHZATA2</td>
<td>TC 1</td>
<td>ENTRY</td>
<td>1 Console Name</td>
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<td>2 TCTCWE_FLG (see CICS Data Areas for details.)</td>
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<tr>
<td>AP FCA4</td>
<td>DFHZATA2</td>
<td>TC 1</td>
<td>Event: call AI URM</td>
<td>1 Console Name</td>
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Table 113. Terminal control (continued)

<table>
<thead>
<tr>
<th>Point ID</th>
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<td>AP FCA5</td>
<td>DFHZATA2</td>
<td>TC 1</td>
<td>Event: exit AI URM</td>
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<td>AP FCA6</td>
<td>DFHZATA2</td>
<td>TC 1</td>
<td>Exit</td>
<td>Return Code</td>
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<tr>
<td>AP FCA7</td>
<td>DFHZATA2</td>
<td>TC 1</td>
<td>Event</td>
<td>Term ID</td>
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<tr>
<td>AP FCB0</td>
<td>DFHZCQIS</td>
<td>TC 1</td>
<td>Entry, install</td>
<td>TCTTE Address</td>
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<tr>
<td>AP FCB1</td>
<td>DFHZCQIS</td>
<td>TC 1</td>
<td>Exit, install</td>
<td>Model name for install</td>
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<td>AP FCB2</td>
<td>DFHZCQRS</td>
<td>TC 1</td>
<td>Entry, recover</td>
<td>AWE/CWE</td>
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<td>DFHZCQRS</td>
<td>TC 1</td>
<td>Exit, recover</td>
<td>BPS address (4 bytes)</td>
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<td>AP FCB4</td>
<td>DFHZCQDL</td>
<td>TC 1</td>
<td>Entry, delete</td>
<td>Node name (4 bytes)</td>
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<tr>
<td>AP FCB5</td>
<td>DFHZCQRS</td>
<td>TC 1</td>
<td>Exit, delete</td>
<td>Node address (4 bytes)</td>
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<td>AP FCB6</td>
<td>DFHZCQCH</td>
<td>TC 1</td>
<td>Entry, catalog</td>
<td>Node name (4 bytes)</td>
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<td>AP FCB7</td>
<td>DFHZCQCH</td>
<td>TC 1</td>
<td>Exit, catalog</td>
<td>Response (4 bytes)</td>
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<td>AP FCB8</td>
<td>DFHZCQIQ</td>
<td>TC 1</td>
<td>Entry, inquire</td>
<td>RR record address (4 bytes)</td>
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<td>AP FCB9</td>
<td>DFHZCQIQ</td>
<td>TC 1</td>
<td>Exit, inquire</td>
<td>Recovery record key (16 bytes)</td>
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<td>AP FCB10</td>
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<td>TC 1</td>
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<td>DFHZCQIQ</td>
<td>TC 1</td>
<td>Exit, router</td>
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<td>DFHZCQIQ</td>
<td>TC 1</td>
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<td>Message set address (4 bytes)</td>
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<td>TC 1</td>
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<td>TC 1</td>
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<td>DFHZCQIQ</td>
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248  CICS TS for z/OS: CICS Trace Entries
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<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
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<tbody>
<tr>
<td>AP FCC3</td>
<td>DFHTBSB</td>
<td>TC 1</td>
<td>Exit, restore</td>
<td>1 Response (4 bytes) Message set address (4 bytes)</td>
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<td>DWE address (4 bytes) Message set address (4 bytes)</td>
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<td>DWE address (4 bytes) Message set address (4 bytes)</td>
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<td>AP FCC4</td>
<td>DFHTBSD</td>
<td>TC 1</td>
<td>Entry, destroy</td>
<td>1 Type of commit (1 byte) X'000' SYNCPOINT X'40' DELAY X'80' NOW</td>
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<td>Response (4 bytes) Message set address (4 bytes)</td>
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<td>DFHTBSL</td>
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<td>Response (4 bytes) Message set address (4 bytes)</td>
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<td>Response (4 bytes) Message set address (4 bytes)</td>
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<td>DFHTBSSP</td>
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<td>DFHTBSSP</td>
<td>TC 1</td>
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<td>1 Pattern name (8 bytes)</td>
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### Table 113. Terminal control (continued)

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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>address of LUC</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>SEND/RECV_BFR and BUFFERLIST</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>address of buffer list</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>address of extracted logon data</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>return code from DFHZFRE FREEMAIN</td>
</tr>
<tr>
<td>AP FCE2</td>
<td>DFHZFRE</td>
<td>TC 1</td>
<td>Entry</td>
<td>1 TCTTEAR</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 Option byte</td>
</tr>
<tr>
<td>AP FCF0</td>
<td>DFHZCNA</td>
<td>TC 1</td>
<td>Event</td>
<td>1 Command input buffer (CIB)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 CIB extension</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3 Console name</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4 CIB data</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5 CIB CONID</td>
</tr>
<tr>
<td>AP FCF1</td>
<td>DFHZNAC</td>
<td>Exc</td>
<td>Error</td>
<td>1 TCTTE</td>
</tr>
<tr>
<td>AP FCF2</td>
<td>DFHZNAC</td>
<td>Exc</td>
<td>Missing LOSTERM</td>
<td>1 Number of missing entries</td>
</tr>
<tr>
<td>AP FCF3</td>
<td>DFHZNAC</td>
<td>Exc</td>
<td>Error code</td>
<td>1 Dummy TCTTE</td>
</tr>
<tr>
<td>AP FCF4</td>
<td>DFHZCLS</td>
<td>Exc</td>
<td>Open destination limit</td>
<td>1 Prefix count</td>
</tr>
<tr>
<td>AP FCF5</td>
<td>DFHZOPN</td>
<td>Exc</td>
<td>Open destination limit</td>
<td>1 Prefix count</td>
</tr>
<tr>
<td>AP FCF6</td>
<td>DFHZRAC</td>
<td>Exc</td>
<td>About to reach maxtasks - no further receives issued</td>
<td>1 Prefix count</td>
</tr>
<tr>
<td>AP FCF7</td>
<td>DFHTCRP</td>
<td>Exc</td>
<td>Insufficient storage</td>
<td>1 SMAD call parameter list</td>
</tr>
<tr>
<td>AP FCF8</td>
<td>DFHSUZX</td>
<td>Exc</td>
<td>Invalid function</td>
<td>1 SUZX parameter list</td>
</tr>
<tr>
<td>AP FCF9</td>
<td>DFHSUZX</td>
<td>Exc</td>
<td>Invalid locate type</td>
<td>1 SUZX parameter list</td>
</tr>
<tr>
<td>AP FCFB</td>
<td>DFHZRAC</td>
<td>Exc</td>
<td>Race hang</td>
<td>1 RACE</td>
</tr>
<tr>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3 TCTTE</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4 RACE address</td>
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</table>

### CICS VTAM exit trace destination

CICS VTAM exit traces are sent to the GTF trace data set only, and not to any other currently active CICS trace destinations.
Table 114. Exit trace data fields for entries AP FC17 through AP FC4F

<table>
<thead>
<tr>
<th>ID</th>
<th>Description Field</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA</td>
<td>BIND area (R14)</td>
<td>variable</td>
</tr>
<tr>
<td>BR</td>
<td>BIND response RPLAREA</td>
<td>RPLAARLN</td>
</tr>
<tr>
<td>CI</td>
<td>VTAM CID TCTECID</td>
<td>(</td>
</tr>
<tr>
<td>LE</td>
<td>LUC extension TCTTELUC</td>
<td>TCTTELUL</td>
</tr>
<tr>
<td>NI</td>
<td>NIB descriptor TCTENIBA</td>
<td>TCTENIBE-TCTENIB</td>
</tr>
<tr>
<td>RA</td>
<td>RPL data area RPLAREA</td>
<td>RPLRLEN</td>
</tr>
<tr>
<td>RF</td>
<td>contents of register 15 R15</td>
<td>4</td>
</tr>
<tr>
<td>R1</td>
<td>first RPL (RPLBAR)</td>
<td>ATCLEN+ZRPLAD</td>
</tr>
<tr>
<td>RV</td>
<td>first RPL (RPLBAR)</td>
<td>ATCLEN</td>
</tr>
<tr>
<td>R2</td>
<td>second RPL (RPLBAR)</td>
<td>ATCLEN+ZRPLAD</td>
</tr>
<tr>
<td>SY</td>
<td>symbolic name D4(R1)</td>
<td>8</td>
</tr>
<tr>
<td>T3</td>
<td>section of TCTTE TCTE_TRACE_3</td>
<td>TCTE_TRACE_3_LEN</td>
</tr>
<tr>
<td>T5</td>
<td>section of TCTTE TCTE_TRACE_5</td>
<td>TCTE_TRACE_5_LEN</td>
</tr>
<tr>
<td>UR</td>
<td>UNBIND RU RPLAREA</td>
<td>RPLRLEN</td>
</tr>
<tr>
<td>VP</td>
<td>VTAM parameter list (R1)</td>
<td>24</td>
</tr>
<tr>
<td>WE</td>
<td>autoinstall work element DFHTCTWE</td>
<td>TCTWELEN</td>
</tr>
</tbody>
</table>

Notes:
1. The exit trace data fields for each trace entry are the NETNAME, if any, followed by one or more other data fields in any order, depending on the path through CICS system code. The first two bytes of a data field hold the ID.
2. BIND is described in the SNA Reference Summary, GA27-3136.
3. The LUC extension (DFHTCTTE), the NIB descriptor (DFHTCTTE), and the autoinstall work element (DFHTCTWE) are described in CICS Data Areas.
4. The RPL and the VTAM parameter list are described in the VTAM Programming manual, SC23-0115.

Terminal control (intersystem communication) trace points

For the data formats referred to in "Terminal control (intersystem communication) trace points," see page "Formats for AP FDxx traces" on page 254.

Table 115. Intersystem communication

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP FD01</td>
<td>DFHZARQ</td>
<td>TC 1</td>
<td>APPL_REQ entry</td>
<td>Format 02</td>
</tr>
<tr>
<td>AP FD02</td>
<td>DFHZLOC</td>
<td>TC 1</td>
<td>LOCATE entry</td>
<td>Format 02</td>
</tr>
<tr>
<td>AP FD03</td>
<td>DFHZDET</td>
<td>TC 1</td>
<td>DETACH entry</td>
<td>Format 01</td>
</tr>
<tr>
<td>AP FD05</td>
<td>DFHZSUP</td>
<td>TC 1</td>
<td>TASK_STARTUP entry</td>
<td>Format 02</td>
</tr>
<tr>
<td>AP FD06</td>
<td>DFHZCRQ</td>
<td>TC 1</td>
<td>CMD_REQ entry</td>
<td>Format 01</td>
</tr>
<tr>
<td>AP FD08</td>
<td>DFHZSTU</td>
<td>TC 1</td>
<td>STATUS entry</td>
<td>Format 02</td>
</tr>
<tr>
<td>AP FD09</td>
<td>DFHZTSP</td>
<td>TC 1</td>
<td>TRANS_ROUTING entry</td>
<td>Format 14</td>
</tr>
<tr>
<td>AP FD0B</td>
<td>DFHZISP</td>
<td>TC 1</td>
<td>FACILITY_REQ entry</td>
<td>Format 02</td>
</tr>
<tr>
<td>AP FD0C</td>
<td>DFHZIS1</td>
<td>TC 1</td>
<td>ISC_SYNC_REQ entry</td>
<td>Format 02</td>
</tr>
<tr>
<td>AP FD0D</td>
<td>DFHZIS2</td>
<td>TC 1</td>
<td>IRC entry</td>
<td>Format 13</td>
</tr>
<tr>
<td>AP FD0E</td>
<td>DFHZABD</td>
<td>TC 1</td>
<td>ABEND entry</td>
<td>Format 02</td>
</tr>
<tr>
<td>AP FD10</td>
<td>DFHZATI</td>
<td>TC 1</td>
<td>ATI entry</td>
<td>Format 01</td>
</tr>
<tr>
<td>AP FD11</td>
<td>DFHZATT</td>
<td>TC 1</td>
<td>ATTACH entry</td>
<td>Format 01</td>
</tr>
<tr>
<td>AP FD14</td>
<td>DFHZRAC</td>
<td>TC 1</td>
<td>RECV_ANY event</td>
<td>Format 01</td>
</tr>
<tr>
<td>AP FD15</td>
<td>DFHZRST</td>
<td>TC 1</td>
<td>RESETSR entry</td>
<td>Format 01</td>
</tr>
<tr>
<td>AP FD16</td>
<td>DFHZRVS</td>
<td>TC 1</td>
<td>RECV_SPEC entry</td>
<td>Format 01</td>
</tr>
<tr>
<td>AP FD18</td>
<td>DFHZSDS</td>
<td>TC 1</td>
<td>SEND_DFSYN entry</td>
<td>Format 01</td>
</tr>
<tr>
<td>AP FD1C</td>
<td>DFHZACT</td>
<td>TC 1</td>
<td>ACTIVATE_SCAN event</td>
<td>Format 01</td>
</tr>
<tr>
<td>AP FD1D</td>
<td>DFHZSDR</td>
<td>TC 1</td>
<td>SEND_DFSYN_RESP entry</td>
<td>Format 01</td>
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</table>
Table 115. Intersystem communication (continued)

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
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<tr>
<td>AP FD1E</td>
<td>DFHZHPSR</td>
<td>TC 1</td>
<td>HPO_SEND_RECV entry</td>
<td>Format 01</td>
</tr>
<tr>
<td>AP FD22</td>
<td>DFHZCLS</td>
<td>TC 1</td>
<td>CLSDST entry</td>
<td>Format 01</td>
</tr>
<tr>
<td>AP FD27</td>
<td>DFHZLRP</td>
<td>TC 1</td>
<td>LOGREC entry</td>
<td>Format 01</td>
</tr>
<tr>
<td>AP FD29</td>
<td>DFHZOPN</td>
<td>TC 1</td>
<td>OPNDST entry</td>
<td>Format 01</td>
</tr>
<tr>
<td>AP FD2B</td>
<td>DFHZRAQ</td>
<td>TC 1</td>
<td>RA_QUEUEING entry</td>
<td>Format 01</td>
</tr>
<tr>
<td>AP FD2C</td>
<td>DFHZRAR</td>
<td>TC 1</td>
<td>RA_RETRIEVAL entry</td>
<td>Format 01</td>
</tr>
<tr>
<td>AP FD33</td>
<td>DFHZSDA</td>
<td>TC 1</td>
<td>SEND_DFAASY entry</td>
<td>Format 01</td>
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<tr>
<td>AP FD34</td>
<td>DFHZSKR</td>
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<td>SEND_SESSIONC_RESPONSE entry</td>
<td>Format 01</td>
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<td>AP FD35</td>
<td>DFHZSSES</td>
<td>TC 1</td>
<td>SESSIONC entry</td>
<td>Format 01</td>
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<tr>
<td>AP FD37</td>
<td>DFHZSIM</td>
<td>TC 1</td>
<td>SIMLOGON entry</td>
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<tr>
<td>AP FD39</td>
<td>DFHZSLS</td>
<td>TC 1</td>
<td>PROCESS_OPENED_VTAM_ACB</td>
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<td>DFHZOPA</td>
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<td>OPEN_VTAM_ACB entry</td>
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</tr>
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<td>DFHZSHU</td>
<td>TC 1</td>
<td>SHUTDOWN event</td>
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<tr>
<td>AP FD41</td>
<td>DFHZEMW</td>
<td>TC 1</td>
<td>APPL_ERP entry</td>
<td>Format 01</td>
</tr>
<tr>
<td>AP FD42</td>
<td>DFHZSYN</td>
<td>TC 1</td>
<td>SYNCPPOINT entry</td>
<td>Format 02</td>
</tr>
<tr>
<td>AP FD44</td>
<td>DFHZAND</td>
<td>TC 1</td>
<td>TACB_CREATE entry</td>
<td>Format 01</td>
</tr>
<tr>
<td>AP FD45</td>
<td>DFHZCNA</td>
<td>TC 1</td>
<td>CONSOLE_CTRL event</td>
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<tr>
<td>AP FD46</td>
<td>DFHZCNR</td>
<td>TC 1</td>
<td>CONSOLE_REQ entry</td>
<td>Format 06</td>
</tr>
<tr>
<td>AP FD4A</td>
<td>DFHZARL</td>
<td>TC 1</td>
<td>ISC_APPL_REQ entry</td>
<td>Format 07</td>
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<tr>
<td>AP FD4B</td>
<td>DFHZARM</td>
<td>TC 1</td>
<td>ISC_MIGR_REQ entry</td>
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</tr>
<tr>
<td>AP FD4C</td>
<td>DFHZRVL</td>
<td>TC 1</td>
<td>ISC_RECV_REQ entry</td>
<td>Format 10</td>
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<tr>
<td>AP FD4E</td>
<td>DFHZSDL</td>
<td>TC 1</td>
<td>ISC_SEND_DFSYN entry</td>
<td>Format 10</td>
</tr>
<tr>
<td>AP FD50</td>
<td>DFHZERH</td>
<td>TC 1</td>
<td>ISC_APPL_ERP entry</td>
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</tr>
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<td>DFHZLUS</td>
<td>TC 1</td>
<td>ISC_LU_SERV entry</td>
<td>Format 09</td>
</tr>
<tr>
<td>AP FD52</td>
<td>DFHZBKT</td>
<td>TC 1</td>
<td>ISC_BRACKET_FSM entry</td>
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<tr>
<td>AP FD53</td>
<td>DFHZCNT</td>
<td>TC 1</td>
<td>ISC_CONT_FSM entry</td>
<td>Format 11</td>
</tr>
<tr>
<td>AP FD54</td>
<td>DFHZCHS</td>
<td>TC 1</td>
<td>ISC_CHAIN_FSM entry</td>
<td>Format 11</td>
</tr>
<tr>
<td>AP FD56</td>
<td>DFHZUSR</td>
<td>TC 1</td>
<td>ISC_CONV_FSM entry</td>
<td>Format 11</td>
</tr>
<tr>
<td>AP FD58</td>
<td>DFHZEV1</td>
<td>TC 1</td>
<td>ISC_1ARY_BIND_SEC entry</td>
<td>Format 01</td>
</tr>
<tr>
<td>AP FD59</td>
<td>DFHZEV2</td>
<td>TC 1</td>
<td>ISC_2ARY_BIND_SEC entry</td>
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<tr>
<td>AP FD5E</td>
<td>DFHZXRC</td>
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<td>XRF_SW_ANALYSIS entry</td>
<td>Format 01</td>
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<tr>
<td>AP FD63</td>
<td>DFHZSTAP</td>
<td>TC 1</td>
<td>APPL_STATE entry</td>
<td>Format 15</td>
</tr>
<tr>
<td>AP FD64</td>
<td>DFHZRLP</td>
<td>TC 1</td>
<td>ISC_RECV_SPEC_PV entry</td>
<td>Format 10</td>
</tr>
<tr>
<td>AP FD65</td>
<td>DFHZCRT</td>
<td>TC 1</td>
<td>ISC_RECV_SPEC_PV entry</td>
<td>Format 09</td>
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<tr>
<td>AP FD66</td>
<td>DFHZRAS</td>
<td>TC 1</td>
<td>RECV_ANY_SLOWDOWN entry</td>
<td>Format 98</td>
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<tr>
<td>AP FD7D</td>
<td>DFHZRLG</td>
<td>TC 1</td>
<td>RESP_LOGGER event</td>
<td>Format 01</td>
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<tr>
<td>AP FD7E</td>
<td>DFHZNAC</td>
<td>TC 1</td>
<td>NACP_START event</td>
<td>Format 01</td>
</tr>
<tr>
<td>AP FD81</td>
<td>DFHZARQ</td>
<td>TC 1</td>
<td>APPL_REQ exit</td>
<td>Format 02</td>
</tr>
<tr>
<td>AP FD82</td>
<td>DFHZLOC</td>
<td>TC 1</td>
<td>LOCATE exit</td>
<td>Format 02</td>
</tr>
<tr>
<td>AP FD88</td>
<td>DFHZSTU</td>
<td>TC 1</td>
<td>STATUS exit</td>
<td>Format 02</td>
</tr>
<tr>
<td>AP FD89</td>
<td>DFHZTSP</td>
<td>TC 1</td>
<td>TRANS_ROUTING exit</td>
<td>Format 14</td>
</tr>
<tr>
<td>AP FD8B</td>
<td>DFHZISP</td>
<td>TC 1</td>
<td>FACILITY_REQ exit</td>
<td>Format 02</td>
</tr>
<tr>
<td>AP FD8C</td>
<td>DFHZIS1</td>
<td>TC 1</td>
<td>ISC_SYNC_REQ exit</td>
<td>Format 02</td>
</tr>
<tr>
<td>AP FD8D</td>
<td>DFHZIS2</td>
<td>TC 1</td>
<td>IRC exit</td>
<td>Format 13</td>
</tr>
<tr>
<td>AP FD91</td>
<td>DFHZATT</td>
<td>TC 1</td>
<td>ATTACH exit</td>
<td>Format 05</td>
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<td>DFHZOPA</td>
<td>TC 1</td>
<td>OPEN_VTAM_ACB exit</td>
<td>Format 05</td>
</tr>
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<td>AP FDBF</td>
<td>DFHZSHU</td>
<td>TC 1</td>
<td>SHUTDOWN exit</td>
<td>Format 03</td>
</tr>
<tr>
<td>AP FDC1</td>
<td>DFHZEMW</td>
<td>TC 1</td>
<td>APPL_ERP exit</td>
<td>Format 02</td>
</tr>
<tr>
<td>AP FDC4</td>
<td>DFHZAND</td>
<td>TC 1</td>
<td>TACB_CREATE exit</td>
<td>Format 05</td>
</tr>
<tr>
<td>AP FDC6</td>
<td>DFHZCNR</td>
<td>TC 1</td>
<td>CONSOLE_REQ exit</td>
<td>Format 02</td>
</tr>
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<td>AP FDC8</td>
<td>DFHZARL</td>
<td>TC 1</td>
<td>ISC_APPL_REQ exit</td>
<td>Format 07</td>
</tr>
<tr>
<td>AP FDCB</td>
<td>DFHZARM</td>
<td>TC 1</td>
<td>ISC_MIGR_REQ exit</td>
<td>Format 08</td>
</tr>
<tr>
<td>AP FDCD</td>
<td>DFHZRAR</td>
<td>TC 1</td>
<td>ISC_RECV_REQ exit</td>
<td>Format 10</td>
</tr>
<tr>
<td>AP FDD0</td>
<td>DFHZERH</td>
<td>TC 1</td>
<td>ISC_APPL_ERP exit</td>
<td>Format 05</td>
</tr>
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</table>
Table 115. Intersystem communication (continued)

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
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</thead>
<tbody>
<tr>
<td>AP FDD1</td>
<td>DFHLUS</td>
<td>TC 1</td>
<td>ISC_LU_SERV exit</td>
<td>Format 02</td>
</tr>
<tr>
<td>AP FDE3</td>
<td>DFHZSTAP</td>
<td>TC 1</td>
<td>APPL_STATE exit</td>
<td>Format 15</td>
</tr>
<tr>
<td>AP FDE4</td>
<td>DHZRLP</td>
<td>TC 1</td>
<td>ISC_RECV_SPEC_PV exit</td>
<td>Format 10</td>
</tr>
<tr>
<td>AP FDE5</td>
<td>DFHZCRT</td>
<td>TC 1</td>
<td>ISC_RECV_SPEC_PV exit</td>
<td>Format 99</td>
</tr>
<tr>
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Formats for AP FDxx traces

AP FDxx trace entries take one of the following forms:

Format 01
1. TCTE_TRACE_1 fields in TCTTE
2. TCTE_TRACE_5 fields in TCTTE (VTAM only)
3. Exit footprints, address of TCTTE (VTAM only)

Format 02
1. TCATP_TRACE fields in TCA
2. TCA from DFHUSTCA to TCAFCAAA

Format 03
1. TCTV_TRACE fields in TCT prefix

Format 04
1. TCTE_TRACE_1 fields in TCTTE
2. TCTE_TRACE_5 fields in TCTTE
3. Exit footprints, address of TCTTE
4. TCTV_TRACE fields in TCT prefix

Format 05
No data

Format 06
1. TCTE_TRACE_1 fields in TCTTE
2. TCTEOS console overlay of TCTTE
3. Console control element

Format 07
1. LUC parameter list

Format 08
1. LUM parameter list

Format 09
1. LUS parameter list

Format 10
1. TCTE_TRACE_1 fields in TCTTE
2. TCTE_TRACE_5 fields in TCTTE
3. Exit footprints, address of TCTTE
4. TCTE_LUCX_TRACE fields in LUC extension

Format 11
1. TCTE_TRACE_1 fields in TCTTE
2. TCTE_TRACE_5 fields in TCTTE
3. Exit footprints, address of TCTTE
4. FSM parameter list (request word, address of TCTTE)

Format 12
Not used.

Format 13
1. ISCRQ

Format 14
1. ISCRQ
2. TCA from DFHUSTCA to TCAFCAAA
3. Field XTSATTEU address of TCTTE

Format 15
1 ZSTA parameter list

**Format 98**
1 (on entry) TCTVNPRC
2 (on exit) RSNQCNT

**Format 99**
1 TCTE_TRACE_1 fields in TCTTE
2 TCTERPBS
3 Exit footprints\(^1\), address of TCTTE
4 FSM parameter list (request word, address of TCTTE)

\(^1\) An exit footprint is a CICS DFHZC* module name.

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**Terminal control (LU6.2 application requests) trace points**

*Table 116. Terminal control (LU6.2 application requests)*

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Chapter 2. AP domain trace points – ‘new style’  255
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### Console queue trace points

#### Table 117. Console queue trace points

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### Chapter 3. Business application manager trace points

**Table 119. Business application manager trace points**

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Chapter 4. CICS catalog domain trace points

“CC” in the point ID or the level means either “GC” or “LC”, for the global and local catalog environments, respectively.

Table 120. CICS catalog domain trace points

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Table 120. CICS catalog domain trace points (continued)

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<td>CC 1</td>
<td>Allocated token</td>
<td>1  Token</td>
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<td>CC 2B60</td>
<td>DFHCCC</td>
<td>Exc</td>
<td>VSAM error</td>
<td>1  VSAM response</td>
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<td>2  VSAM ACB</td>
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<td>3  VSAM RPLs</td>
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<td>4  current thread number</td>
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<td>CC 2B70</td>
<td>DFHCCC</td>
<td>Exc</td>
<td>Data too long for user's buffer</td>
<td>1  CCC parameter list</td>
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<td>CC 2B71</td>
<td>DFHCCC</td>
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<td>Data too long for file</td>
<td>1  CCC parameter list</td>
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<td>CC 2B72</td>
<td>DFHCCC</td>
<td>Exc</td>
<td>Data too long to WRITE</td>
<td>1  CCC parameter list</td>
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<tr>
<td>CC 2B73</td>
<td>DFHCCC</td>
<td>Exc</td>
<td>Data too long to WRITE NEXT</td>
<td>1  CCC parameter list</td>
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### Chapter 5. Directory domain trace points

#### Table 121. Directory domain trace entries

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<th>Point ID</th>
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<th>Lvl</th>
<th>Type</th>
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<td>DFHDDDM</td>
<td>DD 1</td>
<td>Entry</td>
<td>1 DFHDDDM parameter list</td>
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<td>DD 0102</td>
<td>DFHDDDM</td>
<td>DD 1</td>
<td>Exit</td>
<td>1 DFHDDDM parameter list</td>
</tr>
<tr>
<td>DD 0103</td>
<td>DFHDDDM</td>
<td>Exc</td>
<td>Invalid function</td>
<td>1 DFHDDDM parameter list</td>
</tr>
<tr>
<td>DD 0104</td>
<td>DFHDDDM</td>
<td>Exc</td>
<td>Invalid format</td>
<td>1 DFHDDDM parameter list</td>
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<tr>
<td>DD 0105</td>
<td>DFHDDDM</td>
<td>Exc</td>
<td>No storage for anchor</td>
<td>1 DFHDDDM parameter list</td>
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<td>DD 0106</td>
<td>DFHDDDM</td>
<td>Exc</td>
<td>Unlock failed</td>
<td>1 DFHDDDM parameter list</td>
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<tr>
<td>DD 0107</td>
<td>DFHDDDM</td>
<td>Exc</td>
<td>Recovery entry</td>
<td>1 DFHDDDM parameter list</td>
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<td>DD 0108</td>
<td>DFHDDDM</td>
<td>Exc</td>
<td>Purge of DD catalog failed</td>
<td>2 Kernel error data</td>
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<tr>
<td>DD 0201</td>
<td>DFHDDDI</td>
<td>DD 1</td>
<td>Entry</td>
<td>1 DFHDDDI parameter list</td>
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<td>DD 0202</td>
<td>DFHDDDI</td>
<td>DD 1</td>
<td>Exit</td>
<td>1 DFHDDDI parameter list</td>
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<td>DFHDDDI</td>
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<td>DFHDDDI</td>
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<td>DD 0206</td>
<td>DFHDDDI</td>
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<td>Invalid name length</td>
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<td>DD 0207</td>
<td>DFHDDDI</td>
<td>Exc</td>
<td>Insufficient storage</td>
<td>1 DFHDDDI parameter list</td>
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<td>DD 0208</td>
<td>DFHDDDI</td>
<td>Exc</td>
<td>Add subpool failed</td>
<td>1 DFHDDDI parameter list</td>
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<tr>
<td>DD 0209</td>
<td>DFHDDDI</td>
<td>Exc</td>
<td>Add lock failed</td>
<td>1 DFHDDDI parameter list</td>
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<td>DD 020A</td>
<td>DFHDDDI</td>
<td>Exc</td>
<td>Get lock failed</td>
<td>1 DFHDDDI parameter list</td>
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<td>DD 020B</td>
<td>DFHDDDI</td>
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<td>Duplicate directory</td>
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<td>DD 020C</td>
<td>DFHDDDI</td>
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<td>Replace not found</td>
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<td>DD 0213</td>
<td>DFHDDDI</td>
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<td>Rehash complete</td>
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<td>DD 0280</td>
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<td>AVL initialization error</td>
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<td>DD 0281</td>
<td>DFHDDDI</td>
<td>Exc</td>
<td>AVL add error</td>
<td>1 DFHDDDI parameter list</td>
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<td>DD 0282</td>
<td>DFHDDDI</td>
<td>Exc</td>
<td>AVL delete error</td>
<td>1 DFHDDDI parameter list</td>
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<td>3 Entry name</td>
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<td>DD 0301</td>
<td>DFHDDLO</td>
<td>DD 1</td>
<td>Entry</td>
<td>1 DFHDDLO parameter list</td>
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<td>DFHDDLO</td>
<td>DD 1</td>
<td>Exit</td>
<td>1 DFHDDLO parameter list</td>
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<td>DD 0303</td>
<td>DFHDDLO</td>
<td>Exc</td>
<td>Invalid function</td>
<td>1 DFHDDLO parameter list</td>
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<td>DD 0304</td>
<td>DFHDDLO</td>
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<td>1 DFHDDLO parameter list</td>
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<td>DFHDDBR</td>
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<td>2 GET_NEXT = &gt; dir name</td>
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<td>Invalid function</td>
<td>1 DFHDDBR parameter list</td>
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<td>Invalid format</td>
<td>1 DFHDDBR parameter list</td>
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<td>Invalid directory</td>
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<td>DD 0407</td>
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<td>Recovery entry</td>
<td>1 DFHDDBR parameter list</td>
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<td>2 Kernel error data</td>
</tr>
<tr>
<td>DD 0480</td>
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<td>AVL set cursor error</td>
<td>1 DFHDDBR parameter list</td>
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<td>2 Directory name</td>
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<td>AVL get current error</td>
<td>1 DFHDDBR parameter list</td>
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<td>DD 0482</td>
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<td>AVL storage error</td>
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<td>2 Directory name</td>
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## Chapter 6. Document handler trace points

### Table 122. Document handler trace points

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<th>Lvl</th>
<th>Type</th>
<th>Data</th>
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<td>DH 1</td>
<td>Entry</td>
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<td>Exit</td>
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<td>Entry</td>
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<td>DFHDHSL</td>
<td>DH 1</td>
<td>Exit</td>
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<td>DFHDHSL</td>
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<td>DFHDHRM</td>
<td>DH 1</td>
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<td>DFHDHRM</td>
<td>DH 1</td>
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<td>DH 0306</td>
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<td>DH 1</td>
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<td>DFHDHRM</td>
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<td>Unlock error</td>
<td>1  DFHRMRO, DFHRMDE, or DFHRMKP parameter list</td>
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<td>DFHDHRM</td>
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<td>Get exclusive lock error</td>
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<td>Recovery release lock error</td>
<td>1  DFHRMRO parameter list</td>
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<td>Recovery release lock error</td>
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<td>DFHDHTM</td>
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<td>Entry</td>
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<td>DFHDHTM</td>
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<td>1  DFHDHTM parameter list</td>
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<td>Invalid Format</td>
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<td>DFHDHTM</td>
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<td>Invalid Function</td>
<td>1  DFHDHTM parameter list</td>
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<td>DH 0406</td>
<td>DFHDHTM</td>
<td>DH 1</td>
<td>Invalid resource type</td>
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<td>Event Template PDS open complete</td>
<td>1  DHPDC Control Block</td>
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<td>IH 1</td>
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<td>DFHDHTM</td>
<td>IH 1</td>
<td>Event Template PDS I/O complete</td>
<td>1  DHTLC Control Block</td>
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Table 122. Document handler trace points (continued)

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<td>Entry</td>
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<td>Entry</td>
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<td>DFHDHUED</td>
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<td>Exit</td>
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## Chapter 7. Domain manager domain trace points

Table 123. Domain manager domain trace points

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
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<tr>
<td>DM 0001</td>
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<td>DM 0004</td>
<td>DFHDMIQ</td>
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<td>DM 0007</td>
<td>DFHDMDS</td>
<td>DM 2</td>
<td>Initialize call to domain</td>
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<td>DM 0008</td>
<td>DFHDMDS</td>
<td>DM 2</td>
<td>Quiesce call to domain</td>
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<td>DM 2</td>
<td>Domain call return</td>
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<td>Domain call return</td>
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<td>DFHDMDS</td>
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<td>Change of global phase</td>
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<td>System wait</td>
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Table 123. Domain manager domain trace points (continued)

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### Table 123. Domain manager domain trace points (continued)

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### Table 124. Debugging profiles domain trace points

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## Chapter 9. Dispatcher domain trace points

### Table 125. Dispatcher domain trace points

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Table 125. Dispatcher domain trace points (continued)

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Chapter 9. Dispatcher domain trace points 291
## Chapter 10. Dump domain trace points

### Table 126. Dump domain trace points

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Table 126. Dump domain trace points (continued)

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<td>FREEMAIN DYNALLOC plist</td>
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<td>DFHDUSR</td>
<td>DU 1</td>
<td>Entry</td>
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<td>Exit</td>
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<td>Recovery</td>
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<td>Recovery</td>
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<td>Exc</td>
<td>Invalid stats requirements</td>
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<td>DU 0609</td>
<td>DFHDUTM</td>
<td>DU 1</td>
<td>Before MVS GETMAIN</td>
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<tr>
<td>DU 060A</td>
<td>DFHDUTM</td>
<td>DU 1</td>
<td>After MVS GETMAIN</td>
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<tr>
<td>DU 060B</td>
<td>DFHDUTM</td>
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<td>Before MVS GETMAIN</td>
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<tr>
<td>DU 060C</td>
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Chapter 10. Dump domain trace points  295
<table>
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<tr>
<th>Point ID</th>
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<th>Data</th>
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<td>DU 1</td>
<td>Before MVS GETMAIN</td>
<td>1 Storage length</td>
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<tr>
<td>DU 060E</td>
<td>DFHDUTM</td>
<td>DU 1</td>
<td>After MVS GETMAIN</td>
<td>1 GETMAIN return code</td>
</tr>
<tr>
<td>DU 060F</td>
<td>DFHDUTM</td>
<td>Exc</td>
<td>Nonzero return code from MVS GETMAIN</td>
<td>1 DUDT parameter list</td>
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<td></td>
<td>2 Storage length</td>
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<tr>
<td>DU 0610</td>
<td>DFHDUTM</td>
<td>Exc</td>
<td>Nonzero return code from MVS GETMAIN</td>
<td>1 DUDT parameter list</td>
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<td>2 Storage length</td>
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<tr>
<td>DU 0611</td>
<td>DFHDUTM</td>
<td>Exc</td>
<td>Nonzero return code from MVS GETMAIN</td>
<td>1 DUDT parameter list</td>
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<td></td>
<td>2 Storage length</td>
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<tr>
<td>DU 0710</td>
<td>DFHDUSVC</td>
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<td>Remote SDUMPX return</td>
<td>1 SDUMPX parameter list</td>
</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td>2 SDUMPX REMOTE parms</td>
</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td>3 Up to 200 bytes of SDUMPX PROBDESC parms</td>
</tr>
<tr>
<td>DU 0711</td>
<td>DFHDUSVC</td>
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<td>Invalid PROBDESC data</td>
<td>1 PROBDESC parms address</td>
</tr>
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<td></td>
<td>2 Up to 200 bytes of SDUMPX PROBDESC parms</td>
</tr>
<tr>
<td>DU 0720</td>
<td>DFHDUMPX</td>
<td></td>
<td>Entry</td>
<td>1 SDUMPX exit parms (SDMSE)</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td>2 Up to 100 bytes of SDUMPX PROBDESC parms</td>
</tr>
<tr>
<td>DU 0721</td>
<td>DFHDUMPX</td>
<td></td>
<td>Exit</td>
<td>1 DFHDUMPX response</td>
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<td></td>
<td>2 SDUMPX exit parms (SDMSE)</td>
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<tr>
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<td></td>
<td>3 Up to 100 bytes of SDMSE_ASIDLST or SDMSE_JOBLIST</td>
</tr>
<tr>
<td>DU 0722</td>
<td>DFHDUMPX</td>
<td></td>
<td>IWMWQWRK call</td>
<td>1 Up to 200 bytes of the call to IWMWQWRK</td>
</tr>
<tr>
<td>DU 0723</td>
<td>DFHDUMPX</td>
<td></td>
<td>IWMWQWRK error</td>
<td>1 IWMWQWRK return code</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td>2 IWMWQWRK reason</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td>3 IWMWQWRK parameter list</td>
</tr>
<tr>
<td>DU 0724</td>
<td>DFHDUMPX</td>
<td></td>
<td>IWMWQWRK return</td>
<td>1 IWMWQWRK return code</td>
</tr>
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<td></td>
<td>2 IWMWQWRK reason</td>
</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td>3 IWMWQWRK parameter list</td>
</tr>
<tr>
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<td>4 Up to 100 bytes of the address space list returned by IWMWQWRK</td>
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</table>

Note: The trace points DU 0710, DU 0711, DU 0720, DU 0721, DU 0722, DU 0723, and DU 0724 are sent to the GTF trace data set and not to any other currently active trace destination.
### Chapter 11. Enterprise Java domain trace points

#### Enterprise Java domain initialization and termination trace points

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Class</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
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</thead>
<tbody>
<tr>
<td>EJ 0100</td>
<td>DFHEJDM</td>
<td>EJ 1</td>
<td>Entry</td>
<td>1 Parmlist</td>
</tr>
<tr>
<td>EJ 0101</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>Main UNRECOGNISED DOMAIN CONTROL REQUEST</td>
<td>2 address of parm block, 1 Parmlist</td>
</tr>
<tr>
<td>EJ 0102</td>
<td>DFHEJDM</td>
<td>EJ 1</td>
<td>Exit</td>
<td>1 Return Code, 2 Reason Code, 3 Response code, 4 Reason code, 5 Parmlist</td>
</tr>
<tr>
<td>EJ 0103</td>
<td>DFHEJDM</td>
<td>EJ 1</td>
<td>Recov ENTRY TO EJ DOMAIN RECOVERY</td>
<td>1 Return Code, 2 Reason Code, 3 Response code, 4 Reason code, 5 Parmlist, 6 Error block, 7 DMDM parm list address</td>
</tr>
<tr>
<td>EJ 0104</td>
<td>DFHEJDM</td>
<td>EJ 1</td>
<td>Recov EXIT FROM EJ DOMAIN RECOVERY</td>
<td>1 Return Code, 2 Reason Code, 3 Response code, 4 Reason code, 5 Parmlist</td>
</tr>
<tr>
<td>EJ 0105</td>
<td>DFHEJDM</td>
<td>EJ 1</td>
<td>Init ENTRY FOR INITIALISATION</td>
<td>1 Return Code, 2 Reason Code</td>
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<tr>
<td>EJ 0106</td>
<td>DFHEJDM</td>
<td>EJ 1</td>
<td>Init EXIT FROM INITIALISATION</td>
<td>1 Return Code, 2 Reason Code</td>
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<tr>
<td>EJ 0107</td>
<td>DFHEJDM</td>
<td>EJ 1</td>
<td>Quie ENTRY FOR QUIESCENCE</td>
<td>1 Return Code, 2 Reason Code</td>
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<tr>
<td>EJ 0108</td>
<td>DFHEJDM</td>
<td>EJ 1</td>
<td>Quie EXIT FROM QUIESCENCE</td>
<td>1 Return Code, 2 Reason Code</td>
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<tr>
<td>EJ 0109</td>
<td>DFHEJDM</td>
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<td>Term ENTRY FOR TERMINATION</td>
<td>1 Return Code, 2 Reason Code</td>
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<td>EJ 0110</td>
<td>DFHEJDM</td>
<td>EJ 1</td>
<td>Term EXIT FROM TERMINATION</td>
<td>1 Return Code, 2 Reason Code</td>
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<td>EJ 0111</td>
<td>DFHEJDM</td>
<td>EJ 1</td>
<td>InitCo ENTRY FOR INITIALISATION.COMMON</td>
<td>1 Return Code, 2 Reason Code, 3 SubPool Token, 4 EJ Anchor Block</td>
</tr>
<tr>
<td>EJ 0112</td>
<td>DFHEJDM</td>
<td>EJ 1</td>
<td>InitCo EXIT FROM INITIALISATION.COMMON</td>
<td>1 Return Code, 2 Reason Code, 3 SubPool Token, 4 EJ Anchor Block</td>
</tr>
<tr>
<td>EJ 0113</td>
<td>DFHEJDM</td>
<td>EJ 1</td>
<td>InitOS ENTRY FOR INITIALISATION.OBJECTSTORE</td>
<td>1 Return Code, 2 Reason Code</td>
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<td>EJ 0114</td>
<td>DFHEJDM</td>
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<td>InitOs EXIT FROM INITIALISATION.OBJECTSTORE</td>
<td>1 Return Code, 2 Reason Code</td>
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<td>EJ 0115</td>
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<td>InitEI ENTRY FOR INITIALISATION.ELEMENTS</td>
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<td>InitEI EXIT FROM INITIALISATION.ELEMENTS</td>
<td>1 Return Code, 2 Reason Code</td>
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<tr>
<td>EJ 0117</td>
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<td>IniDi ENTRY FOR INITIALISATION.DIRECTORY</td>
<td>1 Return Code, 2 Reason Code</td>
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<tr>
<td>EJ 0118</td>
<td>DFHEJDM</td>
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<td>IniDi EXIT FROM INITIALISATION.DIRECTORY</td>
<td>1 Return Code, 2 Reason Code</td>
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<td>EJ 0119</td>
<td>DFHEJDM</td>
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<td>IniDu ENTRY FOR INITIALISATION.DUMP</td>
<td>1 Return Code, 2 Reason Code</td>
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<td>DFHEJDM</td>
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<td>IniDu EXIT FROM INITIALISATION.DUMP</td>
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<tr>
<td>EJ 0121</td>
<td>DFHEJDM</td>
<td>EJ 1</td>
<td>QuieCo ENTRY FOR QUIESCENCE.COMMON</td>
<td>1 Return Code, 2 Reason Code</td>
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<tr>
<th>Point ID</th>
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<th>Type</th>
<th>Data</th>
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<td>1 Return Code</td>
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<td>EJ 0117</td>
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<td>EJ 1</td>
<td>QuiEOS ENTRY FOR QUIESCENCE.OBJECTSTORE</td>
<td>2 Return Code</td>
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<td>EJ 0118</td>
<td>DFHEJDM</td>
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<td>EJ 0119</td>
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<td>EJ 0121</td>
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<td>TermDu ENTRY FOR TERMINATION.DUMP</td>
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<td>TermDu EXIT FROM TERMINATION.DUMP</td>
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<tr>
<td>EJ 0129</td>
<td>DFHEJDM</td>
<td>EJ 1</td>
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<td>DFHEJDM</td>
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<td>RecovCo EXIT FROM RECOVERY.COMMON</td>
<td>1 Return Code</td>
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<td>EJ 012B</td>
<td>DFHEJDM</td>
<td>EJ 1</td>
<td>RecovOS ENTRY FOR RECOVERY.OBJECTSTORE</td>
<td>2 Return Code</td>
</tr>
<tr>
<td>EJ 012C</td>
<td>DFHEJDM</td>
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<td>RecovOS EXIT FROM RECOVERY.OBJECTSTORE</td>
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<td>RecovDi ENTRY FOR RECOVERY.DIRECTORY</td>
<td>2 Return Code</td>
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<td>DFHEJDM</td>
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<td>RecovDi EXIT FROM RECOVERY.DIRECTORY</td>
<td>1 Return Code</td>
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<td>EJ 0131</td>
<td>DFHEJDM</td>
<td>EJ 1</td>
<td>RecovDu ENTRY FOR RECOVERY.DUMP</td>
<td>2 Return Code</td>
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Table 127. EJ initialization and termination trace points (continued)

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<th>Type</th>
<th>Data</th>
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<td>EJ 0132</td>
<td>DFHEJDM</td>
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<td>RecovDu EXIT FROM RECOVERY.DUMP</td>
<td>1 Return Code</td>
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<td></td>
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<td>2 Return Code</td>
</tr>
<tr>
<td>EJ 0140</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitCo EJ General Storage Subpool Created</td>
<td>1 Reason Code</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 Reason Code</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>3 SMAD parmlist</td>
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<td></td>
<td>4 SubPool Token</td>
</tr>
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<td>EJ 0141</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitCo Could not create EJ General Storage Subpool</td>
<td>1 Return Code</td>
</tr>
<tr>
<td></td>
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<td>2 Reason Code</td>
</tr>
<tr>
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<td></td>
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<td>3 SMAD parmlist</td>
</tr>
<tr>
<td>EJ 0142</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitCo EJ Anchor Block after Getmain</td>
<td>1 Return Code</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>2 Reason Code</td>
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<td></td>
<td></td>
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<td>3 SMAD parmlist</td>
</tr>
<tr>
<td>EJ 0143</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitCo Could not Getmain EJ Anchor block from EJ General Storage Subpool</td>
<td>1 Return Code</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 Reason Code</td>
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<td></td>
<td></td>
<td></td>
<td>3 SMGF parmlist</td>
</tr>
<tr>
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<td></td>
<td>4 SubPool Token</td>
</tr>
<tr>
<td>EJ 0144</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitCo EJ Anchor Block after creation</td>
<td>1 EJ Anchor Block</td>
</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td>2 EJ Anchor Block address</td>
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<tr>
<td>EJ 0145</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitCo Unable to register EJ Anchor Block</td>
<td>1 Return Code</td>
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<td>2 Reason Code</td>
</tr>
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<td>3 KEDD parmlist</td>
</tr>
<tr>
<td>EJ 0150</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitOS OS General Storage Subpool Created</td>
<td>1 Return Code</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 Reason Code</td>
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<td></td>
<td></td>
<td>3 SMAD parmlist</td>
</tr>
<tr>
<td>EJ 0151</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitOS Could not create EJOS Gen Storage Subpool</td>
<td>1 Return Code</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>2 Reason Code</td>
</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td>3 SMAD parmlist</td>
</tr>
<tr>
<td>EJ 0152</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitOS EJOS Element Storage Subpool Created</td>
<td>1 Return Code</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 Reason Code</td>
</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td>3 SMAD parmlist</td>
</tr>
<tr>
<td>EJ 0153</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitOS Could not create EJOS Element Stg Subpool</td>
<td>1 Return Code</td>
</tr>
<tr>
<td></td>
<td></td>
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<td>2 Reason Code</td>
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<td></td>
<td></td>
<td>3 SMAD parmlist</td>
</tr>
<tr>
<td>EJ 0154</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitOS EJOS Anchor Block after Getmain</td>
<td>1 Return Code</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 Reason Code</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>3 SMGF parmlist</td>
</tr>
<tr>
<td>EJ 0155</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitOS Could not Getmain EJOS Anchor block from EJ OS General Storage Subpool</td>
<td>1 Return Code</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 Reason Code</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3 SMGF parmlist</td>
</tr>
<tr>
<td>EJ 0156</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitOS EJOS Anchor Block after creation</td>
<td>1 EJ Anchor</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 Object Store Anchor Block</td>
</tr>
<tr>
<td>EJ 0157</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitOS OS Anchor Block Lock Token created OK</td>
<td>1 Return Code</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 Reason Code</td>
</tr>
<tr>
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<td></td>
<td>3 LMLM parmlist</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4 Lock Name</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5 Lock Token</td>
</tr>
</tbody>
</table>

Chapter 11. Enterprise Java domain trace points 299
<table>
<thead>
<tr>
<th>Point ID</th>
<th>Class</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>EJ 0158</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitOS OS Anchor Block Lock Token creation failed</td>
<td>Return Code</td>
</tr>
<tr>
<td>EJ 0159</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitOS OS Anchor Block Lock Token released OK</td>
<td>Reason Code</td>
</tr>
<tr>
<td>EJ 015A</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitOS OS Anchor Block Lock Token release failed</td>
<td>Reason Code</td>
</tr>
<tr>
<td>EJ 015B</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitOS OS Element Lock Token created OK</td>
<td>Reason Code</td>
</tr>
<tr>
<td>EJ 015C</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitOS OS Element Lock Token creation failed</td>
<td>Reason Code</td>
</tr>
<tr>
<td>EJ 015D</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitOS OS Element Lock Token released OK</td>
<td>Reason Code</td>
</tr>
<tr>
<td>EJ 015E</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitOS EJOS Element Lock Token release failed</td>
<td>Reason Code</td>
</tr>
<tr>
<td>EJ 015F</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitOS EJOS Gate Created OK</td>
<td>Reason Code</td>
</tr>
<tr>
<td>EJ 0160</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitOS EJOS Gate creation failure</td>
<td>Reason Code</td>
</tr>
<tr>
<td>EJ 0161</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitOS EJOS Anchor Block after all inits</td>
<td>Reason Code</td>
</tr>
<tr>
<td>EJ 0170</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitEI EJEL General Storage Subpool Created</td>
<td>Reason Code</td>
</tr>
</tbody>
</table>

Table 127. EJ initialization and termination trace points (continued)
<table>
<thead>
<tr>
<th>Point ID</th>
<th>Class</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>EJ 0171</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitEl Could not create EJEL Gen Storage Subpool</td>
<td>1 Return Code, 2 Reason Code, 3 SMAD parmlist</td>
</tr>
<tr>
<td>EJ 0172</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitEl EJEL Anchor Block after Getmain</td>
<td>1 Return Code, 2 Reason Code, 3 SMGF parmlist, 4 SubPool Token, 5 Elements Anchor Block</td>
</tr>
<tr>
<td>EJ 0173</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitEl Could not Getmain EJEL Anchor block from EJ General Storage Subpool</td>
<td>1 Return Code, 2 Reason Code, 3 SMGF parmlist, 4 SubPool Token</td>
</tr>
<tr>
<td>EJ 0175</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitEl EJEL Anchor Block after creation</td>
<td>1 EJ Anchor, 2 EJ Elements Anchor</td>
</tr>
<tr>
<td>EJ 0176</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitEl EJEL Gate Created OK</td>
<td>1 Return Code, 2 Reason Code, 3 KEDD parmlist, 4 Number, 5 Number, 6 Number</td>
</tr>
<tr>
<td>EJ 0177</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitEl EJEL Gate creation failure</td>
<td>1 Return Code, 2 Reason Code, 3 KEDD parmlist, 4 Number, 5 Number, 6 Number</td>
</tr>
<tr>
<td>EJ 0178</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitEl EJEL Anchor Block after all init</td>
<td>1 Return Code, 2 Reason Code, 3 EJ Anchor, 4 EJ Elements Anchor</td>
</tr>
<tr>
<td>EJ 0179</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitEl EJEL About to wait for other Domains</td>
<td>1 EJ Anchor, 2 EJ Elements Anchor</td>
</tr>
<tr>
<td>EJ 017A</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitEl EJEL End of waiting for other Domains</td>
<td>1 EJ Anchor, 2 EJ Elements Anchor</td>
</tr>
<tr>
<td>EJ 017B</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitEl EJEL Failed to wait for other Domains</td>
<td>1 EJ Anchor, 2 EJ Elements Anchor, 3 DMDM parmlist</td>
</tr>
<tr>
<td>EJ 017C</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitEl EJEL Startup set</td>
<td>1 EJ Anchor, 2 EJ Elements Anchor, 3 DMDM parmlist</td>
</tr>
<tr>
<td>EJ 017D</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitEl About to call EJGE Init</td>
<td>1 Return Code, 2 Reason Code, 3 EJ Anchor</td>
</tr>
<tr>
<td>EJ 017E</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitEl Returned from EJGE Init</td>
<td>1 Return Code, 2 Reason Code, 3 EJ Anchor, 4 EJ Elements Anchor</td>
</tr>
<tr>
<td>EJ 017F</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitEl EJGE Init failed</td>
<td>1 Return Code, 2 Reason Code, 3 EJ Anchor, 4 EJ Elements Anchor, 5 EJGE parmlist</td>
</tr>
<tr>
<td>Point ID</td>
<td>Class</td>
<td>Lvl</td>
<td>Type</td>
<td>Data</td>
</tr>
<tr>
<td>---------</td>
<td>------------</td>
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<td>------------</td>
<td>-----------------------------</td>
</tr>
<tr>
<td>EJ 0180</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitDi</td>
<td>EJDI Gate Created OK</td>
</tr>
<tr>
<td>EJ 0190</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitDu</td>
<td>EJDU Gate Created OK</td>
</tr>
<tr>
<td>EJ 01A0</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>QuieEl</td>
<td>About to call EJGE Quie</td>
</tr>
<tr>
<td>EJ 01A1</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>QuieEl</td>
<td>Returned from EJGE Quie</td>
</tr>
<tr>
<td>EJ 01A2</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>QuieEl</td>
<td>EJGE Quie failed</td>
</tr>
<tr>
<td>EJ 01A3</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>TermEl</td>
<td>About to call EJGE Term</td>
</tr>
<tr>
<td>EJ 01A4</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>TermEl</td>
<td>Returned from EJGE Term</td>
</tr>
<tr>
<td>EJ 01A5</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>TermEl</td>
<td>EJGE Term failed</td>
</tr>
<tr>
<td>EJ 01B0</td>
<td>DFHEJDM</td>
<td>EJ 1</td>
<td>InitSt</td>
<td>ENTRY FOR INITIALISATION.STATISTICS</td>
</tr>
<tr>
<td>EJ 01B1</td>
<td>DFHEJDM</td>
<td>EJ 1</td>
<td>InitSt</td>
<td>EXIT FROM INITIALISATION.STATISTICS</td>
</tr>
<tr>
<td>EJ 01B2</td>
<td>DFHEJDM</td>
<td>EJ 1</td>
<td>QuieSt</td>
<td>ENTRY FOR QUIESCENCE.STATISTICS</td>
</tr>
<tr>
<td>EJ 01B3</td>
<td>DFHEJDM</td>
<td>EJ 1</td>
<td>QuieSt</td>
<td>EXIT FROM QUIESCENCE.STATISTICS</td>
</tr>
<tr>
<td>EJ 01B4</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>Quie</td>
<td>About to Wait for Stats shutdown</td>
</tr>
<tr>
<td>EJ 01B5</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>Quie</td>
<td>Statistics Unavailable</td>
</tr>
<tr>
<td>EJ 01B6</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>Quie</td>
<td>Failure to wait for Stats</td>
</tr>
</tbody>
</table>
Table 127. EJ initialization and termination trace points (continued)

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Class</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>EJ 01B7</td>
<td>DFHEJDM</td>
<td>EJ 1</td>
<td>TermSt ENTRY FOR TERMINATION.STATISTICS</td>
<td></td>
</tr>
<tr>
<td>EJ 01B8</td>
<td>DFHEJDM</td>
<td>EJ 1</td>
<td>TermSt EXIT FROM TERMINATION.STATISTICS</td>
<td>Return Code</td>
</tr>
<tr>
<td>EJ 01BB</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitST ST General Storage Subpool Created</td>
<td>Return Code</td>
</tr>
<tr>
<td>EJ 01BC</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitST Could not create EJST Gen Storage Subpool</td>
<td>Return Code</td>
</tr>
<tr>
<td>EJ 01BD</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitST EJST Anchor Block after Getmain</td>
<td>Return Code</td>
</tr>
<tr>
<td>EJ 01BE</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitST Could not Getmain EJST Anchor block from EJ ST General Storage Subpool</td>
<td>Return Code</td>
</tr>
<tr>
<td>EJ 01BF</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitST EJST Anchor Block after creation</td>
<td>Return Code</td>
</tr>
<tr>
<td>EJ 01C0</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitST EJST Statistics Buffer after Getmain</td>
<td>Return Code</td>
</tr>
<tr>
<td>EJ 01C1</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitST Could not Getmain EJST Statistics Buffer from EJ ST General Storage Subpool</td>
<td>Return Code</td>
</tr>
<tr>
<td>EJ 01C2</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitSt EJST Gate Created OK</td>
<td>Return Code</td>
</tr>
<tr>
<td>EJ 01C3</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitSt EJST Gate creation failure</td>
<td>Return Code</td>
</tr>
<tr>
<td>EJ 01C4</td>
<td>DFHEJDM</td>
<td>EJ 2</td>
<td>InitSt EJST Anchor Block after all inits</td>
<td>Return Code</td>
</tr>
</tbody>
</table>

Enterprise Java domain statistics trace points

Table 128. EJ domain statistics trace entries

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>EJ 0401</td>
<td>DFHEJST</td>
<td>EJ 1</td>
<td>Entry</td>
<td>STST parameter list</td>
</tr>
<tr>
<td>EJ 0402</td>
<td>DFHEJST</td>
<td>EJ 1</td>
<td>Exit</td>
<td>STST parameter list</td>
</tr>
<tr>
<td>EJ 0403</td>
<td>DFHEJST</td>
<td>Exc</td>
<td>Invalid format</td>
<td>STST parameter list</td>
</tr>
</tbody>
</table>
Table 128. EJ domain statistics trace entries (continued)

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>EJ 0404</td>
<td>DFHEJST</td>
<td>Exc</td>
<td>Invalid function</td>
<td>1</td>
</tr>
<tr>
<td>EJ 0405</td>
<td>DFHEJST</td>
<td>Exc</td>
<td>Recovery</td>
<td>1</td>
</tr>
<tr>
<td>EJ 0406</td>
<td>DFHEJST</td>
<td>Exc</td>
<td>Invalid parameters</td>
<td>2</td>
</tr>
</tbody>
</table>

Table 129. EJ domain directory trace entries

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>EJ 0501</td>
<td>DFHEJDI</td>
<td>Entry</td>
<td>Parameter list</td>
<td>1</td>
</tr>
<tr>
<td>EJ 0502</td>
<td>DFHEJDI</td>
<td>Exit</td>
<td>Parameter list</td>
<td>1</td>
</tr>
<tr>
<td>EJ 0503</td>
<td>DFHEJDI</td>
<td>Exc</td>
<td>Invalid_format</td>
<td>1</td>
</tr>
<tr>
<td>EJ 0504</td>
<td>DFHEJDI</td>
<td>Exc</td>
<td>Invalid_function</td>
<td>1</td>
</tr>
<tr>
<td>EJ 0505</td>
<td>DFHEJDI</td>
<td>Exc</td>
<td>Recovery</td>
<td>1</td>
</tr>
</tbody>
</table>

Enterprise Java domain directory trace points

The following trace points are generated in a Java environment and then mapped to the listed CICS trace points. This approach means that any number of trace points can use each of the trace points in table 304. The interface defines 15 different trace types. It is also possible to determine whether the trace point is an entry or an exit, which gives a total of 16 different trace point IDs (RASITraceEvent types). These trace types are explained in table 85.

The second data field is optional and can be omitted when it offers no additional information (such as on an TYPE_ENTRY_EXIT event, where the class and the method name are all that is needed). The remaining data passed on the call, which can vary at run time, is inserted into the remaining fields. In the event of a trace event having more than 6 objects to trace, it spills over to one or more additional trace points where the second and subsequent trace points have a sequence number in parentheses appended to the class and method names, for example (2), (3), and so on.

Table 130. Enterprise Java domain generated trace points

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Class</th>
<th>Lvl</th>
<th>RASITraceEvent type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>EJ 0600</td>
<td>CICSTraceService.class</td>
<td>EJ 1</td>
<td>TYPE_API</td>
<td>1</td>
</tr>
<tr>
<td>EJ 0601</td>
<td>CICSTraceService</td>
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## Table 130. Enterprise Java domain generated trace points (continued)

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### Enterprise Java domain elements trace points

#### Table 131. EJ elements Trace Points

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Table 131. EJ elements Trace Points (continued)

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<td>Main Both EJ Anchors look OK</td>
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Table 131. EJ elements Trace Points (continued)

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<td>Add Scanned element</td>
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<td>EJ 072E</td>
<td>DFHEJCG</td>
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<td>Add Error in Chain</td>
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| EJ 072F | DFHEJCG | EJ 2 | Add CorbaServer already in Chain | 1 Return Code  
                                                                      | 2 Reason Code  
                                                                      | 3 Current CorbaServer  
                                                                      | 4 Current element  
                                                                      | 5 CorbaServer element  
                                                                      | 6 Current element  
                                                                      | 7 CorbaServer element |
| EJ 0730 | DFHEJCG | EJ 2 | Add CorbaServer to be chained after | 1 Chaining position  
                                                                      | 2 Current CorbaServer  
                                                                      | 3 Current element  
                                                                      | 4 CorbaServer element  
                                                                      | 5 Current element  
                                                                      | 6 CorbaServer element |
| EJ 0731 | DFHEJCG | EJ 2 | Add Successfully chained Element | 1 Previous element in chain address  
                                                                      | 2 CorbaServer element  
                                                                      | 3 Current element  
                                                                      | 4 CorbaServer element  
                                                                      | 5 Next element in chain address  
                                                                      | 6 CorbaServer element  
                                                                      | 7 Chaining position |
| EJ 0732 | DFHEJCG | EJ 2 | Add Could not release the unchained Element | 1 Return Code  
                                                                      | 2 Reason Code  
                                                                      | 3 LMLM parmlist  
                                                                      | 4 Current element |
| EJ 0733 | DFHEJCG | EJ 2 | Add About to add CorbaServer to Catalog | 1 CorbaServer catalog record  
                                                                      | 2 Key in Global Catalog  
                                                                      | 3 Catalog entry key  
                                                                      | 4 Current element |
| EJ 0734 | DFHEJCG | EJ 2 | Add Added CorbaServer to Catalog OK | 1 CorbaServer catalog record  
                                                                      | 2 Key in Global Catalog  
                                                                      | 3 Catalog entry key  
                                                                      | 4 CCCC parmlist  
                                                                      | 5 Current element  
                                                                      | 6 CorbaServer element |
| EJ 0735 | DFHEJCG | EJ 2 | Add CorbaServer Addition Catalog failure | 1 CorbaServer catalog record  
                                                                      | 2 Key in Global Catalog  
                                                                      | 3 Catalog entry key  
                                                                      | 4 CCCC parmlist  
                                                                      | 5 Current element  
                                                                      | 6 CorbaServer element |
| EJ 0736 | DFHEJCG | EJ 2 | Add About to set the final State | 1 Parmlist CorbaServer  
                                                                      | 2 Return Code  
                                                                      | 3 Reason Code  
                                                                      | 4 Current element  
                                                                      | 5 CorbaServer element |
| EJ 0737 | DFHEJCG | EJ 2 | Add Final state set OK | 1 Parmlist CorbaServer  
                                                                      | 2 Current State  
                                                                      | 3 Current element  
                                                                      | 4 CorbaServer element |
| EJ 0738 | DFHEJCG | EJ 2 | Add End of CorbaServer Critical Section | 1 Lock token  
                                                                      | 2 LMLM parmlist  
                                                                      | 3 Return Code  
                                                                      | 4 Reason Code  
                                                                      | 5 LMLM parmlist  
                                                                      | 6 Lock token |
| EJ 0739 | DFHEJCG | EJ 2 | Add Could not release the Lock on the Chain | 1 Return Code  
                                                                      | 2 Reason Code  
                                                                      | 3 LMLM parmlist  
                                                                      | 4 Lock token  
                                                                      | 5 GLUE number of resources  
                                                                      | 6 GLUE type  
                                                                      | 7 GLUE warm restartability |
| EJ 073B | DFHEJCG | EJ 2 | Add About to call XRSINDI GLUE | 1 GLUE request  
                                                                      | 2 GLUE resource  
                                                                      | 3 GLUE entry length  
                                                                      | 4 GLUE number of resources  
                                                                      | 5 GLUE type  
                                                                      | 6 GLUE warm restartability |
Table 131. EJ elements Trace Points (continued)

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<td>DFHEJCB</td>
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<td>Main EJ Elements Anchor is Zero</td>
<td>1 EJ Anchor 2 EJ Elements Anchor 3 Return Code 4 Reason Code 5 Gate Return Code 1 Return Code 2 Reason Code 3 Current element 4 CorbaServer element</td>
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<td>DFHEJCG</td>
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<td>Del Error in Chain</td>
<td>1 Return Code 2 Reason Code 3 Current element 4 CorbaServer element</td>
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<td>Set Error in Chain</td>
<td>1 Return Code 2 Reason Code 3 Current element 4 CorbaServer element</td>
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<td>EJ 0777</td>
<td>DFHEJCG</td>
<td>EJ 2</td>
<td>Set Valid State Transistion</td>
<td>1 Return Code 2 Reason Code 3 Current state 4 Address of matched element 5 CorbaServer element 6 Requested state</td>
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<td>DFHEJCG</td>
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<td>Set Invalid State Transition</td>
<td>1 Return Code 2 Reason Code 3 Current state 4 Address of matched element 5 CorbaServer element 6 Requested state</td>
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<td>DFHEJCG</td>
<td>EJ 2</td>
<td>Set Current State changed since request</td>
<td>1 Return Code 2 Reason Code 3 Requested state 4 Address of matched element 5 CorbaServer element</td>
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<td>Act Error in Chain</td>
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<td>Act CorbaServer not in INSERV state</td>
<td>1 Return Code 2 Reason Code 3 Requested state 4 Address of matched element 5 CorbaServer element</td>
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<td>Inq Error in Chain</td>
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<td>Sst Error in Chain</td>
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<td>Sst CorbaServer State changed</td>
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<td>1 Calling parm block 2 address of parm block</td>
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<td>Type</td>
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<td>Main EJ Anchor Block is Zero</td>
<td>1 EJ Anchor 2 EJ Elements Anchor 3 Return Code 4 Reason Code 5 Gate Return Code</td>
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<td>DFHEJCB</td>
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<td>Main EJ Anchor Block Front</td>
<td>Footprint corrupt 1 EJ Anchor 2 EJ Elements Anchor 3 Return Code 4 Reason Code 5 Gate Return Code</td>
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<td>Main EJ Anchor Block Back</td>
<td>Footprint corrupt 1 EJ Anchor 2 EJ Elements Anchor 3 Return Code 4 Reason Code 5 Gate Return Code</td>
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<tr>
<td>EJ 0807</td>
<td>DFHEJCB</td>
<td>EJ 2</td>
<td>Main EJ Elements Anc Front</td>
<td>Footprint corrupt 1 EJ Anchor 2 EJ Elements Anchor 3 Return Code 4 Reason Code 5 Gate Return Code 6 ejcb parameter list</td>
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<td>Main EJ Elements Anc Back</td>
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<td>Main Elements part of EJ Domain is inactive</td>
<td>1 EJ Anchor 2 EJ Elements Anchor 3 Return Code 4 Reason Code 5 Gate Return Code</td>
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<td>DFHEJCB</td>
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<td>Main Both EJ Anchors look OK</td>
<td>1 EJ Anchor 2 EJ Elements Anchor 3 Return Code 4 Reason Code 5 Gate Return Code</td>
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<td>Stb ENTRY FOR START CORBASERVER BROWSE</td>
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Table 131. EJ Elements Trace Points (continued)

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Table 131. EJ elements Trace Points (continued)

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Chapter 11. Enterprise Java domain trace points  315
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Table 131. EJ elements Trace Points (continued)

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Table 131. EJ elements Trace Points (continued)

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<td>Rdja Bad parameters supplied</td>
<td>1 Calling parm block</td>
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<td>EJ 2</td>
<td>Rdja About to start the DJar Browse</td>
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<td>Rdja Browse started OK</td>
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<td>Rdja Browse failed to start</td>
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<td>Rdja DJar correctly resolved 1</td>
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<td>Rdja DJar selected for resolution 2</td>
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Table 131. EJ elements Trace Points (continued)

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</thead>
</table>
| EJ 0F63  | DFHEJIO    | EJ 2| Rdja DJar correctly resolved              | 1 DJar  
|          |            |     |                                           | 2 State  
|          |            |     |                                           | 3 EJDG parmlist  
|          |            |     |                                           | 4 Fixup Count  
|          |            |     |                                           | 5 Resolution Count  
|          |            |     |                                           | 6 Resolution Stage  |
| EJ 0F64  | DFHEJIO    | EJ 2| Rdja DJar resolution failed               | 1 DJar  
|          |            |     |                                           | 2 State  
|          |            |     |                                           | 3 EJDG parmlist  
|          |            |     |                                           | 4 Fixup Count  
|          |            |     |                                           | 5 Resolution Count  |
| EJ 0F65  | DFHEJIO    | EJ 2| Rdja About to end the Browse              | 1 Resolution Run Count  
|          |            |     |                                           | 2 Fixup Count  
|          |            |     |                                           | 3 Resolution Count  |
| EJ 0F66  | DFHEJIO    | EJ 2| Rdja The Browse ended successfully        | 1 Resolution Run Count  
|          |            |     |                                           | 2 EJDB parmlist  
|          |            |     |                                           | 3 Browse Token  
|          |            |     |                                           | 4 Fixup Count  
|          |            |     |                                           | 5 Resolution Count  |
| EJ 0F67  | DFHEJIO    | EJ 2| Rdja The Browse ended successfully        | 1 Return Code  
|          |            |     |                                           | 2 Reason Code  
|          |            |     |                                           | 3 Current element  
|          |            |     |                                           | 4 CorbaServer element  |
| EJ 1707  | DFHEJCG    | EJ 2| Res Error in Chain                        | 1 CorbaServer catalog record  
|          |            |     |                                           | 2 Catalog IO block  
|          |            |     |                                           | 3 Key in Global Catalog  
|          |            |     |                                           | 4 Catalog token  
|          |            |     |                                           | 5 Catalog entry key  
|          |            |     |                                           | 6 CCCC parmlist  |
| EJ 171B  | DFHEJCG    | EJ 2| Res Invalid data returned from            | 1 CorbaServer catalog record  
|          |            |     | CorbaServer catalog RU                    | 2 Catalog IO block  
|          |            |     |                                           | 3 Key in Global Catalog  
|          |            |     |                                           | 4 Catalog token  
|          |            |     |                                           | 5 Catalog entry key  
|          |            |     |                                           | 6 CCCC parmlist  |
| EJ 171C  | DFHEJCG    | EJ 2| Res Invalid record returned from          | 1 CorbaServer catalog record  
|          |            |     | CorbaServer catalog RU                    | 2 Catalog IO block  
|          |            |     |                                           | 3 Key in Global Catalog  
|          |            |     |                                           | 4 Catalog token  
|          |            |     |                                           | 5 Catalog entry key  
|          |            |     |                                           | 6 CCCC parmlist  |
| EJ 1749  | DFHEJCG    | EJ 2| Wait Error in Chain                       | 1 Return Code  
|          |            |     |                                           | 2 Reason Code  
|          |            |     |                                           | 3 Current element  
|          |            |     |                                           | 4 CorbaServer element  |
| EJ 1751  | DFHEJSO    | EJ 1| Entry                                     | 1 EJSO parameter list  
| EJ 1752  | DFHEJSO    | EJ 1| Exit                                      | 1 EJSO parameter list  
| EJ 1753  | DFHEJSO    | EJ 1| invalid function                          | 1 EJSO parameter list  
| EJ 1754  | DFHEJSO    | EJ 1| invalid format                            | 1 EJSO parameter list  
| EJ 1755  | DFHEJSO    | EJ 1| Recovery                                  | 1 EJSO parameter list  
| EJ 1907  | DFHEJDG    | EJ 2| Res Error in Chain                        | 1 EJSO parameter list  
|          |            |     |                                           | 2 Kernel error data  
|          |            |     |                                           | 3 Current element  
|          |            |     |                                           | 4 DJar element  

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### Table 131. EJ elements Trace Points (continued)

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| EJ 4900  | DFHADJAR| EJ 1 | Entry                    | 1 COMMAREA on entry         |
| EJ 4901  | DFHADJAR| EJ 1 | Exit                     | 1 COMMAREA on exit          |
| EJ 4902  | DFHADJAR| EJ   | Exception                |                            |
| EJ 4903  | DFHADINS| EJ 1 | Entry                    | 1 COMMAREA on entry         |
| EJ 4904  | DFHADINS| EJ 1 | Exit                     | 1 COMMAREA on exit          |
| EJ 4905  | DFHADINS| EJ   | Exception                | 1 COMMAREA if one is available, identifying error |
| EJ 4906  | DFHADINS| EJ   | Exception                |                            |
| EJ 4907  | DFHADINS| EJ   | Exception                | 1 Name of queue for which READQ TS failed |
| EJ 4908  | DFHADINS| EJ   | Exception                | 1 Name of queue for which WRITEQ TS failed |
| EJ 4909  | DFHADSTR| EJ 1 | Entry                    | 1 COMMAREA on entry         |
| EJ 490A  | DFHADSTR| EJ 1 | Exit                     | 1 COMMAREA on exit          |
| EJ 490B  | DFHADSTR| EJ   | Exception                | 1 If commarea available, commarea on exit |
| EJ 5000  | DFHEJMI | EJ 1 | Entry                    | 1 EJMI parameter list       |
| EJ 5001  | DFHEJMI | EJ 1 | Exit                     | 1 EJMI parameter list       |
| EJ 5002  | DFHEJMI | EJ 2 | Invalid format           | 1 EJMI parameter list       |
| EJ 5003  | DFHEJMI | EJ 2 | Invalid function         | 1 EJMI parameter list       |
| EJ 5004  | DFHEJMI | EJ 2 | Recovery entered         | 1 EJMI parameter list       |
| EJ 5005  | DFHEJMI | EJ 2 | No storage for anchor block | 1 EJMI parameter list     |
| EJ 5006  | DFHEJMI | EJ 2 | Lock error               | 1 EJMI parameter list       |
| EJ 5007  | DFHEJMI | EJ 2 | Unlock error             | 1 EJMI parameter list       |
| EJ 5008  | DFHEJMI | EJ 2 | Unlock recovery          | 1 EJMI parameter list       |

### Trace points in the CREA and CREC CICS-supplied transactions

Table 132. Trace points in the CREA and CREC CICS-supplied transactions

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
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</thead>
<tbody>
<tr>
<td>EJ 4900</td>
<td>DFHADDRM</td>
<td>Event</td>
<td>BeanCICSLIST item</td>
<td>1 Bean name</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 REQUESTMODEL name</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3 Operation</td>
</tr>
<tr>
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<td></td>
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<td></td>
<td>4 TranID</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5 Match state</td>
</tr>
<tr>
<td>EJ 4901</td>
<td>DFHADDRM</td>
<td>EJ 2</td>
<td>BeanCICSLIST item</td>
<td>1 Bean name</td>
</tr>
<tr>
<td>EJ 4902</td>
<td>DFHADDRM</td>
<td>EJ 2</td>
<td>BeanDDList bean item</td>
<td>1 Bean name</td>
</tr>
<tr>
<td>EJ 4903</td>
<td>DFHADDRM</td>
<td>EJ 2</td>
<td>BeanDDList method item</td>
<td>1 Bean name</td>
</tr>
<tr>
<td>EJ 4904</td>
<td>DFHADDRM</td>
<td>EJ 2</td>
<td>BeanDDList bean item</td>
<td>1 Bean name</td>
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CICS TS for z/OS: CICS Trace Entries
### Table 132. Trace points in the CREA and CREC CICS-supplied transactions (continued)

<table>
<thead>
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<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
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<tr>
<td>EJ 4905</td>
<td>DFHADDRM</td>
<td>Exc</td>
<td>GETMAIN failure</td>
<td>1 DFHEIBLK block</td>
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<tr>
<td>EJ 4906</td>
<td>DFHADDRM</td>
<td>Exc</td>
<td>FREEMAIN failure</td>
<td>1 DFHEIBLK block</td>
</tr>
<tr>
<td>EJ 4907</td>
<td>DFHADDRM</td>
<td>EJ 1</td>
<td>browseRMs entry</td>
<td></td>
</tr>
<tr>
<td>EJ 4908</td>
<td>DFHADDRM</td>
<td>EJ 1</td>
<td>browseRMs entry</td>
<td>1 Address of first BeanCICS in list</td>
</tr>
<tr>
<td>EJ 4909</td>
<td>DFHADDRM</td>
<td>Exc</td>
<td>browseRMs INQUIRE START exception</td>
<td>1 DFHEIBLK block</td>
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<tr>
<td>EJ 4910</td>
<td>DFHADDRM</td>
<td>EJ 2</td>
<td>generateRMs REQUESTMODEL</td>
<td>1 REQUESTMODEL name</td>
</tr>
<tr>
<td>EJ 4911</td>
<td>DFHADDRM</td>
<td>EJ 1</td>
<td>unusedRMs entry</td>
<td></td>
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<tr>
<td>EJ 4912</td>
<td>DFHADDRM</td>
<td>EJ 1</td>
<td>unusedRMs exit</td>
<td></td>
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<tr>
<td>EJ 4913</td>
<td>DFHADDRM</td>
<td>EJ 1</td>
<td>main entry</td>
<td></td>
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<tr>
<td>EJ 4914</td>
<td>DFHADDRM</td>
<td>Exc</td>
<td>eib address failed</td>
<td>1 DFHEIBLK block</td>
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<td>EJ 4915</td>
<td>DFHADDRM</td>
<td>EJ 2</td>
<td>creating new commarea</td>
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<tr>
<td>EJ 4916</td>
<td>DFHADDRM</td>
<td>Exc</td>
<td>applid assign failed</td>
<td>1 DFHEIBLK block</td>
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<td>EJ 4917</td>
<td>DFHADDRM</td>
<td>Exc</td>
<td>Program invoked with invalid tran ID</td>
<td></td>
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<tr>
<td>EJ 4918</td>
<td>DFHADDRM</td>
<td>Exc</td>
<td>no DJAR name supplied</td>
<td></td>
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<tr>
<td>EJ 4919</td>
<td>DFHADDRM</td>
<td>EJ 2</td>
<td>preparing to exit</td>
<td></td>
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<tr>
<td>EJ 4920</td>
<td>DFHADDRM</td>
<td>EJ 1</td>
<td>handleScreen entry</td>
<td>1 return value</td>
</tr>
<tr>
<td>EJ 4921</td>
<td>DFHADDRM</td>
<td>EJ 1</td>
<td>handleScreen exit</td>
<td></td>
</tr>
<tr>
<td>EJ 4922</td>
<td>DFHADDRM</td>
<td>Exc</td>
<td>receive map or not</td>
<td></td>
</tr>
<tr>
<td>EJ 4923</td>
<td>DFHADDRM</td>
<td>EJ 1</td>
<td>aid contents</td>
<td></td>
</tr>
<tr>
<td>EJ 4924</td>
<td>DFHADDRM</td>
<td>EJ 1</td>
<td>receive map failed</td>
<td></td>
</tr>
<tr>
<td>EJ 4925</td>
<td>DFHADDRM</td>
<td>Exc</td>
<td>no COMMAREA to restore</td>
<td></td>
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<tr>
<td>EJ 4926</td>
<td>DFHADDRM</td>
<td>EJ 1</td>
<td>getNewState entry</td>
<td></td>
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<td>EJ 4927</td>
<td>DFHADDRM</td>
<td>EJ 1</td>
<td>getNewState exit</td>
<td>1 the new CREAState</td>
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<tr>
<td>EJ 4928</td>
<td>DFHADDRM</td>
<td>EJ 2</td>
<td>resetStateVars entry</td>
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<tr>
<td>EJ 4929</td>
<td>DFHADDRM</td>
<td>EJ 1</td>
<td>handleScreen entry</td>
<td>1 map/screen to handle</td>
</tr>
<tr>
<td>EJ 4930</td>
<td>DFHADDRM</td>
<td>EJ 1</td>
<td>handleScreen exit</td>
<td>1 return value</td>
</tr>
<tr>
<td>EJ 4931</td>
<td>DFHADDRM</td>
<td>EJ 1</td>
<td>handleDJARSel entry</td>
<td>1 receive map or not</td>
</tr>
<tr>
<td>EJ 4932</td>
<td>DFHADDRM</td>
<td>EJ 2</td>
<td>aid contents</td>
<td>1 aid contents</td>
</tr>
<tr>
<td>EJ 4933</td>
<td>DFHADDRM</td>
<td>EJ 1</td>
<td>receive map failed</td>
<td></td>
</tr>
<tr>
<td>EJ 4934</td>
<td>DFHADDRM</td>
<td>EJ 2</td>
<td>stored user input</td>
<td></td>
</tr>
<tr>
<td>EJ 4935</td>
<td>DFHADDRM</td>
<td>EJ 1</td>
<td>inquire DJAR failed</td>
<td>1 DFHEIBLK block</td>
</tr>
<tr>
<td>EJ 4936</td>
<td>DFHADDRM</td>
<td>EJ 2</td>
<td>shelf name for DJAR</td>
<td>1 shelf name</td>
</tr>
<tr>
<td>EJ 4937</td>
<td>DFHADDRM</td>
<td>Exc</td>
<td>bad return code from Java program</td>
<td>1 return code from DFHADJR DFHADJR</td>
</tr>
<tr>
<td>EJ 4938</td>
<td>DFHADDRM</td>
<td>EJ 1</td>
<td>handleTranIdAssoc entry</td>
<td>1 receive map or not</td>
</tr>
<tr>
<td>EJ 4939</td>
<td>DFHADDRM</td>
<td>EJ 2</td>
<td>aid contents</td>
<td>1 aid contents</td>
</tr>
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### Chapter 11. Enterprise Java domain trace points

333
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<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
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<tr>
<td>EJ 4935</td>
<td>DFHADDRM</td>
<td>EJ 2</td>
<td>switch to new DJAR</td>
<td>name of new DJAR</td>
</tr>
<tr>
<td>EJ 4936</td>
<td>DFHADDRM</td>
<td>EJ 2</td>
<td>reverted to current DJAR</td>
<td>name of DJAR reverted to</td>
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<tr>
<td>EJ 4937</td>
<td>DFHADDRM</td>
<td>EJ 2</td>
<td>change to a different new DJAR</td>
<td>new new jar name</td>
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<tr>
<td>EJ 4938</td>
<td>DFHADDRM</td>
<td>Exc</td>
<td>receive map failed</td>
<td></td>
</tr>
<tr>
<td>EJ 4939</td>
<td>DFHADDRM</td>
<td>EJ 2</td>
<td>stored user input</td>
<td></td>
</tr>
<tr>
<td>EJ 493A</td>
<td>DFHADDRM</td>
<td>EJ 2</td>
<td>tran ID filter changed</td>
<td>new tran ID filter</td>
</tr>
<tr>
<td>EJ 493B</td>
<td>DFHADDRM</td>
<td>EJ 2</td>
<td>no optimum REQUESTMODEL list</td>
<td></td>
</tr>
<tr>
<td>EJ 493C</td>
<td>DFHADDRM</td>
<td>EJ 2</td>
<td>no installed REQUESTMODEL list</td>
<td></td>
</tr>
<tr>
<td>EJ 493D</td>
<td>DFHADDRM</td>
<td>EJ 2</td>
<td>no deployment descriptor contents list</td>
<td></td>
</tr>
<tr>
<td>EJ 493E</td>
<td>DFHADDRM</td>
<td>EJ 1</td>
<td>no REQUESTMODELs to create</td>
<td></td>
</tr>
<tr>
<td>EJ 493F</td>
<td>DFHADDRM</td>
<td>EJ 2</td>
<td>REQUESTMODELs to create</td>
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<tr>
<td>EJ 4940</td>
<td>DFHADDRM</td>
<td>Exc</td>
<td>error occurred when using IDL method</td>
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<td>names to generate</td>
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<td>REQUESTMODELs</td>
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<td>DFHADDRM</td>
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<td>handleRMCreate entry</td>
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<td>DFHADDRM</td>
<td>EJ 2</td>
<td>aid contents</td>
<td>aid contents</td>
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<td>EJ 4943</td>
<td>DFHADDRM</td>
<td>Exc</td>
<td>no action selected</td>
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<td>EJ 4944</td>
<td>DFHADDRM</td>
<td>Exc</td>
<td>no REQUESTMODEL name</td>
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<tr>
<td>EJ 4945</td>
<td>DFHADDRM</td>
<td>Exc</td>
<td>no CSD group provided for writing to</td>
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<td></td>
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<td>CSD</td>
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<td>EJ 4946</td>
<td>DFHADDRM</td>
<td>EJ 2</td>
<td>no duplicate REQUESTMODEL exists</td>
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<td>EJ 4947</td>
<td>DFHADDRM</td>
<td>Exc</td>
<td>inquire duplicate REQUESTMODEL</td>
<td>DFHEIBLK block</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>failed</td>
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</tr>
<tr>
<td>EJ 4948</td>
<td>DFHADDRM</td>
<td>Exc</td>
<td>duplicate REQUESTMODEL found, but</td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>no overwrite set</td>
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<tr>
<td>EJ 4949</td>
<td>DFHADDRM</td>
<td>EJ 1</td>
<td>installing REQUESTMODEL to CICS</td>
<td>DFHEIBLK block</td>
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<tr>
<td>EJ 494A</td>
<td>DFHADDRM</td>
<td>Exc</td>
<td>discard duplicate REQUESTMODEL</td>
<td>DFHEIBLK block</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>failed</td>
<td></td>
</tr>
<tr>
<td>EJ 494B</td>
<td>DFHADDRM</td>
<td>Exc</td>
<td>REQUESTMODEL install failed</td>
<td>DFHEIBLK block</td>
</tr>
<tr>
<td>EJ 494C</td>
<td>DFHADDRM</td>
<td>Exc</td>
<td>replace duplicate REQUESTMODEL</td>
<td>DFHEIBLK block</td>
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<tr>
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<td></td>
<td></td>
<td>failed</td>
<td></td>
</tr>
<tr>
<td>EJ 494D</td>
<td>DFHADDRM</td>
<td>Exc</td>
<td>attempted to replace duplicate RM</td>
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</tr>
<tr>
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<td></td>
<td></td>
<td>with overwrite not set</td>
<td></td>
</tr>
<tr>
<td>EJ 494E</td>
<td>DFHADDRM</td>
<td>Exc</td>
<td>invalid REQUESTMODEL</td>
<td></td>
</tr>
<tr>
<td>EJ 494F</td>
<td>DFHADDRM</td>
<td>EJ 1</td>
<td>restoring duplicate REQUESTMODEL</td>
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</tr>
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<td>restore failed</td>
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<td>EJ 4950</td>
<td>DFHADDRM</td>
<td>Exc</td>
<td>duplicate REQUESTMODEL restore</td>
<td>DFHEIBLK block</td>
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<td></td>
<td></td>
<td>failed</td>
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<tr>
<td>EJ 4951</td>
<td>DFHADDRM</td>
<td>Exc</td>
<td>unknown REQUESTMODEL</td>
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<td>installation method</td>
<td>REQUESTMODEL install method</td>
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<td>DFHADDRM</td>
<td>EJ 1</td>
<td>writing REQUESTMODEL to CSD</td>
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<td>EJ 4953</td>
<td>DFHADDRM</td>
<td>EJ 2</td>
<td>no duplicate REQUESTMODEL found in</td>
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<td>DFHEIBLK block</td>
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<td>REQUESTMODEL define failed</td>
<td>DFHEIBLK block</td>
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<td>CSD duplicate exists and overwrite is</td>
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<td>not set</td>
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<td>DFHADDRM</td>
<td>EJ 1</td>
<td>undoing REQUESTMODEL install due to</td>
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<td>CSD write failure</td>
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<td>Exc</td>
<td>failed to discard last installed</td>
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<td>REQUESTMODEL</td>
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<td>duplicate REQUESTMODEL reinstall</td>
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<td>failed</td>
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</tr>
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<td>DFHADDRM</td>
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<td>incrementing REQUESTMODEL name</td>
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</tr>
<tr>
<td>EJ 495B</td>
<td>DFHADDRM</td>
<td>Exc</td>
<td>REQUESTMODEL name increment failed</td>
<td>name increment failure code</td>
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Table 132. Trace points in the CREA and CREC CICS-supplied transactions (continued)

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
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<td>EJ 495C</td>
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<td>handleResults entry</td>
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<tr>
<td>EJ 495D</td>
<td>DFHADDRM</td>
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<td>aid contents</td>
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</tr>
<tr>
<td>EJ 495E</td>
<td>DFHADDRM</td>
<td>EJ 1</td>
<td>handleHelp entry</td>
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</tr>
<tr>
<td>EJ 495F</td>
<td>DFHADDRM</td>
<td>EJ 2</td>
<td>aid contents</td>
<td>1 aid contents</td>
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<tr>
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<td>DFHADDRM</td>
<td>EJ 1</td>
<td>initScreen entry</td>
<td>1 map/screen to initialise</td>
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<td>DFHADDRM</td>
<td>EJ 1</td>
<td>initScreen exit</td>
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<td>DFHADDRM</td>
<td>EJ 1</td>
<td>initDJARSel entry</td>
<td>1 DJAR state</td>
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<td>DFHADDRM</td>
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<td>initTranldAssoc entry</td>
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<td>DFHADDRM</td>
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<td>acceptTrandIDChanges entry</td>
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</tr>
<tr>
<td>EJ 4965</td>
<td>DFHADDRM</td>
<td>EJ 2</td>
<td>bean tran ID set as above tran ID</td>
<td>1 bean name</td>
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<tr>
<td>EJ 4966</td>
<td>DFHADDRM</td>
<td>EJ 2</td>
<td>new bean tran ID</td>
<td>2 new bean tran ID</td>
</tr>
<tr>
<td>EJ 4967</td>
<td>DFHADDRM</td>
<td>EJ 2</td>
<td>method tran ID set as above tran ID</td>
<td>1 method name</td>
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<td>EJ 4968</td>
<td>DFHADDRM</td>
<td>EJ 2</td>
<td>new method tran ID</td>
<td>2 new method tran ID</td>
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<td>DFHADDRM</td>
<td>EJ 1</td>
<td>acceptTrandIDChanges exit</td>
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<td>DFHADDRM</td>
<td>EJ 1</td>
<td>storeTAScreenInput entry</td>
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</tr>
<tr>
<td>EJ 496B</td>
<td>DFHADDRM</td>
<td>EJ 2</td>
<td>stored user input</td>
<td>1 DJAR name last input</td>
</tr>
<tr>
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<td></td>
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<td>bad flag line number</td>
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<td>pre-rendering results</td>
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<td>addIfUnknownTranID entry</td>
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<td>1 the tran ID</td>
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<td>getDJARNameArg entry</td>
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<td>DFHADDRM</td>
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<td>command line received</td>
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<td>Exc</td>
<td>bad tran ID used to invoke program</td>
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<td>DFHADDRM</td>
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<td>getDJARNameArg exit</td>
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<td>2 returned DJAR name</td>
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<td>getDDContents entry</td>
<td>1 DJAR shelf file name</td>
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<td>link succeeded</td>
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<td>buildFromTSQ entry</td>
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<td>EJ 4982</td>
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<td>TS Queue read failed</td>
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<td>Exc</td>
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<td>DFHADDRM</td>
<td>Exc</td>
<td>idl with no method</td>
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<td>DFHADDRM</td>
<td>Exc</td>
<td>params with no method</td>
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### Table 132. Trace points in the CREA and CREC CICS-supplied transactions (continued)

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### RM for enterprise beans trace points

#### Table 133. Trace points in the resource manager for enterprise beans

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<th>Lvl</th>
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<th>Data</th>
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<td>Exit</td>
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<td>EJ 49A2</td>
<td>DFHADWB0</td>
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<td>DFHADWB0</td>
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<td>Entry</td>
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Table 133. Trace points in the resource manager for enterprise beans (continued)

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Chapter 11. Enterprise Java domain trace points  337
## Chapter 12. Event Manager trace points

### Table 134. Event manager trace points

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<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
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## Chapter 13. External CICS interface trace points

### Table 135. External CICS interface trace points

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<td>1: Caller’s parameter list, 2: Call type, 3: Caller’s user name, 4: Return codes and message pointer, 5: Target CICS applid, 6: Pipe token</td>
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<td>IRP_BAD_IOAREA</td>
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<td>PIPE_RECOVERY_FAILURE</td>
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<td>TIMEDOUT</td>
<td>1: Caller's parameter list&lt;br&gt;2: Call type&lt;br&gt;3: Caller's user name&lt;br&gt;4: Server program name&lt;br&gt;5: Target CICS applid</td>
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### Table 135. External CICS interface trace points (continued)

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Table 135. External CICS interface trace points (continued)

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Table 135. External CICS interface trace points (continued)

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<td>4 Bind data</td>
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<td>6 Transformed DPL request to CICS (up to 1000 bytes)</td>
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<td>7 Final 1000 bytes of transformed DPL request</td>
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<td>4 Target CICS applid</td>
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<td>5 Length of data returned</td>
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<td>6 Data (first 1000 bytes)</td>
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<td>7 Data (final 1000 bytes)</td>
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<td>EX 2007</td>
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<td>4 Parameters passed to DFHXCURM</td>
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<td>5 URMINV, reason for calling URM</td>
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<td>6 URMCICS, target CICS applid</td>
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<td>7 URMANCH, URM anchor point address</td>
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<td>EX 2008</td>
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<td>POST_URM</td>
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<td>4 Parameters passed to DFHXCURM</td>
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<td>5 URMINV, reason for calling URM</td>
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<td>6 URMCICS, target CICS applid</td>
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<td>7 URMANCH, URM anchor point address</td>
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<td>EX 3000</td>
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<td>EX 3001</td>
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<td>ESTAE_INVOKED</td>
<td>2 MVS return code</td>
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<td>EX 3002</td>
<td>DFHXCEIP</td>
<td>Exc</td>
<td>INV_CTYPE_ON_INIT</td>
<td>1 Return area (20 bytes)</td>
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<td>DFHXCEIP</td>
<td>Exc</td>
<td>INV_VNUM_On_INIT</td>
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<td>EX 3004</td>
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<td>INV_APPL_NAME_ON_INIT</td>
<td>1 Return area (20 bytes)</td>
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<td>EX 3005</td>
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<td>INV_CTYPE_ON_ALLOC</td>
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<td>EX 3006</td>
<td>DFHXCEIP</td>
<td>Exc</td>
<td>INV_VNUM_ON_ALLOC</td>
<td>1 Return area (20 bytes)</td>
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<td>EX 3007</td>
<td>DFHXCEIP</td>
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<td>INV_UTOKEN_ON_ALLOC</td>
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<td>EX 3008</td>
<td>DFHXCEIP</td>
<td>Exc</td>
<td>INV_CTYPE_ON_OPEN</td>
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<td>EX 3009</td>
<td>DFHXCEIP</td>
<td>Exc</td>
<td>INV_VNUM_ON_OPEN</td>
<td>2 Version number</td>
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<td>EX 3010</td>
<td>DFHXCEIP</td>
<td>Exc</td>
<td>INV_UTOKEN_ON_OPEN</td>
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<tr>
<td>EX 3011</td>
<td>DFHXCEIP</td>
<td>Exc</td>
<td>INV_PTOKEN_ON_OPEN</td>
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<td>EX 3012</td>
<td>DFHXCEIP</td>
<td>Exc</td>
<td>INV_CTYPE_ON_DPL</td>
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<td>EX 3013</td>
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<td>Exc</td>
<td>INV_VNUM_ON_DPL</td>
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### Table 135. External CICS interface trace points (continued)

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<td>EX 3015</td>
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<td>Exc INV_PTOKEN_ON_DPL</td>
<td>Return area (20 bytes)</td>
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<td>EX 3017</td>
<td>DFHXCEIP</td>
<td>Exc INV_USERID_ON_DPL</td>
<td>Return area (20 bytes)</td>
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<td>EX 3018</td>
<td>DFHXCEIP</td>
<td>Exc PIPE_NOT_OPEN_ON_DPL</td>
<td>Return area (20 bytes)</td>
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<td>Pipe token</td>
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<td>EX 3019</td>
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<td>Exc PIPE_MUST_CLOSE_ON DPL</td>
<td>Return area (20 bytes)</td>
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<td>Pipe token</td>
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<td>EX 3020</td>
<td>DFHXCEIP</td>
<td>Exc INV_CTYPE_ON_CLOSE</td>
<td>Return area (20 bytes)</td>
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<td>EX 3021</td>
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<td>Exc INV_VNUM_ON_CLOSE</td>
<td>Return area (20 bytes)</td>
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<td>Version number</td>
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<td>EX 3023</td>
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<td>EX 3024</td>
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<td>Exc INV_CTYPE_ON_DEALL</td>
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<td>Exc PIPE_NOT_CLOSED_ON DEALL</td>
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<td>DFHWBSRV</td>
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<td>DFHWBSRV</td>
<td>HTTPD_read failed</td>
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<td>Read buffer</td>
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<td>EX 8502</td>
<td>DFHWBSRV</td>
<td>Invalid URL</td>
<td>WBA1 parameter list</td>
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<td>EX 8503</td>
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<td>Make partnership failed</td>
<td>WBA1 parameter list</td>
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<td>DFHWBSRV</td>
<td>WBA1 exception response</td>
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<td>HTTPD_set failed</td>
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<td>HTTPD_write failed</td>
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<td>HTTPD_write return code</td>
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Chapter 14. IE (ECI over TCP/IP) domain trace points

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<td>IE 0001</td>
<td>DFHIEIE</td>
<td>1</td>
<td>Entry</td>
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<td>IE 0002</td>
<td>DFHIEIE</td>
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<td>Exit</td>
<td>IEIE format parameter list</td>
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<td>IE 0003</td>
<td>DFHIEIE</td>
<td>Exc</td>
<td>Invalid format parameter list</td>
<td>Parameter list</td>
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<td>DFHIEIE</td>
<td>Exc</td>
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<td>IEIE format parameter list</td>
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<td>DFHIEIE</td>
<td>Exc</td>
<td>Recovery entered</td>
<td>IEIE format parameter list</td>
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<td>Kernel error data</td>
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<td>Data buffer</td>
<td>Total length of data</td>
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<td>IE 0007</td>
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<td>Normal post of mirror task</td>
<td>IECCB</td>
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<td>IE 0008</td>
<td>DFHIEIE</td>
<td>Exc</td>
<td>Mirror posted to abend</td>
<td>IECCB</td>
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<td>IE 0009</td>
<td>DFHIEIE</td>
<td>1</td>
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<td>IECSB, IECCB</td>
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<td>IE 000A</td>
<td>DFHIEIE</td>
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<td>Output data type</td>
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<td>IE 000B</td>
<td>DFHIEIE</td>
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<td>Client identity</td>
<td>IECSB, IECCB</td>
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<td>IE 000C</td>
<td>DFHIEIE</td>
<td>2</td>
<td>Data buffer continued</td>
<td>Up to 4000 bytes of sent or received data</td>
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<td>IE 0010</td>
<td>DFHIEIE</td>
<td>Exc</td>
<td>Mirror attach failure</td>
<td>IEIE format parameter list</td>
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<td>DFHIEIE</td>
<td>Exc</td>
<td>Bracket error</td>
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<td>Chain state error</td>
<td>IEIE format parameter list</td>
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<td>Exc</td>
<td>Client not responding</td>
<td>IEIE format parameter list</td>
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<td>IE 0014</td>
<td>DFHIEIE</td>
<td>Exc</td>
<td>Conversation ping abend</td>
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<td>IE 0015</td>
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<td>Exc</td>
<td>CTIN not supported</td>
<td>IEIE format parameter list</td>
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<td>Length error</td>
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<td>IE 0017</td>
<td>DFHIEIE</td>
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<td>Length field from received data</td>
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<td>IE 0018</td>
<td>DFHIEIE</td>
<td>Exc</td>
<td>Expected data missing</td>
<td>IEIE format parameter list</td>
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<td>IE 0019</td>
<td>DFHIEIE</td>
<td>Exc</td>
<td>FMH7 received</td>
<td>IEIE format parameter list</td>
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Table 136. IE domain trace points (continued)

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<td>IE 001A</td>
<td>DFHIEIE</td>
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<td>Freemain failure</td>
<td>1 IEIE format parameter list</td>
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<tr>
<td>IE 001B</td>
<td>DFHIEIE</td>
<td>Exc</td>
<td>Getmain failure</td>
<td>1 IEIE format parameter list 2 IECSB (if present) 3 IECCB (if present)</td>
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<tr>
<td>IE 001C</td>
<td>DFHIEIE</td>
<td>Exc</td>
<td>Input not recognised</td>
<td>1 IEIE format parameter list 2 Up to 1K of the data received 3 IECSB 4 IECCB (if present)</td>
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<td>IE 001D</td>
<td>DFHIEIE</td>
<td>Exc</td>
<td>Install failed</td>
<td>1 IEIE format parameter list 2 IP header received 3 IECSB</td>
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<td>IE 001F</td>
<td>DFHIEIE</td>
<td>Exc</td>
<td>Invalid CCIN</td>
<td>1 IEIE format parameter list 2 Up to 1K of the data received 3 IECSB 4 IECB</td>
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<td>DFHIEIE</td>
<td>Exc</td>
<td>Invalid CCIN version</td>
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Chapter 15. ONC/RPC feature trace points

Feature trace points

Trace points with domain ID FT are feature trace points. The format of these entries is slightly different from standard trace points in that the Module identifier contains the short name of the feature and a full module name. Feature trace point IDs are not globally defined. This means that a feature can reuse another feature's trace point IDs so that you look up the correct feature's trace point. For information about the trace points of any other product using feature trace, refer to that product's documentation.

Table 137. ONC/RPC trace points

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<td>DFHRPMS</td>
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<td>Next 3900 bytes data</td>
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<td>DFHRPMS</td>
<td>FT 1</td>
<td>Decoded data</td>
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<tr>
<td>FT 9FD5</td>
<td>DFHRPMS</td>
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<td>Decoded data</td>
<td>Next 3900 bytes data</td>
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<td>RPAL entry</td>
<td>RPAL parameters</td>
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### Chapter 16. IIOP domain trace points

**Table 138. IIOP domain trace points**

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Chapter 17. IIOP domain Java generated trace points

The following trace points are generated in a Java environment and then mapped to the listed CICS trace points. This approach means that any number of trace points can use each of the trace points in table 371. The interface defines 15 different trace types. It is also possible to determine whether the trace point is an entry or exit, which gives a total of 16 different trace point IDs (RASITraceEvent types). These trace types are explained in table 85.

The second data field is optional and can be omitted when it offers no additional information (such as on a TYPE_ENTRY_EXIT event, where the class and the method name are all that is needed). The remaining data passed on the call, which can vary at runtime, is inserted into the remaining fields. In the event of a trace event having more than 6 objects to trace, it spills over to one or more additional trace points where the second and subsequent trace points have a sequence number in parentheses appended to the class and method names, for example (2), (3), and so on.

Note: The IBM Developer Kit and Runtime Environment, Java 2 Technology Edition, Version 1.4.2 Diagnostics Guide, SC34-6358, which is available to download from www.ibm.com/developerworks/java/jdk/diagnosis/ documents the Java generated trace points and provides more information about problem determination for Java.

Table 139. IIOP domain Java generated trace points

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<td>2 - 7 Traced objects, varying on</td>
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1. Tracing class and method names
2 - 7. Traced objects, varying on tracing class
## Chapter 18. Kernel domain trace points

Table 140. Kernel domain trace points

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<td>Store clock error</td>
<td>1  KETI parameter list, Store clock value</td>
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<td>Recovery</td>
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<td>Internal error</td>
<td>1  KEIN parameter list</td>
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<td>KE 0401</td>
<td>DFHKEDG</td>
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<td>Entry</td>
<td>1  KEGD or DSNT or DMDM parameter list</td>
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<td>KE 0402</td>
<td>DFHKEDG</td>
<td>KE 1</td>
<td>Exit</td>
<td>1  KEGD or DSNT or DMDM parameter list</td>
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<td>DFHKEDG</td>
<td>KE 1</td>
<td>Recovery</td>
<td>1  KEGD or DSNT or DMDM parameter list</td>
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<td>DFHKEDG</td>
<td>KE 1</td>
<td>Invalid format</td>
<td>1  KEGD or DSNT or DMDM parameter list</td>
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### Table 140. Kernel domain trace points (continued)

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<thead>
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<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
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</thead>
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<td>KE 0405</td>
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<td>Exc</td>
<td>Invalid function</td>
<td>1 KEGD or DSNT or DMDM parameter list</td>
</tr>
<tr>
<td>KE 0501</td>
<td>DFHKEDS</td>
<td>Exc</td>
<td>Recovery</td>
<td>1 KEDS parameter list</td>
</tr>
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<td>KE 0502</td>
<td>DFHKEDS</td>
<td>KE 1</td>
<td>Entry</td>
<td>1 KEDS parameter list</td>
</tr>
<tr>
<td>KE 0503</td>
<td>DFHKEDS</td>
<td>KE 1</td>
<td>Exit</td>
<td>1 KEDS parameter list</td>
</tr>
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<td>KE 0504</td>
<td>DFHKEDS</td>
<td>Exc</td>
<td>Change mode error</td>
<td>1 KEDS parameter list</td>
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<tr>
<td>KE 0505</td>
<td>DFHKEDS</td>
<td>Exc</td>
<td>Attach error</td>
<td>1 KEDS parameter list</td>
</tr>
<tr>
<td>KE 0506</td>
<td>DFHKEDS</td>
<td>Exc</td>
<td>Set dub default error</td>
<td>1 KEDS parameter list</td>
</tr>
<tr>
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<td>DFHKEDS</td>
<td>Event</td>
<td>Pre SVC call</td>
<td>1 KAFPB</td>
</tr>
<tr>
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<td>DFHKEDS</td>
<td>Event</td>
<td>Post SVC call</td>
<td>1 KAFPB</td>
</tr>
<tr>
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<td>DFHKEDS</td>
<td>Exc</td>
<td>SVC error</td>
<td>1 KEDS parameter list</td>
</tr>
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<td>DFHKEXM</td>
<td>KE 1</td>
<td>Entry</td>
<td>1 DFHKEXM parameter list</td>
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<td>KE 1</td>
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<td>Invalid format</td>
<td>1 Invalid parameter list</td>
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<td>Invalid function</td>
<td>1 DFHKEXM parameter list</td>
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<td>DFHKEAR</td>
<td>KE 1</td>
<td>Entry</td>
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</tr>
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<td>DFHKEAR</td>
<td>KE 1</td>
<td>Exit</td>
<td>1 DFHKEAR parameter list</td>
</tr>
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<td>DFHKEAR</td>
<td>Exc</td>
<td>Recovery</td>
<td>1 DFHKEAR parameter list</td>
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<td>Exc</td>
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<td>KE 0705</td>
<td>DFHKEAR</td>
<td>Exc</td>
<td>Waitpred failed</td>
<td>1 DFHKEAR parameter list</td>
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<td>KE 0706</td>
<td>DFHKEAR</td>
<td>Exc</td>
<td>Ready failed</td>
<td>1 DFHKEAR parameter list</td>
</tr>
<tr>
<td>KE 0707</td>
<td>DFHKEAR</td>
<td>Exc</td>
<td>Waitpred timed out</td>
<td>1 DFHKEAR parameter list</td>
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<td>KE 0708</td>
<td>DFHKEAR</td>
<td>KE 1</td>
<td>Pre SVC call</td>
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<td>Exc</td>
<td>SVC call error</td>
<td>1 DFHKEAR parameter list</td>
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<td>Exc</td>
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<td>DFHKETA</td>
<td>Exc</td>
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</tbody>
</table>

1 Functions SET_GLOBAL_TRACE, SET_DOMAIN_TRACE, and SET_TASK_TRACE are always traced from point IDs KE 0201 and KE 0202, even when KE level-1 tracing is not selected.

2 Tracing from these point IDs is sent to the console, because trace domain is not yet initialized.
## Chapter 19. Loader domain trace points

### Table 141. Loader domain trace points

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
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</thead>
<tbody>
<tr>
<td>LD 0001</td>
<td>DFHLDDL</td>
<td>LD 1</td>
<td>Entry</td>
<td>LDLD parameter list</td>
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<td>LD 0002</td>
<td>DFHLDDL</td>
<td>LD 1</td>
<td>Exit</td>
<td>LDLD parameter list</td>
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<td>DFHLDDL</td>
<td>LD 1</td>
<td>Recovery</td>
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</tr>
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<td>DFHLDDL</td>
<td>LD 1</td>
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<td>DFHLDDL</td>
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<td>DFHLDDL</td>
<td>LD 1</td>
<td>Invalid parameters</td>
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<tr>
<td>LD 0804</td>
<td>DFHLDDL</td>
<td>LD 1</td>
<td>Invalid PDB</td>
<td>Program name</td>
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<td>DFHLDDL</td>
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<td>LD 0807</td>
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<td>Invalid PGM token</td>
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<td>ADD SUSPEND failure</td>
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<td>DFHLDDL</td>
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<td>Lock failure</td>
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<td>BLDL parameter list</td>
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Table 141. Loader domain trace points (continued)

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### Chapter 20. Log manager trace points

#### Table 142. Log manager trace points

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Chapter 21. Lock manager domain trace points

Table 143. Lock manager domain trace points

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Table 143. Lock manager domain trace points (continued)

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### Chapter 22. Message domain trace points

#### Table 144. Message domain trace points

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## Chapter 23. Monitoring domain trace points

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### Table 145. Monitoring domain trace points (continued)

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<td>DFHMNXM</td>
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<td>Clock stop error—-not running</td>
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|     |          |     | Area to be freed            | 2 Area to be freed          |
### Chapter 24. Enqueue domain trace points

**Table 146. Enqueue domain trace points**

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<tr>
<th>Point ID</th>
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<td>NQ 0608</td>
<td>NQRN</td>
<td>Exc</td>
<td>ENQMODEL getmain failure</td>
<td>1 NQRN parameter list</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 SMGF parameter list</td>
</tr>
<tr>
<td>NQ FF50</td>
<td>NQIE</td>
<td>NQ 1</td>
<td>Entry</td>
<td>1 NQIE parameter list</td>
</tr>
<tr>
<td>NQ FF51</td>
<td>NQIE</td>
<td>NQ 1</td>
<td>Exit</td>
<td>1 NQIE parameter list</td>
</tr>
<tr>
<td>NQ FF52</td>
<td>NQIE</td>
<td>Exc</td>
<td>Recovery</td>
<td>1 NQIE parameter list</td>
</tr>
<tr>
<td>NQ FF53</td>
<td>NQIE</td>
<td>Exc</td>
<td>Invalid format</td>
<td>1 NQIE parameter list</td>
</tr>
<tr>
<td>NQ FF54</td>
<td>NQIE</td>
<td>Exc</td>
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<tr>
<td>NQ FF55</td>
<td>NQNQ</td>
<td>Exc</td>
<td>Invalid pool token</td>
<td>1 NQNQ parameter list</td>
</tr>
<tr>
<td>NQ FF56</td>
<td>NQNQ</td>
<td>Exc</td>
<td>Invalid enqueue</td>
<td>1 NQNQ parameter list</td>
</tr>
</tbody>
</table>
Chapter 25. Object transaction domain Java generated trace points

The following trace points are generated in a Java environment and then mapped to the listed CICS trace points. This approach means that any number of trace points can use each of the trace points in table 421. The interface defines 15 different trace types. It is also possible to determine whether the trace point is an entry or an exit, which gives a total of 16 different trace point IDs (RASITraceEvent types). These trace types are explained in table 85.

The second data field is optional and can be omitted when it offers no additional information (such as on an TYPE_ENTRY_EXIT event, where the class and the method name are all that is needed). The remaining data passed on the call, which can vary at run time, is inserted into the remaining fields. In the event of a trace event having more than 6 objects to trace, it spills over to one or more additional trace points where the second and subsequent trace points have a sequence number in parentheses appended to the class and method names, for example (2), (3), and so on.

Note: The IBM Developer Kit and Runtime Environment, Java 2 Technology Edition, Version 1.4.2 Diagnostics Guide, SC34-6358, which is available to download from www.ibm.com/developerworks/java/jdk/diagnosis/ documents the Java generated trace points and provides more information about problem determination for Java.

Table 147. Object transaction domain Java generated trace points

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Class</th>
<th>Lvl</th>
<th>RASITraceEvent type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>OT 1000</td>
<td>CICSTraceService.class</td>
<td>OT 1</td>
<td>TYPE_API</td>
<td>1: Tracing class and method names; 2-7: Traced objects, varying on tracing class</td>
</tr>
<tr>
<td>OT 1001</td>
<td>CICSTraceService.class</td>
<td>OT 2</td>
<td>TYPE_CALLBACK</td>
<td>1: Tracing class and method names; 2-7: Traced objects, varying on tracing class</td>
</tr>
<tr>
<td>OT 1002</td>
<td>CICSTraceService.class</td>
<td>OT 1</td>
<td>TYPE_ENTRY_EXIT (Entry)</td>
<td>1: Tracing class and method names; 2-7: Traced objects, varying on tracing class</td>
</tr>
<tr>
<td>OT 1003</td>
<td>CICSTraceService.class</td>
<td>OT Exc</td>
<td>TYPE_ERROR_EXC</td>
<td>1: Tracing class and method names; 2-7: Traced objects, varying on tracing class</td>
</tr>
<tr>
<td>OT 1004</td>
<td>CICSTraceService.class</td>
<td>OT 2</td>
<td>TYPE_MISC_DATA</td>
<td>1: Tracing class and method names; 2-7: Traced objects, varying on tracing class</td>
</tr>
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<td>OT 1005</td>
<td>CICSTraceService.class</td>
<td>OT 2</td>
<td>TYPE_OBJ_CREATE</td>
<td>1: Tracing class and method names; 2-7: Traced objects, varying on tracing class</td>
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<tr>
<td>OT 1006</td>
<td>CICSTraceService.class</td>
<td>OT 2</td>
<td>TYPE_OBJ_DELETE</td>
<td>1: Tracing class and method names; 2-7: Traced objects, varying on tracing class</td>
</tr>
<tr>
<td>OT 1007</td>
<td>CICSTraceService.class</td>
<td>OT 2</td>
<td>TYPE_PRIVATE</td>
<td>1: Tracing class and method names; 2-7: Traced objects, varying on tracing class</td>
</tr>
<tr>
<td>Point ID</td>
<td>Class</td>
<td>Lvl</td>
<td>RASITraceEvent type</td>
<td>Data</td>
</tr>
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<td>---------------------</td>
<td>--------------------</td>
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<td>OT 1008</td>
<td>CICSTraceService.class</td>
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<td>TYPE_PUBLIC</td>
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<td>Tracing class and method names</td>
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<td>OT 1009</td>
<td>CICSTraceService.class</td>
<td>OT 2</td>
<td>TYPE_STATIC</td>
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<td>Tracing class and method names</td>
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<td>CICSTraceService.class</td>
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<td>TYPE_SVC</td>
<td>1</td>
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<td></td>
<td>Tracing class and method names</td>
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<td>OT 100B</td>
<td>CICSTraceService.class</td>
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<td>Tracing class and method names</td>
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<td>OT 100C</td>
<td>CICSTraceService.class</td>
<td>OT 2</td>
<td>TYPE_LEVEL2</td>
<td>1</td>
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<td>Tracing class and method names</td>
</tr>
<tr>
<td>OT 100D</td>
<td>CICSTraceService.class</td>
<td>OT 3</td>
<td>TYPE_LEVEL3</td>
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<td>Tracing class and method names</td>
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<tr>
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<td>CICSTraceService.class</td>
<td>OT 2</td>
<td>TYPE_PERF</td>
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<td>Tracing class and method names</td>
</tr>
<tr>
<td>OT 100F</td>
<td>CICSTraceService.class</td>
<td>OT 1</td>
<td>TYPE_ENTRY_EXIT</td>
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<td>Tracing class and method names</td>
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Chapter 26. Parameter manager domain trace points

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
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<tr>
<td>PA 0101</td>
<td>DFHPAGP</td>
<td>PA 1</td>
<td>Entry</td>
<td>1 PAGP parameter list</td>
</tr>
<tr>
<td>PA 0102</td>
<td>DFHPAGP</td>
<td>PA 1</td>
<td>Exit</td>
<td>1 PAGP parameter list</td>
</tr>
<tr>
<td>PA 0103</td>
<td>DFHPAGP</td>
<td>PA 2</td>
<td>Before WTOR</td>
<td>1 PAGP parameter list</td>
</tr>
<tr>
<td>PA 0104</td>
<td>DFHPAGP</td>
<td>PA 2</td>
<td>After WTOR</td>
<td>1 PAGP parameter list</td>
</tr>
<tr>
<td>PA 0111</td>
<td>DFHPAGP</td>
<td>Exc</td>
<td>Invalid PAGP parameter list</td>
<td>1 PAGP parameter list</td>
</tr>
<tr>
<td>PA 0112</td>
<td>DFHPAGP</td>
<td>Exc</td>
<td>Invalid format number in parameter list</td>
<td>1 PAGP parameter list</td>
</tr>
<tr>
<td>PA 0113</td>
<td>DFHPAGP</td>
<td>Exc</td>
<td>Invalid function</td>
<td>1 PAGP parameter list</td>
</tr>
<tr>
<td>PA 0114</td>
<td>DFHPAGP</td>
<td>Exc</td>
<td>Invalid requesting domain</td>
<td>1 PAGP parameter list</td>
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<tr>
<td>PA 0115</td>
<td>DFHPAGP</td>
<td>Exc</td>
<td>Unable to transfer SIT to AP</td>
<td>1 PAGP parameter list</td>
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<tr>
<td>PA 0116</td>
<td>DFHPAGP</td>
<td>Exc</td>
<td>Recovery</td>
<td>1 PAGP parameter list</td>
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<td>PA 0201</td>
<td>DFHPADM</td>
<td>PA 1</td>
<td>Entry</td>
<td>1 DMDM parameter list</td>
</tr>
<tr>
<td>PA 0202</td>
<td>DFHPADM</td>
<td>PA 1</td>
<td>Exit</td>
<td>1 DMDM parameter list</td>
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<tr>
<td>PA 0211</td>
<td>DFHPADM</td>
<td>Exc</td>
<td>Invalid format number in parameter list</td>
<td>1 DMDM parameter list</td>
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<tr>
<td>PA 0212</td>
<td>DFHPADM</td>
<td>Exc</td>
<td>Invalid function</td>
<td>1 DMDM parameter list</td>
</tr>
<tr>
<td>PA 0213</td>
<td>DFHPADM</td>
<td>Exc</td>
<td>Recovery</td>
<td>1 DMDM parameter list</td>
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<tr>
<td>PA 0401</td>
<td>DFHPASY</td>
<td>PA 1</td>
<td>Entry</td>
<td>1 PASY parameter list</td>
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<td>PA 0402</td>
<td>DFHPASY</td>
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<td>Exit</td>
<td>1 PASY parameter list</td>
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## Table 149. Program manager domain trace entries

<table>
<thead>
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<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
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<td>PG 0101</td>
<td>DFHPGDM</td>
<td>PG 1</td>
<td>Entry</td>
<td>1 DFHDMDM parameter list</td>
</tr>
<tr>
<td>PG 0102</td>
<td>DFHPGDM</td>
<td>PG 1</td>
<td>Exit</td>
<td>1 DFHDMDM parameter list</td>
</tr>
<tr>
<td>PG 0103</td>
<td>DFHPGDM</td>
<td></td>
<td>Recovery</td>
<td>1 DFHDMDM parameter list</td>
</tr>
<tr>
<td>PG 0104</td>
<td>DFHPGDM</td>
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<td>PG 0105</td>
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<td>Invalid function</td>
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<td>DFHPGDM</td>
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<td>LMLM Unlock error</td>
<td>2 DFHLMLM parameter list</td>
</tr>
<tr>
<td>PG 0107</td>
<td>DFHPGDM</td>
<td></td>
<td>LDDL DEFINE or ACQUIRE failed</td>
<td>1 DFHDMDM parameter list</td>
</tr>
<tr>
<td>PG 0108</td>
<td>DFHPGDM</td>
<td></td>
<td>LDDL RELEASE failed</td>
<td>2 DFHLDDL parameter list</td>
</tr>
<tr>
<td>PG 0109</td>
<td>DFHPGDM</td>
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<td>Getmain failed</td>
<td>1 DFHDMDM parameter list</td>
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<tr>
<td>PG 0110</td>
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<td>INQUIRE_ACCESS_TOKEN failed</td>
<td>1 DFHDMDM parameter list</td>
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<td>PG 0111</td>
<td>DFHPGDM</td>
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<td>INQUIRE_STORAGE_PROTECT failed</td>
<td>2 DFHSMRG parameter list</td>
</tr>
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<td>PG 0112</td>
<td>DFHPGDM</td>
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<td>INQUIRE_START failed</td>
<td>1 DFHDMDM parameter list</td>
</tr>
<tr>
<td>PG 0113</td>
<td>DFHPGDM</td>
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<td>DEFINE_PROGRAM failed</td>
<td>1 DFHSMRG parameter list</td>
</tr>
<tr>
<td>PG 0114</td>
<td>DFHPGDM</td>
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<td>CCCC GET_NEXT failed</td>
<td>1 DFHSMRG parameter list</td>
</tr>
<tr>
<td>PG 0115</td>
<td>DFHPGDM</td>
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<td>RECOVERY_RELEASE_PGLOCK error</td>
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<td>PG 0201</td>
<td>DFHPGRP</td>
<td>PG 1</td>
<td>Entry</td>
<td>1 DFHPGRP parameter list</td>
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<td>PG 0202</td>
<td>DFHPGRP</td>
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<td>Recovery</td>
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<tr>
<td>PG 0204</td>
<td>DFHPGRP</td>
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<td>Invalid format</td>
<td>1 DFHPGRP parameter list</td>
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<tr>
<td>PG 0205</td>
<td>DFHPGRP</td>
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<td>Invalid function</td>
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<td>PG 0206</td>
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<td>DEFINE_PROGRAM failed</td>
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<td>PG 0207</td>
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<td>PG 0209</td>
<td>DFHPGRP</td>
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<td>GET_PGLock error</td>
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<td>PG 0210</td>
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<td>RECOVERY_RELEASE_PGLock error</td>
<td>1 DFHPGRP parameter list</td>
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</table>

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<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
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<tbody>
<tr>
<td>PG 020C</td>
<td>DFHPGRP</td>
<td>Exc</td>
<td>RELEASE_PGLOCK error</td>
<td>DFHPGRP parameter list</td>
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<td>PG 020D</td>
<td>DFHPGRP</td>
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<td>GETMAIN_PGWE error</td>
<td>DFHPGRP parameter list</td>
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<td>DFHPGRP</td>
<td>Exc</td>
<td>SUSPEND error</td>
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<tr>
<td>PG 020F</td>
<td>DFHPGRP</td>
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<td>LOCATE_PPTE error</td>
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<td>PG 0300</td>
<td>DFHPGDD</td>
<td>PG 1 Entry</td>
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<td>PG 0301</td>
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<td>DFHPGDD</td>
<td>Exc</td>
<td>Recovery</td>
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<td>DFHPGDD</td>
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<td>DFHPGDD</td>
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<td>DFHPGDD</td>
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<td>Add entry failure</td>
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<tr>
<td>PG 0310</td>
<td>DFHPGDD</td>
<td>Exc</td>
<td>Catalog failure</td>
<td>DFHPGDD parameter list</td>
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<td>PG 0311</td>
<td>DFHPGDD</td>
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<td>Inquire system failure</td>
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<td>PG 0312</td>
<td>DFHPGDD</td>
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<td>Getmain PGWE error</td>
<td>DFHPGDD parameter list</td>
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<td>DFHPGDD</td>
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<td>Suspend error</td>
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<td>Locate_ppte_error</td>
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<td>Exc</td>
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<td>Exc</td>
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<td>Exc</td>
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Table 149. Program manager domain trace entries (continued)

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Table 150. Pipeline manager domain trace entries (continued)
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Table 150. Pipeline manager domain trace entries (continued)

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### Table 150. Pipeline manager domain trace entries (continued)

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### Chapter 29. Partner domain trace points

#### Table 151. Partner domain trace points

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Table 152. Recovery manager trace points (continued)

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Table 152. Recovery manager trace points (continued)

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<td>RM F209</td>
<td>DFHRMUW</td>
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<td>Call client</td>
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<td>Call client</td>
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<td>RM FA16</td>
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### Chapter 31. RRMS domain trace points

#### Table 153. RRMS domain trace entries

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<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
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<td>RX 0101</td>
<td>DFHRXDM</td>
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<td>Invalid format</td>
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<td>Invalid function</td>
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<td>GETMAIN failure</td>
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<td>RX 0106</td>
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<td>Inquire error</td>
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<td>INQUIRE LOGNAME error</td>
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<td>RX 0108</td>
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<td>SET LOGNAME error</td>
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<td>COMPARE LOGNAME error</td>
<td>RXDM parameter list</td>
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<td>RX 01A</td>
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<td>Event - start notification task</td>
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<tr>
<td>RX 01B</td>
<td>DFHRXDM</td>
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<td>Event - end notification task</td>
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<td>Event - start resynchronization task</td>
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<td>Event - start resynchronization task</td>
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<tr>
<td>RX 01E</td>
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<td>Event - Start restart task</td>
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<td>RX 01F</td>
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<td>Event - End restart task</td>
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<td>RX 0110</td>
<td>DFHRXDM</td>
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<td>Event - start RRS failure task</td>
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<tr>
<td>RX 0111</td>
<td>DFHRXDM</td>
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<td>Event - end RRS failure task</td>
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<tr>
<td>RX 0112</td>
<td>DFHRXDM</td>
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<td>Event - start resolving unmatched UOW links</td>
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<td>RX 0113</td>
<td>DFHRXDM</td>
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<td>Event - End resolving unmatched UOW links</td>
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<td>RX 0115</td>
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<td>Event - begin resynchronization of unit of recovery</td>
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<td>RX 0201</td>
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<td>RX 0302</td>
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<td>Wrong pass token</td>
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<td>Userid inconsistent</td>
<td>Incorrect userid, Expected userid</td>
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<td>TRANSID inconsistent</td>
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<td>DFHRXXRG</td>
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<td>DFHRXSVC</td>
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</table>

For **EXIT_FAILED exit**:
- Failed Exit number
- Exit Failure reason
- Abend code or return code
- Abend reason code

1 Exit number  
2 Unit of Recovery ID
3 Exit return code
1 Exit number
2 Global data
3 Reason exit is driven
1 Exit number
2 Exit return code
1 RRMS service
2 RRMS return code
### Chapter 32. Request streams domain trace points

#### Table 154. Request streams domain trace points

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<td>Entry</td>
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<td>DFHRZSO</td>
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<td>DFHRZSO</td>
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### Table 154. Request streams domain trace points (continued)

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Table 155. Scheduler domain trace points

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<td>Recovery</td>
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<td>Entry</td>
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<td>PAGP Get parameters call failed</td>
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<td>DFHSHRT2</td>
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<td>Entry</td>
<td>1 Response code</td>
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<td>DFHSHRT2</td>
<td>SH 2</td>
<td>Exit</td>
<td>1 Response code</td>
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<td>DFHSHRT2</td>
<td>Exc</td>
<td>Recovery</td>
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<td>Exc</td>
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<tr>
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<td>Exc</td>
<td>Failed to add request to pending queue</td>
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<td>Delete of a request from the pending queue failed</td>
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<td>Exc</td>
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<td>1 Response code</td>
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### Chapter 34. JVM domain trace points

#### Table 156. JVM domain trace points

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<th>Type</th>
<th>Data</th>
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<td>DFHSJDM</td>
<td>SJ 1</td>
<td>Exit</td>
<td>1</td>
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<td>DFHSJDM</td>
<td>Exc</td>
<td>Recovery</td>
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<td>DFHSJDM</td>
<td>Exc</td>
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<td>Exc</td>
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<td>DFHSJDM</td>
<td>Exc</td>
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<td>SJ 0107</td>
<td>DFHSJDM</td>
<td>Exc</td>
<td>No storage for sja</td>
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<tr>
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<td>Exc</td>
<td>No storage for stats</td>
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<td>DFHSJIN</td>
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<td>Entry</td>
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<td>DFHSJIN</td>
<td>Exc</td>
<td>Recovery</td>
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<td>DFHSJIN</td>
<td>Exc</td>
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<td>SJ 0205</td>
<td>DFHSJIN</td>
<td>Exc</td>
<td>Invalid SJIN functi</td>
<td>1</td>
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<td>DFHSJIN</td>
<td>Exc</td>
<td>Get lock error</td>
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<td>Exc</td>
<td>Release lock error</td>
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<td>Invalid DSAT function</td>
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<td>DFHSJIN</td>
<td>Exc</td>
<td>System exit from jvm</td>
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<td>DFHSJIN</td>
<td>Exc</td>
<td>Unknown fatal jvm error</td>
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<td>DFHSJIN</td>
<td>Exc</td>
<td>Invalid urm call</td>
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<tr>
<td>SJ 0210</td>
<td>DFHSJIN</td>
<td>Exc</td>
<td>Transaction abending</td>
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<tr>
<td>SJ 0211</td>
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<td>Transaction abended</td>
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<td>Exc</td>
<td>Jvm system exit</td>
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<tr>
<td>SJ 0213</td>
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<td>Unexpected abend</td>
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<td>Init sub dp failed</td>
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<td>Destroy jvm</td>
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<td>SJ 0221</td>
<td>DFHSJIN</td>
<td>SJ 2</td>
<td>Destroy enclave</td>
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<tr>
<td>SJ 0222</td>
<td>DFHSJIN</td>
<td>Exc</td>
<td>Reset jvm op streams</td>
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<tr>
<td>SJ 0223</td>
<td>DFHSJIN</td>
<td>Exc</td>
<td>Call sub 3 failed</td>
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<p>| #        | SJ 0225 | Exc | CEEPIPI runtime options too long | 1  |
| #        |        |    | Language Environment options from DFHJVMRO | 2  |
| #        |        |    | Language Environment options set by CICS | 2  |</p>
<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
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<th>Data</th>
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<td>Exc</td>
<td>Recovery</td>
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<td>Cancel task error1</td>
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<td>Cancel task error2</td>
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<td>Cancel task error3</td>
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<td>Delete all tcbs error</td>
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<td>Exc</td>
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<td>DFHSJIS</td>
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<td>Setting JVM trace option</td>
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<td>SJ 0408</td>
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<td>Release exc lock error</td>
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<td>Release shr lock error</td>
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<td>Sjsbld exit</td>
<td>1 CreateJVM return value</td>
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<td>DFHSJCS</td>
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<td>Sjcsbld entry</td>
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<td>Exc</td>
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<td>1 Directory name</td>
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Table 156. JVM domain trace points (continued)
### Table 156. JVM domain trace points (continued)

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<thead>
<tr>
<th>Point ID</th>
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<th>Lvl</th>
<th>Type</th>
<th>Data</th>
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<td>SJ 0509</td>
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<td>Createjvm before</td>
<td>1 Eyecatcher, 2 TM class path, 3 Eyecatcher, 4 Libpath, 5 Eyecatcher, 6 Classpath</td>
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<td>1 JVM token, 2 JNI Invokinterface structure, 3 JNI Nativeinterface token, 4 JNI Nativeinterface structure, 5 JNI Initargs structure</td>
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<td>DFHSJCS</td>
<td>Exc</td>
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<td>Before wrapper findclass</td>
<td>1 Wrapper class name</td>
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<td>After wrapper findclass</td>
<td>1 Wrapper class name</td>
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<td>Exc</td>
<td>Wrapper findclass failed</td>
<td>1 Eyecatcher, 2 TM class path</td>
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<td>DFHSJCS</td>
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<td>Before get method</td>
<td>1 Method name (Wrapper main if missing)</td>
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<td>1 Method name (Wrapper main if missing)</td>
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<td>DFHSJCS</td>
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<td>DFHSJCS</td>
<td>SJ 2</td>
<td>Executeclass before</td>
<td>1 Class name</td>
</tr>
<tr>
<td>SJ 0517</td>
<td>DFHSJCS</td>
<td>SJ 2</td>
<td>Executeclass after</td>
<td>1 Class name</td>
</tr>
<tr>
<td>SJ 0518</td>
<td>DFHSJCS</td>
<td>Exc</td>
<td>Wrapper exception</td>
<td>1 Exception code from ExceptionOccurred</td>
</tr>
<tr>
<td>SJ 0519</td>
<td>DFHSJCS</td>
<td>SJ 2</td>
<td>Resetjvm before</td>
<td>1 JVM token</td>
</tr>
<tr>
<td>SJ 051A</td>
<td>DFHSJCS</td>
<td>SJ 2</td>
<td>Resetjvm after</td>
<td>1 JVM token, 2 Return value</td>
</tr>
<tr>
<td>SJ 051B</td>
<td>DFHSJCS</td>
<td>SJ 2</td>
<td>Destroyjvm before</td>
<td>1 JVM token</td>
</tr>
<tr>
<td>SJ 051C</td>
<td>DFHSJCS</td>
<td>SJ 2</td>
<td>Destroyjvm after</td>
<td>1 JVM token, 2 Return value</td>
</tr>
<tr>
<td>SJ 051D</td>
<td>DFHSJCS</td>
<td>Exc</td>
<td>Destroyjvm failed</td>
<td>1 JVM token, 2 Return value</td>
</tr>
<tr>
<td>SJ 051F</td>
<td>DFHSJCS</td>
<td>Exc</td>
<td>Add recovery failed</td>
<td>1 Return code</td>
</tr>
<tr>
<td>SJ 0520</td>
<td>DFHSJCS</td>
<td>SJ 2</td>
<td>Before DFHJVMAT fetch</td>
<td>none</td>
</tr>
<tr>
<td>SJ 0521</td>
<td>DFHSJCS</td>
<td>SJ 2</td>
<td>After DFHJVMAT fetch</td>
<td>none</td>
</tr>
<tr>
<td>SJ 0522</td>
<td>DFHSJCS</td>
<td>SJ 2</td>
<td>Before invoking DFHJVMAT</td>
<td>none</td>
</tr>
<tr>
<td>SJ 0523</td>
<td>DFHSJCS</td>
<td>SJ 2</td>
<td>After invoking DFHJVMAT</td>
<td>none</td>
</tr>
<tr>
<td>SJ 0525</td>
<td>DFHSJCS</td>
<td>Exc</td>
<td>DLL load failed</td>
<td>1 Library name, 2 Error message</td>
</tr>
<tr>
<td>SJ 0526</td>
<td>DFHSJCS</td>
<td>SJ 2</td>
<td>Setvmargs entry</td>
<td>1 Eyecatcher</td>
</tr>
<tr>
<td>SJ 0527</td>
<td>DFHSJCS</td>
<td>SJ 2</td>
<td>Setvmargs exit</td>
<td>1 JNI Initargs structure, 3 Initargs options</td>
</tr>
<tr>
<td>SJ 0528</td>
<td>DFHSJCS</td>
<td>Exc</td>
<td>Invalid JVM profile line</td>
<td>1 Line from profile, 2 JVM profile name</td>
</tr>
<tr>
<td>Point ID</td>
<td>Module</td>
<td>Lvl</td>
<td>Type</td>
<td>Data</td>
</tr>
<tr>
<td>----------</td>
<td>------------</td>
<td>-----</td>
<td>-----------------------------------</td>
<td>-------------------------------------------</td>
</tr>
<tr>
<td>SJ 0529</td>
<td>DFHSJCS</td>
<td>Exc</td>
<td>DFHJVMAT fetch failed</td>
<td>none</td>
</tr>
<tr>
<td>SJ 052A</td>
<td>DFHSJCS</td>
<td>Exc</td>
<td>Work directory readonly</td>
<td>1 Directory name</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 Requested STDOUT or STDERR name</td>
</tr>
<tr>
<td>SJ 052B</td>
<td>DFHSJCS</td>
<td>SJ1</td>
<td>Reset STDOUT/STDERR entry</td>
<td>none</td>
</tr>
<tr>
<td>SJ 052C</td>
<td>DFHSJCS</td>
<td>SJ1</td>
<td>Reset STDOUT/STDERR exit</td>
<td>none</td>
</tr>
<tr>
<td>SJ 052D</td>
<td>DFHSJCS</td>
<td>SJ2</td>
<td>Set JVM trace entry</td>
<td>none</td>
</tr>
<tr>
<td>SJ 052E</td>
<td>DFHSJCS</td>
<td>SJ2</td>
<td>Set JVM trace option</td>
<td>1 Trace option</td>
</tr>
<tr>
<td>SJ 052F</td>
<td>DFHSJCS</td>
<td>Exc</td>
<td>Set JVM trace: Error getting memory for trace options</td>
<td>Amount of memory requested</td>
</tr>
<tr>
<td>SJ 0530</td>
<td>DFHSJCS</td>
<td>Exc</td>
<td>Set JVM trace: Error calling JNI for RAS functions</td>
<td>1 JNI return code</td>
</tr>
<tr>
<td>SJ 0531</td>
<td>DFHSJCS</td>
<td>Exc</td>
<td>Set JVM trace: Error calling set trace RAS function</td>
<td>1 JNI return code</td>
</tr>
<tr>
<td>SJ 0532</td>
<td>DFHSJCS</td>
<td>SJ2</td>
<td>Set JVM trace exit</td>
<td>none</td>
</tr>
<tr>
<td>SJ 0534</td>
<td>DFHSJCS</td>
<td>SJ1</td>
<td>Environment variable unrecognized</td>
<td>1 Environment variable</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 JVM profile</td>
</tr>
<tr>
<td>SJ 0601</td>
<td>DFHSJCC</td>
<td>SJ1</td>
<td>Entry</td>
<td>1 SJCC parameter list</td>
</tr>
<tr>
<td>SJ 0602</td>
<td>DFHSJCC</td>
<td>SJ1</td>
<td>Exit</td>
<td>1 SJCC parameter list</td>
</tr>
<tr>
<td>SJ 0603</td>
<td>DFHSJCC</td>
<td>Exc</td>
<td>Recovery</td>
<td>1 SJCC parameter list</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 Kernel error data</td>
</tr>
<tr>
<td>SJ 0604</td>
<td>DFHSJCC</td>
<td>Exc</td>
<td>Invalid format</td>
<td>1 SJCC parameter list</td>
</tr>
<tr>
<td>SJ 0605</td>
<td>DFHSJCC</td>
<td>Exc</td>
<td>Invalid function</td>
<td>1 SJCC parameter list</td>
</tr>
<tr>
<td>SJ 0606</td>
<td>DFHSJCC</td>
<td>Exc</td>
<td>Get lock error</td>
<td>1 SJCC parameter list</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 LMLM parameter list</td>
</tr>
<tr>
<td>SJ 0607</td>
<td>DFHSJCC</td>
<td>Exc</td>
<td>Release lock error</td>
<td>1 SJCC parameter list</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 LMLM parameter list</td>
</tr>
<tr>
<td>SJ 0608</td>
<td>DFHSJCC</td>
<td>Exc</td>
<td>DFHSJJM attach failed</td>
<td>1 SJCC parameter list</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 XMAT parameter list</td>
</tr>
<tr>
<td>SJ 0609</td>
<td>DFHSJCC</td>
<td>SJ2</td>
<td>Stop JVMset</td>
<td>1 Termination type</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 Address of SJVMS_CE control block</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3 Address of SJVMS control block</td>
</tr>
<tr>
<td>SJ 060A</td>
<td>DFHSJCC</td>
<td>SJ2</td>
<td>Wait ECB</td>
<td>1 ECB ptr</td>
</tr>
<tr>
<td>SJ 060B</td>
<td>DFHSJCC</td>
<td>SJ2</td>
<td>Post ECB</td>
<td>1 ECB ptr</td>
</tr>
<tr>
<td>SJ 060C</td>
<td>DFHSJCC</td>
<td>SJ2</td>
<td>Resume waiters</td>
<td>none</td>
</tr>
<tr>
<td>SJ 060D</td>
<td>DFHSJCC</td>
<td>Exc</td>
<td>Invalid shared class cache state</td>
<td>1 SJCC parameter list</td>
</tr>
<tr>
<td>SJ 060E</td>
<td>DFHSJCC</td>
<td>Exc</td>
<td>Purge exception known to SJ</td>
<td>1 XMIQ parameter list</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 Task number</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3 Tranid</td>
</tr>
<tr>
<td>SJ 060F</td>
<td>DFHSJCC</td>
<td>Exc</td>
<td>Purge exception not known to SJ</td>
<td>1 SJCC parameter list</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 XMIQ parameter list</td>
</tr>
<tr>
<td>SJ 0610</td>
<td>DFHSJCC</td>
<td>Exc</td>
<td>Purge fails for other reason</td>
<td>1 SJCC parameter list</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 XMIQ parameter list</td>
</tr>
<tr>
<td>SJ 0611</td>
<td>DFHSJCC</td>
<td>Exc</td>
<td>Wait MVS error</td>
<td>1 SJCC parameter list</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 DSSR parameter list</td>
</tr>
<tr>
<td>SJ 0701</td>
<td>DFHSJJM</td>
<td>SJ1</td>
<td>Entry</td>
<td>none</td>
</tr>
<tr>
<td>SJ 0702</td>
<td>DFHSJJM</td>
<td>SJ1</td>
<td>Exit</td>
<td>none</td>
</tr>
<tr>
<td>SJ 0703</td>
<td>DFHSJJM</td>
<td>Exc</td>
<td>Invalid start type</td>
<td>1 Start code (see note below)</td>
</tr>
</tbody>
</table>

**Note:** SJ 0703 shows a numeric value for START_CODE, returned from XMIQ. The numeric value represents a start code as follows: 1=C, 2=T, 3=TT, 4=QD, 5=S, 6=SD, 7=SZ and 8=DF. The meaning of these start codes is as follows: C=CICS internal attach, T=Terminal initiated, TT=Preset transid on terminal, QD=TD trigger, S=START without data, SD=START with data, SZ=FEPI and DF=Unknown.

SJ 0704  DFHSJJM  Exc  Add TCB failed  none
Table 156. JVM domain trace points (continued)

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>SJ 0705</td>
<td>DFHSJJM</td>
<td>Exc</td>
<td>Change mode failed</td>
<td>none</td>
</tr>
<tr>
<td>SJ 0706</td>
<td>DFHSJJM</td>
<td>Exc</td>
<td>Restore mode failed</td>
<td>none</td>
</tr>
<tr>
<td>SJ 0707</td>
<td>DFHSJJM</td>
<td>Exc</td>
<td>Delete TCB failed</td>
<td>none</td>
</tr>
<tr>
<td>SJ 0708</td>
<td>DFHSJJM</td>
<td>Exc</td>
<td>Init_sub_dp failed</td>
<td>none</td>
</tr>
<tr>
<td>SJ 0709</td>
<td>DFHSJJM</td>
<td>Exc</td>
<td>Call_sub failed</td>
<td>none</td>
</tr>
<tr>
<td>SJ 070A</td>
<td>DFHSJJM</td>
<td>Exc</td>
<td>Term failed</td>
<td>none</td>
</tr>
<tr>
<td># SJ 070B</td>
<td>DFHSJJM</td>
<td>Exc</td>
<td>CEEPIPI runtime options too long</td>
<td>1 Language Environment options from DFHJVMRO</td>
</tr>
<tr>
<td>#</td>
<td></td>
<td></td>
<td></td>
<td>2 Language Environment options set by CICS</td>
</tr>
<tr>
<td>#</td>
<td></td>
<td></td>
<td></td>
<td>3 JVM profile for master JVM</td>
</tr>
<tr>
<td>#</td>
<td></td>
<td></td>
<td></td>
<td>4 Classcache size</td>
</tr>
<tr>
<td>SJ 0801</td>
<td>DFHSJL</td>
<td>SJ 1 Entry</td>
<td>SJVMS token</td>
<td>1</td>
</tr>
<tr>
<td>SJ 0802</td>
<td>DFHSJL</td>
<td>SJ 1 Exit</td>
<td>DFHSJL return code</td>
<td>1</td>
</tr>
<tr>
<td>SJ 0803</td>
<td>DFHSJL</td>
<td>SJ 2 Create master</td>
<td>VM arguments</td>
<td>1</td>
</tr>
<tr>
<td>SJ 0804</td>
<td>DFHSJL</td>
<td>Exc Create JVM failed</td>
<td>Return code</td>
<td>1</td>
</tr>
<tr>
<td>SJ 0805</td>
<td>DFHSJL</td>
<td>SJ 2 Destroyed master</td>
<td>Return code</td>
<td>1</td>
</tr>
<tr>
<td>SJ 0806</td>
<td>DFHSJL</td>
<td>Exc DLL load failed</td>
<td>none</td>
<td>1</td>
</tr>
<tr>
<td>SJ 0807</td>
<td>DFHSJL</td>
<td>Exc Change directory failed</td>
<td>Home directory</td>
<td>1</td>
</tr>
<tr>
<td>SJ 4D00</td>
<td>JVM</td>
<td>Exc DFHAPJVMT plug-in failed</td>
<td>Error string</td>
<td>2</td>
</tr>
<tr>
<td>SJ 4D01¹</td>
<td>JVM</td>
<td>SJ JVM trace point TPID-xxxxxx²</td>
<td>Series of 4-byte return codes built up during plug-in initialization formatted as binary data</td>
<td>1</td>
</tr>
</tbody>
</table>

Notes:

1. Every JVM trace entry that is produced by any JVM in the CICS region, generates an instance of this CICS trace entry.

2. If JVM trace is activated by setting trace levels 29–32 for the SJ component, JVM trace is produced from the point when CICS starts to use or reuse the JVM. JVM trace can also be activated using the IBM.dg.trc.external system property for a JVM, in which case JVM trace is produced from the time when the JVM starts up. See "Controlling tracing for JVMs in Java Applications in CICS" for more information about controlling JVM trace.

3. xxxxxx represents the hex JVM trace point ID (offset 6–8 in data). The formatted JVM trace point data is presented as: ThreadID(<P or *>,<JNI ENV Pointer>), where:
   - P indicates that the thread is prime (CICS TCB), and * indicates that the thread is other (offset 4 in data)
   - JNI ENV Pointer is a unique address representing the thread (offset 0–3 in data).

The rest of the data relates to the JVM trace point. Binary data is in hex. Strings are delimited by double quotes and converted from ASCII to EBCDIC (offset 9 onwards in data).

### Chapter 35. Storage manager domain trace points

#### Table 157. Storage manager domain trace points

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>SM 0101</td>
<td>DFHSMDM</td>
<td>SM 1</td>
<td>Entry</td>
<td>DMDM parameter list</td>
</tr>
<tr>
<td>SM 0102</td>
<td>DFHSMDM</td>
<td>SM 1</td>
<td>Exit</td>
<td>DMDM parameter list</td>
</tr>
<tr>
<td>SM 0103</td>
<td>DFHSMDM</td>
<td>SM 1</td>
<td>Recovery</td>
<td>DMDM parameter list</td>
</tr>
<tr>
<td>SM 0104</td>
<td>DFHSMDM</td>
<td>SM 1</td>
<td>Exit</td>
<td>Insufficient MVS storage</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>for SMA</td>
<td>SMX</td>
</tr>
<tr>
<td>SM 0109</td>
<td>DFHSMDM</td>
<td>SM 1</td>
<td>Exit</td>
<td>Insufficient MVS storage</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>for SCA</td>
<td>SMX</td>
</tr>
<tr>
<td>SM 010A</td>
<td>DFHSMDM</td>
<td>SM 1</td>
<td>Exit</td>
<td>Insufficient MVS storage</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>for SCQ</td>
<td>SMX</td>
</tr>
<tr>
<td>SM 010C</td>
<td>DFHSMDM</td>
<td>SM 1</td>
<td>Exit</td>
<td>MVS store clock failure</td>
</tr>
<tr>
<td>SM 010D</td>
<td>DFHSMDM</td>
<td>SM 1</td>
<td>Exit</td>
<td>Insufficient MVS storage</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>for STAB</td>
<td>SMX</td>
</tr>
<tr>
<td>SM 010E</td>
<td>DFHSMDM</td>
<td>SM 1</td>
<td>Exit</td>
<td>Insufficient storage SMX</td>
</tr>
<tr>
<td>SM 010F</td>
<td>DFHSMDM</td>
<td>SM 1</td>
<td>Exit</td>
<td>Invalid format</td>
</tr>
<tr>
<td>SM 0110</td>
<td>DFHSMDM</td>
<td>SM 1</td>
<td>Exit</td>
<td>Invalid function</td>
</tr>
<tr>
<td>SM 0111</td>
<td>DFHSMDM</td>
<td>SM 1</td>
<td>Exc</td>
<td>DSALIMIT GETMAIN request</td>
</tr>
<tr>
<td>SM 0112</td>
<td>DFHSMDM</td>
<td>SM 1</td>
<td>Exc</td>
<td>EDSALIMIT GETMAIN request</td>
</tr>
<tr>
<td>SM 0113</td>
<td>DFHSMDM</td>
<td>SM 1</td>
<td>Exc</td>
<td>DSALIMIT default GETMAIN</td>
</tr>
<tr>
<td>SM 0114</td>
<td>DFHSMDM</td>
<td>SM 1</td>
<td>Exc</td>
<td>EDSALIMIT default GETMAIN</td>
</tr>
<tr>
<td>SM 0115</td>
<td>DFHSMDM</td>
<td>SM 1</td>
<td>Exc</td>
<td>SVC call failed</td>
</tr>
<tr>
<td>SM 0201</td>
<td>DFHSMAD</td>
<td>SM 1</td>
<td>Entry</td>
<td>SMAD parameter list</td>
</tr>
<tr>
<td>SM 0202</td>
<td>DFHSMAD</td>
<td>SM 1</td>
<td>Exit</td>
<td>SMAD parameter list</td>
</tr>
<tr>
<td>SM 0203</td>
<td>DFHSMAD</td>
<td>SM 1</td>
<td>Recovery</td>
<td>SMAD parameter list</td>
</tr>
<tr>
<td>SM 0204</td>
<td>DFHSMAD</td>
<td>SM 1</td>
<td>Exit</td>
<td>Invalid format</td>
</tr>
<tr>
<td>SM 0205</td>
<td>DFHSMAD</td>
<td>SM 1</td>
<td>Exit</td>
<td>Invalid function</td>
</tr>
<tr>
<td>SM 0206</td>
<td>DFHSMAD</td>
<td>SM 1</td>
<td>Exit</td>
<td>Insufficient MVS storage</td>
</tr>
<tr>
<td>SM 0207</td>
<td>DFHSMAD</td>
<td>SM 1</td>
<td>Ex</td>
<td>Subpool not empty</td>
</tr>
<tr>
<td>SM 0208</td>
<td>DFHSMAD</td>
<td>SM 1</td>
<td>Exit</td>
<td>Invalid subpool token</td>
</tr>
<tr>
<td>SM 0301</td>
<td>DFHSMGF</td>
<td>SM 1</td>
<td>Entry</td>
<td>SCA name</td>
</tr>
<tr>
<td>SM 0302</td>
<td>DFHSMGF</td>
<td>SM 1</td>
<td>Exit</td>
<td>SCA name</td>
</tr>
<tr>
<td>SM 0303</td>
<td>DFHSMGF</td>
<td>SM 1</td>
<td>Recovery</td>
<td>SCA name</td>
</tr>
<tr>
<td>SM 0304</td>
<td>DFHSMGF</td>
<td>SM 1</td>
<td>Exit</td>
<td>Invalid function</td>
</tr>
<tr>
<td>SM 0305</td>
<td>DFHSMGF</td>
<td>SM 1</td>
<td>Exit</td>
<td>Invalid address</td>
</tr>
<tr>
<td>SM 0306</td>
<td>DFHSMGF</td>
<td>SM 1</td>
<td>Exit</td>
<td>Insufficient MVS storage</td>
</tr>
<tr>
<td>SM 030A</td>
<td>DFHSMGF</td>
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<td>SAA address not on 8-byte boundary</td>
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<td>SAA address not in DSA</td>
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<td>SAA address not in page owned by subpool</td>
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<td>SM 0D19</td>
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<td>EXIT - storage freeze active</td>
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<td>Insufficient storage for SCAs</td>
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Table 157. Storage manager domain trace points (continued)

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### Table 157. Storage manager domain trace points (continued)

| Point ID | Module   | Lvl | Type                          | Data                                      |
|----------|----------|-----|-----|-----------------------------|------------------------------------------|
| SM 1206  | DFHSMPQ  | Exc | Insufficient storage for req | 1  SMPQ parameter list                   |
|          |          |     |                               | 2  Subpool name                           |
|          |          |     |                               | 2  DSA name                               |
| SM 1207  | DFHSMPQ  | Exc | Invalid address               | 1  SMPQ parameter list                   |
| SM 1208  | DFHSMPQ  | Exc | Insufficient storage for CTN  | 1  SMPQ parameter list                   |
| SM 1209  | DFHSMPQ  |     | Before SVC call               | 1  SMAF parameter list                   |
| SM 120A  | DFHSMPQ  |     | After SVC call                | 1  SMAF parameter list                   |
| SM 120B  | DFHSMPQ  | Exc | SVC call failed               | 1  SMPQ parameter list                   |

The following notes apply to trace points SM 1301 to SM 1307:

1. These trace points are produced only if GTF trace is active. They are not affected by the SM domain trace levels.
2. SMVA status includes: cushion address, size and breach status; threshold address, size and breach status; waiter count and high water mark of waiters.

<p>| SM 1301  | DFHSMVP  | n/a | Getmain entry                | 1  SMVA status                           |
|          |          |     |                               | 2  Request data (length, subpool, flags) |
| SM 1302  | DFHSMVP  | n/a | Getmain exit                  | 1  SMVA status                           |
|          |          |     |                               | 2  Request data (length, subpool, flags) |
| SM 1303  | DFHSMVP  | n/a | Freemain entry                | 1  SMVA status                           |
|          |          |     |                               | 2  Request data (length, subpool, address) |
| SM 1304  | DFHSMVP  | n/a | Freemain exit                 | 1  SMVA status                           |
|          |          |     |                               | 2  Request data (length, subpool, address) |
| SM 1305  | DFHSMVP  | n/a | Before wait                   | 1  SMVA status                           |
|          |          |     |                               | 2  Contents of SMVW wait control block   |
| SM 1306  | DFHSMVP  | n/a | Wait complete                 | 1  SMVA status                           |
|          |          |     |                               | 2  Contents of SMVW wait control block   |
| SM 1307  | DFHSMVP  | n/a | Abend                         | 1  Abend code, registers and psw         |
| SM 1401  | DFHSMVN  | SM 1| Entry                         | 1  DSAT parameter list                   |
| SM 1402  | DFHSMVN  | SM 1| Exit                          | 1  DSAT parameter list                   |
| SM 1403  | DFHSMVN  | Exc | Recovery                      | 1  DSAT parameter list                   |
|          |          |     |                               | 2  Kernel error data                     |
| SM 1404  | DFHSMVN  | Exc | Invalid format                | 1  DSAT parameter list                   |
| SM 1405  | DFHSMVN  | Exc | Invalid function              | 1  DSAT parameter list                   |
| SM 1408  | DFHSMVN  | SM 1| Before wait                   | none                                     |
| SM 1409  | DFHSMVN  | SM 1| After post                    | none                                     |
| SM 140A  | DFHSMVN  | Exc | MVS storage constrained       | none                                     |
| SM 140B  | DFHSMVN  | Exc | MVS storage not constrained   | none                                     |
| SM 140C  | DFHSMVN  | Exc | MVS storage severely constrained | none                                      |
| SM 140D  | DFHSMVN  | Exc | MVS storage not severely constrained | none                                      |
| SM 3001  | DFHSMSU  | SM 2| Entry                         | 1  SMSU parameter list                   |
| SM 3002  | DFHSMSU  | SM 2| Exit                          | 1  SMSU parameter list                   |
| SM 3003  | DFHSMSU  |     | Recovery                      | 1  SMSU parameter list                   |
|          |          |     |                               | 2  Kernel error data                     |
| SM 3004  | DFHSMSU  | Exc | Invalid function              | 1  SMSU parameter list                   |
| SM 3005  | DFHSMSU  | Exc | Invalid format                | 1  SMSU parameter list                   |
| SM 3006  | DFHSMSU  | Exc | MVS getmain SUA failure       | 1  SMSU parameter list                   |
| SM 3007  | DFHSMSU  | Exc | ALESERV add failure           | 1  SMSU parameter list                   |
| SM 3008  | DFHSMSU  | Exc | Invalid TCB for allocate      | 1  SMSU parameter list                   |
| SM 3009  | DFHSMSU  | SM 2| Event - pre subspace create   | 1  SMSU parameter list                   |
| SM 300A  | DFHSMSU  | SM 2| Event - post subspace create  | 1  SMSU parameter list                   |</p>
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### Chapter 36. Socket domain trace points

#### Table 158. Socket domain trace points

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Chapter 36. Socket domain trace points 491
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### Chapter 37. Statistics domain trace points

#### Table 159. Statistics domain trace points

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<th>Point ID</th>
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<th>Data</th>
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<td>Notify TOD error</td>
<td>TISR parameter list</td>
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Table 159. Statistics domain trace points (continued)

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### Chapter 38. Timer domain trace points

Table 160. Timer domain trace points

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<th>Module</th>
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<th>Type</th>
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<td>TI 0101</td>
<td>DFHTISR</td>
<td>Ti 1</td>
<td>Exit</td>
<td>1 TISR, KETI, or DSAT</td>
</tr>
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<td>DFHTISR</td>
<td>Exc</td>
<td>Invalid domain call</td>
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<td>Exc</td>
<td>Invalid format number</td>
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<td>DFHTISR</td>
<td>Exc</td>
<td>Invalid interval</td>
<td>1 TISR parameter list</td>
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<td>DFHTISR</td>
<td>Exc</td>
<td>Invalid token</td>
<td>1 TISR parameter list</td>
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<td>TI 0154</td>
<td>DFHTISR</td>
<td>Exc</td>
<td>Input TOD too late</td>
<td>1 TISR parameter list</td>
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<td>TI 0160</td>
<td>DFHTISR</td>
<td>Exc</td>
<td>Recovery</td>
<td>1 TISR parameter list</td>
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<tr>
<td>TI 0161</td>
<td>DFHTISR</td>
<td>Exc</td>
<td>Store clock error</td>
<td>1 TISR, KETI, or DSAT</td>
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<td>2 Store clock value</td>
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<td>TI 0162</td>
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<td>Exc</td>
<td>Unable to attach task</td>
<td>1 DSAT parameter list</td>
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<td>2 Timer request element</td>
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## Chapter 39. Trace domain trace points

**Table 161. Trace domain trace points**

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
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</thead>
<tbody>
<tr>
<td>TR 0001</td>
<td>DFHTRDM</td>
<td>TR 1</td>
<td>Entry</td>
<td>DFHTRAP activation failed</td>
</tr>
<tr>
<td></td>
<td></td>
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<td>1  DMDM parameter list</td>
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<td>TR 0002</td>
<td>DFHTRDM</td>
<td>TR 1</td>
<td>Exit</td>
<td>DFHTRAP activation failed</td>
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<tr>
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<td></td>
<td></td>
<td></td>
<td>1  DMDM parameter list</td>
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<td>TR 0003</td>
<td>DFHTRDM</td>
<td>Exc</td>
<td>Recovery</td>
<td>DFHTRAP activation failed</td>
</tr>
<tr>
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<td>1  DMDM parameter list</td>
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<td>DFHTRDM</td>
<td>Exc</td>
<td>Recovery</td>
<td>DFHTRAP activation failed</td>
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<td></td>
<td></td>
<td></td>
<td>1  DMDM parameter list</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2  Kernel error data</td>
</tr>
<tr>
<td>TR 0101</td>
<td>DFHTRPT</td>
<td>Exc</td>
<td>Overlength entry</td>
<td>DFHTRAP activation failed</td>
</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td>1  Calling domain index</td>
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<tr>
<td>TR 0102</td>
<td>DFHTRPT</td>
<td>Exc</td>
<td>Bad data passed</td>
<td>DFHTRAP activation failed</td>
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<td>1  Calling domain index</td>
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<tr>
<td>TR 0103</td>
<td>DFHTRPT</td>
<td>n/a</td>
<td>DFHTRAP requested entry</td>
<td>DFHTRAP activation failed</td>
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<td></td>
<td></td>
<td></td>
<td>1  User specified data</td>
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<td>TR 0201</td>
<td>DFHTRSR</td>
<td>TR 1</td>
<td>Entry</td>
<td>TRSR parameter list</td>
</tr>
<tr>
<td>TR 0202</td>
<td>DFHTRSR</td>
<td>TR 1</td>
<td>Exit</td>
<td>TRSR parameter list</td>
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<tr>
<td>TR 0203(^1)</td>
<td>DFHTRSR</td>
<td>TR 1</td>
<td>Exit</td>
<td>TRSR or KETI parameter list</td>
</tr>
<tr>
<td>TR 0204</td>
<td>DFHTRSR</td>
<td>Exc</td>
<td>Recovery</td>
<td>TRSR or KETI parameter list</td>
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<td>TR 0205</td>
<td>DFHTRSR</td>
<td>Exc</td>
<td>Aux open failed</td>
<td>TRSR parameter list</td>
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<td>TR 0206</td>
<td>DFHTRSR</td>
<td>Exc</td>
<td>Aux buffer GETMAIN failed</td>
<td>TRSR parameter list</td>
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<td>TR 0207</td>
<td>DFHTRSR</td>
<td>Exc</td>
<td>DFHTRAP activation failed</td>
<td>TRSR parameter list</td>
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<td>TR 0208</td>
<td>DFHTRSR</td>
<td>Exc</td>
<td>Invalid autoswitch status</td>
<td>TRSR parameter list</td>
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<tr>
<td>TR 0209</td>
<td>DFHTRSR</td>
<td>Exc</td>
<td>Table size increase failed</td>
<td>TRSR parameter list</td>
</tr>
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<td>TR 0220</td>
<td>DFHTRSR</td>
<td>TR 1</td>
<td>Before aux buffer GETMAIN</td>
<td>GETMAIN parameter list</td>
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<td>TR 0221</td>
<td>DFHTRSR</td>
<td>TR 1</td>
<td>After aux buffer GETMAIN</td>
<td>Address of aux buffer</td>
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<tr>
<td>TR 0230</td>
<td>DFHTRSR</td>
<td></td>
<td>TR time reset</td>
<td>New time base</td>
</tr>
<tr>
<td>TR 0301</td>
<td>DFHTRSU</td>
<td>TR 1</td>
<td>Entry</td>
<td>TRSU parameter list</td>
</tr>
<tr>
<td>TR 0302</td>
<td>DFHTRSU</td>
<td>TR 1</td>
<td>Exit</td>
<td>TRSU parameter list</td>
</tr>
<tr>
<td>TR 0304</td>
<td>DFHTRSU</td>
<td>Exc</td>
<td>GTF buffer GETMAIN failed</td>
<td>TRSU parameter list</td>
</tr>
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\(^1\) The function time-base-reset is always traced from Point ID TR 0203, even when TR level 1 tracing is not selected.
### Chapter 40. Temporary storage domain trace points

Table 162. Temporary storage domain trace points

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
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</thead>
<tbody>
<tr>
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<td>DFHTSDM</td>
<td>TS 1</td>
<td>Entry</td>
<td>1 DMDM parameter list</td>
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<td>DFHTSDM</td>
<td>TS 1</td>
<td>Exit</td>
<td>1 DMDM parameter list</td>
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<td>DFHTSDM</td>
<td>Exc</td>
<td>Recovery entered</td>
<td>1 DMDM parameter list</td>
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<td>DFHTSDM</td>
<td>Exc</td>
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<td>DFHTSDM</td>
<td>Exc</td>
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<td>DFHTSQR</td>
<td>TS 1</td>
<td>Entry</td>
<td>1 TSQR parameter list</td>
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<tr>
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<td>DFHTSQR</td>
<td>TS 1</td>
<td>Exit</td>
<td>1 TSQR parameter list</td>
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<td>DFHTSQR</td>
<td>Exc</td>
<td>Recovery entered</td>
<td>1 TSQR parameter list</td>
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<td>Invalid function</td>
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<td>Exc</td>
<td>Unlock error in recovery</td>
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<td>DFHTSPT</td>
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<td>Entry</td>
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<td>DFHTSPT</td>
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<td>Exit</td>
<td>1 TSPT parameter list</td>
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<td>Entry</td>
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<td>Lvl</td>
<td>Type</td>
<td>Data</td>
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<td>Entry</td>
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<td>Unlock error in recovery</td>
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<td>TS 0807</td>
<td>DFHTSWQ</td>
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<td>DSSR inquire suspend</td>
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<td>Before suspend</td>
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<td>DFHTSWQ</td>
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<td>After suspend</td>
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<td>TS 0901</td>
<td>DFHTSAM</td>
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<td>Entry</td>
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<td>TS 0902</td>
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<td>Exit</td>
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<td>DFHTSAM</td>
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<td>TSAM parameter list</td>
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<td>DFHTSAM</td>
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<td>Invalid function</td>
<td>TSAM parameter list</td>
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<td>DFHTSAM</td>
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<td>DFHTSAM</td>
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<td>DFHTSAM</td>
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### Table 162. Temporary storage domain trace points (continued)

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## Chapter 41. User domain trace points

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## Chapter 42. Web domain trace points

### Table 164. Web domain trace points

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<td>Read header data</td>
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Table 164. Web domain trace points (continued)

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Chapter 43. Transaction manager domain trace points

Table 165. Transaction manager domain trace entries

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### Table 165. Transaction manager domain trace entries (continued)

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### Table 165. Transaction manager domain trace entries (continued)

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|         |        |     |                  | 2 LMLM parameter list |
| XM 131A | DFHXMTA | XM 2 |TXN control block | 1 TXN control block |
| XM 1401 | DFHXMXE | XM 1 | Entry | 1 XMXE parameter list |
| XM 1402 | DFHXMXE | XM 1 | Exit | 1 XMXE parameter list |
| XM 1403 | DFHXMXE | Exc | Invalid format | 1 Invalid parameter list |
| XM 1404 | DFHXMXE | Exc | Invalid function | 1 XMXE parameter list |
| XM 1405 | DFHXMXE | Exc | LMLM Lock error | 1 XMXE parameter list  
|         |        |     |                  | 2 LMLM parameter list |
| XM 1406 | DFHXMXE | Exc | Recovery | 1 XMXE parameter list  
|         |        |     |                  | 2 Kernel error data |
| XM 1407 | DFHXMXE | Exc | Internal logic error | 1 XMXE parameter list |
| XM 1408 | DFHXMXE | Exc | Internal logic error | 1 XMXE parameter list |
| XM 1409 | DFHXMXE | Exc | LMLM Unlock error | 1 XMXE parameter list  
|         |        |     |                  | 2 LMLM parameter list |
| XM 1511 | DFHXMRM | XM 1 | Entry | 1 Access ID |
|         |        |     |                  | 2 Link ID |
| XM 1512 | DFHXMRM | XM 1 | Exit | 1 Access ID |
|         |        |     |                  | 2 Link ID |
| XM 1513 | DFHXMRM | Exc | Recovery | 1 XMRM parameter list |
## Chapter 44. Security manager trace points

### Table 166. Security manager trace entries

<table>
<thead>
<tr>
<th>Point ID</th>
<th>Module</th>
<th>Lvl</th>
<th>Type</th>
<th>Data</th>
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<td>XS 0101</td>
<td>DFHXDM</td>
<td>XS 1</td>
<td>Entry</td>
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<td>DFHXDM</td>
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<td>Exit</td>
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<td>DFHXDM</td>
<td>Exc</td>
<td>Recovery</td>
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<td>Exc</td>
<td>Invalid format</td>
<td>DFHXDM parameter list</td>
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<td>Lock error</td>
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<td>Unlock error</td>
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<td>No storage for security domain anchor block</td>
<td>DFHXDM parameter list</td>
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<td>Exc</td>
<td>Initialization did not find SIT parms for security domain</td>
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<td>Extract lock error</td>
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<td>Extract unlock error</td>
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<td>Rebuild lock error</td>
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<td>DFHXSIS</td>
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<td>DFHXSIS parameter list</td>
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<td>DFHXSXM</td>
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<td>Entry</td>
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<td>DFHXSXM</td>
<td>XS 1</td>
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<td>GETMAIN failure</td>
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<td>DFHXSFL parameter list</td>
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<td>XS 0506</td>
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<td>DFHXSFL parameter list</td>
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<td>XS 0601</td>
<td>DFHXSPW</td>
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<td>XS 0602</td>
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<td>Exit</td>
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### Table 166. Security manager trace entries (continued)

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<td>2  Kernel error data</td>
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<td>XS 0604</td>
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<td>1  DFHXSPW parameter list</td>
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<td>DFHXSPW</td>
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<td>Invalid function</td>
<td>1  DFHXSPW parameter list</td>
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<td>CICS SVC failure</td>
<td>1  DFHXSPW parameter list</td>
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<td>XS 0607</td>
<td>DFHXSPW</td>
<td>Exc</td>
<td>DFHXSSD failure</td>
<td>1  DFHXSPW parameter list</td>
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<td>DFHXSRC</td>
<td>XS 1</td>
<td>Entry</td>
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<td>DFHXSRC</td>
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<td>Exit</td>
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<td>XS 0703</td>
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<td>Recovery</td>
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<td>DFHXSRC</td>
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<td>1  DFHXSRC parameter list</td>
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<td>DFHXSRC</td>
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<td>Lock error</td>
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<td>Unlock error</td>
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<td>Dispatcher error</td>
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<td>Resource check exit</td>
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<td>3  Userid</td>
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<td>3  Userid</td>
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<td>DFHXSRC</td>
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<td>XS 0801</td>
<td>DFHXSLU</td>
<td>XS 1</td>
<td>Entry</td>
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<td>XS 0802</td>
<td>DFHXSLU</td>
<td>XS 1</td>
<td>Exit</td>
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<td>DFHXSLU</td>
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<td>1  DFHXSLU parameter list</td>
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<td>EXTRACT error in CICS SVC</td>
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<td>Exc</td>
<td>CICS SVC error</td>
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<td>1  DFHXSLU parameter list</td>
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<td># XS 0901</td>
<td>DFHXSEJ</td>
<td>XS 2</td>
<td>Entry</td>
<td>1  XSEJ parameter list</td>
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<td># XS 0902</td>
<td>DFHXSEJ</td>
<td>XS 2</td>
<td>Exit</td>
<td>1  XSEJ parameter list</td>
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<td>DFHXSEJ</td>
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<td>1  XSEJ parameter list</td>
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<td>1  XSEJ parameter list</td>
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<td>DFHXSEJ</td>
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<td>IRRSDL00 entry</td>
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<td>FASTAUTH entry</td>
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<td>2  EJB role prefix</td>
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<td>3  Application name</td>
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Table 166. Security manager trace entries (continued)

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<th>Point ID</th>
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<th>Type</th>
<th>Data</th>
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<td>FASTAUTH exit</td>
<td>1  External security manager parameter list</td>
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<td>2  External security manager responses</td>
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<td>DFHXSEJ</td>
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<td>Simple match</td>
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<td>3  Match role</td>
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<td>Wildcard match</td>
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<td>4  Application name</td>
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<td>5  Method name</td>
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<td>DFHXSEJ</td>
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<td>2  Length of method role buffer</td>
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<td>DFHXSS</td>
<td>Exc</td>
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