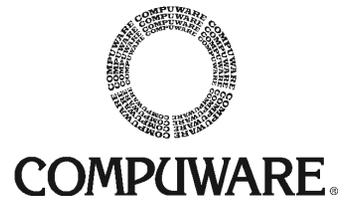


Abend-AID for CICS

Quick Reference

Release 4.5



Please direct questions about Abend-AID for CICS
or comments on this document to:

Abend-AID for CICS Technical Support

Compuware Corporation
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Detroit, MI 48226-5099
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Outside the USA and Canada, please contact
your local Compuware office or agent.

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Introduction

This quick reference provides brief summary information about the following topics:

- Accessing and exiting the product
- Online help
- Abend-AID for CICS navigation and commands
- PF-key definitions
- Transaction abend source support
- Trace table entries.

For additional information, please refer to the other documents in the Abend-AID for CICS (formerly, CICS Abend-AID/FX) documentation set, or use the online help facility.

Technical Support

At Compuware we strive to make our products and documentation the best in the industry. Feedback from our customers helps us to maintain our quality standards.

If problems arise while installing this product, consult the Abend-AID for CICS documentation or the Abend-AID for CICS technical representative at your site. If problems persist, please obtain the following information before calling Compuware's 24-hour product support hotline. This information may be required to help determine the cause of the problem:

- The Abend-AID for CICS release you are using. To find the release, enter the **SERVINFO** fast-path command on any Abend-AID for CICS screen. Position the cursor on the **RELEASE** field of the displayed screen and press Enter.
- The CICS release you are using.
- The DB2 release you are using.
- The exact error message, if any, that was displayed.
- All Abend-AID for CICS output for the task you were trying to perform.
- The MVS dump containing the Abend-AID for CICS failure.
- A tape copy of the SVC, SLIP, or SYSMDUMP dump you were trying to import or view.
- The CICS region JES job log.
- The MVS SYSLOG for the involved time period.
- Screen prints of the Dump Analysis Message Log that show the results of importing the region dump.

Note: To display the Dump Analysis Message Log, either select a region dump from the Directory with the G (Messages) line command, or type **MLOG** in the COMMAND (or OPTION) field on any Abend-AID for CICS screen and press Enter. For MLOG to function, however, you must first select a region dump from the Abend-AID for CICS Directory.

- The contents of the viewing server, TDCAS, and CICS region JES output files.
- Any relevant SMP/E output.
- Any other relevant screen prints.

Refer to Appendix C, “Internal Transaction Abends” in the *Abend-AID for CICS User’s Guide* for a description of the internal transaction abend entries that may be displayed on the Abend-AID for CICS Directory or the user abends you may encounter.

If Compuware requests documentation, please send it to the following address:

Abend-AID for CICS Technical Support
Compuware Corporation
31440 Northwestern Highway
Farmington Hills, MI 48334-2564
1-800-538-7822

Accessing Abend-AID for CICS

Abend-AID for CICS (formerly, CICS Abend-AID/FX) supports the following access methods:

- ISPF/PDF** Select the option defined for Abend-AID for CICS on your ISPF/PDF Primary Option (or other) menu, or execute the CLIST defined for Abend-AID for CICS.
- VTAM** If your site uses a session manager, Abend-AID for CICS may be defined as an option that you can select from the application selection (or other) menu.

If your site has not defined Abend-AID for CICS as a menu option, enter the following logon command:

```
LOGON APPLID(applid-name)
```

Note: The parentheses are required as shown.

Once you enter the logon command, Abend-AID for CICS displays the Server Logon screen, which shows your terminal ID in the Userid field by default. Enter your user ID in this field if you want to use the settings established in your user profile. If your site is using external security, you must enter your user ID and password.

- CICS** Enter an AADF transaction command directly from CICS on any blank screen. The following AADF transaction commands are valid:

Note: Before you can access Abend-AID for CICS from CICS, the transaction dump interface must be active in the CICS region. For specifics, refer to Appendix A, "Supplied Transaction" in the *Abend-AID for CICS User's Guide*.

- **AADF:** Displays the Abend-AID for CICS Directory for all transaction and region abends matching the job name of the CICS region.
- **AADFS:** Displays the Abend-AID for CICS Summary.
- **AADFT:** Displays the Diagnostic Summary for the most recent transaction abend that occurred at your terminal in the CICS region.
- **AADFTM:** Displays the Primary Options menu for the most recent transaction abend at your terminal in the CICS region.
- **AADFX:** Displays the Diagnostic Summary for the most recent transaction abend in the CICS region.

- **AADFXM:** Displays the Primary Options menu for the most recent transaction abend in the CICS region.
- **AADF number:** Displays the Diagnostic Summary for the specified directory entry.
- **AADM:** Displays the Abend-AID for CICS demonstration transaction menu.

For the steps required to establish these access methods, refer to the *Abend-AID for CICS Installation and Customization Guide*.

Abend-AID for CICS Summary

The Abend-AID for CICS Summary is the first screen displayed after accessing the product through ISPF, VTAM, or the AADFS command in CICS. To select an entire region or region group, place the cursor on the appropriate Region Descriptions name and press Enter. To select either a single entry type or all entries from a region or region group, place the cursor on the appropriate numeric value and press Enter.

Figure 1. Abend-AID for CICS Summary

```

Abend-AID for CICS --- Abend-AID for CICS Summary ---- Row 000001 of 000053
COMMAND ==>                                     SCROLL ==> PAGE

Region Descriptions  Tran  ----- Region Entries -----
                    Total  Total Abend Cancel Snap SVD Other-CICS Non-CICS
TOTAL ENTRIES      94    60   18    0    10  14    16    2
Dev. Accounting     8     0    0    0     0  0     0     0
Prod. Accounting    0     0    0    0     0  0     0     0
Production Sales   20     3    0    0     1  2     0     0
CICH2F              0     0    0    0     0  0     0     0
CICSDEMF            0     0    0    0     0  0     0     0

```

Abend-AID for CICS Directory

The Abend-AID for CICS Directory lists all entries based on your selection on the Abend-AID for CICS Summary. Note the abend code, transaction code, program, and offset. Press the default RIGHT PF key (PF11) to see the terminal ID, user ID, and other information. Place the cursor on the entry you want to view and press Enter to display the Primary Options menu.

Figure 2. Abend-AID for CICS Directory

```

Abend-AID for CICS --- Abend-AID for CICS Directory ---- Row 000001 of 000094
COMMAND ==>                                     SCROLL ==> PAGE
                                                ==>
M Menu      L Lock      H Dup History  R Recall     T Terminate Analysis
S Diag      U Unlock    I Information  E Migrate    C Change Priority
D Delete    G Messages  A Analyze     P Print      N Contact Information

  Entry      Job Name Code   Tran Date      Time Program  Offset Dups Status
  * * * * *  * * * * *  * * * * *  * * * * *  * * * * *  * * * * *  * * * * *  * * * * *
- 0000151    H01AC124 TOMI     XASM 12JAN2003 16:21 DLICAL4  002816    0 COMPLETE
- 0000150    H01AC124 TOMI     XCB2 12JAN2003 16:21 DLICAL3  0026F6    0 COMPLETE
- 0000149    H01AC124 TOMI     XCB2 12JAN2003 16:21 DLICAL3  0026F6    0 COMPLETE
- 0000148    H01AC124 COLT     XCB2 12JAN2003 16:19 DLICAL2  000432    0 COMPLETE
- 0000147    H01AC124 COLT     XASM 12JAN2003 16:19 DLICAL2  000432    0 COMPLETE

```

Directory Line Commands

Below are the available line commands on the Abend-AID for CICS Directory.

For Transaction Abends and Region Dumps

- D** Deletes the entry.
- I** Displays the Entry Information screen.
- M** Displays the Primary Options menu.
- N** Displays the Contact Information screen.
- P** Prints a complete transaction abend report or a region dump summary report.
- S** Displays the Diagnostic Summary.

For Transaction Abends Only

- H Displays history information for suppressed duplicate dumps
- L Locks the entry from automatic deletion.
- U Unlocks the entry for automatic deletion.

For Region Dumps Only

- A Initiates dump analysis.
- C Changes the priority for scheduled dump analysis.
- E Migrates the dump dataset.
- G Displays the Dump Analysis Message Log.
- R Recalls the migrated dump dataset.
- T Terminates dump analysis.

Primary Options Menu

The Abend-AID for CICS Primary Options menu is the central access point for all analysis and storage. Press the default RETURN PF key (PF4) to return to this menu from any other screen. As an alternative, enter the **RETURN** primary command or the **MM** fast-path command. Position the cursor on the **DIAG** mnemonic and press Enter to display the Diagnostic Summary.

Figure 3. Primary Options Menu for Transaction Abend Analysis

```

Abend-AID for CICS ----- Primary Options -----
OPTION ==>
1  DIAG      Diagnostic Summary      7  FILE      File Request Summary
2  PROG      Program Information      8  DB2       DB2 Information
3  TRACE     CICS Trace                      9  L3270     Last 3270 Screen
4  TERM      Terminal Detail            10 *MQINFO  WebSphere MQ Information
5  TASK      Task Detail                11 *CWI     CICS Web Interface
6  CB        Control Blocks/Storage      12 LEOCB   Language Environment OCB

D  DIRECTRY  AA for CICS Directory          R  SRCDIR   Source Directory
S  SUMMARY  AA for CICS Summary              U  USER    User Control Facility
X  EXIT     Exit

```

Diagnostic Summary

The Diagnostic Summary is the suggested starting point for abend/dump resolution. It contains a detailed description of the problem, the failing program, and the probable cause.

Figure 4. First Page of Diagnostic Summary for Transaction Abends

```

Abend-AID for CICS ----- Diagnostic Summary ----- Row 000001 of 000065
COMMAND ==>                                     SCROLL ==> PAGE

An ASRA abend occurred in program CCAADemo. The abending transaction was
AADM running at terminal D492 for user ID CICSUSER.

Analysis of the abend:

The Data Exception is caused when a decimal instruction is attempted on a
field that does not contain valid packed data, eg. contains an invalid digit
(not 0-9), or its last byte contains an invalid sign (Not F, C, OR D).

000413                                COMPUTE CURR-PAY   EQUAL WA-HOURS * WA-RATE

This statement is contained in paragraph "300-EMPLOYEE-PAY-RTN" of program
CCAADemo.

```

Exiting Abend-AID for CICS

To exit Abend-AID for CICS from any screen, type **EXIT** or **=X** in the **COMMAND** (or **OPTION**) field, and then press Enter.

Online Help

Online help is available for any Abend-AID for CICS screen, field, system message, or command.

Screen Help

Screen help explains the purpose of each screen. To display screen help, position the cursor *off* any data field or system message, and then press the default **HELP** PF key (PF1).

Field Help

At a minimum, field help defines a field's label. In many cases, field help also describes the purpose of the field and how to use the information it contains. To display field help, position the cursor on the field, and then press the default **HELP** PF key (PF1).

Message Help

Message help explains the meaning and significance of Abend-AID for CICS informational, error, and warning messages. To display help for Abend-AID for CICS messages, position the cursor on the message, and then press the default **HELP** PF key (PF1).

Command Help

Command help describes the function, syntax, and restrictions (if any) of primary and fast-path commands. To display command help, use one of the following methods:

- In the **COMMAND** (or **OPTION**) field, type **HELP** followed by the name of the command. Next, press Enter. For example, to display help text for the **FIND** command, type:

HELP FIND

- Type either **CMDLIST** or **HELP COMMANDS** in the **COMMAND** (or **OPTION**) field, and then press Enter to display the list of commands. Place the cursor on the desired command, and then press Enter.
- To list the commands *available* from the currently displayed screen or field, use the **ASSIST** command or press the default **ASSIST** PF key (PF24).

Note: **ASSIST** is valid on only some screens at the screen level, but is available for all tab-selectable fields.

Abend-AID for CICS Navigation and Commands

This section describes the Abend-AID for CICS features for navigating within and between screens: the cursor point-and-shoot feature, masking and sorting, fast-path commands, and jump commands. It also describes the use of primary and line commands that perform specific functions.

Cursor Point-and-Shoot Feature

The cursor point-and-shoot feature gives you direct access to menu items, specific locations in storage, and to detailed information about specific data elements. Simply tab to the menu item, storage address, or key data element field. Press the Enter key or appropriate PF key. Alternatively, type the corresponding primary command, tab to the associated address or field, and press Enter. If you're using a workstation with an emulator to access Abend-AID for CICS, refer to the *Abend-AID for CICS User's Guide* for information about using a mouse with the cursor point-and-shoot feature.

Masking and Sorting

The scrollable data area on Abend-AID for CICS list screens, such as the Abend-AID for CICS Directory shown in Figure 2 on page 3, includes a line of asterisks (*) beneath the column headings, called the *mask line*. This mask acts as a filter to display only the data you want to see. Overtyping the asterisks with the characters of the data you want to display, and press Enter.

You can also sort the column data by each of the column headings by entering the **SORT** primary command with a specified column heading. This command rearranges the column data. Alternatively, you can use the **SORT** command with the cursor point-and-shoot feature. Type **SORT** in the **COMMAND** field, position the cursor on the column that you want the data sorted by, and then press Enter.

To restore the column mask for all columns and to restore the original view of the list, enter the **RESET** primary command.

Fast-Path Commands

Most screens have an assigned *fast-path command*, such as DIAG for the Diagnostic Summary or TRACE for the Abbreviated Trace Listing. With fast-path commands, you can access many screens in the product from other screens. Simply type the appropriate command in the COMMAND (or OPTION) field, and then press Enter.

For more information about fast-path commands, refer to the *Abend-AID for CICS User's Guide*.

Jump Commands

Another method for accessing screens directly is to use *jump commands*. These commands are ISPF-like selection strings that uniquely identify the screens *listed on the menus*. Not all Abend-AID for CICS screens are listed on the menus.

For example, to access the Program Summary Information screen, which is the second selection on the Program Information menu, type =2.2 or >2.2 in the COMMAND (or OPTION) field, and then press Enter. The number 2 starts the command string, because the Program Information menu is the second selection on the Primary Options menu as shown in Figure 3 on page 5.

Jump Command Prefixes

By definition, a jump command is preceded by either an equal sign (=) or a greater than sign (>). Which sign you use determines the path Abend-AID for CICS takes when you exit the screen with the END command or PF key (PF3). Preceding the jump command with the equal sign (=) returns you to the Primary Options menu; the greater than sign (>), to the previous screen where you entered the jump command.

For more information about jump commands, refer to the *Abend-AID for CICS User's Guide*.

Primary Commands

Primary commands, such as the FIND or LPRINT command, perform specific functions, other than just displaying Abend-AID for CICS screens as do fast-path and jump commands. Refer to the *Abend-AID for CICS User's Guide* or use the Abend-AID for CICS online help for a complete description of each primary command and its valid syntax. Refer to "Command Help" on page 6 for specifics on using the online help.

Frequently Used Fast-Path and Primary Commands

Below are some of the most frequently used fast-path and primary commands. The first column shows the command and any required parameter(s). The second column names the displayed screen or menu for fast-path commands, or describes the resultant action for primary commands. Note that the characters in uppercase are the minimum abbreviation for the command.

For Transaction Abends and Region Dumps

Directory, Server, and Abend/Dump Information

DIRectory	Abend-AID for CICS Directory.
INFO	Entry Information screen.
SERVInfo	Server Information screen.
SUMMARY	Abend-AID for CICS Summary.

Dump Analysis and Elimination (DAE) Support

RESETDae	Updates the DAE sequence number for internal viewing server and TDCAS dumps.
-----------------	--

General Navigation

BOTTOM	Displays the bottom of a screen's scrollable area.
CANCEL	Cancels the current operation.
DOWN	Scrolls down.
END	Ends the current operation and returns to the previous display.
EXIT	Terminates the current session.
Find string	Locates the specified data string.
LEFT	Scrolls left.
MAINmenu	Primary Options menu.
MM	Primary Options menu.
RESet	Resets the masking and sorting on list screens.

RETURN	Returns to the Primary Options menu.
RFIND	Repeats the previously issued Find command.
RIGHT	Scrolls right.
SORT	Sorts the list by the specified column heading.
TOP	Scrolls to the top of a screen's scrollable area.
UP	Scrolls up.

Memory Display and Navigation

CB	Control Blocks/Storage screen.
CHAIN	Runs a control block chain based on user-specified criteria.
COre address	Displays storage located at the specified address.
DECOde address	Disassembles a single assembler instruction at the specified address.
DISAsm address	Disassembles all assembler instructions in storage, starting at the specified address.
DSECT	Displays storage in DSECT format.
Find x'string' c'string' t'string'	Locates the specified hexadecimal, character, or mixed-case character data string.
HEXD	Displays storage in hexadecimal format.
MAPd	Displays storage in DSECT format.
@offset	Positions the display at the fullword address at the specified hexadecimal offset.
-offset	Scrolls the display backward to the specified hexadecimal offset.
+offset	Scrolls the display forward to the specified hexadecimal offset.
RFIND	Repeats the previously issued Find command.
RESet	Resets the display to offset zero.

SMAP	Storage Map Display.
UNSTck address	Interprets the store clock date and time.

Paperclip Function

CLIP	Displays the first (oldest) entry from the paperclip table.
PCLP	Current Paperclip Table screen.
SACLIP	Saved Paperclip List screen.
SAVE	Saves the current paperclip table.

Diagnosis

DIAG	Diagnostic Summary.
TRACE	Abbreviated Trace Listing screen.

Customization

ATTRIBUTE	Screen Attributes screen.
BORDERs ON	Controls display of screen borders.
OFF	
KEYS	PF Key Definitions screen.
PROFile	User Profile screen.
USER	User Controls menu.

Printing

LIST	Print Options and Initiation screen.
LPRINT	Prints logical screen images and reports.
PRINT	Prints physical screen images and reports.

The optional parameters #ALL, #DB2ALL, #SUMMARY, and #DB2SUMM for the LPRINT and PRINT commands let you print Abend-AID for CICS reports. Refer to the *Abend-AID for CICS User's Guide* or use the online help for a description of these parameters and the reports they generate.

REXX Application Program Interface (API)

REXX exec-name	Processes a REXX EXEC.
-----------------------	------------------------

For Transaction Abends Only***Diagnosis***

ABENDtxt abendcode	Displays information about the specified abend code.
IBMmsg abendcode	Displays the IBM message text for the specified abend code.

Duplicate Dump Information

HISTory	Duplicate History Log.
----------------	------------------------

Program Information

DFHRpl	DFHRPL Concatenation screen.
LEOcb	LE Options Control Block screen.
PGMdct programname	Program Detail screen.
PGMLink	Program Link Information screen.
PGMSumm	Program Summary Information screen.
PROG	Program Information menu.
RPL	DFHRPL Concatenation screen.

COBOL Programs

COBoL programname	COBOL Storage Areas menu.
DSA programname	Memory Display for the Dynamic Storage Area.
EXTRn programname	Memory Display for external cells storage.
LINK programname	Program Storage screen for the linkage section.
LOCL programname	Program Storage screen for local storage.
TGT programname	Memory Display for TGT storage.
WORK programname	Program Storage screen for working storage.

COBOL and PL/I Programs

PLIST programname	Program Listing screen.
SD	Source Directory screen.
SOURCE ON	Toggles source processing ON or
OFF	OFF.
SRCDIR	Source Directory screen.
SRCINST ON	Toggles source support instructional
OFF	window ON or OFF.

PL/I Programs

AUTO programname	PL/I Automatic Storage List screen.
CONTRol programname	PL/I Controlled Storage List screen.
EXTERnal programname	PL/I External Storage List screen.
PLI programname	PL/I Storage Areas menu.
STATic programname	Memory Display for static storage areas.

Assembler Programs

PSW	Program Status Word screen.
REGs	Registers screen.

Transaction and Task Information

EIBS	System Execute Interface Block screen.
EIBu	User Execute Interface Block screen.
ENQ	Enqueues Held screen.
TASK	Task Detail screen.

Terminal and Screen Information

DATAstrm	Data Stream Analysis screen.
SCREEn	Last 3270 screen image.
TERm	Terminal Detail screen.

File and Database Information

DB2	DB2 Information menu.
DLI	DL/I Information menu.
FILE	File Request Summary.

Hogan and MSA Information

HOGAN	Hogan Information menu.
MSA	MSA Information menu.

CICS Web Interface Information

CWI	Web Information Summary menu.
------------	-------------------------------

For Region Dumps Only***Dataset Import***

IMPorT	Dataset Import screen.
---------------	------------------------

Storage Identification

MATch	Locates data matching the specified parameters and displays corresponding TCBS, TCAs, and KETASKs that have addressability to the data.
WHERE	Displays a list of storage areas and control blocks that contain the specified address or symbol.
WHO	Lists TCBS, TCAs, and KETASKs that have addressability to the specified address.

Domain Information (CICS Transaction Server Version 1.3 and More Current)

WB	Web Domain menu.
-----------	------------------

Domain Information

DOMains	CICS Domain Analysis menu.
----------------	----------------------------

Task/Wait Analysis Information

TASKList	Task/Wait Analysis screen.
-----------------	----------------------------

TAsks	Task/Wait Analysis menu.
--------------	--------------------------

TASKSUMm	Task Summary.
-----------------	---------------

Dump Import and Analysis Messages

MLOG	Dump Analysis Message Log.
-------------	----------------------------

IPCS

IPCS	IPCS Command Facility screen.
-------------	-------------------------------

MVS Virtual Storage

ASMap	Allocated Storage Map
--------------	-----------------------

SASP	Summarized CSA Subpools screen
-------------	--------------------------------

CSASUm	Common Service Area Summary
---------------	-----------------------------

LPAMap	Link Pack Areas Map
---------------	---------------------

LSQASum	LSQA Summary
----------------	--------------

LSQASP	Summarized LSQA Subpools screen
---------------	---------------------------------

MVSStg	MVS Storage Analysis menu
---------------	---------------------------

NUCmap	Nucleus Map
---------------	-------------

PVTSP	Allocated Private Subpools screen
--------------	-----------------------------------

PVTSUM	Private Area Summary
---------------	----------------------

SQASP	Summarized SQA Subpools screen
--------------	--------------------------------

SQASUm	SQA Summary
---------------	-------------

VSMMap	Virtual Storage Map
---------------	---------------------

Line Commands

Line commands perform specific functions for individual items on Abend-AID for CICS list screens such as the Abend-AID for CICS Directory and the Program Summary Information screen, among others. Line commands are displayed at the top of the screen. Enter them to the left of the selected list item. Use the online help for an explanation of any line command.

Refer to “Directory Line Commands” on page 3 for a list of the available line commands on the Abend-AID for CICS Directory.

PF Keys

This section lists the PF keys defined in Abend-AID for CICS. Enter **KEYS** as a fast-path command to display the PF Key Definitions screen, which lists the current PF-key settings. Press Enter to toggle between the displays for PF13–PF24 and PF1–PF12. Overtyping any settings you want to change. Press the default END PF key (PF3) to save your changes.

Table 1. Default PF Key Definitions

Key	Command	Description
PF1/PF13	HELP	Provides cursor-sensitive information.
PF2/PF14	SPLIT	Divides the display screen into two logical, functionally independent screens. Valid for ISPF access only.
PF3/PF15	END	Ends the current function and redisplay the previous level screen or menu.
PF4/PF16	RETURN	Redisplay the Primary Options menu.
PF5	RFIND	Repeats the last FIND command executed.
PF6	CCMENU	For transaction abends only. Displays the CICS Abend-AID transitional menu. This pop-up menu displays CICS Abend-AID commands and their equivalents in Abend-AID for CICS.
PF7	UP	Scrolls backward through a screen’s scrollable area.
PF8	DOWN	Scrolls forward through a screen’s scrollable area.
PF9	SWAP	Moves the cursor to the other logical screen when the display is in split screen mode. Valid for ISPF access only.
PF10	LEFT	Scrolls toward the first column of data.
PF11	RIGHT	Scrolls toward the last column of data.
PF12	RETRIEVE	Redisplay the last command entered in the COMMAND or OPTION field.
PF17	DISASM	Disassembles <i>all</i> assembler instructions in storage. Abend-AID for CICS displays this information on the Storage Disassembly screen, starting with the address specified.

Key	Command	Description
PF18	HEXD	Displays storage in hexadecimal format.
PF19	DSECT	Displays storage in DSECT format.
PF20	INFO	Displays the Entry Information screen for the current dump.
PF21	WHO	For region dumps only. Lists TCBS (for any dump), TCAs (for CICS dumps only), and KETASKs (for CICS dumps only) that have addressability to the address specified.
PF22	MATCH	For region dumps only. Lists TCBS (for any dump), TCAs (for CICS dumps only), and KETASKs (for CICS dumps only) that have data matching the data at the address specified.
PF23	LPRINT	Prints a logical image of a screen to a sequential dataset.
PF24	ASSIST	Displays the commands available for the current screen, scrollable table, or field.

Transaction Abend Source Support

This section describes Abend-AID for CICS source support for transaction abends.

Source Directory

The Source Directory allows you to browse and manage programs compiled using the Compuware COBOL language processor or the Compuware PL/I language processor. To access the source directory, select a transaction entry from the Abend-AID for CICS Directory and then enter either the **SD** or **SRCDIR** fast-path command. A list of source listing files/source shared directories available for the selected entry is displayed as shown in Figure 5 on page 18.

Figure 5. Source Directory

```

Abend-AID for CICS ----- Source Directory ----- Row 000001 of 000002
COMMAND ==>                                     SCROLL ==> PAGE
                                                    ==>

To add a dataset to the list, select Add

S Directory      I Information      X Include/Exclude      D Delete

Dataset Name
*****
- AACICS.BETA.TEST.PGMLIST
- AACICS.BETA.DEMO.LISTFILE
- AACICS.BETA.QA.SRCE.SHRDIR
***** BOTTOM OF DATA *****
Exclude      Defined      Remote      Re
Status      By      Server      Us
*****      *****      *****      **
User      AACSRVR3
User      AACSRVR3
CICS

```

Enter the **S** line command to display the Source Program Directory for a source listing file or source shared directory.

Figure 6. Source Program Directory

```

Abend-AID for CICS ----- Source Program Directory ----- Row 000001 of 000014
COMMAND ==>                                     SCROLL ==> PAGE

Dataset Name..... AACICS.BETA.DEMO.LISTFILE

S Select          L Lock          I Information
U Unlock          D Delete

Program      Compile      Compile      Return      Language      Size      Locked      Completion
Date      Time      Code      *****      *****      *****      *****      *****
*****      *****      *****      *****      *****      *****      *****      *****
- CELPROG1  06JAN2003  10:55:35    4    COBIIR3      63K    LOCKED-M    INCOMPLETE
s CCAADEMO  02JAN2003  10:51:14    0    COBIIR3      191K    LOCKED-M    COMPLETE
- CCAADEMO  26MAR2003  13:59:14    8    COBIIR3      159K    LOCKED-M    COMPLETE
- CCASQLD   08APR2003  14:45:29    4    OSVSCOB      223K    LOCKED-M    COMPLETE

```

Enter the **S** line command to select and browse a program in the Source Program Directory for a source listing file or a source shared directory.

Adding a Dataset to the Source Directory

Source listing datasets defined to CICS at the time the abend occurred display as Defined By CICS, as shown in Figure 5 on page 18. To add a dataset to the Source Directory, press Enter at the Add field. Source listing datasets defined in this way display as Defined By User on the Source Directory.

You can use any of the line commands displayed on the screen. These commands affect only the display of the user-defined source datasets list on the Source Directory for the logged-on user who executes them and do not affect the actual datasets. The X (Include/Exclude) and D (Delete) line commands are *not* valid for source datasets that display as Defined By CICS.

Using Distributed Viewing Support

Distributed Viewing Support (DVS) lets you view a CICS transaction abend entry using source support when the source listings for the abending program reside on an MVS system other than the one on which the abend occurred. For example, if you develop applications at a central site and distribute them to other remote sites, DVS eliminates the need to distribute source listing datasets with the applications.

If your site has implemented Distributed Viewing Support, you can add a user-defined source dataset name as described above for a listing that resides on an MVS system other than the one on which the abend occurred. A valid user ID and password are required for access to the remote server as well as READ authority for the source listing dataset. Refer to the *Abend-AID for CICS User's Guide* for more information about using Distributed Viewing Support.

Mismatched Source Processing

Abend-AID for CICS compares the compile date and time of the abending program with the compile date and time of programs in the source listing file(s). If no match exists, the Source Mismatch Selection screen is displayed.

Figure 7. Source Mismatch Selection Screen

```

Abend-AID for CICS ----- Source Mismatch Selection -----
COMMAND ==>

The program compile date and time does not match a source listing

      Program Information                Most Current Source Information
Program Name..... CCAADEMO             Source Program Name..... CCAADEMO
Compile Date..... 14JAN2003            Source Compile Date..... 21JAN2003
Compile Time..... 10:27:07             Source Compile Time..... 16:07:58
Program Language..... COBOL II         Program Language..... COBOL II
Language Release..... V1R3MO           Language Release..... V1R4MO

      Select one of the following options:
To continue using the most current program listing, select CURRENT
To display available listings for selected program, select LISTINGS
To continue without source-level support, select NO SOURCE

```

You can do one of the following:

- Use the cursor point-and-shoot feature and press Enter at the CURRENT field to select the most current source listing for source processing in all subsequent displays of the program.
- Use the cursor point-and-shoot feature and press Enter at the LISTINGS field to display the Source Program Directory for source mismatch selection, which displays every occurrence of a listing for the selected program in all available source listing files.
- Use the cursor point-and-shoot feature and press Enter at the NO SOURCE field to suppress source processing in all subsequent displays of the program.

Trace Table Entries

Abend-AID for CICS displays trace table entries when you enter the TRACE fast-path command. Of particular interest are the trace entries created when an application issues EXEC CICS requests (the EIP trace entries). A method for reviewing EIP entries is described below.

Selecting EIP Trace Entries

Complete the following steps for the appropriate CICS version.

CICS Transaction Server for z/OS and OS/390

1. Press Enter at the SELECT field on the Abbreviated Trace Listing screen to display the Trace Selection Criteria window.
2. Enter AP in the Domain Id field and 00E1 in the Trace Point Id field.

Figure 8. Trace Selection Criteria Window

```

Abend-AID for CICS ---- Abbreviated Trace Listing----- Row 000001 of 000125
COMMAND ===>                                     SCROLL ===> CSR
                                                    ==>

To display the Trace Listing in short format select SHORT
To display the Trace Listing in full format select FULL
To specify selection criteria select SELECT

```

Entry	Task	Task Point	Interpreta	Trace Selection Criteria
000001	002B	00060 AP 0591	APXM EXIT	Domain Id..... AP
000002	002B	00060 AP 1730	TFBF ENTR	Trace Point Id..... 00E1
000003	002B	00060 US 0401	USXM ENTR	Kernel Task Number.....
000004	002B	00060 XS 0401	XSXM ENTR	Task Identifier.....
000005	002B	00060 XS 0402	XSXM EXIT	Exception Entries.....
000006	002B	00060 US 0402	USXM EXIT	Help=PF01 End=PF03
000007	002B	00060 AP 1731	TFBF EXIT	
000008	002B	00060 XS 0701	XSRC ENTRY	CHECK_CICS_RESOURCE PCCC,TRANSATTACH
000009	002B	00060 XS 0702	XSRC EXIT	CHECK_CICS_RESOURCE/OK

3. Press Enter at the SHORT field to display the Short Trace Listing.
4. From the Short Trace Listing, identify the time, function code, response code, and return address. An ENTRY and EXIT entry displays for each EXEC CICS call.

Figure 9. Short Trace Listing

```

Abend-AID for CICS ----- Short Trace Listing ----- Row 000001 of 000056
COMMAND ===>                                     SCROLL ===> CSR

To display the Trace Listing in full format select FULL
To display the Trace Listing in abbreviated format select ABBREV
To specify selection criteria select SELECT

```

Entry	Task	Interpretation
000025	00060	AP 00E1 EIP ENTRY GETMAIN REQ(0004) FIELD-A(00140D40 ...) FIELD-B(08000C02) RET-800ABE3C 16:28:38.2476510002 **,*****
000028	00060	AP 00E1 EIP EXIT GETMAIN OK REQ(00F4) FIELD-A(00000000) FIELD-B(00000C02) RET-800ABE3C 16:28:38.2479501252 00.0002991250

5. Press Enter at the FULL field to display the Full Trace Listing.

The Full Trace Listing displays the same data as the Short Trace Listing in an extended format, and also includes the Kernel Domain task number and TCB.

Figure 10. Full Trace Listing

```

Abend-AID for CICS ----- Full Trace Listing ----- Row 000001 of 000056
COMMAND ==>                                SCROLL ==> CSR

To display the Trace Listing in abbreviated format select ABBREV
To display the Trace Listing in short format select SHORT
To specify selection criteria select SELECT

Entry Task Interpretation
000025 00060 AP 00E1 EIP ENTRY GETMAIN REQ(0004) FIELD-A(00140D40 ... )
          FIELD-B(08000C02 ....) KE_NUM-002B TCB-008D2D08 RET-800ABE3C
          TIME-16:28:38.2476510002 INTERVAL-**,*****

000028 00060 AP 00E1 EIP EXIT GETMAIN OK REQ(00F4) FIELD-A(00000000 ....)
          FIELD-B(00000C02 ....) KE_NUM-002B TCB-008D2D08 RET-800ABE3C
          TIME-16:28:38.2479501252 INTERVAL-00.0002991250

```

CICS Version 4

Follow the procedure described above for CICS Transaction Server for z/OS and OS/390. However, note that CICS version 4 has only two trace displays: abbreviated and full.