Unicenter® CA-Explore® Performance Management for CICS

Online User Guide

Release 7.0

Computer Associates®

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Chapter 1

Using Unicenter CA-Explore Performance Management for CICS

This publication describes how to access and use the features and functions of Unicenter® CA-Explore® Performance Management for CICS (Unicenter CA-Explore for CICS). Included are detailed instructions for completing the tasks you perform most frequently. These tasks include the following:

- Logging on to Unicenter CA-Explore for CICS
- Accessing the Main menu
- Selecting functions and entering commands
- Moving among panels
- Using scrolling features
- Refreshing the data on a panel
- Exiting your Unicenter CA-Explore for CICS session
- Using mainframe help
- Using panel display color features
- Modifying submenus
- Using generic characters to limit panel-data displays

In addition to users of Unicenter CA-Explore for CICS, others who may find this guide helpful are:

- Personnel responsible for the implementation and maintenance of Unicenter CA-Explore for CICS
- Systems programmers involved in implementing basic Unicenter CA-Explore for CICS capabilities and customizing additional capabilities

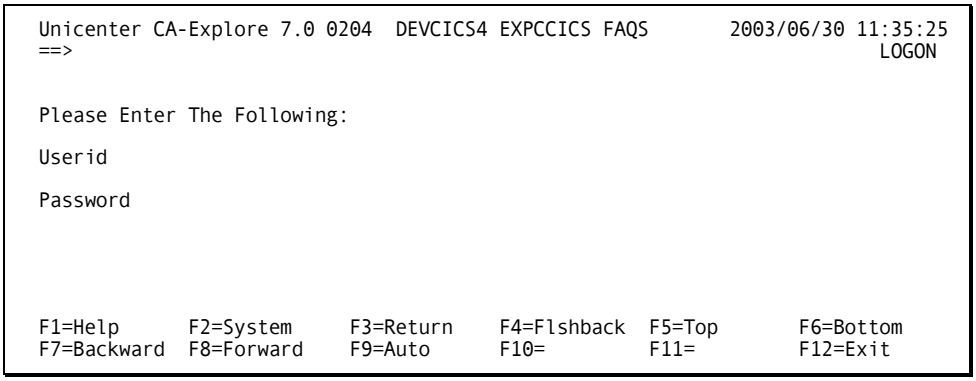
Note (1): This chapter discusses the uses of Unicenter CA-Explore for CICS with CICS Version 2.3 (CICS 2.3) and CICS Transaction Server Version 1.1 (TS 1.1). Unless a distinction is noted, the information applies to both versions.

Note (2): Any reference in this document to SQL should be translated to DB2. The term SQL has been retained intentionally for backward compatibility.

Logging On To Unicenter CA-Explore for CICS

When Log On Is Required

If external security is active and you are not using *e*Trust™ CA-Top Secret® 3.0 (*e*Trust CA-Top Secret), you must log on to Unicenter CA-Explore for CICS. The following illustration shows the Unicenter CA-Explore for CICS Logon panel that is displayed when external security is active, or when logon otherwise is required:



When Log On Is Not Required

If external security is not active, or logon is not required, the Logon panel will not be displayed automatically. However, you can still log on using either of the following methods:

- Enter **LOGON** on the command line of any Unicenter CA-Explore for CICS panel. The Logon panel is displayed.
- Enter **LOGON** on the command line in the following format:

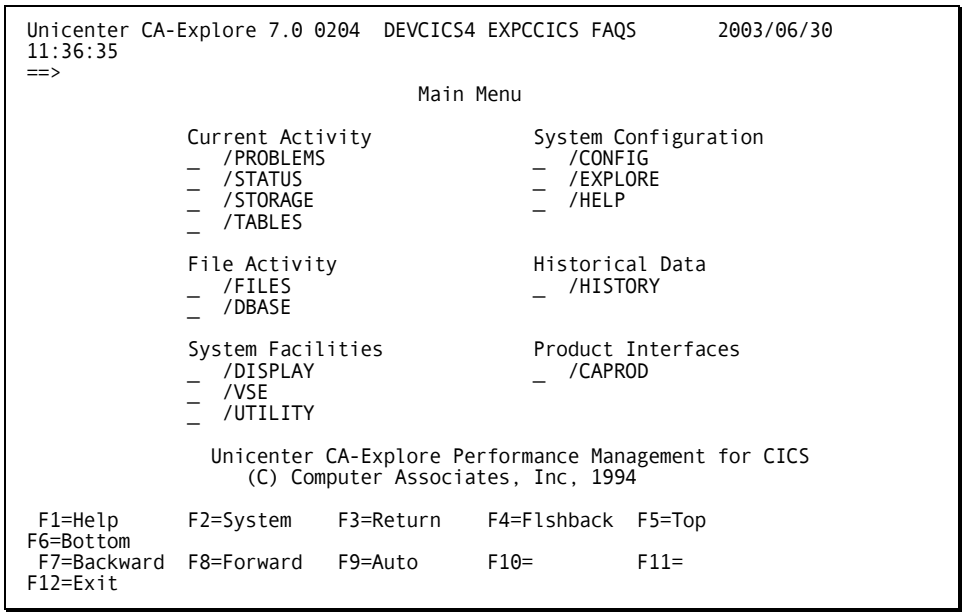
  LOGON [*userid* [*password*]]

Either method assigns a user ID to the session and activates the user profile for that ID.

Accessing the Main Menu

Unicenter CA-Explore for CICS features a menu-driven online interface. The Unicenter CA-Explore for CICS Main menu provides initial access to that interface.

The Main menu displays groups of functions, as indicated by group headings. Each group contains a list of the commands.



The sections that follow explain how to access the Main menu from the following environments:

- VTAM
- BTAM
- CICS
- FAQS/ASO for VSE

For procedures to access submenus and change the options that appear on a submenu, see the section Accessing Command Submenus later in this chapter.

From VTAM

Note: To access Unicenter CA-Explore for CICS using VTAM, a VTAM application ID must be specified in the configuration member table. For more information, see the Unicenter CA-Explore for CICS *Getting Started* guide.

The command you should use to access Unicenter CA-Explore for CICS from VTAM depends on the format used at your site, as follows:

Format	Command
PL1	`LOGON APPLID(EXPDVTAM) LOGMODE(`*xxxxxxxx*`) DATA(`*jobname*`)` `DATA(REGIONID)`
BAL	`LOGON APPLID=EXPDVTAM LOGMODE=`*xxxxxxxx* `DATA=`*jobname* `DATA=REGIONID`

From BTAM

Note: You can use configuration options to define up to ten terminals to be dedicated BTAM terminals on which Unicenter CA-Explore for CICS will run. The addresses of the dedicated terminals must also be reserved for dedicated BTAM terminals. By default, five BTAM terminals are defined with logical unit numbers SYS005 through SYS009. See the chapter titled "Configuration Options" for information about defining dedicated BTAM terminals.

From CICS

Note: Before you can access Unicenter CA-Explore for CICS using the EXPC transaction, the following prerequisites must be met:

Prerequisite	For CICS Version
A CICS PCT entry must be defined for EXPC with the initial program ECDIEXPC.	CICS 2.3
A CICS PCT entry must be defined for EXPW with the initial program ECDIEXPW. A CICS PCT entry must be defined for EXPS with the initial program ECDIEXPS. A CICS PCT entry must be defined for EXPI with the initial program ECDIEXPT. A CICS PCT entry must be defined for EXPI with the initial program ECDIINIT.	CICS 2.3
PPT entries for ECDIEXPC, ECDIEXPS, ECDIEXPT, ECDIEXPW, and ECDIINIT must be defined.	CICS 2.3
A CICS transaction must be defined for EXPC with the initial program ECTIEXPC. TASKDATA Key must be set to CICS. A CICS transaction must be defined for EXPS with the initial program ECTIEXPS. A CICS transaction must be defined for EXPT with the initial program ECTIEXPT. A CICS transaction must be defined for EXPI with the initial program ECTIINIT.	TS 1.1
A CICS transaction must be defined for EXPW with the initial program ECITEXPW. The program language is assembler. TASKDATA Key must be set to CICS.	CICS and TS 1.1
A program entry for ECTIEXPC must be defined. The program language is assembler. Set EXECKey to CICS. Program entries for ECTIEXPS, ECTIEXPT, and ECTIINIT must be defined. The program language is assembler.	TS 1.1
A program entry for ECTIEXPW must be defined. The program language is assembler. Set EXECKey to CICS.	TS 1.1

Once prerequisites have been satisfied, use the CICS transaction EXPC to access Unicenter CA-Explore for CICS from CICS.

Procedure	For CICS Version
If Unicenter CA-Explore for CICS is not active within the current CICS, you will access the first active region defined in the Unicenter CA-Explore for CICS monitor initialization table.	CICS 2.3
Use the CICS transaction CEDA to define the transaction and program definitions in a group named EXPCTS, as explained above. Add the EXPCTS group to your startup list. A sample program, EXPCTS.Z is in the installation library.	TS 1.1

If You Have eTrust CA-Top Secret for CICS

If you are running *e*Trust CA-Top Secret for CICS, you will be automatically signed on to Unicenter CA-Explore for CICS if the following conditions apply:

- The SECURITY configuration option is set to YES.
- You are accessing Unicenter CA-Explore for CICS from a terminal you have already used to sign on using *e*Trust CA-Top Secret for CICS.

  In this situation, Unicenter CA-Explore for CICS polls *e*Trust CA-Top Secret for CICS for the user ID signed on to the terminal, and uses that user ID to identify the user. If access is granted, Unicenter CA-Explore for CICS bypasses its Logon panel and displays the Main menu. This feature eliminates the maintenance of two user IDs and two passwords. It also prevents users from signing on to Unicenter CA-Explore for CICS under other user IDs, thus possibly gaining access to commands for which they are not authorized.

For information about securing Unicenter CA-Explore for CICS commands, see the chapter titled “Security.”

From FAQS/ASO for VSE

Note: To access Unicenter CA-Explore for CICS from FAQS/ASO for VSE, the Unicenter CA-Explore for CICS resident library must be included in the LIBDEF search chain for the FAQS/ASO partition.

You can access Unicenter CA-Explore for CICS from FAQS/ASO for VSE using any of the following methods:

- Enter **EXPC** on the command line of any FAQS/ASO for VSE panel to access the first active region defined in the Unicenter CA-Explore for CICS monitor initialization table.
- Enter the number corresponding to the Unicenter CA-Explore for CICS option on the command line of the FAQS/ASO for VSE DCM Main menu.
- On the FAQS/ASO for VSE DCM Main menu, cursor-select the Unicenter CA-Explore for CICS option.

Selecting Functions and Entering Commands

The Main menu provides access to the primary functions of Unicenter CA-Explore for CICS. The following table describes these functions:

Use This Function	To
Current Activity	Determine the status of your system.
File Activity	Monitor file information.
System Facilities	Display storage data, perform VSE functions, and display information about system utilities.
System Configuration	Display information about Unicenter CA-Explore for CICS and monitor or modify how it is set to operate.
Historical Data	Analyze historical data.
Product Interfaces	Use CA product interfaces.

Accessing Command Submenus

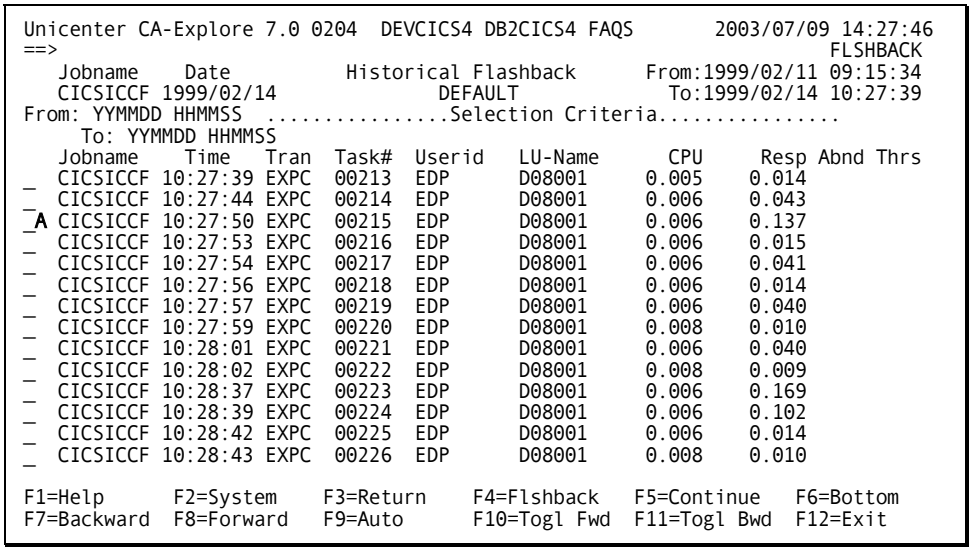
You can use one of the following methods to access any submenu:

- Cursor-select a command from a function group on the Main menu. Commands that display submenus begin with a forward slash (/).
- Type the letter **S** (for SELECT) in the space provided to the left of a command on the Main menu.
- Enter a command on the command line of any Unicenter CA-Explore for CICS panel. For example, type **/STATUS** on the command line to display the STATUS submenu.

Using Margin Commands

A margin command is a one-letter entry you can type in the left margin next to an item in a panel to display a new panel containing additional information about that item.

For example, if you are viewing items in the DEFAULT Flashback Summary panel, and you want to see the ANALYSIS Flashback Detail information for a specific item, you can type an **A** (for ANALYSIS) in the space provided to the left of that item, as shown in this panel example, and then press Enter:



```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:27:46
==>                                                                  FLSHBACK
   Jobname    Date          Historical Flashback      From:1999/02/11 09:15:34
   CICSICCF 1999/02/14              DEFAULT             To:1999/02/14 10:27:39
From: YYMMDD HHMMSS  ..............Selection Criteria.................
     To: YYMMDD HHMMSS
   Jobname    Time   Tran  Task#  Userid   LU-Name      CPU     Resp Abnd Thrs
_  CICSICCF 10:27:39 EXPC  00213  EDP      D08001     0.005    0.014
_  CICSICCF 10:27:44 EXPC  00214  EDP      D08001     0.006    0.043
_A CICSICCF 10:27:50 EXPC  00215  EDP      D08001     0.006    0.137
_  CICSICCF 10:27:53 EXPC  00216  EDP      D08001     0.006    0.015
_  CICSICCF 10:27:54 EXPC  00217  EDP      D08001     0.006    0.041
_  CICSICCF 10:27:56 EXPC  00218  EDP      D08001     0.006    0.014
_  CICSICCF 10:27:57 EXPC  00219  EDP      D08001     0.006    0.040
_  CICSICCF 10:27:59 EXPC  00220  EDP      D08001     0.008    0.010
_  CICSICCF 10:28:01 EXPC  00221  EDP      D08001     0.006    0.040
_  CICSICCF 10:28:02 EXPC  00222  EDP      D08001     0.008    0.009
_  CICSICCF 10:28:37 EXPC  00223  EDP      D08001     0.006    0.169
_  CICSICCF 10:28:39 EXPC  00224  EDP      D08001     0.006    0.102
_  CICSICCF 10:28:42 EXPC  00225  EDP      D08001     0.006    0.014
_  CICSICCF 10:28:43 EXPC  00226  EDP      D08001     0.008    0.010
_

F1=Help      F2=System    F3=Return    F4=Flshback   F5=Continue   F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd  F11=Togl Bwd  F12=Exit
```

Margin commands can vary from one panel to another. To select an item, you can, in most cases, simply move the cursor to the left of an item and press Enter, or type *any* character to the left of the item and press Enter.

In this guide, margin commands that must be uniquely entered on a panel are specifically noted in the panel description under the topic heading, Margin Commands.

Using F Keys for Display Controls

The function of each F key is displayed at the bottom of every Unicenter CA-Explore for CICS panel. The following table lists the F keys, their command equivalents, and their functions:

F Key	Command Equivalent	Function
F1	Help	Displays online help for the current panel.
F2	System	Displays the MIT Table Entries panel.
F3	Return	Returns to the previous panel. When used from the Main menu, exits Unicenter CA-Explore for CICS.
F4	Flshback	Displays the DEFAULT Historical Flashback panel.
F5	Top	Displays the first screen of data on a display.
F6	Bottom	Displays the last screen of data on a display.
F7	Backward	Scrolls the data displayed back one screen.
F8	Forward	Scrolls the data displayed forward one screen.
F9	Auto	Turns on automatic redisplay.
F10		Varies for each panel.
F11		Performs no function.
F12	Exit	Exits Unicenter CA-Explore for CICS immediately.

Other F-key functions and commands are explained in sections labeled F Keys following the panels to which they apply.

To execute an F key, do one of the following:

- Press the F key on your keyboard.
- Cursor-select the F key from the line at the bottom of the panel.
- On the command line after the arrow prompt (===>), type **PF*n***, where *n* is the F-key number.

Moving Among Panels

You can move between Unicenter CA-Explore for CICS panels by selecting menu options, pressing F keys, or entering commands.

To access a panel with more information, do one of the following:

- Move the cursor to the input field next to the item you want more information about and press Enter. Again, this is referred to as *cursor-selection*.
- Type a margin command (a single letter) in the input field next to the item you want more information about and press Enter. The default margin command used to access detail panels is S (Select).

To return to a previous panel, press F3 (Return).

Using Scrolling Features

You can scroll data by entering a command on the command line, and pressing either an F key or the ENTER key, as described in the sections that follow.

To scroll forward or backward by the number of lines defined as the default, press F8 or F7 while leaving the command line blank.

Scrolling Forward

The following table shows how to scroll a data display forward. You need only type the capitalized portion of the command on the command line, as shown in the table:

Enter This On The Command Line	Press This Key	To Scroll
Bottom	Enter	Forward to the last full screen of the display, with the last line at the bottom
	F6	Forward to the last full screen of the display, with the last line at the bottom
nnnn	F8	Forward *nnnn* lines
Half	F8	Forward half a screen
Data	F8	Forward to next screen
Page	F8	Forward one page
Max	F8	Forward to the end of the display
PF8	Enter	Forward the default amount
	F8	Forward the default amount
Down *nn*	Enter	Forward *nn* lines
FORWard *nn*	Enter	Forward *nn* lines

Scrolling Backward

The following table shows how to scroll a data display backward. You need only type the capitalized portion of the command on the command line, as shown in the table:

Enter This On The Command Line	Press This Key	To Scroll
Top	Enter	To the first line
	F5	To the first line
nnnn	F7	Backward *nnnn* lines
Half	F7	Backward half a screen
Data	F7	Backward to the previous screen
Page	F7	Backward one page
Max	F7	Backward to the top of the display
PF7	Enter	Backward the default amount
	F7	Backward the default amount
Up *nn*	Enter	Backward *nn* lines
BACKward *nn*	Enter	Backward *nn* lines

Scrolling Laterally

The following table shows how to scroll a data display to the right or left. You need only type the capitalized portion of the command on the command line, as shown in the table:

Enter This On The Command Line	Press This Key	To Scroll
	F10	Left the default amount
	F11	Right the default amount
Right nn	Enter	Right *nn* lines
Left nn	Enter	Left *nn* lines

Setting the Default Scroll Area

To set the default scroll panel area for the current session, enter one of the commands shown in the table that follows, or set the value on the PROFILE panel. See the chapter titled "/CONFIG Menu Options" for more information. The default scrolling value is DATA.

Enter This Command	To Set The Default Scroll Amount
SCROLL PAGE	To one full panel of data
SCROLL HALF	To one half panel of data
SCROLL DATA	So that the current last line of the panel is the first line on the next panel of data (this is the default)
SCROLL *nnn*	To *nnn* lines

Refreshing the Data on a Panel

You can refresh the data displayed on a panel manually or automatically.

To manually refresh the data displayed on a panel, press Enter.

You can use the AUTO command to automatically refresh displayed data at a specified interval. (For information about setting the interval, see the description of the PROFILE panel in the chapter titled "/CONFIG Menu Options.") Five seconds is the default.

To turn on automatic redisplay, do one of the following:

- Enter **AUTO** on the command line.
- Press F9 (Auto On) while viewing any Unicenter CA-Explore for CICS panel.

To stop automatic redisplay, do one of the following:

- Enter **AUTO OFF** on the command line.
- Press F9 (Auto Off) while viewing any Unicenter CA-Explore for CICS panel.

Exiting Your Unicenter CA-Explore for CICS Session

To return to your home environment, do one of the following:

- On the command line of any Unicenter CA-Explore for CICS panel, enter **EXIT** or **END.**
- From any Unicenter CA-Explore for CICS panel, press PF12 (Exit). If the configuration parameter CLEAR-KEY-EXITS=YES has been specified, press the CLEAR key to exit.
- From the Unicenter CA-Explore for CICS Main menu, press F3 (Return).

Using Mainframe Help

Unicenter CA-Explore for CICS provides a complete mainframe help facility. Help panels are maintained as source library members and are cataloged as part of installation.

Accessing Mainframe Help for a Field

Field-level help provides the following features:

- Explains the data in the field.
- Identifies which control block maintains the field.
- Identifies who maintains data in the control block.
- Identifies which format is used for the data (character, hexadecimal, and so forth.).
- Indicates whether the data is extracted, accumulated, or calculated.
- If the data is calculated, displays the formula used to perform the calculation.
- Displays additional information, such as related configuration options or commands.

To access the mainframe help for a specific field on a Unicenter CA-Explore for CICS panel, position the cursor anywhere in the field and press F1.

Accessing Mainframe Help for a Panel

To access the mainframe help for a panel, do one of the following:

- On the command line of any Unicenter CA-Explore for CICS panel, enter **HELP** followed by the topic for which you want help.
- Press F1 on the panel for which you want help.
- Enter **H** next to any option listed on a Unicenter CA-Explore for CICS menu.

Accessing All Available Mainframe Help

To access all available mainframe help, do one of the following:

- Enter **TOPICS** on the command line to display a complete list of topics for which mainframe help is available. Cursor-select any topic.
- Cursor-select the HELP option on the Unicenter CA-Explore for CICS Main menu.

Exiting Mainframe Help

To exit the help facility, press F3 (Return) until the initial panel or menu appears.

Creating and Maintaining Mainframe Help

You can make the following changes to the mainframe help facility:

- Change the information that appears on online help panels.
- Create new help panels and help topics.
- Change the color of text anywhere on the panel.
- Change highlighting mode anywhere on the panel.

Modifying a Help Panel

Follow the steps below to change the information that appears on an existing help panel:

Step	Action
1.	Access the member of the Unicenter CA-Explore for CICS product library you want to modify. The member name is the same as the help topic name that appears in the upper left corner of help panels as HELP=*topicname*. Help member names are appended with .H.
2.	Edit the text of the member to make the changes you want. To change the color or intensity of any subsequent text on a line, insert the appropriate code at the start of the line or within the line. See the section Specifying Color and Highlighting in Help Members later in this chapter for explanations of the codes.
3.	Save the changes. Changes take effect immediately.

Creating a Help Panel

Follow the steps below to create a new help panel:

Step	Action
1.	Create a new member in the Unicenter CA-Explore for CICS product library. Give the member the name you want to be the help topic name, and append .H to the name. See the next section, Adding a Help Topic to the TOPICS Panel, for the procedure for adding the new topic to the TOPICS panel.
2.	Edit the member to include the information you want to be displayed on the help panel. To specify the color or intensity of any subsequent text on a line, insert the appropriate code at the start of the line or within the line. See the section Specifying Color and Highlighting in Help Members later in this chapter for explanations of the codes.
3.	Save the changes. Changes take effect immediately.

Adding a Help Topic to the TOPICS Panel

Follow the steps below to add a help topic to the TOPICS panel:

Step	Action
1.	Access member $HELP.P in the Unicenter CA-Explore for CICS installation library.
2.	Edit the member to include the new help topic. The topic must be the same as the name of the member containing the information for the topic. Insert the new topic in alphabetical order, on its own row, beginning in column one.
3.	Save the changes. Changes take effect immediately.

Specifying Color and Highlighting in Help Members

The table below describes the following:

- Codes used to specify the color in which subsequent text on a line is displayed.
- Codes used to specify low or high intensity display mode for lines on help panels. Note that highlighting codes can be used at the start of a line only.

No spaces or other delimiters are required between the codes and subsequent text. More than one code can be used on each line.

The member USERHELP in the Unicenter CA-Explore for CICS product library shows examples of how these codes are used.

To Display Subsequent Text On A Line In This Color	Use This Code At The Start Of The Line (Cols. 1 and 2)	Or Use This Code In The Middle Of The Line (Any Col. 3-80)
Blue	.B	&
Red	.R	!
Yellow	.Y	~
Green	.G	\
White	.W	`
Turquoise	.T	?
Low intensity	.L	\
High intensity	.H	`

The following is a portion of the help member for the help topic MRO. If you display the online help for the MRO command, you can see how the codes in this sample member affect the online display.

```
|...+....1....+....2....+....3....+....4....+....5....+....6....+....7...
.Y                 Unicenter CA-Explore for CICS Command Help

.TCommand     =\MRO
.TFunction    =\Display MRO (Multi-Region Operation) Statistics
.TMenu        =\/TABLES

.BSyntax:\MRO {netname}

.GThe`MRO\panel provides full availability to statistics pertaining to all

.Gconnected regions in the MRO complex (both local and remote). This applies

.Gto LU connections as well as IRC and ISC connections.

.GBy default, all systems will be displayed. The display can be limited to

.Ga specific system by entering the netname of that system as part of the
.Gcommand (Ex. MRO PRODCICS).
```

Using Panel Display Color Features

Unicenter CA-Explore for CICS provides the enhanced display modes of color and extended highlighting. The color enhancement features and the commands used to activate these features are listed in the following table. You can enter these commands on the command line of any Unicenter CA-Explore for CICS panel.

To Activate This Feature	Use This Command
Color and extended highlighting	COLOr ON (activates both color and extended highlighting)
Color only	COLOr ONLY
Extended Highlighting	HILight ON
Monochrome	MONO (no extended data streams)

See the chapter titled “Function Commands” for more information about the color and highlighting functions. Refer also to the Help facility.

Customizing Submenus

You can change the options that appear on any Unicenter CA-Explore for CICS submenu. You can move an option to any submenu; however, an option can appear on only one submenu.

Use either of the following methods to assign options to submenus:

- To temporarily change submenu options, use the CMDMENU command. These changes remain in effect only until Unicenter CA-Explore for CICS is terminated. See the chapter titled "Function Commands" for more information.
- To change submenu options permanently, use command option override members. See the chapter titled "Command Option Overrides" for more information.

Customizing the /USER Submenu

You can customize the /USER submenu to include any command options, such as those you use frequently. By default, no command options are assigned to the /USER submenu.

Using Generic Characters to Limit Panel Data Displays (Masking)

You can use generic characters, or *wildcards*, in some Unicenter CA-Explore for CICS command parameters to limit the scope of the information displayed by the command. The generic characters, asterisk (*), plus sign (+), and not sign (¬), let you limit (or *mask*) data displayed in a panel to only those resources having common characters in their names.

Using the REGIONs command as an example, specifying REGION DE* limits the data display to regions having names that begin with DE.

The following sections show how to use the generic characters as wildcards.

Using the Asterisk (*) as a Wildcard

You can use the asterisk (*) to mask one or more characters in a string. Use the asterisk to display:

- All items
- Items with one or more characters in common

The following table shows examples of the asterisk used as a wildcard:

If You Enter	Then The Panel Will Display Information About
*	All items
D*	Items whose names begin with D
D*V	Items whose names begin with D and end with V

Using the Plus Sign (+) as a Wildcard

The plus sign (+) masks single characters one to one. Use the plus sign to display items sharing one or more characters in specific positions within their names. The following table shows examples of the plus sign used as a wildcard:

If You Enter	Then The Panel Will Display Information About
+++	All items with three-character names
D+V	Items with three-character names beginning with D and ending with V
D++V	Items with four-character names beginning with D and ending with V

Using the Not Sign (¬) as a Wildcard

Use the not sign (¬) to display items **not** containing one or more of characters you specify. The following table shows examples of the not sign used as a wildcard:

If You Enter	Then The Panel Will Display Information About
¬ EV*	All items not beginning with EV
¬ VTA*	All items not beginning with VTA

Chapter 2

Function Commands

This chapter explains how to use the system-wide function commands. You can enter any of these commands from any Unicenter CA-Explore for CICS panel.

Note: This chapter discusses the uses of Unicenter CA-Explore for CICS with CICS Version 2.3 (CICS 2.3) and CICS Transaction Server Version 1.1 (TS 1.1). Unless a distinction is noted, the information applies to both versions.

Command Descriptions

The following table is a summary of the function commands, which are described in detail in this chapter:

Command	Function
ADDSESS	Adds a logical Unicenter CA-Explore for CICS session to the current session.
ALIGN	Sets the default alignment of virtual storage displays.
ALTER	Turns the full screen ALTER mode on or off.
AUTO	Turns the automatic redisplay feature on or off.
AUTOTIME	Defines the delay time for automatic redisplay of panels.
BWZ	Suppresses data containing a zero value.
CAPS	Turns uppercase translation on or off.
CAPTURE	Activates or deactivates the capture facility.
CEMT	Sends CICS CEMT commands to be processed.
CLRSTACK	Clears the display stack.
CMDMENU	Assigns a command to appear as an option on a submenu.
COLOr	Turns color display mode on or off.
DELETEQ	Deletes a temporary storage queue.

Command	Function
DGENTBL	Displays the results of the GENTABLE command (CICS 2.3 only).
EQUate	Defines a symbol that can be entered on a storage display panel to display storage at the address defined for the symbol.
FREEZE	Stops CICS from executing.
GENTABLE	Adds, replaces, or deletes CICS table manager entries (CICS 2.3 only).
HARDCopy	Writes screens to the terminal or the SYSLST file.
HILight	Turns the extended highlighting display mode on or off.
IDUMP	Dumps storage information you specify.
MAPUTIL	Loads or deletes map definitions.
MIXED	Turns uppercase translation off.
MONITOR	Monitors a Unicenter CA-Explore for CICS partition.
MONO	Sets display mode to monochrome.
MSCROLL	Sets the default memory scroll value.
PFKEYS	Turns the F-key display lines on or off.
PLOTBAR	Sets the default bar style to be used on plots.
POP	Pops the top display address from the stack of previously-displayed addresses.
PRINT	Writes screens to the SYSLST file.
PURGEAID	Purges an Authorized Initiate Descriptor (AID). (CICS 2.3 only)
PURGEICE	Purges an Interval Control Element (ICE).
PUSH	Pushes the current display address onto the stack of previously-displayed addresses.
RESUME	Issues a resume for a CICS transaction (CICS 2.3 only).
SATISFY	Notifies FAQS/ASO or FAQS/PCS that conditions have been met to satisfy an event.
SCALE	Turns the scale line on or off.
SCREEN	Sets the screen size.
SCROLL	Sets the default scroll value.

Command	Function
SEGMENT	Segments output to the SYSLST file.
SNAP	Snap dumps virtual storage to the SYSLST file.
SORT	Sorts the displayed data.
SUSPEND	Suspends a CICS transaction (CICS 2.3 only).
SWITCH	Selects a Unicenter CA-Explore for CICS partition for monitoring.
SYSLST	Writes text you specify to the SYSLST file.
TRANKILL	Cancels a CICS transaction.
VSE	Issues VSE console commands from Unicenter CA-Explore for CICS.

ADDSESS Command

The ADDSESS command adds a logical session to the current Unicenter CA-Explore for CICS session, and makes the new logical session the current session. Each session will acquire 24K of 24-bit partition GETVIS. Adding many sessions may deplete your 24-bit partition GETVIS storage.

By opening multiple Unicenter CA-Explore for CICS sessions, you can monitor multiple CICS partitions. Once multiple sessions are open, you can toggle from session to session by pressing F13.

Command Syntax

```
ADDSESS
```

Use

You should add sessions from your initial Unicenter CA-Explore for CICS session only. To exit a session, press F12 or the Clear Key if you specified CLEAR-KEY-EXITS=YES. You can press F3 to exit a session once you are in the main menu.

Related Configuration Option

The MULTI-SESSION-JUMP-KEY configuration option specifies the F key used to jump from one logical session to another. F13 is assigned by default.

Related Commands

- MONITOR
- SESSIONS
- SWITCH

ALIGN Command

The ALIGN command sets the default alignment for virtual storage displays.

Command Syntax and Operands

```
ALIGN {Inquire}
      {None}
      {Halfword|Fullword|Doubleword|Page}
```

Operand	Description
Inquire	Displays the current default alignment.
None	Sets the default alignment to none.
Halfword	Sets the default alignment to a half word.
Fullword	Sets the default alignment to a full word.
Doubleword	Sets the default alignment to a double word.
Page	Sets the default alignment to a page.

Alternate Method of Setting Display Alignment

You can also display or alter the default alignment for virtual storage displays by using the PROFILE command.

Related Configuration Option

DISPLAY-ALIGN

Related Commands

- PROFILE
- DISPLAY

ALTER Command

The ALTER command activates or deactivates the full-screen zap function. When the full-screen zap function is active, you can alter the contents of storage on a storage display panel.

WARNING! *Leaving the full-screen zap function in active mode could result in accidental alteration of storage. After completing storage changes, enter ALTER OFF to deactivate the full-screen zap function.*

Command Syntax and Operands

```
ALTER [ON|OFF]
```

Operand	Description
ON	Activates the full-screen zap function.
OFF	Deactivates the full-screen zap function.

This is a toggle command. If you omit the operand ON or OFF, the ALTER command turns the full-screen zap function on when off, or turns the full-screen zap function off when on.

AUTO Command

The AUTO command performs the following functions:

- Activates or deactivates the automatic redisplay feature.
- Begins or terminates execution of the command list you specify or the command list defined in your user profile. If you do not specify a command list when entering the command and none is defined in your user profile, no command list is started.

When automatic redisplay is on, data on panels is automatically refreshed at intervals defined by using the AUTO-REFRESH-TIME command. The default interval is 5 seconds.

Command Syntax and Operands

```
AUTO [ON][cmdlist]|[OFF]
```

Operand	Description
ON	Activates the automatic redisplay feature. When you activate automatic redisplay, execution of a command list begins.
cmdlist	Identifies a command list. If you do not specify a command list, the command list specified in your user profile is used. Seethe chapter "/CONFIG Menu Options" for more information about using the PROFILE panel to define your user profile. To display a list of available command lists, enter CMDLIST on the command line of any Unicenter CA-Explore for CICS panel.
OFF	Deactivates the automatic redisplay feature.

This is a toggle command. If you omit the operand ON or OFF, the AUTO command turns automatic redisplay on when off, or turns automatic display off when on. If an invalid operand is entered, the AUTO command functions as though no operand was specified.

Use

The AUTO command is not supported if you access Unicenter CA-Explore for CICS from FAQS/ASO for VSE. To set a maximum duration for automatic redisplay, use the PROFILE command. If you set the maximum duration to zero, no time limit is set.

When automatic display is on, an A appears to the right of the current command in the upper right portion of the screen.

F-Key

Press F9 on any Unicenter CA-Explore for CICS panel to turn automatic display off when on or on when off.

Related Configuration Option

AUTO-REFRESH-TIME

Related Commands

- AUTOTIME
- PROFILE
- CMDLIST

AUTOTIME Command

The AUTOTIME command specifies the number of seconds to delay for automatic redisplay of panels.

Command Syntax and Operands

```
AUTOTIME hhmmss
```

Operand	Description
hhmmss	Indicates the length of time to delay for screen redisplay in hours, minutes, and seconds. You can omit leading zeros. You must specify at least three (3) seconds. The default is five (5) seconds.

Use

To change the auto redisplay time, you can use either the AUTOTIME or PROFILE command.

Related Configuration Option

AUTO-REFRESH-TIME

Related Commands

- AUTO
- PROFILE

BWZ Command

The BWZ (Blank When Zero) command is used to control the display of resource data on most Flashback panels when the data contains a zero value.

Command Syntax and Operands

```
BWZ [ON|OFF]
    [Yes|No]
    [Inquire]
```

Operand	Description
ON	Suppresses data containing a zero value.
OFF	Displays data containing a zero value.
Yes	Suppresses data containing a zero value.
No	Displays data containing a zero value.
Inquire	Displays the status of the command.

This is a toggle command. If you omit the operand ON or OFF, the BWZ command turns data suppression on when off, or turns data suppression off when on. If you enter an invalid operand, the BWZ command functions as though no operands had been entered.

Related Command

FLSHBACK

CAPS Command

The CAPS command turns uppercase translation on or off.

Command Syntax and Operands

```
CAPS [ON|OFF]
```

Operand	Description
ON	Turns uppercase translation on (displays all letters in uppercase).
OFF	Turns uppercase translation off.

Related Configuration Option

CAPS

Related Command

MIXED

CAPTURE Command

The CAPTURE command activates or deactivates the capture facility, which saves screens so they can be redisplayed.

Command Syntax and Operands

```
CAPTURE [ON|OFF]
```

Operand	Description
ON	Activates the capture facility so that all panels you display are saved for redisplay.
OFF	Deactivates the capture facility.

This is a toggle command. If you omit the operand ON or OFF, the CAPTURE command turns the capture facility on when off, or turns the capture facility off when on.

Use

When the capture facility is on, a C appears to the right of the current command in the upper right portion of the screen. Screens are continuously saved until you use the CAPTURE command to deactivate the capture facility.

Related Command

REPLAY

CEMT Command

The CEMT command sends CICS CEMT commands to be processed.

Command Syntax and Operands

```
CEMT arguments
```

Operand	Description
arguments	Specifies any valid CEMT transaction command.

Use

To display the result of the CEMT command, use the DCEMT command.

Related Command

DCEMT

CLRSTACK Command

The CLRSTACK command deletes all addresses from the stack of previously displayed addresses.

Command Syntax

```
CLRSTACK
```

Related Commands

- DISPLAY
- POP
- PUSH
- STACK

CMDMENU Command

The CMDMENU command causes a Unicenter CA-Explore for CICS command to be displayed as an option on a submenu. This command is used to temporarily customize the Unicenter CA-Explore for CICS menu system.

Changes made using CMDMENU affect all users and remain in effect only until Unicenter CA-Explore for CICS is terminated. To make permanent changes, you can modify command option override members. See the chapter "Command Option Overrides" for more information.

Command Syntax and Operands

`CMDMENU` *`command submenu`*

Operand	Description
command	Identifies the command to be assigned as a submenu option. Specify the full command name; you cannot specify the short form of a command.
submenu	Identifies the submenu to which the command is to be assigned as an option. Include the forward slash (/) in the submenu name. The following are valid submenus: /CONFIG /DBASE /DISPLAY /EXPLORE /FILES /HELP /HISTORY /CAPROD /PROBLEM /STATUS /STORAGE /TABLES /USER /UTILITY /VSE

COLOr Command

The COLOr command turns the color and extended highlighting display modes on or off.

Command Syntax and Operands

```
COLOr [ON|OFF|ONLY]
```

Operand	Description
ON	Turns the color and extended highlighting display modes on.
OFF	Turns the color display mode off without changing the extended highlighting mode.
ONLY	Turns the color display mode on and turns the extended highlighting mode off.

If an invalid operand is entered, COLOr functions as though no operand has been entered, and color and extended highlighting default to ON.

Related Commands

- MONO
- HILight

DGENTBL Command (CICS 2.3 Only)

The DGENTBL command displays the results of the GENTABLE command.

Command Syntax

```
DGENTBL
```

Related Commands

GENTABLE

DELETEQ Command

The DELETEQ command deletes a temporary storage queue.

Command Syntax and Operands

```
DELETEQ {queueid|'hexchar'}
```

Operand	Description
queueid	Identifies the temporary storage queue you want to delete. If the *queueid* contains lower case characters, you must use the *hexchar* format to specify the *queueid*.
hexchar	Specifies the hexadecimal ID of the temporary storage queue you want to delete. You must enclose the value in single quotation marks.

EQUate Command

The EQUate command assigns a symbol name to a virtual storage address. The symbol name can then be entered on any Unicenter CA-Explore for CICS virtual storage panel to display the contents of storage at the address assigned to the symbol.

Command Syntax and Operands

```
EQUate symbolname [address|*] [length] [USing map]
```

Operand	Description
symbolname	Identifies the name of the symbol to be defined.
address	Specifies the address to be assigned to the specified symbol name. If the EQUate command is entered on a storage display panel and no address is specified, the address of the storage currently displayed is assigned.
*	Specifies that the starting address of the current display be assigned to the symbol name. If, for example, you enter an EQUate command with the * operand while you are on a DISPLAY panel displaying storage starting at address 003AB000, the address assigned to the symbol will be 003AB000.
length	Specifies the length of storage associated to the displayed.
map	Identifies the name of a map or DSECT control block to be displayed.

Use

Symbols can be used to mark memory locations while following storage chains.

Related Commands

- DISPLAY
- LISTMAPS
- MAP
- SYMBOLS

FREEZE Command

The FREEZE command stops CICS execution. Stopping CICS allows you to examine CICS storage without it changing.

WARNING! Use this command with extreme caution.
If you freeze the CICS partition and then issue the FREEZE OFF command, transactions may abend because of time constraints. If you issue the FREEZE ON command in a CICS 2.3 or TS 1.1 session, you will stop CICS from processing any transactions, and your Unicenter CA-Explore for CICS session will not respond. This means that you must access Unicenter CA-Explore for CICS from a non-CICS interface to issue the FREEZE OFF command.

Command Syntax and Operands

```
FREEZE {ON|OFF}
```

Operand	Description
ON	Stops CICS from executing.
OFF	Allows CICS to execute.

Use

You can set a threshold that, when triggered, issues the FREEZE command. See the chapter "Performance Thresholds" for an explanation of how to set thresholds.

GENTABLE Command (CICS 2.3 Only)

The GENTABLE command dynamically adds, replaces, or deletes CICS table manager entries. All changes are logged to the console.

Command Syntax and Operands

```
GENTABLE function {PPT program [language|Asm]}
                  {PCT tran program [profile|DFHCICST]}
```

Operand	Description
function	Specifies one of the following functions: Add — Adds CICS table manager entries. Replace — Replaces the CICS table manager entry for the specified program or transaction. Delete — Deletes CICS table manager entries.
PPT	Indicates that the Program Processing Table is to be modified.
program	Identifies the name of the program.
language	Specifies one of the following languages: Asm Assembler C370 C 370 Cob COBOL Rpg RPG Pli PLI Map BMS MAP The default is Asm.
PCT	Indicates that the Program Control Table is to be modified.
tran	Specifies the name of the transaction.
program	Specifies the name of the program.
profile	Specifies the name of the user profile. The default is DFHCICST.

Use

To display the response from the GENTABLE command, use the DGENTBL command.

Related Command

DGENTBL

HARDCopy Command

The HARDCopy command controls whether screens are written to both the terminal and the SYSLST file or to the terminal only.

Command Syntax and Operands

```
HARDCopy [ON|OFF]
```

Operand	Description
ON	Writes screens to the terminal and to the SYSLST file.
OFF	Writes screens only to the terminal.

This is a toggle command. If you omit the operand ON or OFF, the HARDCopy command toggles between writing screens to both the terminal and the SYSLST file, and writing screens to the terminal only.

Use

Before you print a screen that contains reverse video graphics, you must set your terminal to monochrome display mode using the MONO command.

When the HARDCopy command is on, an H appears to the right of the current command in the upper right portion of the screen. Screens are continuously printed until you issue the HARDCopy OFF command.

Related Commands

- PRINT
- SEGMENT
- SNAP
- SYSLST

HILight Command

The HILight command turns the extended highlighting display mode on or off.

Command Syntax and Operands

```
HILight [ON|OFF|ONLY]
```

Operand	Description
ON	Turns extended highlighting on, but does not affect the color setting.
OFF	Turns extended highlighting off, but does not affect the color setting.
ONLY	Turns extended highlighting on and turns color off.

Related Commands

- COLOr
- MONO

IDUMP Command

The IDUMP command dumps storage information you specify and writes the output to SYSLST.

Command Syntax and Operands

```
IDUMP {USERPART}{,SUPERVIS}{,SUPERCBS}{,SVA}{,SGETVIS}{,DGETVIS}
      {ALL}
```

Operand	Description
USERPART	Dumps the user partition storage area.
SUPERVIS	Dumps the supervisor storage area.
SUPERCBS	Dumps the supervisor control blocks.
SVA	Dumps the SVA storage area.
SGETVIS	Dumps the system GETVIS storage area.
DGETVIS	Dumps the dynamic GETVIS storage area.
ALL	Dumps all of the above storage areas.

If no operands are specified, the user-partition storage area and the supervisor control blocks are dumped (USERPART and SUPERCBS).

WARNING! Use this command with extreme caution.
It will take a substantial amount of time to complete, and the display timer will drop your terminal session in CICS.

Related Configuration Options

- DUMP-DYNAMIC-GETVIS
- DUMP-EXTENDED
- DUMP-IGNORE-JCL
- DUMP-SEGMENT
- DUMP-SUPERVISOR
- DUMP-SUPERVISOR-CBS
- DUMP-SVA
- DUMP-SYSTEM-GETVIS
- DUMP-USER-PARTITION

MAPUTIL Command

The MAPUTIL command loads or deletes map definitions.

Command Syntax and Operands

```
MAPUTIL {LOAD member}
        {LOADList member}
        {DELete map member}
```

Operand	Description
LOAD	Loads the specified member containing map definitions.
member	Specifies the name of a member containing map definitions.
LOADList	Loads the specified member containing a list of members that contain map definitions.
DELete	Deletes the definition for the specified map from the specified member.
map member	Specifies the name of a map.

Related Configuration Options

- MAPS-INITIALIZE
- MAPS-MEMBER

Related Commands

- DISPLAY
- LISTMAP
- MAP
- SYMBOLS

MIXED Command

The MIXED command turns uppercase screen translation off.

Command Syntax

```
MIXED
```

Related Configuration Option

CAPS

Related Command

CAPS

MONITOR Command

The MONITOR command selects a Unicenter CA-Explore for CICS partition for monitoring. When you have multiple logical Unicenter CA-Explore for CICS sessions open, you can issue this command to select the partition you want to monitor in the current logical session.

Unlike the SWITCH command, the MONITOR command does not close the session from which you enter the command.

Command Syntax and Operand

```
MONITOR [jobname]
```

Operand	Description
jobname	Specifies the CICS jobname of the partition you want to monitor, as defined in the monitor initialization table.

Use

A list of available partitions is displayed on the SYSTEM panel.

Related Command

SYSTEM

MONO Command

The MONO command turns the color and extended highlighting display modes off.

Command Syntax

```
MONO
```

Related Commands

- COLOr
- HILight

MSCROLL Command

The MSCROLL command sets the default memory scroll value.

Command Syntax and Operand

```
MSCROLL hex
```

Operand	Description
hex	Specifies the hexadecimal value of the default memory scroll value.

Use

You can also display or alter the default memory scroll value using the PROFILE command.

Example

```
MSCROLL 1000
```

Related Configuration Option

SCROLL-MEMORY

Related Commands

- DISPLAY
- PROFILE

PFKEYS Command

The PFKEYS command turns the F-key display lines on or off.

Command Syntax and Operands

```
PFKEYS [ON|OFF]
```

Operand	Description
ON	Turns the F-key display lines on.
OFF	Turns the F-key display lines off.

This is a toggle command. If you omit the operand ON or OFF, the PFKEYS command turns the F-key display lines on when off, or turns the F-key display lines off when on.

PLOTBAR Command

The PLOTBAR command sets the default bar style to be used on plots.

Command Syntax and Operands

```
PLOTBAR {Overlay|Stacked|Points}
```

Operand	Description
Overlay	Displays bars in an overlay style.
Stacked	Displays bars in stacked style.
Points	Displays point values only.

POP Command

The POP command pops the top display address from the stack of previously-displayed addresses.

Syntax

```
POP
```

Related Commands

- PUSH
- STACK

PRINT Command

The PRINT command writes the current screen to the SYSLST file.

Command Syntax

```
PRINT
```

Use

In order to print a screen that contains reverse video graphics, you must set your terminal to monochrome display mode using the MONO command.

Related Commands

- HARDCopy
- MONO
- SEGMENT
- SNAP
- SYSLST

PURGEAID Command (CICS 2.3 Only)

The PURGEAID command purges the Authorized Initiate Descriptor (AID) that you specify. This is a CICS 2.3 only command.

Command Syntax and Operands

```
PURGEAID id [ 'hexchar' ]
```

Operand	Description
id	Specifies the ID of the AID you want to purge.
'hexchar'	Specifies the hexadecimal ID of the AID you want to purge. You must enclose the value in single quotation marks.

PURGEICE Command

The PURGEICE command purges the Interval Control Element (ICE) you specify.

Command Syntax and Operands

```
PURGEICE id [transid] [sysid]
```

Operand	Description
id	Specifies the ID of the ICE you want to purge.
transid	Specifies the transaction ID of the ICE you want to purge.
sysid	Specifies the system ID of the ICE you want to purge.

PUSH Command

The PUSH command pushes the current display address onto the stack of previously-displayed addresses.

Command Syntax

```
PUSH
```

Related Commands

- POP
- STACK

RESUME Command (CICS 2.3 Only)

The RESUME command issues a resume for a CICS transaction.

Command Syntax and Operands

```
RESUME {transid task#}
       {.transid task#}
```

Operand	Description
transid	Specifies the transaction ID of the CICS transaction you want to resume. Use this operand when the transaction is defined as uppercase to the system.
.*transid*	Specifies the transaction ID of the CICS transaction you want to resume. Use this operand when the transaction is defined as lowercase to the system.
task#	Specifies the task number of the transaction.

Related Command

SUSPEND

SATISFY Command

The SATISFY command notifies FAQS/ASO or FAQS/PCS that Unicenter CA-Explore for CICS has determined that conditions have been met to satisfy FAQS requirements for an event. You can use this command to manually notify FAQS that conditions have been met to satisfy an event.

Unicenter CA-Explore for CICS can automatically notify FAQS of satisfied conditions for an event using thresholds. See "Performance Thresholds" for more information about setting Unicenter CA-Explore for CICS thresholds.

Command Syntax and Operands

```
SATISFY event [prod]
```

Operand	Description
event	Specifies the name of the event whose conditions have been satisfied.
prod	Specifies the name of the product that determined the event conditions have been satisfied. If you do not specify a product name, the default value EXPC is used, indicating that Unicenter CA-Explore for CICS determined that conditions have been satisfied.

SCALE Command

The SCALE command turns the scale line on or off.

Command Syntax and Operands

```
SCALE [ON|OFF]
```

Operand	Description
ON	Turns the scale line on.
OFF	Turns the scale line off.

This is a toggle command. If you omit the operand ON or OFF, the SCALE command turns the scale line on when off, or turns the scale line off when on.

Example

The scale line appears as shown at the top of the following figure:

```
....+....1....+....2....+....3....+....4....+....5....+....6....+....7....+
   Name     Id  Type   Status  Master    Applid
_  EXPC500  MA  Master Active  EXPC500   EXPCVTM5
_  CICS21A  2A  Slave  Active  EXPC500   NO
_  CICS21B  2B  Slave  Active  EXPC500   NO
```

SCREEN Command

The SCREEN command sets the screen size.

Command Syntax and Operands

```
SCREEN {PRImary|ALTernate}
```

Operand	Description
PRImary	Sets the screen size to the primary screen size.
ALTernate	Sets the screen size to the alternate screen size.

Use

You can select the maximum available screen size during logon by specifying the configuration option SCREEN-SIZE-MAX=YES.

The following screen sizes are supported:

- Mod 2 - 24 x 80
- Mod 3 - 32 x 80
- Mod 4 - 43 x 80
- Mod 5 - 27 x 132

Related Configuration Option

SCREEN-SIZE-MAX

SCROLL Command

The SCROLL command sets the default scroll value, which determines the amount of data scrolled when you press F7 or F8.

Command Syntax and Operands

```
SCROLL {Page|Half|Data|nnnn}
```

Operand	Description
Page	Sets the scroll value to one full page.
Half	Sets the scroll value to one half page.
Data	Sets the scroll value so that the bottom line displayed becomes the top line.
nnnn	Sets the scroll value to *nnnn* lines.

Use

The current default scroll value is displayed in the upper right corner of the PROFILE panel. Your position within a scrollable screen is provided in the format *current*:*last*/*maximum*.

For example, when 1:18/35 is displayed, the first line of data displayed is number 1, the last line is number 18, and the total number of available lines is 35.

SEGMENT Command

The SEGMENT command segments the output in the SYSLST file.

Command Syntax

```
SEGMENT
```

Related Commands

- HARDCopy
- PRINT
- SNAP
- SYSLST

SNAP Command

The SNAP command dumps the number of bytes of virtual storage specified by the SNAP-SIZE configuration option to the SYSLST file.

Command Syntax and Operands

```
SNAP {address} [hexlength]
     {*}
```

Operand	Description
address	Specifies the address in virtual storage to be dumped to the SYSLST file. If omitted, the value defaults to that specified in the SNAP-SIZE configuration option. The default value for the SNAP-SIZE option is hexadecimal value 400.
hexlength	Specifies the length of storage to dump, in hexadecimal.
*	Specifies the current address in virtual storage is to be dumped.

Related Configuration Option

SNAP-SIZE

Related Commands

- HARDCopy
- PRINT
- SEGMENT
- SYSLST

SORT Command

The SORT command sorts the data being displayed.

Command Syntax and Operands

```
SORT [argument [Ascending|Descending]]
```

Operand	Description
argument	Specifies any valid sort argument.
Ascending	Causes arguments to be sorted in ascending order.
Descending	Causes arguments to be sorted in descending order.

If no operands are specified, a list of valid sort arguments will be displayed on the message line.

SUSPEND Command (CICS 2.3 Only)

The SUSPEND command suspends a CICS transaction. You can use this command only if the SUSPEND-ALLOWED configuration option is set to YES.

For Unicenter CA-Explore for CICS to suspend a task, the transaction must be using command-level or macro-level calls.

WARNING! *Suspending transactions can produce unexpected results due to the nature of the interface with the operating system. Though problems are rare due to the safeguards provided, be aware of the risk involved in suspending tasks.*

Command Syntax and Operands

```
SUSPEND {transid task#}
        {.transid task#}
```

Operand	Description
transid	Specifies the transaction ID of the CICS transaction you want to suspend. Use this operand when the transaction is defined as uppercase to the system.
.transid	Specifies the transaction ID of the CICS transaction you want to suspend. Use this operand when the transaction is defined as lowercase to the system.
task#	Specifies the task number of the transaction.

Related Configuration Option

SUSPEND-ALLOWED

Related Command

RESUME

SWITCH Command

The SWITCH command selects a Unicenter CA-Explore for CICS partition to monitor. This command closes the Unicenter CA-Explore for CICS session from which it is issued and opens a new session monitoring the partition you specify.

Command Syntax and Operands

```
SWITCH [jobname|partitionid]
```

Operand	Description
jobname	Specifies the jobname of CICS in the partition you want to monitor, as defined in the monitor initialization table.
partitionid	Specifies the ID of the partition you want to monitor.

Use

You should use the MONITOR command instead of the SWITCH command to select partitions to monitor if you have opened multiple sessions using the ADDSESS command. Unlike the SWITCH command, the MONITOR command does not close the session from which it is issued.

A list of available partitions is displayed on the SYSTEM panel.

Related Command

SYSTEM

SYSLST Command

The SYSLST command writes the line of text you specify to the SYSLST file.

Command Syntax and Operands

```
SYSLST text
```

Operand	Description
text	Specifies the text to be written to the SYSLST file.

Related Commands

- HARDCopy
- PRINT
- SEGMENT
- SNAP

TRANKILL Command

The TRANKILL command cancels a CICS transaction.

For Unicenter CA-Explore for CICS to cancel a task, the transaction must be using command-level or macro-level calls.

WARNING! *Canceling transactions can produce unexpected results due to the nature of the interface with the operating system. Though safeguards are provided and problems are rare, be aware of the risk involved in canceling tasks.*

Command Syntax and Operands

```
TRANKILL {transid task# [SOS]}
         {.transid task# [SOS]}
```

Operand	Description
transid	Specifies the transaction ID of the CICS transaction you want to cancel. Use this operand when the transaction is defined as **uppercase** to the system.
.transid	Specifies the transaction ID of the CICS transaction you want to cancel. Use this operand when the transaction is defined as **lowercase** to the system.
task#	Specifies the task number of the transaction.
SOS	Turns on the short-on-storage indicator bit in CICS.

VSE Command

The VSE command lets you issue VSE console commands from any Unicenter CA-Explore for CICS panel.

Command Syntax and Operands

```
VSE command
```

Operand	Description
command	Specifies any valid VSE console command to be issued.

Related Command

CONSOLE

Chapter 3

/PROBLEM Menu Options

This chapter describes the /PROBLEM menu, which you can use to display such information as global system activity, queue element areas, and the CICS trace table.

Note: This chapter discusses the uses of Unicenter CA-Explore for CICS with CICS Version 2.3 (CICS 2.3) and CICS Transaction Server Version 1.1 (TS 1.1). Unless a distinction is noted, the information applies to both versions.

/PROBLEM Menu

The /PROBLEM menu lists the commands that you can issue to display information collected by Unicenter CA-Explore for CICS about the following:

Information About	For CICS Version
The Program Check Abend Trace table	CICS 2.3
Kernel Error Data table	TS 1.1
Global System Activity	CICS 2.3 and TS 1.1
Queue Element Areas	CICS 2.3 and TS 1.1
The CICS Trace table	CICS 2.3 and TS 1.1
All CICS Partitions (in summary form)	CICS 2.3 and TS 1.1

The name of the panel the command displays is listed next to each command on the menu. You can issue these commands either by cursor-selecting them on the /PROBLEM menu, or by entering them on the command line of any Unicenter CA-Explore for CICS panel.

Menu Access

- Cursor-select the /PROBLEM option on the Unicenter CA-Explore for CICS Main menu.
- Type any character (except H) in the space provided to the left of the command and press Enter.

Command Access

Enter **/PR** or **/PROBLEM** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Menu With CICS 2.3

```
CA-Explore for CICS  7.0 0204  DEVCICS4 DB2CICS  FAQS       2003/06/30 12:43:44
==>                                                                  /PROBLEM
                  CA-Explore for CICS Menu -  /PROBLEM              1:5/5-DATA

                      Command     Description
                    _ ABENDS      Program Check Abend Trace Table
                    _ GLOBAL      Global System Information
                    _ QEAS        Queue Element Areas
                    _ TRTABLE     CICS Trace Table
                    _ XMONITOR    Extended Monitor Status

F1=Help      F2=System     F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward    F9=Auto      F10=         F11=         F12=Exit
```

Sample Menu With TS 1.1

```
CA-Explore for CICS  7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/06/30 12:40:12
 ==>                                                                 /PROBLEM
                  CA-Explore for CICS Menu -  /PROBLEM              1:5/5-DATA

                      Command     Description
                    _ ABENDS      Kernel Error Data Table
                    _ GLOBAL      Global System Information
                    _ QEAS        Queue Element Areas
                    _ TRTABLE     CICS Trace Table
                    _ XMONITOR    Extended Monitor Status

F1=Help      F2=System     F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward    F9=Auto      F10=         F11=         F12=Exit
```

Panel Display Options

To display a panel listed on the /PROBLEM menu, enter the appropriate command for your version, as shown in the following table:

This Command	Displays	Default Sort Argument	For CICS Version
ABENDs	Information from the Program Check Abend Trace table	ID	CICS 2.3
ABENDs	Information from the Kernel Error Data table	None	TS 1.1
GLOBAL	Global system information	None	CICS 2.3 and TS 1.1
QEAS	Information about a resource enqueued by a task	None	CICS 2.3 and TS 1.1
TRTable	Information about CICS trace table entries	None	CICS 2.3 and TS 1.1
XMONITOR	A summary of the condition of all CICS regions	NAME	CICS 2.3 and TS 1.1

ABENDS Panel

The ABENDS panel displays information from the appropriate table for your version:

Table	For CICS Version
Program Check Abend Trace table	CICS 2.3
Kernel Abend Error table	TS 1.1

Menu Access

On the /PROBLEM menu, cursor-select the ABENDS option.

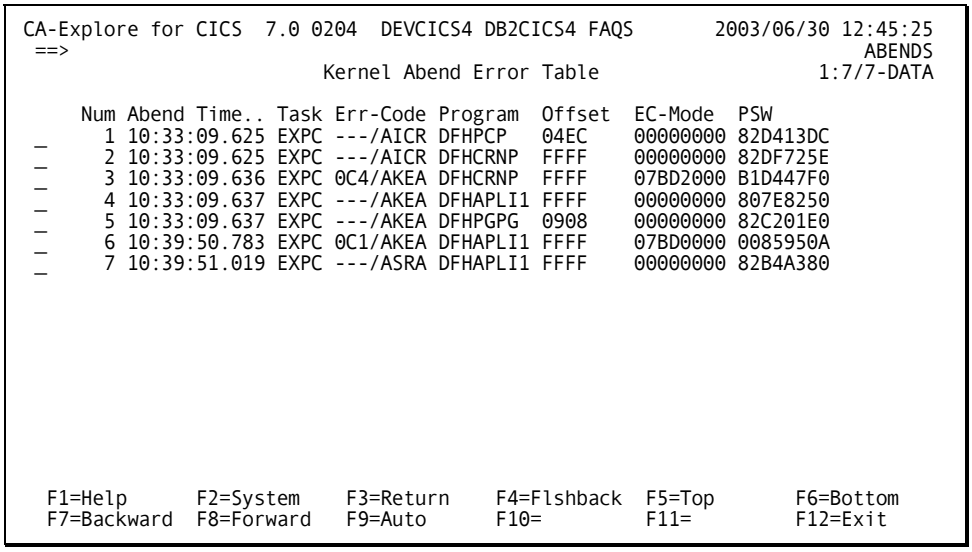
Command Access

Enter **ABEND** or **ABENDS** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Panel With CICS 2.3

```
CA-Explore for CICS  7.0 0204  DEVCICS4 DB2CICS  FAQS       2003/06/30 12:44:45
==>                                                                   ABENDS
                        Program Check Abend Trace Table                1:4/4

    Num Id Task# TCA-Addr Stack    TRT-Addr ID  Req EC-Mode  PSW     Interrupt
_     1 PC 00031 000EE190 000EE5B0 00F07680 E1 00F4 078D2000 0020B630 00060007
_     2 PC 00035 000EE190 000EE810 00F09020 E1 00F4 078D2000 0020B630 00060007
_     3 PC 00048 000EE190 000EE810 00F06580 E1 00F4 078D2000 0020B718 00060001
_     4 PC 00050 000EE190 000EE810 00F05DC0 E1 00F4 078D2000 0020B718 00060001
_




F1=Help         F2=System     F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward     F8=Forward    F9=Auto      F10=         F11=         F12=Exit
```

Sample Panel With TS 1.1



Panel Field Descriptions

The following table describes the fields on your panel as appropriate for your version.

Field	Description	For CICS Version
Num	Abend entry number	CICS 2.3 and TS 1.1
Id	Identifier: PC (program check) or AB (abend)	CICS 2.3
Task#	Task number	CICS 2.3
TCA-Addr	Address of the TCA	CICS 2.3
Stack	Address of current LIFO stack entry	CICS 2.3
TRT-Addr	Address of current trace table entry	CICS 2.3
ID	Trace ID	CICS 2.3
Req	Trace request number	CICS 2.3
EC-Mode PSW	The value in the program status word when the task abended	CICS 2.3 and TS 1.1

Field	Description	For CICS Version
Interrupt	Interrupt information, as follows: ■ The first four characters indicate the instruction length. ■ The final four characters indicate the interrupt code.	CICS 2.3
Abend Time	Time of Abend	TS 1.1
Task	Task number	TS 1.1
Err-Code	Abend error codes	TS 1.1
Program	Name of CICS module	TS 1.1
Offset	Offset into CICS module	TS 1.1

Note: TS 1.1 collects abend information in the Kernel Abend Error table. CICS tracks the last CICS module that was in control when the abend occurred. It will not show the name of the program that caused the abend. One abend can generate multiple entries in the table. The entries for DHAPLI1 may contain the PSW of the abending program. Be sure to check the PSW to aid you in finding the abending program. This table helps you to determine the frequency of errors, and what transactions are abending.

Whenever an abend occurs in TS 1.1, entries are placed in the Kernel Error table. Not all abends result in the cancellation of a transaction that produces an error message or a transaction dump. If an application has an active HANDLE ABEND condition, any abend condition that follows is processed by the application, not by CICS. The application may decide to continue processing, or issue its own abend code.

An example describes where the program logic issues a HANDLE ABEND, and then does a RECEIVE MAP. If the user presses a PA, PF, Clear or Enter key without entering any data on the screen, then a MAPFAIL condition occurs. This MAPFAIL conditions drives the AEI9 abend, but because the application code issued the HANDLE ABEND, CICS turns control over to the application, whose logic determines the next step. The application logic may decide to continue processing, knowing that the AEI9 abend can be ignored. A better way to handle this situation would be to use the MAPFAIL condition, rather than the HANDLE ABEND.

In addition to information about abend situations that cancelled transactions, the Kernel Error table contains information about abend conditions that are being overridden by application code. This information can help you examine such applications to see if there is a better way to process the particular abend condition within the program logic. By changing questionable coding practices, your CICS applications become less prone to errors.

Margin Command

Command	Description
S	Displays the ABENDS Detail panel for the abend you select.

ABENDS Detail Panel

The ABENDS Detail panel displays detailed register, instruction, and offset information about a selected abend.

Access

On the ABENDS panel, cursor-select an abend.

Sample Panel With CICS 2.3

```
CA-Explore for CICS  7.0 0204  DEVCICS4 DB2CICS  CICS       2003/06/30 12:46:34
==>                                                                    ABENDS
                        Program Check Abend Trace Table

    Num Id Task# TCA-Addr Stack    TRT-Addr ID  Req EC-Mode  PSW     Interrupt
      1 PC 00260 000EE190 000EE810 00F07740 C8 0004 078D1000 001E7012 00020001

Registers at time of abend

R0    R8 R1    R9 R2   R10 R3   R11 R4   R12 R5   R13 R6   R14 R7   R15
001E77E4 000F0078 00570430 001E7030 00000000 00571278 000EE000 005DC600
005D926C 005DCA00 0056C2B0 000EE6B8 000EE190 000F0010 501E70A4 001E7010


Instructions via PSW 001E7012 Module DFH$AALL Offset 0000000A

001E7010 00000000 58F0F000 58F0F004 58F0F0D0  *.0...00..00..00}*
001E7020 58F0F014 58F0F00C 58FF000C 07FF0000  *.00..00.........*
001E7030 90ECD00C 183F4510 300E02EA 000058F0  *..}.....0*
001E7040 37A005EF 50D01004 18F1BF1F D0184780  *....&}...1..}...*
001E7050 3028D207 F05C1000 18DF58B0 D05CD503  *..K.0*.....}*N.*
001E7060 B00837A4 4780304C D503B008 37A84780  *...u....N....y..*
001E7070 304CD503 B00837AC 4770354C 4840B018  *..N.............*

F1=Help      F2=System     F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward    F9=Auto      F10=         F11=         F12=Exit
```

Sample Panel With TS 1.1

```
CA-Explore for CICS  7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/06/30 12:45:25
 ==>                                                                   ABENDS
                          Kernel Abend Error Table

     Num Abend Time.. Task Err-Code Program  Offset  EC-Mode  PSW
       1 10:33:09.625 EXPC ---/AICR DFHPCP   04EC    00000000 82D413DC

 Registers at time of abend
 R0    R8 R1    R9 R2   R10 R3   R11 R4   R12 R5   R13 R6   R14 R7   R15
 0000040C 02E7F7CC 02E7F5F0 82D40F34 02BA2780 02E7EF20 00000000 82FFFFC4
 02E7F7CC 0070A000 0070A000 82DF725E 007B9680 02E7F5F0 82D413DC 835FF080


 Instructions via PSW 82D413DC Module DFHPCP   Offset 04EC
 02D413B0 96808011 92038018 5090802C 92908001  *o...k...&...k...*
 02D413C0 410000D9 50008004 58D0C010 4100040C  *...R&....}{.....*
 02D413D0 18185890 D05458F0 90100DEF 58D0C0DC  *....}..0.....}{.*
 02D413E0 4190226C D7179000 90009601 90129201  *...%P.....o...k.*
 02D413F0 90549540 C0F84780 34CE9601 90129202  *..n {8....o...k.*
 02D41400 90549201 901A58E0 D0C858F0 E3949180  *..k....\}H.0Tmj.*
 02D41410 F0004780 366C5810 0E6C5840 D0C85850  *0....%...%. }H.&*

  F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
  F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

The fields on the first line on the ABENDS Detail panel have the same meanings as the fields on the ABENDS panel for the appropriate Unicenter CA-Explore for CICS version. The remaining information fields on the ABENDS Detail panel have the following meanings:

Field	Description
Registers at time of abend	Contents of registers at the time the abend occurred.
Instructions via PSW *xxxxxxxx* Module *yyyyyyyy* Offset *zzzzzzzz*	Program instructions surrounding the PSW. *xxxxxxxx* is the program status word, Module *yyyyyyyy* is the module name, and Offset *zzzzzzzz* is the offset into the module. The data displayed on the panel is the data loaded at a certain location, which might not be the data that was loaded when the abend occurred.

GLOBAL Panel

The GLOBAL panel displays CICS summary information.

Menu Access

On the /PROBLEM menu, cursor-select the GLOBAL option.

Command Access

Enter **GLOBAL** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Panel With CICS 2.3

```
CA-Explore for CICS  7.0 0204  DEVCICS4 DB2CICS  CICS       2003/06/30 12:48:05
==>                                                                    GLOBAL
                            Global CICS Summary

Jobname  ID   CICS                                        CPU-Time     Run-Time
CICSBESA C1   2.2                                           107.28     21:18:30

Task Summary       I/O Summary        System Summary       Storage Summary

Trans         232  I/O         12920  VSE CPU          0%  DSA Size      2584K
Tranrate     0.00  I/O Sec     0.168  CICS CPU     0.120%  Page Size      2048
CPU/Tran    0.462  I/O Tran    55.69                       DSA Used        45%

MXT  Task      20                                         Cushion Size  16384
AMXT Task      10                                         Cushion Rel       0
Current         3  ICV Summary        GETVIS 24 Summary    Compressions      0

Pgm Checks      0  Stall      10.000  GETVIS Size   6612K  Queued            0
Stg Dumps       1  Runaway    20.000  GETVIS Used    420K  Max Queued        0
Stg Viols       0  Time        1.000  Available     6192K  Total Queued      0
Runaways        0  Terminal    0.250  Max Block     6172K  Stg Recovery      0
Overtype MXT, AMXT, and ICV fields to alter their values.
F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Sample Panel With TS 1.1

```
CA-Explore For CICS 7.0 SP00  VSELVL2F CICSPROD CICS       2004/05/19 09:46:47
==>                                                                    GLOBAL
                          Global CICS Summary

Jobname  ID   CICS                                          CPU-Time     Run-Time
CICSPROD F2   4.1                                             03.50      0:01:33

Task Summary       I/O Summary        System Summary       Storage Summary

Trans          53  I/O         21301  VSE CPU          0%  DSA Size     13824K
Tranrate     0.57  I/O Sec     229.0  CICS CPU             Page Size      4096
CPU/Tran    0.066  I/O Tran    401.9                       DSA Used        75%

MXT  Task      50                                          Cushion Size   768K
                                                           Cushion Rel       0
Current        12  ICV Summary        GETVIS 24 Summary    Pgms Removed      0

                                       GETVIS SIZE   9216K  Queued            0
                   Runaway    20.000   GETVIS USED   6000K  Max Queued        0
Stg Viols       0  Time        1.000   AVAILABLE     3216K  Total Queued      0
Runaways        0  Terminal    0.100   MAX BLOCK     3212K



Overtype MXT or ICV fields to alter their values.
    F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
    F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description	For CICS Version
Jobname	Jobname of CICS	CICS 2.3 and TS 1.1
ID	Partition ID in which the job is running	CICS 2.3 and TS 1.1
CICS	CICS version, release, and modification level	CICS 2.3 and TS 1.1
CPU-Time	Total CPU time used by the job	CICS 2.3 and TS 1.1
Run-Time	Length of time the job has been running	CICS 2.3 and TS 1.1

Panel Field Descriptions: Task Summary

Field	Description	For CICS Version
Trans	Number of transactions executed ■ CICS 2.3 - the sum of all transaction use counts from PCT entries ■ TS 1.1 - the value in the Dispatcher Domain control blocks	CICS 2.3 and TS 1.1
Tranrate	Average number of transactions per second	CICS 2.3 and TS 1.1
CPU/Tran	Average CPU time used per transaction	CICS 2.3 and TS 1.1
MXT Task	Maximum task value (overtype value to alter it)	CICS 2.3 and TS 1.1
AMXT Task	Active maximum task value (overtype value to alter it)	CICS 2.3
Current	Current number of active tasks	CICS 2.3 and TS 1.1
Pgm Checks	Number of program checks that have occurred	CICS 2.3 and TS 1.1
Stg Dumps	Number of storage dumps	CICS 2.3 and TS 1.1
Stg Viols	Number of storage violations that have occurred	CICS 2.3 and TS 1.1
Runaways	Number of runaway tasks abended with AICA	CICS 2.3 and TS 1.1

Panel Field Descriptions: I/O Summary

Field	Description	For CICS Version
I/O	Total number of SIOs issued	CICS 2.3 and TS 1.1
I/O Sec	Average number of SIOs issued per second	CICS 2.3 and TS 1.1
I/O Tran	Average number of SIOs issued per transaction	CICS 2.3 and TS 1.1

Panel Field Descriptions: System Summary

Field	Description	For CICS Version
VSE CPU	Percentage of current CPU active. Must have Unicenter CA-Explore for VSE for this field to be anything but zero (0).	CICS 2.3 and TS 1.1
CICS CPU	Percentage of current CPU active by CICS	CICS 2.3 and TS 1.1

Panel Field Descriptions: Storage Summary

Field	Description	For CICS Version
DSA Size	Total storage allocated to DSA	CICS 2.3
DSA Size	Total storage allocated to all eight DSAs	TS 1.1
Page Size	Size of one DSA page	CICS 2.3 and TS 1.1
DSA Used	Current percentage of DSA used	CICS 2.3
DSA Used	Current percentage of all eight DSAs used	TS 1.1
Cushion Size	Number of bytes allocated to storage cushion	CICS 2.3
Cushion Size	Number of bytes allocated to storage cushions in all DSAs	TS 1.1
Cushion Rel	Number of times the storage cushion has been used	CICS 2.3 and TS 1.1
Compressions	Number of storage compressions	CICS 2.3
Pgms Removed	Number of programs removed by DPSC (Dynamic Program Storage Compression)	TS 1.1
Queued	Number of tasks queued waiting for storage	CICS 2.3 and TS 1.1
Max Queued	Maximum number of tasks waiting for storage	CICS 2.3 and TS 1.1
Total Queued	Total number of tasks queued	CICS 2.3 and TS 1.1
Stg Recovery	Number of times storage recovery has been invoked	CICS 2.3 and TS 1.1

Panel Field Descriptions: ICV Summary

You can overtype any of the following fields to alter them:

Field	Description	For CICS Version
Stall	Stall purge time in seconds (CICS DFHSIT parameter ICVS).	CICS 2.3 and TS 1.1
Runaway	Runaway task time limit in seconds (CICS DFHSIT parameter ICVR).	CICS 2.3 and TS 1.1
Time	Wait time when CICS has no work (CICS DFHSIT parameter ICV). Control is passed to the operating system. This field specifies the number of seconds CICS will wait before checking for work again.	CICS 2.3 and TS 1.1
Terminal	Terminal scan delay (CICS DFHSIT parameter ICVTSD).	CICS 2.3 and TS 1.1

Panel Field Descriptions: GETVIS 24 Summary

Field	Description	For CICS Version
GETVIS Size	Size of region GETVIS	CICS 2.3 and TS 1.1
GETVIS Used	Amount of GETVIS currently used by the region	CICS 2.3 and TS 1.1
Available	Amount of available GETVIS	CICS 2.3 and TS 1.1
Max Block	Size of largest contiguous block of available GETVIS	CICS 2.3 and TS 1.1

QEAS Panel

The QEAS panel displays information about a resource enqueued by a task. CICS suspends other tasks requesting the same resource.

The chain of queue elements shows the following:

- Which resources are being enqueued
- Which tasks are waiting for each enqueued resource

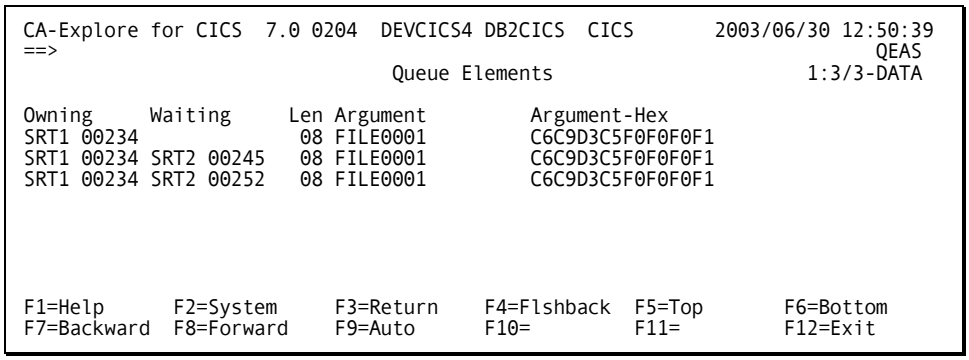
Menu Access

On the /PROBLEM menu, cursor-select the QEAS option.

Command Access

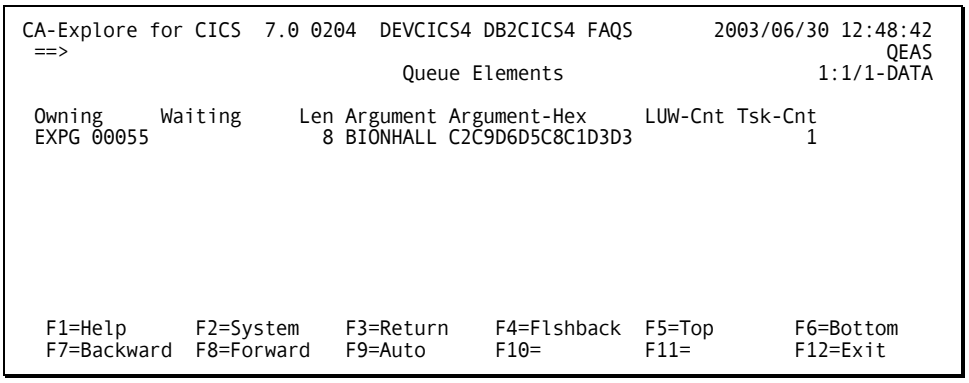
Enter **QEAS** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Panel With CICS 2.3



```
CA-Explore for CICS  7.0 0204  DEVCICS4 DB2CICS  CICS       2003/06/30 12:50:39
==>                                                                      QEAS
                                 Queue Elements                      1:3/3-DATA

Owning     Waiting     Len Argument         Argument-Hex
SRT1 00234              08 FILE0001         C6C9D3C5F0F0F0F1
SRT1 00234 SRT2 00245   08 FILE0001         C6C9D3C5F0F0F0F1
SRT1 00234 SRT2 00252   08 FILE0001         C6C9D3C5F0F0F0F1




F1=Help      F2=System     F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward    F9=Auto      F10=         F11=         F12=Exit
```

Sample Panel With TS 1.1



Panel Field Descriptions

Field	Description	For CICS Version
Owning	ID and task number of the transaction that owns the resource	CICS 2.3 and TS 1.1
Waiting	ID and task number of the transaction waiting for the resource	CICS 2.3 and TS 1.1
Len	Length of the enqueued argument	CICS 2.3 and TS 1.1
Argument	The resource that is being enqueued, in character format	CICS 2.3 and TS 1.1
Argument-Hex	The resource that is being enqueued, in hexadecimal format	CICS 2.3 and TS 1.1
LUW-Cnt	Use count for LUW enqueues	TS 1.1
Tsk-Cnt	Use count for task enqueues	TS 1.1

TRTABLE Panel

The TRTABLE panel displays different entries, depending upon the Unicenter CA-Explore for CICS version you are using.

For CICS Version	Trace Entries
CICS 2.3	The TRTABLE panel displays the previous 512 trace entries. Entries are displayed only if CICS TRACE is activated.
TS 1.1	The TRTABLE panel displays up to five trace table blocks; approximately 20K of trace entries. Entries display only if CICS TRACE is activated. Trace entries are variable length. Because of this, only the short form of the trace entry is displayed. ***Caution:*** *The code that displays the trace table is over 800K in size. When you first use this command, the program is loaded into 24-bit GETVIS storage. Please make sure you have enough 24-bit GETVIS storage before you use this command.*

Menu Access

On the /PROBLEM menu, cursor-select the TRTABLE option.

Command Access

Enter **TRT** or **TRTABLE** on the command line of any Unicenter CA-Explore for CICS panel.

Sort Arguments (CICS 2.3 Only)

The TRTABLE panel has the following sort arguments:

- CHARs
- FIELDA
- FIELDS
- ID
- REQuest
- RESource
- TASK#
- TIME

Sample Panel With CICS 2.3 (Page 1)

```
CA-Explore for CICS  7.0 0204  DEVCICS4 DB2CICS  CICS       2003/06/30 12:50:39
==>                                                                  TRTABLE
                              CICS Trace Table                 497:512/512-DATA

Time of Day     Id Reqd Task# Field  A Field  B Description
15:37:13.918336 D5 0104 TCP   E7D2C3D9 C5D84040 UEH BEFORE
15:37:13.918368 D5 0204 TCP   0015F008 000267A0 UEH AFTER
15:37:15.924608 D5 0204 TCP   0015F008 000267A0 UEH AFTER



F1=Help      F2=System     F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward    F9=Auto      F10=         F11=         F12=Exit
```

Sample Panel With CICS 2.3 (Page 2)

```
CA-Explore for CICS  7.0 0204  DEVCICS4 DB2CICS  CICS       2003/06/30 12:50:39
==>                                                                  TRTABLE
                              CICS Trace Table                 497:512/512-DATA

Time of Day     Id Reqd Task#  Reg 14  Field  A Field  B Chars    Resource
15:37:13.918336 D5 0104 TCP   003EE57E E7D2C3D9 C5D84040 XKCREQ   ECKCREQ
15:37:13.918368 D5 0204 TCP   003EE57E 0015F008 000267A0 ..0..... ECKCREQ
15:37:15.924608 D5 0204 TCP   003EE57E 0015F008 000267A0 ..0..... ECKCREQ



F1=Help      F2=System     F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward    F9=Auto      F10=         F11=         F12=Exit
```

Sample Panel With CICS 2.3 (Page 3)

```
CA-Explore for CICS  7.0 0204  DEVCICS4 DB2CICS  CICS       2003/06/30 12:50:39
==>                                                                  TRTABLE
                              CICS Trace Table                 497:512/512-DATA

Time of Day     Id Reqd Task#  Reg 14  Field  A Field  B Chars    Interval
15:37:13.918336 D5 0104 TCP   003EE57E E7D2C3D9 C5D84040 XKCREQ   00.000000
15:37:13.918368 D5 0204 TCP   003EE57E 0015F008 000267A0 ..0..... 00.000032
15:37:15.924608 D5 0204 TCP   003EE57E 0015F008 000267A0 ..0..... 00.000032



F1=Help      F2=System     F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward    F9=Auto      F10=         F11=         F12=Exit
```

Sample Panel With TS 1.1 (Page 1)

```
CA-Explore for CICS  7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/06/30 12:48:42
 ==>                                                                   TRTABLE
                    CICS Abbreviated Trace Table               172:187/187-DATA

 Time of Day     Task# T TraceID Gate  Interpretation String........
 11:08:34.505313 00039 1 AP 00F3 ICP   EXIT  NORMAL
 11:08:34.505319 00039 1 AP 00E1 EIP   EXIT  DELAY
 11:08:34.505338 00039 1 AP 00E1 EIP   ENTRY IGNORE-CONDITION
 11:08:34.505343 00039 1 PG 0700 PGHM  ENTRY IGNORE_CONDITIONS
 11:08:34.505345 00039 1 PG 0701 PGHM  EXIT  IGNORE_CONDITIONS/OK
 11:08:34.505347 00039 1 AP 00E1 EIP   EXIT  IGNORE-CONDITION
 11:08:34.505357 00039 1 AP 00E1 EIP   ENTRY POP
 11:08:34.505359 00039 1 PG 0700 PGHM  ENTRY POP_HANDLE
 11:08:34.505371 00039 1 SM 0301 SMGF  ENTRY FREEMAIN
 11:08:34.505381 00039 1 SM 0302 SMGF  EXIT  FREEMAIN/OK
 11:08:34.505383 00039 1 PG 0701 PGHM  EXIT  POP_HANDLE/OK
 11:08:34.505384 00039 1 AP 00E1 EIP   EXIT  POP
 11:08:34.505532 00039 1 AP 00E1 EIP   ENTRY WAIT-EVENT
 11:08:34.505537 00039 1 SM 0401 SMSR  ENTRY INQUIRE_ACCESS
 11:08:34.505540 00039 1 SM 0402 SMSR  EXIT  INQUIRE_ACCESS/OK
 11:08:34.505561 00039 1 DS 0004 DSSR  ENTRY WAIT_OLDW

  F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
  F7=Backward  F8=Forward   F9=Auto      F10=Toggle   F11=         F12=Exit
```

Sample Panel With TS 1.1 (Page 2)

```
CA-Explore for CICS  7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/06/30 12:48:42
 ==>                                                                   TRTABLE
                    CICS Abbreviated Trace Table               143:158/158-DATA

 Time of Day     Task# T TraceID Gate  Parameter List ......................
 15:19:28.100018 00061 1 AP 00F3 ICP                                   0005,
 15:19:28.100021 00061 1 AP 00E1 EIP   OK                              00F4,
 15:19:28.100031 00061 1 AP 00E1 EIP                                   0004,
 15:19:28.100034 00061 1 PG 0700 PGHM  0085706F
 15:19:28.100036 00061 1 PG 0701 PGHM  0
 15:19:28.100037 00061 1 AP 00E1 EIP   OK                              00F4,
 15:19:28.100046 00061 1 AP 00E1 EIP                                   0004,
 15:19:28.100048 00061 1 PG 0700 PGHM
 15:19:28.100057 00061 1 SM 0301 SMGF  02AC850C , 00000034,02E8C030,HTB
 15:19:28.100066 00061 1 SM 0302 SMGF
 15:19:28.100068 00061 1 PG 0701 PGHM  0
 15:19:28.100069 00061 1 AP 00E1 EIP   OK                              00F4,
 15:19:28.100181 00061 1 AP 00E1 EIP                                   0004,
 15:19:28.100186 00061 1 SM 0401 SMSR  007B4010,1
 15:19:28.100189 00061 1 SM 0402 SMSR  CDSA,CICS
 15:19:28.100207 00061 1 DS 0004 DSSR  SINGLE,EKCWAIT,007B4011,NO,MISC

  F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
  F7=Backward  F8=Forward   F9=Auto      F10=Toggle   F11=         F12=Exit
```

Sample Panel With TS 1.1 (Page 3)

```
CA-Explore for CICS  7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/06/30 12:48:42
 ==>                                                                   TRTABLE
                    CICS Abbreviated Trace Table               141:156/156-DATA

 Time of Day     Task# T TraceID Gate  Interpretation String........
 10:49:51.401336 00037 1 AP 00F3 ICP   EXIT  NORMAL
 10:49:51.401338 00037 1 AP 00E1 EIP   EXIT  DELAY
 10:49:51.401355 00037 1 AP 00E1 EIP   ENTRY IGNORE-CONDITION
 10:49:51.401357 00037 1 PG 0700 PGHM  ENTRY IGNORE_CONDITIONS
 10:49:51.401359 00037 1 PG 0701 PGHM  EXIT  IGNORE_CONDITIONS/OK
 10:49:51.401360 00037 1 AP 00E1 EIP   EXIT  IGNORE-CONDITION
 10:49:51.401369 00037 1 AP 00E1 EIP   ENTRY POP
 10:49:51.401371 00037 1 PG 0700 PGHM  ENTRY POP_HANDLE
 10:49:51.401379 00037 1 SM 0301 SMGF  ENTRY FREEMAIN
 10:49:51.401387 00037 1 SM 0302 SMGF  EXIT  FREEMAIN/OK
 10:49:51.401388 00037 1 PG 0701 PGHM  EXIT  POP_HANDLE/OK
 10:49:51.401389 00037 1 AP 00E1 EIP   EXIT  POP
 10:49:51.401471 00037 1 AP 00E1 EIP   ENTRY WAIT-EVENT
 10:49:51.401475 00037 1 SM 0401 SMSR  ENTRY INQUIRE_ACCESS
 10:49:51.401478 00037 1 SM 0402 SMSR  EXIT  INQUIRE_ACCESS/OK
 10:49:51.401496 00037 1 DS 0004 DSSR  ENTRY WAIT_OLDW

  F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
  F7=Backward  F8=Forward   F9=Auto      F10=Toggle   F11=         F12=Exit
```

Panel Field Descriptions

Field	Description	For CICS Version
Time of day	Time of trace entry.	CICS 2.3 and TS 1.1
Id	Trace entry type or ID.	CICS 2.3
Reqd	Trace request and required identification.	CICS 2.3
Task#	CICS task number for the task that caused the entry.	CICS 2.3 and TS 1.1
T	TCB Index.	TS 1.1
Field A	Trace data field 1 (displayable hex format).	CICS 2.3
Field B	Trace data field 2 (displayable hex format).	CICS 2.3
Description	Trace entry description as generated by CICS.	CICS 2.3
Trace ID	Indicates the trace point in CICS code. The first two characters are the domain index. The last four characters identify the trace point within the domain.	TS 1.1
Gate	The CICS module where the trace point is located.	TS 1.1
Interpretation String	Interpretation information for the trace entry.	TS 1.1

Displaying Additional Fields

Press F10 to display the following fields on the TRTABLE panel:

Field	Description	For CICS Version
Reg 14	Return address	CICS 2.3
Parameter List	Parameters passed in the trace.	TS 1.1
Chars	Character format of both fields A and B	CICS 2.3
Resource	Resource name for which entry is directed	CICS 2.3
Interval	Interval between trace entries	CICS 2.3 and TS 1.1

F-Key Description

F Key	Description	For CICS Version
F10	Toggles between pages of the TRTABLE panel	CICS 2.3 and TS 1.1

XMONITOR Panel

The XMONITOR panel displays a summary of the condition of all Unicenter CA-Explore for CICS partitions. This panel lets you quickly identify problem areas for troubleshooting.

Menu Access

On the /PROBLEM menu, cursor-select the XMONITOR option.

Command Access

Enter **XMON** or **XMONITOR** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Panel

```
CA-Explore for CICS  7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/06/30 12:48:42
==>                                                                  XMONITOR
                          Extended Monitor Status                  1:1/1-DATA

   Name        Type    PartId        Time         Count              Status
_  CICSMROB    CICS    F4          14:02:59          16              Warning
_  CICS17      CICS    F5          14:02:59          16              Problem
_  CICS21      CICS    F6          14:02:59          16              Ok
_  CICS21A     CICS    F7          14:02:59          16              Ok


EXPC612W Extended Monitor has detected a WARNING condition.
F1=Help      F2=System     F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward    F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description	
Name	Name of the system being monitored	
Type	Type of system being monitored	
PartId	ID of the partition in which the system is running	
Time	Time at which the information about the system was last updated	
Count	Number of detail entries monitored	
Status	Current status of the system, as follows:	
	Ok	All values collected for the system are within defined threshold limits.
	Warning	At least one value exceeded the defined warning percentage of the threshold limit. This means the value is approaching the limit, not that the threshold limit has been exceeded.
	Problem	At least one value has exceeded the defined threshold limit.

Margin Commands

Command	Description
S	Displays the XMONITOR Detail panel for the region you select.
M	Changes Unicenter CA-Explore for CICS logical sessions to display monitoring for the selected region. The session from which you selected the region remains active.
X	Switches monitoring to the selected region. The session from which you selected the region is terminated.

XMONITOR Detail Panel

The XMONITOR Detail panel displays detailed information about the region you selected from the XMONITOR panel.

Data for system variables on this panel is updated at system intervals (every 30 seconds). The number of exceptions is the number of exceptions during the last system interval.

Access

On the XMONITOR panel, cursor-select a region, or type S in the space provided to the left of a region.

Sample Panel

```
CA-Explore for CICS  7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/06/30 12:48:42
==>                                                                  XMONITOR
                           Extended Monitor Status                 1:13/16-DATA

   Name        Type    PartId        Time         Count              Status
   CICSMROB    CICS    F4          14:06:59          16              Warning

   Resource                       Value    Limit
_  Exceptions                         0                               Ok
_  Max Tasks                                                          Ok
_  Short on Storage                                                   Ok
_  Stall Purge                                                        Ok
_  CPU%     $SYSTEM$                  3       90                       EXPC612W
Extended Monitor has detected a WARNING condition.
F1=Help      F2=System     F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward    F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

The fields on the first line of the XMONITOR Detail panel have the same meanings as the fields on the XMONITOR panel. The remaining information fields on the XMONITOR Detail panel have the following meanings:

Field	Description	
Resource	Name of the resource being monitored	
Value	Current value for the resource	
Limit	Defined threshold limit value	
Status	Current status of the resource, as follows:	
	Ok	The value is within the defined threshold limit.
	Warning	The value exceeds the defined warning percentage of the threshold limit. This means the value is approaching the limit, not that the threshold limit has been exceeded.
	Problem	The value exceeds the defined threshold limit.

Chapter 4

/STATUS Menu Options

This chapter explains the /STATUS menu, which you can use to display information such as transaction activity and response time, degradation analysis, and maximum task values.

Note: This chapter discusses the uses of Unicenter CA-Explore for CICS with CICS Version 2.3 (CICS 2.3) and CICS Transaction Server Version 1.1 (TS 1.1). Unless a distinction is noted, the information applies to both versions.

/STATUS Menu

The /STATUS menu lists the commands that you can issue to display information collected by Unicenter CA-Explore for CICS about the following:

- Transaction activity and response time
- Degradation analysis
- Maximum task values
- Online comparison plots
- Terminal response times
- The monitor information table
- Active and suspended transactions
- Transaction summary information
- The status of resources you have defined

The name of the panel the command displays is listed next to each command on the menu. You can issue these commands either by cursor-selecting them on the /STATUS menu or by entering them on the command line of any Unicenter CA-Explore for CICS panel.

Menu Access

- On the Unicenter CA-Explore for CICS Main menu, cursor-select the /STATUS option.
- Type any character (except H) in the space provided to the left of the command and press Enter.

Command Access

Enter **/STA** or **/STATUS** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Menu

```
CA-Explore 7.0 SP00  DEVCICS4 DB2CICS4 FAQS              2003/06/30 12:59:34
==>                                                                  /STATUS
                        CA-Explore Menu -  /STATUS               1:9/9-DATA

                      Command     Description
                    _ ACTIVITY    Transaction Activity and Life Time
                    _ ANALYSIS    Degradation Analysis
                    _ MXT         Max Task Values
                    _ PLOT        Online Comparison Plots
                    _ RESPTIME    Terminal Response Times
                    _ SYSTEM      Monitor Information Table
                    _ TASKS       CICS Tasks Information
                    _ TSUMMARY    Transaction Summary
                    _ VSTATUS     Status of Collected Variables


F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Display Options

To display a panel listed on the /STATUS menu, enter the appropriate command, as listed in the following table. These commands are described in detail beginning in the next section.

This Command	Displays	Default Sort Argument
ACTIVITY	Graphs of transaction activity and life time	none
ANALysis	Degradation analysis of your CICS system	none
MXT	Maximum task values	none
PLOT	Online comparison plots	none
RESPTime	Response time information	none
SYSTEM	Information on the partitions defined in the Unicenter CA-Explore for CICS monitor initialization table (MIT)	ENTRY
TASks	Information about active and suspended tasks	none
TSUMmary	Summary information about transactions	none
VSTATus	Information about the status of resources you have defined	VARIABLE

ACTIVITY Panel

The ACTIVITY panel displays the number of transactions executed throughout the day and their average lifetimes.

Menu Access

On the /STATUS menu, cursor-select the ACTIVITY option.

Command Access

Enter **ACTIVITY** on the command line of any Unicenter CA-Explore for CICS panel.

Command Syntax and Operands

```
ACTIVITY [ALL|jobname|GRAph]
```

Operand	Description
ALL	Display transactions for all monitored partitions.
jobname	Display transactions for selected monitored CICS partition.
GRAph	Show data in plot format.

If you are in a CICS partition and do not specify the *jobname* operand, information about the current CICS partition is displayed. If you are in the master partition and do not specify the *jobname* operand, information about all CICS partitions is displayed.

Sample Panel

```
CA-Explore 7.0 SP00  DEVCICS4 DB2CICS4 FAQS                2003/06/30 13:00:30
 ==>                                                                  ACTIVITY
                        00/02/16 - ACTIVITY - CICS410
                     Transaction Count                        Life Time
 Hr  Count Pct%  ...20...40...60...80..100   Average  ....+....+....+....+....+
 AM          0% |                                     |
  8          0% |                                     |
  9          0% |                                     |
 10          0% |                                     |
 11    246  27% |*******                        0.149 |*****
 12    654  73% |******************             0.703 |************************
  1          0% |                                     |
  2          0% |                                     |
  3          0% |                                     |
  4          0% |                                     |
  5          0% |                                     |
  6          0% |                                     |
  7          0% |                                     |
  8          0% |                                     |
  9          0% |                                     |
 PM          0% |                                     |
           Transactions      900        Average Time    0.552
  F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
  F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Hr	Hour during which transactions were counted, as follows: AM — Hours from 12:00 a.m. through 7:59 a.m., collectively 8-9 — Hours from 8:00 a.m. through 9:59 p.m., individually PM — Hours from 10:00 p.m. through 11:59 p.m., collectively At midnight, all values are reset.
Count	Number of transactions executed during the period.
Pct%	Percentage of total transactions executed during the period, in numeric form.
Transaction Count	Percentage of total transactions executed during the period, in graph form.
Average	Average lifetime of the transactions executed during the period, in numeric form.
Life Time	Average lifetime of the transactions executed during the period, in graph form. The scale for the lifetime graph is the average response time for the period relative to the maximum average lifetime.

Configuration Option

ACTIVITY-HOUR1

ACTIVITY Panel (Graph Option)

The ACTIVITY Graph Option panel displays graphs of the transaction use and transaction lifetime of transactions executed throughout the day.

Command Access

Do **one** of the following:

- Enter **GRAPH** on the command line of the ACTIVITY panel.
- Enter **ACTIVITY** on the command line, and specify the **GRAPH** operand on the command line of any Unicenter CA-Explore for CICS panel.

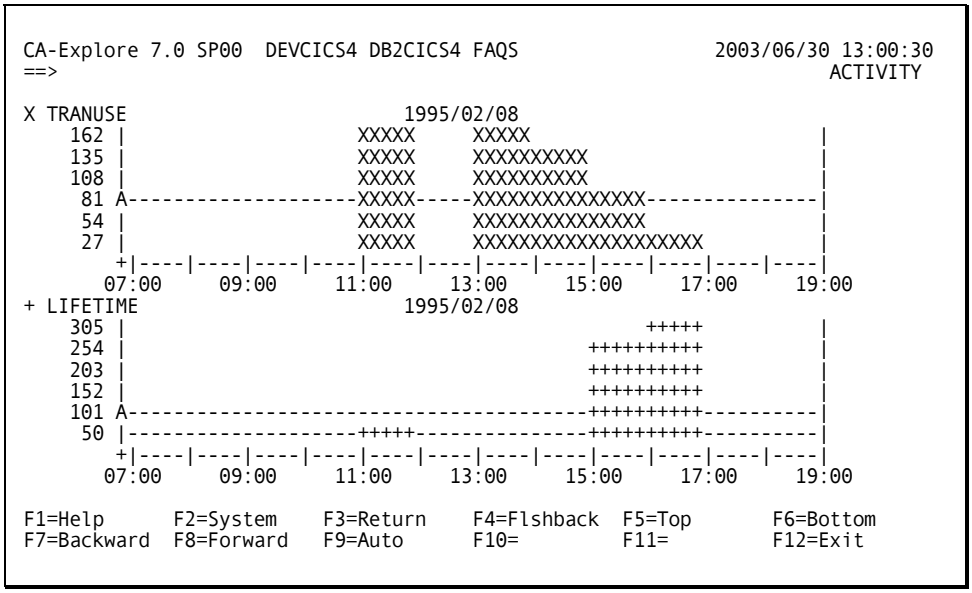
Command Syntax and Operands

```
ACTIVITY [partition|ALL] GRAPH
```

Operand	Description
partition	Name of monitored CICS partition
ALL	All partitions

If you are in a CICS partition and do not specify the *partition* operand, information about the current partition is displayed. If you are using the batch master and do not specify the *partition* operand, information about all partitions is displayed.

Sample Panel



ANALYSIS Degradation Panel

The ANALYSIS panel displays a summary of the time spent by CICS on various resources. You can use this information to determine where CICS is wasting time.

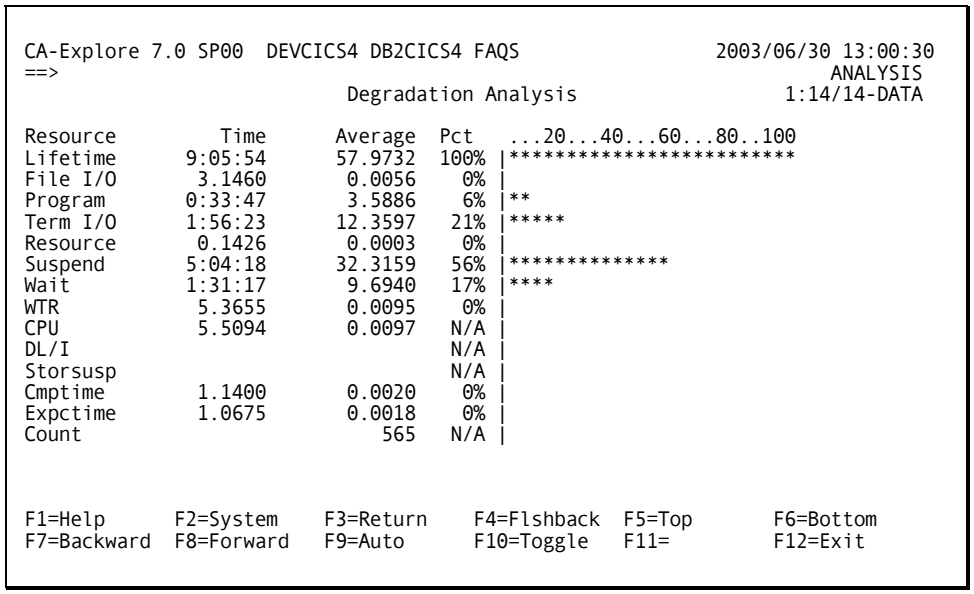
Menu Access

On the /STATUS menu, cursor-select the ANALYSIS option.

Command Access

Enter **ANAL** or **ANALYSIS** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Panel



```
CA-Explore 7.0 SP00  DEVCICS4 DB2CICS4 FAQS                2003/06/30 13:00:30
==>                                                                  ANALYSIS
                            Degradation Analysis                  1:14/14-DATA

Resource          Time      Average  Pct   ...20...40...60...80..100
Lifetime      9:05:54      57.9732  100% |************************
File I/O       3.1460       0.0056    0% |
Program       0:33:47       3.5886    6% |**
Term I/O      1:56:23      12.3597   21% |*****
Resource       0.1426       0.0003    0% |
Suspend       5:04:18      32.3159   56% |**************
Wait          1:31:17       9.6940   17% |****
WTR            5.3655       0.0095    0% |
CPU            5.5094       0.0097   N/A |
DL/I                                 N/A |
Storsusp                             N/A |
Cmptime        1.1400       0.0020    0% |
Expctime       1.0675       0.0018    0% |
Count                          565   N/A |


F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Toggle   F11=         F12=Exit
```

Panel Field Descriptions

Field	Description	
Resource	Resource type. The following are some of the resource types that appear in this field:	
	Lifetime	Transaction lifetime; that is, the difference between the time the transaction is put on the DCA (DCA entry mode) and the time the TCA (storage) is freed.
	File I/O	Time that the transaction waits for file requests. This time is only for datasets in the FCT.
	Program	Time that the transaction spent executing program code. A program can link to other programs, and the time the additional programs are active is included in this statistic. Therefore, the program time can be greater than the lifetime. However if the program performs a XCTL each time it links to another program, the times are listed separately.
	Term I/O	Time spent when the transaction forces a terminal wait. Normally, a pseudo-conversational transaction sends a BMS map. The terminal I/O is scheduled after the transaction ends. You can force the BMS map to be written immediately, or if the task is conversational, you can force the terminal I/O to occur. In this case, terminal I/O is the time spent to handle the I/O.
	Resource	Time spent waiting for an internal CICS resource. If a transaction needs a resource and must wait for it to become available, CICS places the transaction on the active DCA chain with a dispatch control indicator (DCI) of X'88'. A transaction is put in this state if it is waiting for strings, for buffers, or for a program to be loaded into the DSA.
	Suspend	Time spent suspended
	Wait	Time that a transaction must wait for ECBs to be posted. Intrapartition dataset I/O time and DFHTEMP I/O are included.
	WTR	The time the transaction spent on the active DCA chain waiting to run
	CPU	CPU time used by user code or by CICS code
	DL/I	Time in DL/I code

Field	Description	
Resource (continued)	Storsusp	Time suspended because of an inability to satisfy a storage request.
	Cmptime	CICS trace collection time.
	Expctime	Average time (in seconds) spent in Unicenter CA-Explore for CICS code.
	Count	Number of transactions used for analysis (number of transactions written to history files by Unicenter CA-Explore for CICS). Note that this number will be less than the total number of transactions detected by Unicenter CA-Explore for CICS.
Time	Total time, in seconds, for all transactions monitored.	
Average	Average time for each transaction monitored, except *Count*, which is the number of transactions monitored. An entry in this field is equal to the entry in the Time field divided by the count (number of transactions used for analysis).	
Pct	Percentage of lifetime spent in the corresponding activity. This information is also presented in graph form. *N/A* indicates that no percentage was calculated because the time spent in this activity is included in statistics for another activity for which a percentage has been calculated. On color monitors, the colors used in the graph have the following meanings: Green Executing Yellow Waiting Red Waiting to run The graph for Lifetime always appears in blue.	

Toggling the Display Between Periods

You can toggle your panel display between statistical periods:

F Key	Description
F10	Toggles between a display of statistics for the current 30-second system interval and a display of statistics for the entire period since Unicenter CA-Explore for CICS was initialized.

MXT Panel

The MXT panel displays the maximum task values.

Menu Access

On the /STATUS menu, cursor-select the MXT option.

Command Access

Enter **MXT** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Panel With CICS 2.3

```
CA-Explore 7.0 SP00  DEVCICS4 DB2CICS  CICS                2003/06/30 13:01:34
==>                                                                      MXT
                                Max Task Values                        1:10/10

MXT    20   Pct  ...25...50...75..100    AMXT   10   Pct  ...25...50...75..100
CURR    1     5 |*                       HIGH    3    30 |******
HIGH    4    20 |****
@MXT    0

     Class     Max     Curr    High   At-Max  Active  State1  State2
         1       4        0       0       0       0       0       0
         2       4        0       0       0       0       0


Overtype MXT, AMXT, and CMXT fields to alter their values.
F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Toggle   F11=         F12=Exit
```

Sample Panel With TS 1.1

```
CA-Explore 7.0 SP00  DEVCICS4 DB2CICS4 FAQS                    2003/06/30
13:00:30
==>
MXT
                                Max Task Values                    1:10/12-DATA

 MXT    20   Pct  ...25...50...75..100
 Curr   14    70 |*************
 High   22   110 |**********************
 @MXT    0

      Txnclass     Max    Curr    High  At-MAX  Queued  Mxt-Qd  Purged
      DFHCOMCL      10       0       0       0       0       0       0
      DFHTCL01       1       0       0       0       0       0       0
      DFHTCL02       1       0       0       0       0       0       0
      DFHTCL03       1       0       0       0       0       0       0
      DFHTCL04       1       0       0       0       0       0       0
      DFHTCL05       1       0       0       0       0       0       0
      DFHTCL06       1       0       0       0       0       0       0
      DFHTCL07       1       0       0       0       0       0       0
      DFHTCL08       1       0       0       0       0       0       0
      DFHTCL09       1       0       0       0       0       0       0

 Overtype MXT or Trans max fields to alter their values.
  F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
  F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description	For CICS Version
MXT	Maximum number of tasks that are allowed to be in the system at one time. Overtype this value to change it.	CICS 2.3 and TS 1.1
CURR	Number of tasks currently active and the percentage of maximum tasks allowed the number represents. The percentage is also shown in graph form.	CICS 2.3 and TS 1.1
HIGH	High-water mark of active tasks and the percentage of maximum tasks allowed the number represents. The percentage is also shown in graph form.	CICS 2.3 and TS 1.1
@MXT	Number of times that the number of tasks reached the maximum allowed.	CICS 2.3 and TS 1.1
AMXT	Active maximum task value (overtype this value to change it).	CICS 2.3
HIGH	High-water mark of active tasks and the percentage of active maximum tasks the number represents. The percentage is also shown in graph form.	CICS 2.3

Field	Description	For CICS Version
Class	Transaction class.	CICS 2.3
Txnclass	Transaction class	TS 1.1
Max	Maximum task value for the given class (overtype the value to change it).	CICS 2.3 and TS 1.1
At-Max	Number of times at maximum task value.	CICS 2.3 and TS 1.1
High	High-water mark of tasks in the given class.	CICS 2.3 and TS 1.1
Curr	Current number of tasks in the given class.	CICS 2.3 and TS 1.1
Active	Number of active tasks in class	CICS 2.3
State1	Current number of tasks in state 1 (not contributing to the MXT count).	CICS 2.3
Mxt-Qd	Total Tasks queued waiting for class maximum	TS 1.1
State2	Current number of tasks in state 2 (contributing to the MXT count).	CICS 2.3
Purged	Number of tasks purged while waiting for class maximum	TS 1.1

Interpreting Max Task

CICS 2.3 flags all new tasks entering the system as being at Max Task before they are dispatched for the first time, and the system is not at Max Task. Therefore, especially in a busy system, the Wait Reason for some tasks on the TASKS panel could be Max Task, but the MXT field on the MXT panel could indicate that the system was never at Max Task.

Defining Transactions Classes

When you define a transaction, you specify the TRANCLASS for the transaction. Transactions defined without a transaction class run without scheduling restraints associated with transaction classes. Transaction classes differ between CICS versions:

- CICS 2.3 has 10 transaction classes, 1-10. When you define a transaction, you select none or one of the 10 transaction classes.
- TS 1.1 has an unlimited number of TRANCLASSes.

PLOT Panel

The PLOT panel displays up to four plots, each showing two variables. To display the variable being plotted, enter **VAR** or **VARIABLE**.

Menu Access

On the /STATUS menu, cursor-select the PLOT option.

Command Access

Enter **PLOT** on the command line of any Unicenter CA-Explore for CICS panel.

Command Syntax and Operands

```
PLOT [ALL]
     [LIST plotlist [VIEW]]
     [SAVE [plotlist]]
```

Operand	Description
ALL	Indicates that you want to select all plot quadrants. If you do not specify ALL, Unicenter CA-Explore for CICS displays a plot definition screen.
LIST	Indicates that you want Unicenter CA-Explore for CICS to display a plot definition screen with a pre-defined plot list.
plotlist	Indicates the name of the pre-defined plot list that you want to display or the name of the plot list that you want to save.
VIEW	Indicates that you want Unicenter CA-Explore for CICS to display a plot with a pre-defined plot list.
SAVE	Saves the currently displayed plot definition.

Sample Panel

```
CA-Explore 7.0 SP00  DEVCICS4 DB2CICS4 FAQS                2003/06/30 13:00:30
==>                                                                      PLOT
List => ACTIVITY         Comparison Plot Definitions

+-----------------------------------+-----------------------------------+
| => S           Plot 1             | => S           Plot 2             |
|                                   |                                   |
| Variable Resource Resource Scale... | Variable Resource Resource Scale... |
| CPU%JOB  $SYSTEM$          MAX    | RESPTIME *         *        MAX    |
|                                   |                                   |
|                            MAX    |                            MAX    |
|                                   |                                   |
+-----------------------------------+-----------------------------------+
| => S           Plot 3             | => S           Plot 4             |
|                                   |                                   |
| Variable Resource Resource Scale... | Variable Resource Resource Scale... |
| TRANUSE  *                 MAX    | CPUTIME  *         *        MAX    |
|                                   |                                   |
|                            MAX    |                            MAX    |
|                                   |                                   |
+-----------------------------------+-----------------------------------+

F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=View     F11=         F12=Exit
```

F Key Descriptions

F Key	Description
F7	Scrolls back in time one interval
F8	Scrolls forward in time one interval
F10	Toggles to the View PLOT panel

Related Configuration Option

PLOTLIST-DEFAULT

Plot Sizes

Each plot can contain one or two variables. A 24 x 80 panel can use the following plot sizes:

- x 60 - Full panel
- x 20 - Half panel vertical
- x 60 - Half panel horizontal
- x 20 - Quarter panel

Enlarging a Plot

On a panel displaying multiple plots, you can enlarge one of the plots to a full panel plot. To do so, place the cursor in the field to the left of the plot date (on the top line of the plot to be enlarged), and press Enter.

Displaying a Flashback Panel from a Full-Panel Plot

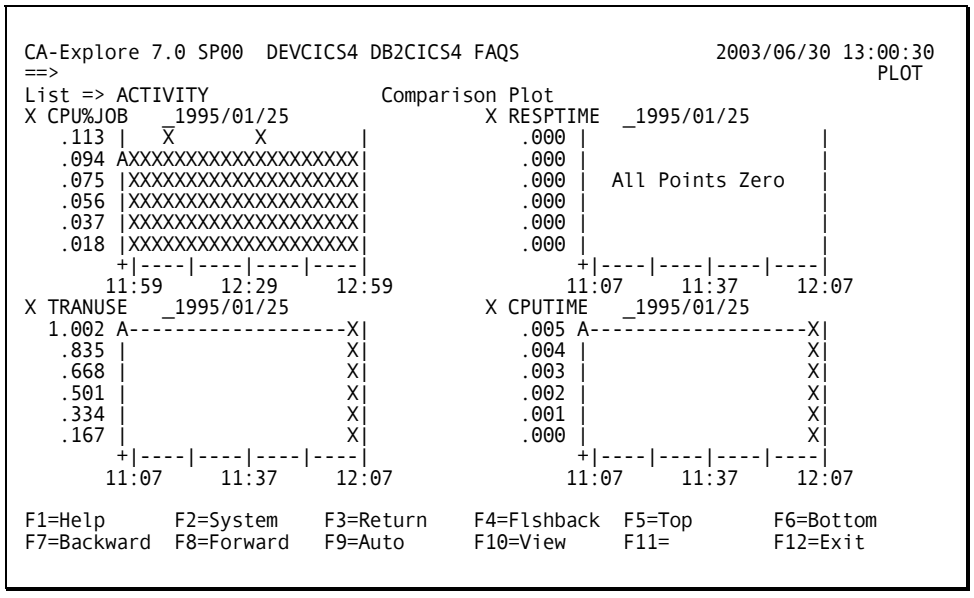
To display the DEFAULT Flashback panel from a full-panel plot, select a time by positioning the cursor within the plot and pressing Enter.

Using Color Highlighting

The following table lists the display modes and their associated graph legends:

Command Setting	Variable 1	Variable 2	Overlap
Color/Extended Highlight	Blue/Reverse	Yellow/Reverse	Green/Reverse
Color only	Blue/*	Yellow/*	Green/*
Highlight only	Reverse	*	Reverse/*
Monochromatic	X	+	*

Sample Plot



RESPTIME Panel

The RESPTIME panel displays information about transaction response time.

Menu Access

On the /STATUS menu, cursor-select the RESPTIME option.

Command Access

Enter **RESPT** or **RESPTIME** on the command line of any Unicenter CA-Explore for CICS panel.

RESPTIME-VALUE*n* Configuration Option

The response time values can be changed in the configuration overrides member $CNFIG*xx*, where *xx* is the system ID of the partition. See the chapter titled "Configuration Options" for information about setting the RESPTIME-VALUE1 through RESPTIME-VALUE7 options. The last value, +10.0, can be excluded from calculations by setting the value of configuration option RESPTIME-IGNORE8 to YES. YES is the default.

Sample Panel

```
CA-Explore 7.0 SP00  DEVCICS4 DB2CICS4 FAQS                2003/06/30 13:00:30
==>                                                                  RESPTIME
                          R E S P O N S E   T I M E

                                    CURRENT                          CUMULATIVE
   Time  Count Pct%  ...20...40...60...80..100  Pct%  ...20...40...60...80..100
 <  0.5   2687  99% |************************  100% |************************
 <  1.0      4   0% |                            0% |
 <  2.0          0% |                            0% |
 <  3.0          0% |                            0% |
 <  4.0          0% |                            0% |
 <  5.0          0% |                            0% |
 < 10.0          0% |                            0% |
 + 10.0      1   0% |                            0% |
 + 10.0 not included

                                                 Last 30 Second Interval
 Transactions         2692                       CPU% system          0%
 Average Response    0.011                       CPU% job         0.045%
 Maximum Response   26.245                       CPU/Trans
                                                 Trans/Sec        0.034
                                                 IO/Sec           0.400

  F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
  F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Time	Time bracket for transaction response time
Count	Number of transactions within the response time bracket
Pct%	Percentage of transactions within the response time bracket
CURRENT	Bar graph of the percentage of transactions within the response time bracket
CUMULATIVE	Cumulative percentage of transactions (percentage in the current response time bracket plus percentages in all preceding response time brackets)
Transactions	Total number of CICS transactions having terminals associated with them
Average Response	Average response time of sampled transactions
Maximum Response	Maximum response time of sampled transactions

The following information is provided for the last 30-second interval:

Field	Description
CPU% system	Percentage of CPU used by VSE
CPU% job	Percentage of CPU used by the job
CPU/Trans	Average amount of CPU used per transaction
Trans/Sec	Average number of transactions per second during the interval
IO/Sec	Average number of I/Os per second during the interval

SYSTEM Panel

The SYSTEM panel displays information about CICS partitions defined in the MIT (monitor information table).

Menu Access

On the /STATUS menu, cursor-select the SYSTEM option.

F-Key Access

Press PF2 from any Unicenter CA-Explore for CICS panel.

Command Access

Enter **SYSTEM** on the command line of any Unicenter CA-Explore for CICS panel.

Command Syntax and Operands

```
SYSTEM [jobname]
```

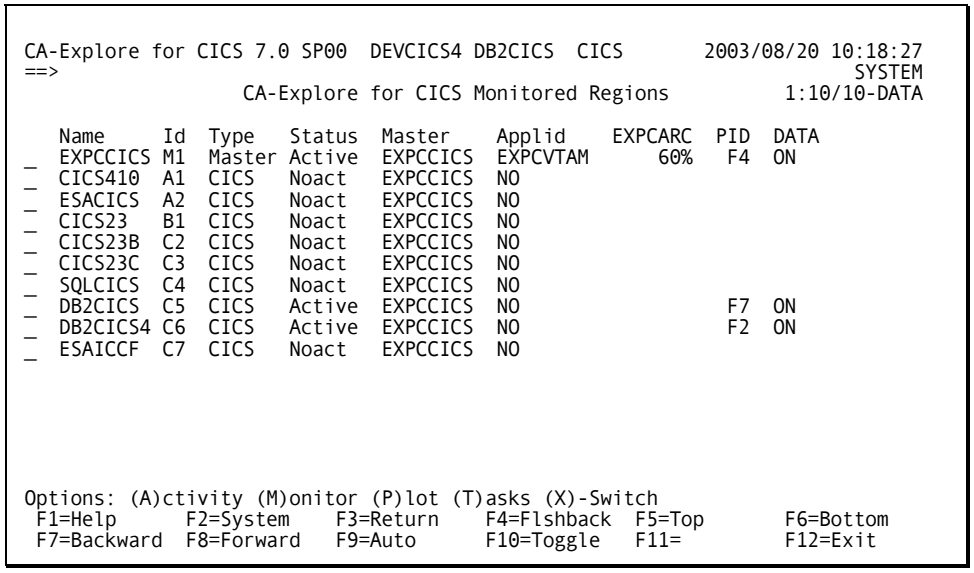
Operand	Description
jobname	String specifying the CICS job name about which information is to be displayed. You can include generic characters in the string. See the chapter titled "Using Unicenter CA-Explore Performance Management for CICS" for more information.

If you do not specify the *jobname* parameter, the SYSTEM command displays information about all jobs.

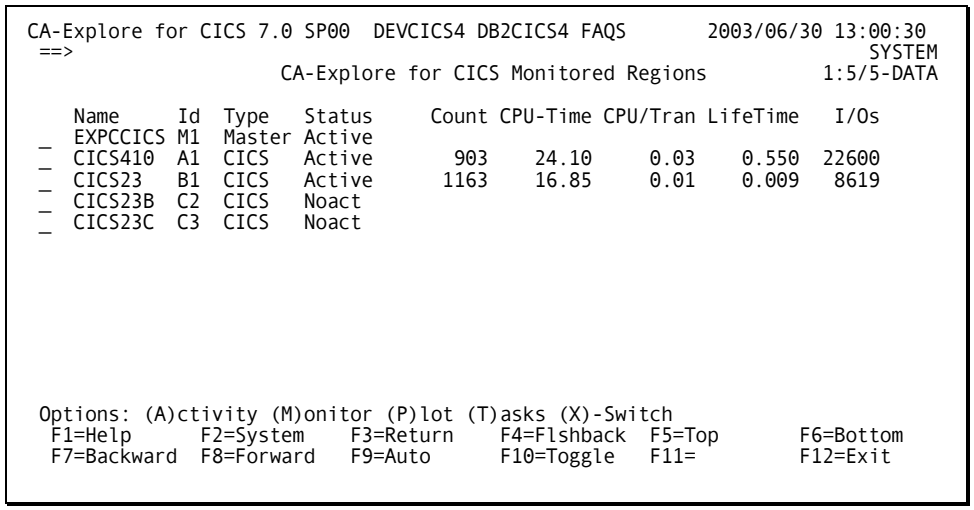
Sort Arguments

- APPLid
- COMMAND
- ID
- MASTER
- NAME

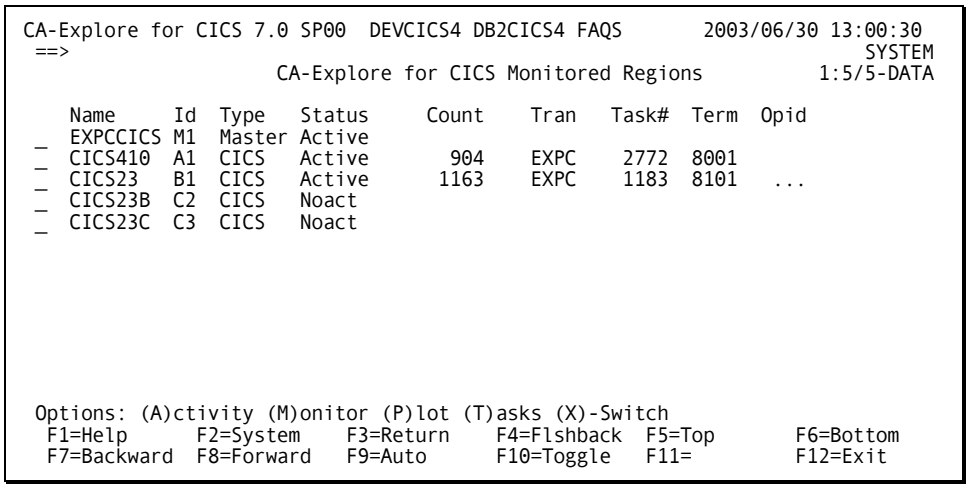
Sample Panels



```
CA-Explore for CICS 7.0 SP00  DEVCICS4 DB2CICS  CICS       2003/08/20 10:18:27
==>                                                                  SYSTEM
                  CA-Explore for CICS Monitored Regions          1:10/10-DATA

   Name     Id  Type   Status  Master    Applid    EXPCARC  PID  DATA
_  EXPCCICS M1  Master Active  EXPCCICS  EXPCVTAM      60%   F4  ON
_  CICS410  A1  CICS   Noact   EXPCCICS  NO
_  ESACICS  A2  CICS   Noact   EXPCCICS  NO
_  CICS23   B1  CICS   Noact   EXPCCICS  NO
_  CICS23B  C2  CICS   Noact   EXPCCICS  NO
_  CICS23C  C3  CICS   Noact   EXPCCICS  NO
_  SQLCICS  C4  CICS   Noact   EXPCCICS  NO
_  DB2CICS  C5  CICS   Active  EXPCCICS  NO                  F7  ON
_  DB2CICS4 C6  CICS   Active  EXPCCICS  NO                  F2  ON
_  ESAICCF  C7  CICS   Noact   EXPCCICS  NO




Options: (A)ctivity (M)onitor (P)lot (T)asks (X)-Switch
 F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
 F7=Backward  F8=Forward   F9=Auto      F10=Toggle   F11=         F12=Exit
```



```
CA-Explore for CICS 7.0 SP00  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:00:30
 ==>                                                                 SYSTEM
                    CA-Explore for CICS Monitored Regions          1:5/5-DATA

   Name     Id  Type   Status     Count CPU-Time CPU/Tran LifeTime   I/Os
_  EXPCCICS M1  Master Active
_  CICS410  A1  CICS   Active       903    24.10     0.03    0.550  22600
_  CICS23   B1  CICS   Active      1163    16.85     0.01    0.009   8619
_  CICS23B  C2  CICS   Noact
_  CICS23C  C3  CICS   Noact




 Options: (A)ctivity (M)onitor (P)lot (T)asks (X)-Switch
  F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
  F7=Backward  F8=Forward   F9=Auto      F10=Toggle   F11=         F12=Exit
```



Panel Field Descriptions

Field	Description
Name	Jobname of the partition defined in the MIT.
Id	Unicenter CA-Explore for CICS partition ID.
Type	Type of partition: Master or CICS.
Status	Status of partition: Active or Noact (inactive).
Master	Name of master Unicenter CA-Explore for CICS partition for this partition.
Applid	VTAM application ID of Unicenter CA-Explore for CICS for the partition, or BTAM, or NO if there is no terminal driver.
EXPCARC	Percentage of the Unicenter CA-Explore for CICS archive file that is full.
PID	Partition ID.
DATA	Data collection is on (active) or OFF (inactive) for the specified partition. Only Active partitions will have a value here. If the partition is the master partition and the data collection is OFF then no data collection will occur for any of the active CICS partitions.

Displaying Additional Fields

You can display these additional fields by pressing the F10 key:

Field	Description
Count	Number of transactions executed since Unicenter CA-Explore for CICS was initialized
CPU-Time	Total CPU time used
CPU/Tran	Average amount of CPU time used per transaction
LifeTime	Average lifetime per transaction
I/Os	Total number of start I/Os
Tran	Transaction currently executing
Task #	Task number of the transaction currently executing
Terminal	Terminal on which the transaction is executing
OPID	Operator signed on to the terminal

Margin Commands

Command	Description
X	Switches monitoring to the selected partition. The session from which you selected the partition is terminated. This command should be used if you do not have multiple sessions open. If you have multiple sessions open, use the M margin command. Using the X command opens a new session and displays the Main menu.
P	Plots average transaction use and average response time by hour for the partition you select. For related information, see the description of the ACTIVITY command earlier in this chapter.
A	Plots the activity for the partition you select.
M	Changes Unicenter CA-Explore for CICS logical sessions to display monitoring for the selected partition. The session from which you selected the partition remains active. This command should only be used if you have multiple sessions open. Otherwise, use the X margin command. Using the M margin command opens a new session and displays the Main menu.

Command	Description
N	Turns off data collection for the partition. If the partition is the master partition, then no data collection will occur for all active CICS partitions.
Y	Turns data collection back on for the specified partition. If the specified partition is the master partition, then data collection will occur for all active partitions.
T	Displays the current transactions running in the selected partition. If you are in a CICS 2.3 session, you can only display active transactions from a CICS 2.3 partition. If you are in a TS 1.1 session, you can only display active transactions from a TS 1.1 partition.

SYSTEM Detail Panel

The SYSTEM panel lists information about the currently active partition.

Access

On the SYSTEM panel, cursor-select a partition.

Sample Panel

```
CA-Explore for CICS 7.0 SP00  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:00:30
==>                                                                    SYSTEM
                     CA-Explore for CICS Monitored Regions          1:5/5-DATA

   Name     Id  Type   Status  Master    Applid    EXPCARC  PID
   EXPDCICS M1  Master Active  EXPDCICS  EXPDVTAM     100%   Y3




F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Toggle   F11=         F12=Exit
```

TASKS Panel

The TASKS panel displays information about active and suspended tasks.

Menu Access

On the /STATUS menu, cursor-select the TASKS option.

Command Access

Enter **TAS** or **TASKS** on the command line of any Unicenter CA-Explore for CICS panel.

Related Configuration Option

- TASKS-SCREEN
- SYSTEM-TASKS-EXCLUDE

Sample Panel With CICS 2.3

```
CA-Explore for CICS 7.0 SP00  DEVCICS4 DB2CICS  CICS         003/06/30 13:01:34
 ==>                                                                    TASKS
                       CICS Tasks Information - CICS23                1:9/9-DATA

   S Tran Task# Term Program  .....Wait Reason..... SVM DCI       CPU LifeTime
 _ A KCP             DFHKCP   Waiting to run         USR  20   12.3446  2:58:29
 _ A TCP             DFHTCP   Dispatcher wait        USR  44            3:05:29
 _ A JJJ             DFHJCBSP Waiting for ECB        KCP  80
 _ A CSDB    16      DLZMPC00 Waiting for ECBlist    SYS  40
 _ A EXPI    17      ECDIINIT Waiting for ECB        SYS  80            3:05:29
 _ A EXPC  1184 8101 ECDIEXPC Running                SYS  19    0.0005   0.0010
 _ A CSSY    15              Waiting for ECB         SYS  80
 _ S JJJ             DFHJCBSP Suspended              KCP  10            2:25:06
 _ S JJJ             DFHJCBSP Suspended              KCP  10




 Options: (D)SA, (F)lashback, (P)urge
  F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
  F7=Backward  F8=Forward   F9=Auto      F10=Toggle   F11=         F12=Exit
```

Sample Panel With TS 1.1

```
CA-Explore 7.0 SP00  DEVCICS4 DB2CICS4 FAQS                2003/06/30 13:00:30
 ==>                                                                    TASKS
                        CICS Tasks Information - CICS410             1:13/13-DATA

   S Tran Task# Term Program  Wait Type Name........ SVM TYP       CPU LifeTime
 _ S EXPC  2780 8001 ECTIEXPC EKCWAIT   SINGLE       SYS  OW    0.0010   0.0018
 _ S EXPI  1868      ECTIINIT EKCWAIT   SINGLE       SYS  OW            1:40:22
 _ S XXFC  1802      CACCXFM0 EKCWAIT   SINGLE       SYS  OW    0.0067  1:24:01
 _ S CSNE    25      DFHZNAC  ZC        DFHZNAC1     SYS  SU
 _ S CSNC    24      DFHCRNP  CSNC      MROQUEUE     SYS  EX
 _ S CSSY    23      DFHAPATT KCCOMPAT  SINGLE       SYS  OW
 _ S J02             DFHAPATT JCJOURDS  DFHJ02A      SYS  SU
 _ S J01             DFHAPATT JCJOURDS  DFHJ01B      SYS  SU            0:30:53
 _ S JBS             DFHAPATT JCTERMN   SUBTASK      SYS  OW
 _ S JAS             DFHAPATT JCJASUS   JABSUTOK     SYS  SU
 _ S CSSY     7      DFHAPATT ICEXPIRY  DFHAPTIX     SYS  SU            1:38:36
 _ S CSSY     6      DFHAPATT ICMIDNTE  DFHAPTIM     SYS  SU
 _ S TCP             DFHTCP   TCP_NORM  DFHZDSP      SYS  OW    0.1224  0:04:04



 OPTIONS: (D)SA, (F)lashback, (P)urge
  F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
  F7=Backward  F8=Forward   F9=Auto      F10=Toggle   F11=         F12=Exit
```

Panel Field Descriptions

Field	Description	For CICS Version
S	Status of the task, as follows:	
	A Active	CICS 2.3
	H Held (not yet dispatched)	CICS 2.3
	S Suspended	CICS 2.3
	N Non-executable	TS 1.1
	P Purged	TS 1.1
	D Dispatchable	TS 1.1
	R Running	TS 1.1
	S Suspend	TS 1.1
	E Resumed early	TS 1.1
	R Reset	TS 1.1
	? Unknown	TS 1.1

Field	Description	For CICS Version
Tran	Transaction ID	CICS 2.3 and TS 1.1
Task#	Task number	CICS 2.3 and TS 1.1
Term	Terminal ID	CICS 2.3 and TS 1.1
Program	Initial program run by the transaction	CICS 2.3 and TS 1.1
Wait Reason	Wait reason	CICS 2.3
Wait Type	Type of wait	TS 1.1
Name	Wait name	TS 1.1
SVM	Service module control identification	CICS 2.3

Field	Description	For CICS Version
DCI	Dispatch control indicator: Running Tasks: 00 This task is running. Dispatchable Tasks: Only tasks with a DCI of X'20' are dispatchable: 20 Waiting to run Non-Dispatchable Tasks: If DCI is not 20, the task is not dispatchable. The following codes are used to indicate why the transaction is not dispatchable: 11 Waiting for TCA storage 12 Enqueue logic QEA 13 Waiting for terminal I/O 14 Maximum active tasks 15 Maximum tasks in class 16 Waiting for ICP timer 17 Anticipatory paging 18 Waiting for storage 19 Interval control delay 1A Suspended mirror task 1C Waiting for temporary storage 1D Maximum tasks in class 21 Abend requested 22 Stall purged 24 Terminal read timeout 25 Deadlock timeout	CICS 2.3

Field	Description	For CICS Version
DCI (continued)	40 Waiting for ECBLIST 41 Waiting for page I/O 42 Task in SRB mode 43 I/O event wait 44 Dispatcher wait 80 Waiting for ECB 88 CICS system event 89 Waiting for the lock manager The byte following the DCI indicates why the task is not dispatchable (X'20'). The following secondary dispatch codes are used: 01 Waiting for enqueue 03 Synchronization dequeue all 04 Suspended 05 Conditional enqueue 07 Conditional attach DCI codes match IBM codes. For more about these codes, see the IBM manual *CICS/VSE Problem Determination Guide*.	CICS 2.3
TYP	OC OLDC wait EX External wait OWOLDW wait SU Suspend wait ?? Unknown type of wait	TS 1.1
CPU	Amount of CPU time, in seconds, used by the transaction	CICS 2.3 and TS 1.1
LifeTime	Current lifetime of transaction	CICS 2.3 and TS 1.1

Interpreting Max Task

Max Task	For CICS Version
CICS 2.3 flags all new tasks entering the system as being at Max Task before they are dispatched for the first time, but the system is not at Max Task. Therefore, especially in a busy system, the Wait Reason for some tasks on the TASKS panel could be Max Task, but the MXT field on the MXT Panel could read that the system was never at Max Task.	CICS 2.3

Displaying Additional Fields

You can display these additional fields by pressing the F10 key:

Field	Description	For CICS Version
Transaction Origin	Information on task's origin, such as original transaction and task numbers	CICS 2.3
@ of DCA	DCA address	CICS 2.3
@ of DTA	DTA address.	TS 1.1
@ of TCA	TCA address	CICS 2.3
Unit of Work ID	Current unit of work, if applicable	CICS 2.3
File I/O	Number of file I/Os for the transaction	CICS 2.3 and TS 1.1
CPU	CPU usage for the transaction	CICS 2.3 and TS 1.1
Storage	Storage usage for the transaction	CICS 2.3 and TS 1.1
Transaction Origin	CICS partition, transaction name, and number for the transaction	CICS 2.3 and TS 1.1
PRI	Transaction priority for the transaction	CICS 2.3 and TS 1.1
DCI	Dispatch Control Indicator (DCI) for the transaction	CICS 2.3
TYP	Wait type for the transaction	TS 1.1

Margin Commands

Command	Description	For CICS Version
F	Displays flashback data for the selected transaction.	CICS 2.3 and TS 1.1
P	Issues the command CEMT SET TASK(*nnnnn*) FORCEPURGE.	CICS 2.3 and TS 1.1

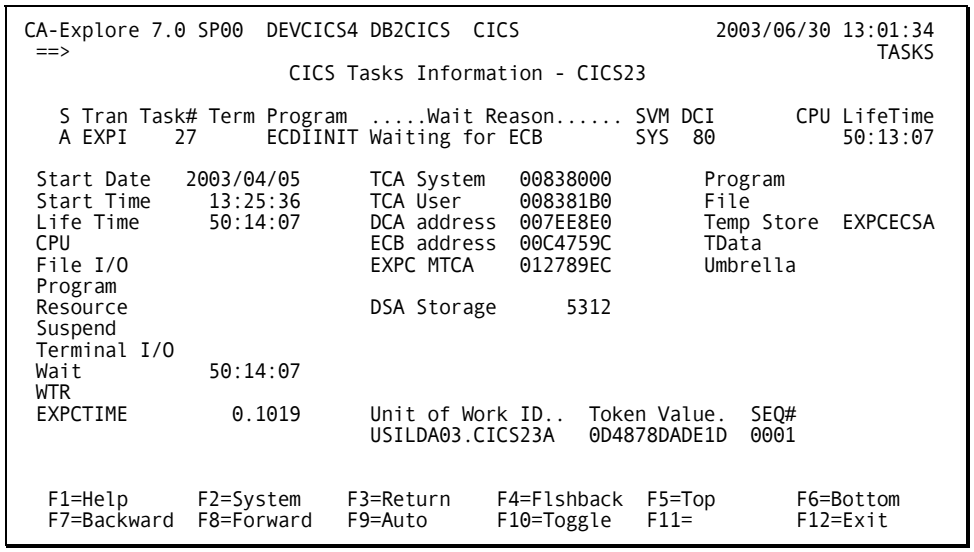
TASKS Detail Panel

The TASKS Detail panel displays detailed information about active and suspended tasks.

Access

On the TASKS panel, cursor-select an entry.

Sample Panel With CICS 2.3



Sample Panel With TS 1.1

```
CA-Explore 7.0 SP00  DEVCICS4 DB2CICS4 FAQS                2003/06/30 13:00:30
 ==>                                                                    TASKS
                       CICS Tasks Information - CICS410

   S Tran Task# Term Program  Wait Type Name........ SVM TYP       CPU LifeTime
   S EXPI    26      ECTIINIT EKCWAIT   SINGLE       SYS  OW           50:18:14

 Start Date   2003/04/05      TCA System   0078F180        Program
 Start Time     13:23:01      TCA User     0078F080        File
 Life Time      50:18:16      DTA ADDRESS  02AD0080        Temp Store  EXPCECSA
 CPU                          ECB address  00B9159D        TData
 File I/O                     EXPC MTCA    029599EC        Umbrella
 Program
 Resource                     DSA Storage      1664
 Suspend
 Terminal I/O
 Wait           50:18:16
 WTR
 EXPCTIME         0.1106      Unit of Work ID..  Token Value.  SEQ#
                              USILDA03.CICS41A   0D47E9586D12  0001

 F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
 F7=Backward  F8=Forward   F9=Auto      F10=Toggle   F11=         F12=Exit
```

Panel Field Descriptions

The fields on the first line of the TASKS Detail panel have the same meanings as the fields on the TASKS panel. The remaining information fields have the following meanings:

Field	Description	For CICS Version
Start Date	Date the task started.	CICS 2.3 and TS 1.1
Start Time	Time the task started.	CICS 2.3 and TS 1.1
Resource fields	These fields, located below the Start Time field, indicate resource type. If a value is highlighted, the clock for that resource type is active. The following are some of the resource types that might appear in this field: Lifetime Transaction lifetime, the time difference between the transaction start time and end time. CPU CPU time allocated to the transaction when executing user code or CICS code. File I/O Time that the transaction waits for file requests. This time is only for datasets in the FCT. Program Time spent executing program code.	CICS 2.3 and TS 1.1

Field	Description	For CICS Version
Resource fields (continued)	Resource Time spent waiting on an internal CICS resource. If a transaction needs a resource and must wait for it to become available, CICS places the transaction on the active DCA chain with a dispatch control indicator (DCI) of X'88'. A transaction is put in this state if it is waiting for strings, for buffers or for a program to be loaded into the DSA. Suspend Time spent suspended. Terminal I/O Time spent when the transaction forces a terminal wait. Normally, a pseudo-conversational transaction sends a BMS map. The terminal I/O is scheduled after the transaction ends. You can force the BMS map to be written immediately, or if it is a conversational task, then the terminal I/O must be forced to occur. In this case, terminal I/O time is the time spent to handle the I/O. Wait Time that a transaction must wait for ECBs to be posted. Intrapartition dataset I/O time and DFHTEMP I/O is included. WTR Time the transaction spent on the active DCA chain waiting to run. EXPCTIME Average time (in seconds) spent in Unicenter CA-Explore for CICS code.	CICS 2.3 and TS 1.1

Field	Description	For CICS Version
TCA System	Address of the system TCA control block.	CICS 2.3 and TS 1.1
TCA User	Address of the user TCA control block.	CICS 2.3 and TS 1.1
DCA address	Address of the DCA control block.	CICS 2.3
DTA address	Address of the DTA control block.	TS 1.1
ECB address	Address of an ECB (event control block) being waited on by a transaction.	CICS 2.3 and TS 1.1
EXPC MTCA	Address of the Unicenter CA-Explore for CICS Monitor Tasks Control Area.	CICS 2.3 and TS 1.1
DSA Storage	Amount of DSA user storage in use.	CICS 2.3 and TS 1.1
Program	Last CICS program used.	CICS 2.3 and TS 1.1
File	Last file used.	CICS 2.3 and TS 1.1
Temp Store	Last temporary storage queue used.	CICS 2.3 and TS 1.1
Tdata	Last transient data queue used.	CICS 2.3 and TS 1.1
Umbrella	Umbrella name, if applicable.	CICS 2.3 and TS 1.1
Unit of Work ID	CICS unit of work ID.	CICS 2.3 and TS 1.1
Token Value	CICS-assigned value (subset of Unit of Work).	CICS 2.3 and TS 1.1
SEQ#	CICS-assigned sequence number (subset of Unit of Work).	CICS 2.3 and TS 1.1

TSUMMARY Panel

The TSUMMARY panel displays summary information about transactions.

Menu Access

On the /STATUS menu, cursor-select the TSUMMARY option.

Command Access

Enter **TSUM** or **TSUMMARY** on the command line of any Unicenter CA-Explore for CICS panel.

Command Syntax and Operands

```
TSUMmary [tran|ALL]
```

Operand	Description
tran	Identifies the transaction for which you want summary information.
ALL	Indicates that you want summary information for all transactions.

If you do not use the *tran* operand to specify the transactions for which you want summary information, the TSUMmary command displays summary information for all transactions.

Sample Panel

```
CA-Explore 7.0 SP00  DEVCICS4 DB2CICS4 FAQS                2003/06/30 13:00:30
==>                                                                 TSUMMARY
                              Transaction Summary                1:16/31-DATA
                              Total      3:08:04
Tran   Count    Rate    Lifetime       WTR  File I/O  Resptime   CPUtime
CEMT     374       2      5.9095    0.0064               0.0353    0.0054
I$$P     280       1      0.0069    0.0005               0.0069    0.0036
IE$1     279       1      0.0084    0.0005    0.0005     0.0084    0.0051


F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Tran	Transaction name
Count	Number of transactions within the interval
Rate	Current transaction rate for the interval
Lifetime	Average lifetime of a transaction during the interval
WTR	Average wait-to-run time of a transaction during the interval
File I/O	Average file I/O time of a transaction during the interval
Resptime	Average response time of a transaction during the interval
CPUtime	Average CPU time of a transaction during the interval

Toggling the Display Between Periods

You can toggle your panel display between statistical periods:

F Key	Description
F10	Toggles between current interval statistics, total statistics since initialization, and last interval statistics

VSTATUS Panel

The VSTATUS panel displays information about the resources you specify in the variable status collection table members.

Menu Access

On the /STATUS menu, cursor-select the VSTATUS option.

Command Access

Enter **VSTAT** or **VSTATUS** on the command line of any Unicenter CA-Explore for CICS panel.

Command Syntax and Operands

```
VSTATus [variable] [RSCE1 resource1] [RSCE2 resource2]
        ADD [variable] [resource] [resource]
```

Operand	Description
variable	String specifying variables to be displayed. You can include generic characters in the string. See the chapter titled "Using Unicenter CA-Explore Performance Management for CICS" for more information. Unicenter CA-Explore for CICS collects variable status data only for variables specified in the variable status-collection table member. See the chapter titled "Variable Status Data Collection" for more information.
RSCE1 *resource1*	Displays data for the resource you specify for *resource1*. Replace *resource1* with a string specifying the resource for which you want to display information. You can include generic characters.
RSCE2 *resource2*	Displays data for a second resource you specify for *resource2*. Replace *resource2* with a string specifying the resource for which you want to display information. You can include generic characters.
ADD	Dynamically adds the *variable* specified to the VSTATUS panel. This change is temporary, and the variable will appear on the panel only until Unicenter CA-Explore for CICS is reinitialized. Replace *resource* with strings specifying the resources for which you want to display information. You can include generic characters.

Note: Data for system variables on the VSTATUS panel is updated at system intervals (every 30 seconds). Data for other variables is updated dynamically as events occur.

If you do not specify any operands, all variables for all resources are displayed.

Examples

```
VSTAT CPUTIME RSCE1 C*
VSTAT RESPTIME RSCE2 DFC*
```

Sort Arguments

- VARIABLE
- RSCE1
- RSCE2

Related Configuration Options

- VSTATUS-MEMBER
- VSTATUS-COLLECTION
- VSTATUS-TOTAL-INTERVAL

Related Commands

- VARiable
- THREShol

Sample Panels

```
CA-Explore 7.0 SP00  DEVCICS4 DB2CICS4 FAQS                2003/06/30 13:00:30
==>                                                                  VSTATUS
                          Variable Status Collection              1:16/63-DATA

   Variable  Resource Resource   Current   Minimum  Maximum   Warning    Limit
_  CPU%      $SYSTEM$                 2         1        6        68       90
_  CPU%JOB   $SYSTEM$             0.180     0.080    2.469    15.000   20.000
Options: (D)istribution, (P)lot, (S)elect
F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Toggle   F11=         F12=Exit
```

```
CA-Explore 7.0 SP00  DEVCICS4 DB2CICS4 FAQS                  2003/06/30 13:00:30
 ==>                                                                    VSTATUS
                          Variable Status Collection              1:16/28-DATA

    Variable  Resource Resource   Average   Minimum  Maximum   Warning    Limit
_   CPU%      $SYSTEM$                  0
_   CPU%JOB   $SYSTEM$              0.147     0.041    0.677
_   CPUTIME   *         *             0.003     0.001    0.034
_   DSA%      $SYSTEM$                 73        73       74
_   EXPCARC   $SYSTEM$                 94        87       99
_   FILEREQS  *         *             0                   1
_   GETVIS24  $SYSTEM$              1219      1212     1236
_   GETVIS31  $SYSTEM$             39936     39936    39936
_   GETV24%   $SYSTEM$                 87        87       87
_   GETV31%   $SYSTEM$                 54        54       54
_   IORATE    $SYSTEM$              2.193     0.100   14.533
_   LIFETIME  *         *             0.550     0.003   24.119
_   RESPTIME  *         *             0.021     0.003    1.399
_   TRANCMP   $SYSTEM$              0.000
_   TRANCPU   $SYSTEM$              0.003     0.001    0.102
_

 Options: (D)istribution, (P)lot, (S)elect
  F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
  F7=Backward  F8=Forward   F9=Auto      F10=Toggle   F11=         F12=Exit
```

```
CA-Explore 7.0 SP00  DEVCICS4 DB2CICS4 FAQS                  2003/06/30 13:00:30
 ==>                                                                    VSTATUS
                          Variable Status Collection              1:16/28-DATA

    Variable  Resource Resource   Maximum    00----20----40----60----80---100
_   CPU%      $SYSTEM$                    |                                   |
_   CPU%JOB   $SYSTEM$              0.677  |    63 12  3  7     2  2 10     2|
_   CPUTIME   *         *             0.034  |    81  6  6           3         3|
_   DSA%      $SYSTEM$                 74  |                      100          |
_   EXPCARC   $SYSTEM$                 99  |                             40 60|
_   FILEREQS  *         *               1  | 94                             6|
_   GETVIS24  $SYSTEM$              1236  |                               100|
_   GETVIS31  $SYSTEM$             39936  |                               100|
_   GETV24%   $SYSTEM$                 87  |                           100   |
_   GETV31%   $SYSTEM$                 54  |                 100               |
_   IORATE    $SYSTEM$             14.533  | 68 13          2  5  2     8     2|
_   LIFETIME  *         *            24.119  | 84  6  3  3                       3|
_   RESPTIME  *         *             1.399  | 90  6                             3|
_   TRANCMP   $SYSTEM$                    |                                     |
_   TRANCPU   $SYSTEM$              0.102  | 79 12  6                          3|
_

 Options: (D)istribution, (P)lot, (S)elect
  F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
  F7=Backward  F8=Forward   F9=Auto      F10=Toggle   F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Variable	Variable name. The variable names that appear are those specified in the variable status collection table member. For more information, see the chapter titled "Variable Status Data Collection."
Current	Average value of the variable over the last two interval increments. Each increment is 1/60th of the interval.
Minimum	Minimum average for one increment during an interval. Each increment is 1/60th of the interval.
Maximum	Maximum average for one increment during an interval. Each increment is 1/60th of the interval.
Warning	Threshold warning value. The value is defined using the Pct field on the THRESHOL panel or in a threshold table member. See the chapter titled "Performance Thresholds" for more information.
Limit	Threshold limit value.

Displaying Additional Fields

You can display these additional fields by pressing the F10 key:

Field	Description
Average	Average value of variable during the interval.
00 - 100	Displays the percentages of the individual statistics collected during the last hour that were at 10 percent increments of the maximum value.

Margin Commands

Command	Description
D	Displays a distribution plot of the percentages of the individual statistics collected during the past hour that were at 10 percent increments of the maximum value.
P or S	Displays a plot of the last available hour's data for the variable you select.

VSTATUS Plot Detail Panel

The VSTATUS Plot Detail panel displays a plot of the last available hour's worth of data for the variable you selected.

Panel Access

On the VSTATUS panel, cursor-select an entry.

Command Access

Enter **VSTAT** or **VSTATUS** on the command line of any Unicenter CA-Explore for CICS panel.

Command Syntax and Operands

```
VSTATus USING variable [resource1] [resource2] [AND variable [resource1]
[resource2]] [MAXy [MAX]|[AVE]|[nnn]] [SPLIT]|[COMBINE]]
```

Note: When using this command from the VSTATUS panel, it is not necessary to include **VSTATUS** as part of the command. For example, you can enter **USING CPUTIME** on the VSTATUS panel to display a plot showing data for the CPUTIME.

Operand	Description
USING	Displays the first plot. If a second plot is not defined using AND, a single full-panel plot is displayed.
variable	String specifying the variable for which data is to be plotted.
resource1	String specifying a resource for which data is to be plotted.
resource2	String specifying a second resource for which data is to be plotted.
AND	Displays a second plot. If two plots are defined, a two-panel plot is displayed.
MAX*y*	Specifies the maximum value of the scale for one of the plots. If you specify a value of 1 for *y*, the USING variable is used to define the maximum scale value for the plot; if you specify a value of 2 for *y*, the AND variable is used to define the maximum scale value for the plot.
MAX	Sets the maximum scale value to the maximum value of the plot.

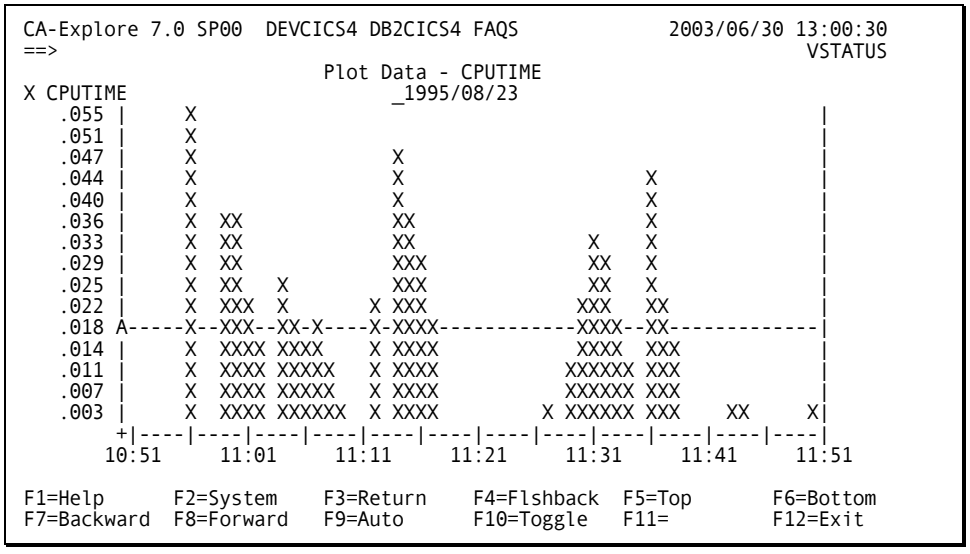
Operand	Description
AVE	Sets the maximum scale value to the average value of the plot.
nnn	Sets the maximum scale value to the numerical value you specify.
SPLIT	Plots the two variables in two separate plots.
COMBINE	Plots the two variables in one plot.

The default maximum scale value is MAX. If you specify two variables, SPLIT is the default.

Examples

```
VSTAT USING CPUTIME AND TRANUSE
VSTAT USING CPUTIME CEDA AND TRANUSE CEDA COMBINE
VSTAT USING CPUTIME C* AND TRANUSE C*
VSTAT USING CPUTIME MAX .050
VSTAT USING RESPTIME AND TRANUSE MAX1 1.000 MAX2 30 SPLIT
```

Sample Panel



VSTATUS Distribution Detail Panel

The VSTATUS Distribution Detail panel displays a plot of the percentage of the individual statistics collected that were at each value listed. The values are 0 and 100 percent of the maximum value collected and each 10 percent increment in between.

Access

On the VSTATUS panel, enter **D** in the blank field beside the desired entry.

Sample Panel

```
CA-Explore 7.0 SP00  DEVCICS4 DB2CICS4 FAQS                2003/06/30 13:00:30
==>                                                                     VSTATUS
                          Variable Status Collection

   Variable  Resource  Resource   Average   Minimum  Maximum  Warning    Limit
   CPU%      $SYSTEM$                   2         1       30       68       90

   Value  Pct   ...10...20...30...40...50...60...70...80...90..100
       0   88% |*******************************************
      10    6% |***
      20    0% |
      30    6% |***
      40    0% |
      50    0% |
      60    0% |
      70    0% |
      80    0% |
      90    0% |
     100    0% |


F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Toggle   F11=         F12=Exit
```

Panel Field Descriptions

The information fields on the first row of this panel have the same meanings as the corresponding fields on the VSTATUS panel. This panel also includes the following fields:

Field	Description
Value	The maximum value collected during the past hour in 10 percent increments
Pct	Percentage of the values collected during the past hour that were of the value specified by the Value field, displayed in both numeric and graph form

Chapter

5

/STORAGE Menu Options

This chapter explains the /STORAGE menu, which you can use to display such information as temporary auxiliary storage statistics, dynamic storage areas (DSAs), free area queue elements (FAQEs) for CICS 2.3, and maps.

Note: This chapter discusses the uses of Unicenter CA-Explore for CICS with CICS Version 2.3 (CICS 2.3) and CICS Transaction Server Version 1.1 (TS 1.1). Unless a distinction is noted, the information applies to both versions.

/STORAGE Menu

The /STORAGE menu lists the commands you can issue to display information collected by Unicenter CA-Explore for CICS about the following:

- Temporary auxiliary storage statistics
- The one DSA in CICS 2.3, or the eight DSAs in TS 1.1
- FAQEs (for CICS 2.3 only)
- The GETVIS page allocation maps
- Maps
- Control block mapping
- The VSE region map
- CICS subpools
- CICS table entries
- Temporary storage queues

Menu Access

- On the Unicenter CA-Explore for CICS Main menu, cursor-select the /STORAGE option.
- Type any character (except H) in the space provided to the left of the command and press Enter.

Command Access

Enter **/STO** or **/STORAGE** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Menu With CICS 2.3

```
CA-Explore for CICS 7.0 SP00  DEVCICS4 DB2CICS  CICS       2003/08/21 16:41:26
==>                                                                 /STORAGE
                  CA-Explore for CICS Menu -  /STORAGE            1:13/13-DATA

                      Command     Description
                   _  AUXSTOR     Temporary Storage Auxiliary Statistics
                   _  DSA         Dynamic Storage Area
                   _  FAQE        Free Area Queue Elements
                   _  GETVIS24    GETVIS24 Page Allocation Map
                   _  GETVIS31    GETVIS31 Page Allocation Map
                   _  LISTMAPS    List Map Table
                   _  MAP         Map Control Block Storage
                   _  MAPVSE      VSE Region Map
                   _  SUBPOOLS    Partition GETVIS Subpools
                   _  TABLES      Table Entries Storage Used
                   _  TEMPSTOR    Temporary Storage Statistics
                   _  TSQSTATS    Temporary Storage Queue Statistics
                   _  TSQUEUES    Temporary Storage Queues



 F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
 F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Sample Menu With TS 1.1

```
CA-Explore For CICS 7.0 SP00  DEVCICS4 DB2CICS4 CICS       2003/08/21 16:40:31
 ==>                                                                /STORAGE
                  CA-Explore for CICS Menu -  /STORAGE            1:12/12-DATA

                      Command     Description
                   _  AUXSTOR     Temporary Storage Auxiliary Statistics
                   _  DSA         Dynamic Storage Area
                   _  GETVIS24    GETVIS24 Page Allocation Map
                   _  GETVIS31    GETVIS31 Page Allocation Map
                   _  LISTMAPS    List Map Table
                   _  MAP         Map Control Block Storage
                   _  MAPVSE      VSE Region Map
                   _  SUBPOOLS    Partition GETVIS Subpools
                   _  TABLES      Table Entries Storage Used
                   _  TEMPSTOR    Temporary Storage Statistics
                   _  TSQSTATS    Temporary Storage Queue Statistics
                   _  TSQUEUES    Temporary Storage Queues



  F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
  F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Display Options

To display a panel listed on the /STORAGE menu, cursor-select the option from the menu, or enter the corresponding command as shown in the following table:

This Command	Displays	Default Sort Argument	For CICS Version
AUXstor	Temporary auxiliary storage statistics	None	CICS 2.3 and TS 1.1
DSA	Information about the dynamic storage area	None	CICS 2.3 and TS 1.1
FAQE	Information about free area queue elements	None	CICS 2.3
GETVIS24	Map of allocated and unallocated GETVIS storage	None	CICS 2.3 and TS 1.1
GETVIS31	Map of allocated and unallocated GETVIS storage	None	CICS 2.3 and TS 1.1
LISTMAPs	List of maps	MAPNAME	CICS 2.3 and TS 1.1
MAP	Information about control block mapping	OFFSET	CICS 2.3 and TS 1.1
MAPVse	Information about the VSE virtual storage region map	ADDRESS	CICS 2.3 and TS 1.1
SUBPools	Information about CICS subpools	GETVIS24	CICS 2.3 and TS 1.1
TABLEs	Information about CICS tables	INACTIVE	CICS 2.3 and TS 1.1
TEMPstor	Temporary storage statistics	None	CICS 2.3 and TS 1.1
TSQStats	Temporary storage queue statistics	QUEUE	CICS 2.3 and TS 1.1
TSQueues	Temporary storage queues	QUEUE	CICS 2.3 and TS 1.1

AUXSTOR Panel

The AUXSTOR panel displays temporary auxiliary storage statistics.

Menu Access

On the /STORAGE menu, cursor-select the AUXSTOR option.

Command Access

Enter **AUX** or **AUXSTOR** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Panel

```
CA-Explore for CICS 7.0 SP00  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:14:32
==>                                                                   AUXSTOR
                    Temporary Storage Auxiliary Statistics

Control Intervals            Statistics
Total CI's          300      GETS - Aux            20
CISIZE             4096      GETS - Main          243
Available/CI       4032
Segments/CI          63      Items In Longest Queue       36
Bytes/Segments       64      Longest Aux Record Len       28

Allocated             1
Allocated High        2                        Current  Maximum    Total
Recoverable           0      Buffers                 3
                             Write Buffers           0        1
Reads                 0      Buffer Waits            0        0        0
Writes                0      Strings                 3
Writes Force          0      String Waits            0        0        0
Writes Format         0      Queues                  3        7



F1=Help      F2=System     F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward    F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

The following tables describe the fields on the AUXSTOR panel.

Panel Field Descriptions: Control Intervals

Field	Description
Total CIs	Total number of control intervals
CISIZE	Control interval size
Available/CI	Number of available control intervals
Segments/CI	Number of segments per control interval
Bytes/Segments	Number of bytes per segment
Allocated	Number of allocated control intervals
Allocated High	Maximum number of allocated control intervals
Recoverable	Number of recoverable control intervals
Reads	Number of reads from auxiliary storage
Writes	Number of writes to auxiliary storage
Writes Force	Number of writes forced by recovery to auxiliary storage
Writes Format	Number of writes format to auxiliary storage

Panel Field Descriptions: Statistics

Field	Description
GETS - Aux	Number of GETs from auxiliary storage
GETS - Main	Number of GETs from main storage
Items In Longest Queue	Number of items in longest queue in temporary storage
Longest Aux Record Len	Length of longest auxiliary record
Buffers	Current, maximum, and total number of buffers in auxiliary storage
Write Buffers	Current, maximum, and total number of write buffers in auxiliary storage
Buffer Waits	Current, maximum, and total number of buffer waits in auxiliary storage
Strings	Current, maximum, and total number of strings in auxiliary storage
String Waits	Current, maximum, and total number of string waits in auxiliary storage
Queues	Current, maximum, and total number of queues in auxiliary storage

DSA Panel With CICS 2.3

The DSA panel displays information about the one DSA for CICS 2.3.

Note: Because the DSA panels with CICS 2.3 and TS 1.1 differ significantly, they are described in separate sections in this chapter. This section describes the DSA panel for CICS 2.3.

Menu Access

On the /STORAGE menu, cursor-select the DSA option.

Command Access

Enter **DSA** on the command line of any Unicenter CA-Explore for CICS panel.

Command Syntax and Operands

```
DSA [BYTES|PAGES]
```

Operand	Description
BYTES	Displays DSA statistics in bytes
PAGES	Displays DSA statistics in pages

Sample Panel

```
CA-Explore for CICS 7.0 SP00  DEVCICS4 DB2CICS  CICS       2003/06/30 13:14:56
==>                                                                      DSA
                         Dynamic Storage Area                        1:7/31-DATA

DSA        1947K          Subpool       FAQE  Pages  Pct  ..25…50…75..100
Available   139K    _  01 Control ©       9      5    0%¦
Used       1808K    _  02 Teleproc(T)      2      4    0%¦
Cushion    16384    _  04 Task    (K)     n/a     58    2%¦
Max Block  2152K    _  05 Shared  (S)      46    235   12%¦**
Size        1024    _  06 Vtam-RPL(V)      2      1    0%¦
Queued         0    _  08 Programs(P)     n/a   1489   76%¦***************
Compress       0       DSA Used              1808   92%¦******************

Address     0…4…8…C..10..14..18..1C..20..24..28..2C..30..34..38..3C…
00889000    CVKKKTK.CSSKKKKKKCSTSKKKSKKKKKSKKKSSSSKKKKSKKTSSSSSSSSSSSSSSSSSS
00899000    ….........PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP

F1=Help      F2=System     F3=Return     F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward    F9=Auto       F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
DSA	Total number of bytes allocated to the DSA. If you specified the PAGES operand when you entered the DSA command, this field is replaced by the DSA Pages field.
DSA Pages	Total number of pages allocated to the DSA. If you did not specify the PAGES operand when you entered the DSA command, this field is replaced by the DSA field.
Available	Number of bytes (or pages, if the DSA Pages field is displayed) currently available.
Used	Number of bytes (or pages, if the DSA Pages field is displayed) currently in use.
Cushion	Number of bytes (or pages, if the DSA Pages field is displayed) allocated as the storage cushion.
Max Block	Size of the largest contiguous block of storage, in bytes.
Size	Size of each page, in bytes.
Queued	Number of transactions queued due to shortage of DSA.
Compress	Number of storage compressions.

<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td>Subpool</td><td>Name of CICS storage subpool for which DSA storage is used. The type of storage requested determines the subpool obtained. The six subpools and their corresponding storage types are as follows:
<table>
<tr><th>Subpool</th><th>Storage Types</th></tr>
<tr><td>01 Control (C)</td><td>DCA, QEA, ICE, and AID storage</td></tr>
<tr><td>02 Teleproc (T)</td><td>TIOA storage</td></tr>
<tr><td>04 Task (K)</td><td>TCA and other transaction storage areas</td></tr>
<tr><td>05 Shared (S)</td><td>COMMAREA, temporary storage control blocks, and TCTTEs for dynamically acquired terminals</td></tr>
<tr><td>06 VTAM RPL (V)</td><td>VTAM RPLs</td></tr>
<tr><td>08 Program (P)</td><td>Nonresident program and BMS map storage</td></tr>
</table></td></tr>
<tr><td>FAQE</td><td>Number of free area queue elements found in the subpool.</td></tr>
<tr><td>Pages</td><td>Number of pages allocated to the subpool.</td></tr>
<tr><td>Pct</td><td>Percentage of the total the subpool contributes. This information is also presented in graph form.</td></tr>
<tr><td>DSA Used</td><td>Total number of pages used in the DSA.</td></tr>
<tr><td>Address</td><td>Detailed graphic information about each DSA page and the subpool to which it is allocated. Each DSA page is represented by either a period (.) indicating that it is unassigned, or a letter indicating its subpool. The meanings of the letters used are given in the subpool information field, with the exception of the letter R, which represents program pages marked for deletion.</td></tr>
</table>

DSA Panel (with TS 1.1)

The DSA panel displays information about the eight dynamic storage areas for TS 1.1.

Note: Because the DSA panels with CICS 2.3 and TS 1.1 differ significantly, they are described in separate sections. This section describes the DSA panel for TS 1.1.

Menu Access

On the /STORAGE menu, cursor-select the DSA option.

Command Access

Enter **DSA** on the command line of any Unicenter CA-Explore for CICS panel.

Command Syntax

```
DSA
```

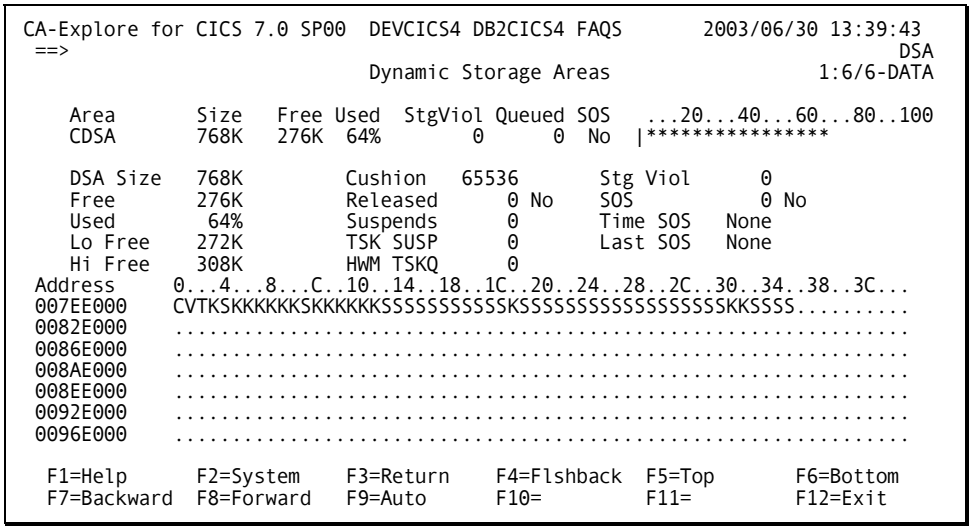
Sample Panel

```
CA-Explore for CICS 7.0 SP00  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:15:26
==>                                                                      DSA
                              Dynamic Storage Areas                   1:8/8-DATA

   Area       Size   Free Used  StgViol Queued SOS   ...20...40...60...80..100
_  UDSA       256K   248K   3%        0      0  No   |*
_  CDSA       512K   200K  61%        0      0  No   |***************
_  SDSA       256K   168K  34%        0      0  No   |*********
_  RDSA       512K  61440  88%        0      0  No   |**********************
_  ECDSA     4096K  1052K  74%        0      0  No   |*******************
_  EUDSA     1024K  1024K   0%        0      0  No   |
_  ESDSA     1024K   996K   3%        0      0  No   |*
_  ERDSA     6144K   324K  95%        0      0  No   |************************

   ALL DSA  13824K  4072K  71%                      |******************
   DSA 24    1536K   676K  56%                      |**************
   DSA 31   12288K  3396K  72%                      |******************



  F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
  F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions (Sample Panel 1)

Field	Description
Area	Names of the eight DSAs
Size	Total number of bytes allocated to DSA
Free	Number of bytes currently available in DSA
Used	Percentage of DSA currently used. This percentage is displayed graphically to the right of the line.
Stgviol	Storage violations detected
Queued	Number of storage requests queued for storage in the DSA because of a short-on-storage condition
SOS	If Yes, a short-on-storage condition exists
ALLDSA	Storage values for all 8 of the DSAs.
DSA24	Storage values for the four (4) DSAs below the 16Mb line.
DSA 31	Storage values for the four (4) DSAs above the 16Mb line.

Sample Panel 2



Panel Field Descriptions (Sample Panel 2)

Field	Description
DSA Size	Size of the DSA in bytes
Free	Number of free bytes in the DSA
Used	Percentage of DSA used
Lo Free	Low water mark of free bytes
Hi Free	High water mark of free bytes
Cushion	Number of bytes for the DSA cushion
Released	Number of times a cushion has been released
Suspends	Number of storage requests suspended because of an SOS condition
TSK SUSP	Number of tasks suspended due to an SOS condition
HWM TSKQ	High water mark of suspended tasks due to an SOS condition
Stg Viol	Number of storage violations in DSA
SOS	Number of times a short-on-storage condition has occurred and if the condition is still active
Time SOS	Amount of time short-on-storage conditions existed
Last SOS	Time of day the last short-on-storage condition occurred.
Dynamic Storage Area Subpool map	Subpool map for the DSA

FAQE Panel (CICS 2.3 only)

The FAQE panel displays information about free area queue elements (FAQEs).

Menu Access

On the /STORAGE menu, cursor-select the FAQE option.

Command Access

Enter **FAQE** on the command line of any Unicenter CA-Explore for CICS panel.

Command Syntax and Operands

```
FAQE [CONtrol] [TELeproc] [SHAred] [RPL] [ALL]
```

Operand	Description
CONtrol	Displays the control subpool
TELeproc	Displays the teleprocessing subpool
SHAred	Displays the shared subpools
RPL	Displays the RPL subpools
ALL	Displays information from all subpools

If you do not specify an operand, all subpools are displayed.

Sample Panel

```
CA-Explore for CICS 7.0 SP00  DEVCICS4 DB2CICS  CICS       2003/06/30 13:40:16
==>                                                                    FAQE
                          Free Area Queue Elements               1:16/23-DATA

Subpool       Page   Address   Length
Subpool       Page   Address   Length
01 CONTROL       1  007CF580       80
01 CONTROL       1  007CF620     2528
02 TELEPROC      3  007D1460     2976
05 SHARED        5  007D33B0       16
05 SHARED        5  007D3B90       32
05 SHARED        5  007D3DA0       16
05 SHARED       24  007E6090     3952
05 SHARED       32  007EE280     3456
05 SHARED       35  007F1810     2032
05 SHARED       51  00801FE0       32
05 SHARED       54  00804FF0       16
05 SHARED       62  0080CFF0       16
05 SHARED       66  00810FF0       16
05 SHARED       70  00814FF0       16
05 SHARED       74  00818FF0       16
05 SHARED       77  0081BFF0       16 Options: ALL, CONtrol, TELeproc, SHAred, SHR, RPL

F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Subpool	ID and name of CICS subpool where the FAQE resides
Page	DSA page where the FAQE resides
Address	FAQE storage address
Length	Size of the FAQE, in bytes

GETVIS24 and GETVIS31 Panels

The GETVIS24 panel displays a map of allocated and unallocated GETVIS storage below the 16M line. This panel can be used to detect GETVIS storage fragmentation below the line.

The GETVIS31 panel displays a map of allocated and unallocated GETVIS storage above the 16M line. This panel can be used to detect GETVIS storage fragmentation above the line.

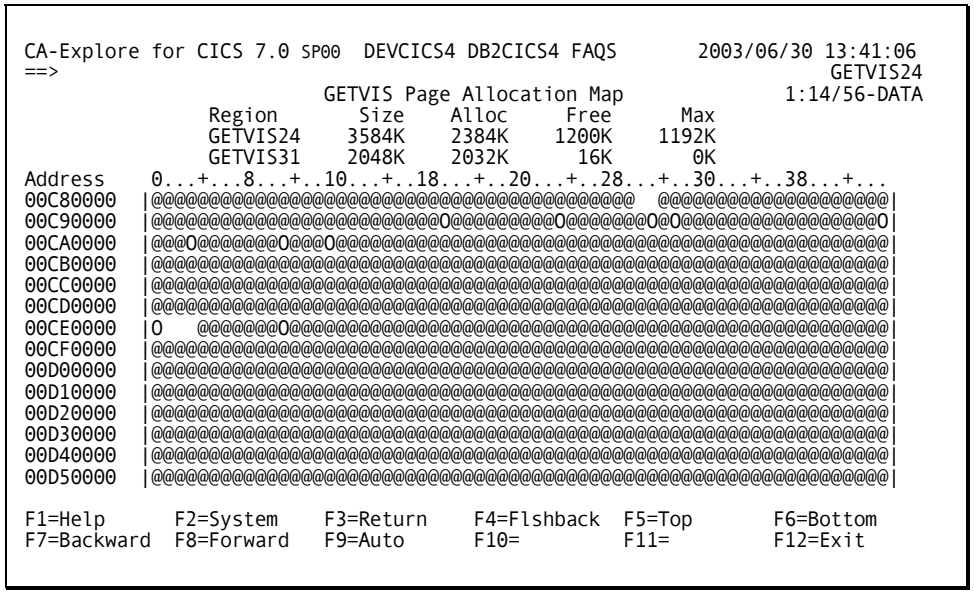
Menu Access

On the /STORAGE menu, cursor-select the GETVIS24 option to display GETVIS storage allocations below the 16M line, or the GETVIS31 option to display GETVIS storage allocations above the line.

Command Access

Enter **GETVIS** or **GETVIS24** on the command line of any Unicenter CA-Explore for CICS panel to display GETVIS storage allocations below the 16M line, or GETVIS31 to display GETVIS storage allocations above the 16M line.

Sample Panel



Panel Field Descriptions

The first two lines of the GETVIS panel display the following information:

Field	Description
Region	Region for which GETVIS storage allocations are displayed. The map of allocations applies to the region that is highlighted in this field.
Size	Size of the GETVIS storage region.
Alloc	Amount of GETVIS storage that has been allocated.
Free	Amount of free GETVIS storage.
Max	Size of the largest contiguous block of free GETVIS storage.

The remainder of the panel displays a coded map of GETVIS storage allocation for the region highlighted in the Region field. The storage address is displayed at the left side of the panel, and the offset into storage is displayed at the top of the panel. Each character indicates a 1024-byte page of GETVIS storage. The characters have the following meanings:

Character	Amount of Page Allocated
@	The page is completely allocated.
0	The page is not completely allocated, but one or more 128-byte segments are allocated.
blank	No allocations have been made within the page.

LISTMAPS Panel

The LISTMAPS panel displays a list of maps loaded during initialization of Unicenter CA-Explore for CICS.

Menu Access

On the /STORAGE menu, cursor-select the LISTMAPS option.

Command Access

Enter **LISTMAP** or **LISTMAPS** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Panel

```
CA-Explore for CICS 7.0 SP00  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:41:06
==>                                                              LISTMAPS
                                  Map Table                    1:10/10-DATA

   Mapname  Maplen Symaddr  Region   Member
_  ACCTABLE 00007E                   MAPSVSE
_  ATENTRY  000018                   MAPSVSE
_  CLASSADR 000078 003AB000 SGETV24  MAPSVSE
_  CLIMADR  00003A 0002DBF0 SUPERVIS MAPSVSE
_  COMREG   00011C 0043B438 SGETV24  MAPSVSE
_  CSAMXTDS 0000D1                   MAPSCICS
_  CSAOPFL  000328 00A21A80 GETVIS   MAPSCICS
_  DCTSDSCI 000018                   MAPSCICS
_  DFHAIDDS 000044                   MAPSCICS
_  DFHBNDDS 00000A                   MAPSCICS


F1=Help      F2=System     F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward    F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Mapname	Name of the map.
Maplen	Length of the control block.
Symaddr	Address of a symbol defined with the same name.
Region	Name of the VSE storage region, such as the supervisor area, associated with the map.
Member	Name of the Unicenter CA-Explore for CICS product library member used to load the map at initialization. These members are appended with *.M* and must be listed in the member specified by the MAPS-MEMBER configuration option. See the chapter titled "Configuration Options" for more information.

MAP Panel

The MAP panel displays information about control block mapping.

Menu Access

On the /STORAGE menu, cursor-select the MAP option.

Command Access

Enter **MAP** on the command line of any Unicenter CA-Explore for CICS panel.

Command Syntax and Operands

```
MAP mapname [address|*] [LABEL label]
```

Field	Description
mapname	String specifying maps to be displayed
address	String specifying the address of a symbol defined with the same name as the map
*	Specifies that the address of the currently displayed storage is to be used as the address of a symbol defined with the same name as the map
label	Specifies a label associated with the map

Example

```
MAP SYSCOM 410
```

Sample Panel

```
CA-Explore for CICS 7.0 SP00  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:41:06
==>                                                                     MAP
                              Control Block Mapping               1:16/113-DATA
                                COMREG   00003C20
Address  Offset Label    Opcod Operands                        Hexadecimal
00003C20 000000 JOBDATWC DS    0CL11
00003C20 000000 JOBDATE  DC    CL8'03/30/94'                   F0F361F3F061F9F4
00003C28 000008          DC    CL3'/19'                        61F1F9
00003C2B 00000B          DC    XL1'00'                         00
00003C2C 00000C COMUSCR  DS    11XL1                           0000000000000000
00003C37 000017 UPSI     DC    XL1'80'                         80
00003C38 000018 COMNAME  DC    CL8'CICSICCF'                   C3C9C3E2C9C3C3C6

F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Toggle   F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Address	Storage address of the field in the map
Offset	Offset of the field into the map
Label	Label name assigned to the field in the map
Opcod	Assembler opcode
Operands	Operands associated with the opcode
Hexadecimal or Character	Hexadecimal or character representation of data

Toggling the Display Between Hexadecimal and Character Representations

You can toggle your panel display between hexadecimal and character representation:

F Key	Description
F10	Toggles between a display that shows a hexadecimal representation of data and a display that shows a character representation of data.

Related Commands

- LISTMAPS
- MAPUTIL

MAPVSE Panel

The MAPVSE panel displays virtual storage regions or areas map information.

Menu Access

On the /STORAGE menu, cursor-select the MAPVSE option.

Command Access

Enter **MAPV** or **MAPVSE** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Panel

```
CA-Explore for CICS 7.0 SP00  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:41:06
==>                                                                   MAPVSE
                          Virtual Storage Region Map               1:11/11-DATA

Region     Bgn Addr End Addr       Size (K)       Size Bytes
SUPERVIS   00000000 0007AFFF           492K          503,808
SDAID      0007B000 00086FFF            48K           49,152
SVA24      00087000 0056FFFF         5,028K        5,148,672
SGETV24    002BB000 00534FFF         2,536K        2,596,864
VPOOL      00550000 0056FFFF           128K          131,072
SHR_PART   00570000 009FFFFF         4,672K        4,784,128
GETVIS     00A00000 029FFFFF        32,768K       33,554,432
GETV24     00DEF000 00FFFFFF         2,116K        2,166,784
GETV31     01000000 011F8FFF         2,020K        2,068,480
SVA31      02A00000 02BFFFFF         2,048K        2,097,152
SGETV31    02A8A000 02BFFFFF         1,496K        1,531,904




F1=Help      F2=System     F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward    F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Region	Name of a VSE region
Bgn Addr	Beginning address of region
End Addr	Ending address of region
Size (K)	Size of region in kilobytes (number of bytes/1024)
Size Bytes	Size of region in bytes

SUBPOOLS Panel

The SUBPools panel displays information about CICS subpools.

Menu Access

On the /STORAGE menu, cursor-select the SUBPOOLS option.

Command Access

Enter **SUBP** or **SUBPOOLS** on the command line of any Unicenter CA-Explore for CICS panel.

Command Syntax and Operands

```
SUBPools [subpool]
```

Field	Description
subpool	String specifying subpools to be displayed. You can include generic characters in the string. See the introductory chapter titled "Using Unicenter CA-Explore Performance Management for CICS" for details. If you do not specify a subpool, information about all subpools is displayed.

Sort Arguments

- GETVIS24
- GETVIS31
- SUBPOOL

Sample Panel

```
CA-Explore for CICS 7.0 SP00  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:41:06
==>                                                                 SUBPOOLS
                          Partition GETVIS Subpools                1:9/9-DATA
                  Region      Size   Alloc    Free     Max
                  GETVIS24   2116K    349K   1767K   1726K
                  GETVIS31   2020K    902K   1118K   1059K
Subpool  Hexadecimal  Num  GETV31  Pct  GETV24  Pct   ...25...50...75..100
(none)   000000000000 0000   628K   31%   240K   11% |**
INLC..   C9D5D3C300B9 0006           0%  28672    1% |
$PCSDS   5BD7C3E2C4E2 0003           0%   8192    0% |
INLG..   C9D5D3C70030 0001           0%           0% |
EXPCDC   C5E7D7C3C4C3 0004   132K    7%           0% |
EXPCSY   C5E7D7C3E2E8 0005   200K   10%           0% |
INLC..   C9D5D3C30030 0002           0%           0% |
EXPCUW   C5E7D7C3E4E6 0007   108K    5%           0% |
INLG..   C9D5D3C700B9 0008           0%           0% |




F1=Help      F2=System     F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward    F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Region	Region of GETVIS storage
Size	Size of the GETVIS storage region
Alloc	Amount of GETVIS storage that has been allocated
Free	Amount of free GETVIS storage
Max	Size of the largest contiguous block of free GETVIS storage
Subpool	Name of the subpool
Hexadecimal	Hexadecimal representation of the subpool name
Num	Subpool number
GETV31	Amount of storage above the 16M line allocated to the subpool
Pct	Percentage of the total partition GETVIS above the 16M line allocated to the subpool
GETV24	Amount of storage below the 16M line allocated to the subpool
Pct	Percentage of the total partition GETVIS below the 16M line allocated to the subpool, shown in both numeric and graph form

Related Commands

- DSA
- GETVIS24
- GETVIS31

TABLES Panel

The TABLES panel displays information about CICS tables, including the following:

- The number of entries in each table
- The amount of storage used for each table, including storage used by inactive table entries

You can use the information on this panel to identify tables with many inactive entries. By removing inactive entries from the system, you can free storage.

Menu Access

On the /STORAGE menu, cursor-select the TABLES option.

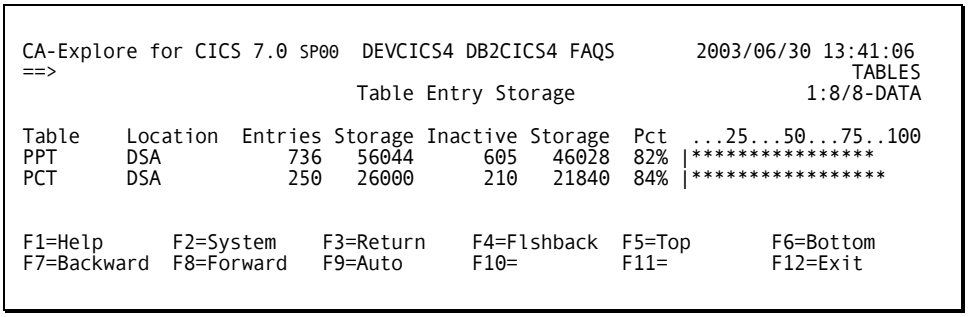
Command Access

Enter **TABLE** or **TABLES** on the command line of any Unicenter CA-Explore for CICS panel.

Sort Arguments

- STORAGE
- ENTRIES
- INACTIVE
- LOCATION
- TABLE

Sample Panel



```
CA-Explore for CICS 7.0 SP00  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:41:06
==>                                                                   TABLES
                              Table Entry Storage                  1:8/8-DATA

Table    Location  Entries Storage Inactive Storage  Pct  ...25...50...75..100
PPT      DSA           736   56044      605   46028  82% |****************
PCT      DSA           250   26000      210   21840  84% |*****************


F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Table	CICS table type
Location	Location of table storage
Entries	Total number of entries in the table
Storage	Total amount of storage allocated for the table
Inactive	Number of table entries that are inactive
Storage	Amount of storage allocated for inactive table entries
Pct	Percentage of the total storage allocated for the table that is used for inactive table entries, shown in both numeric and graph form

TEMPSTOR Panel

The TEMPSTOR panel displays temporary storage statistics.

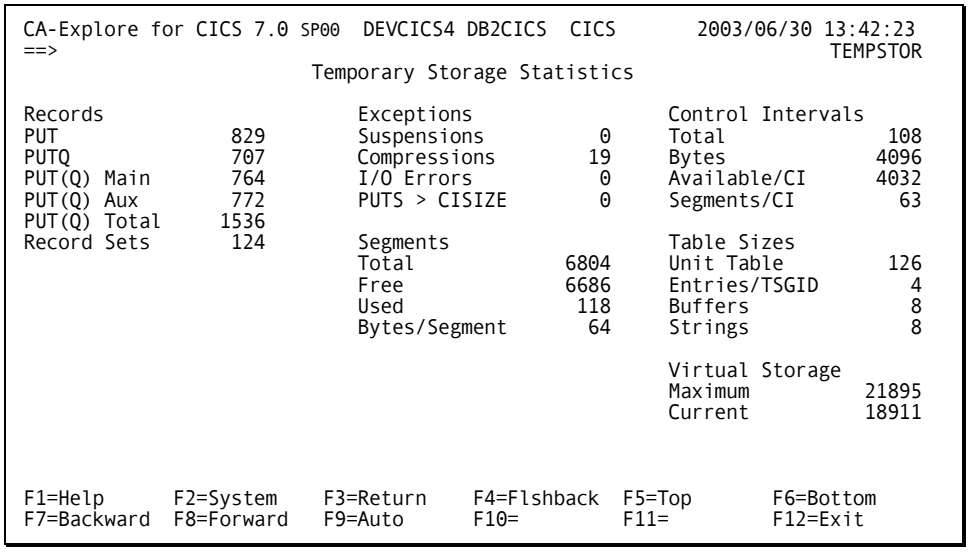
Menu Access

On the /STORAGE menu, cursor-select the TEMPSTOR option.

Command Access

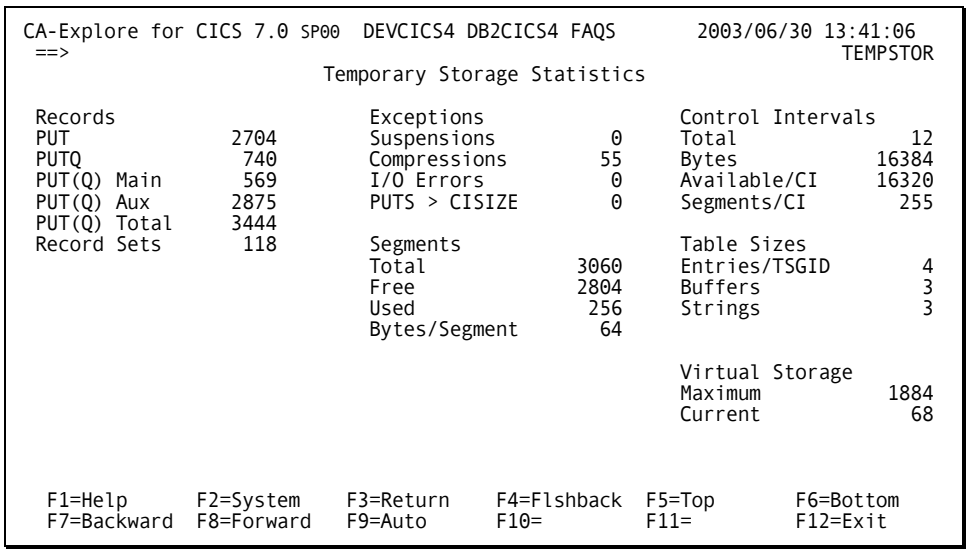
Enter **TEMP** or **TEMPSTOR** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Panel With CICS 2.3



```
CA-Explore for CICS 7.0 SP00  DEVCICS4 DB2CICS  CICS       2003/06/30 13:42:23
==>                                                                  TEMPSTOR
                         Temporary Storage Statistics

Records                      Exceptions                Control Intervals
PUT              829         Suspensions          0    Total              108
PUTQ             707         Compressions        19    Bytes             4096
PUT(Q) Main      764         I/O Errors           0    Available/CI      4032
PUT(Q) Aux       772         PUTS > CISIZE        0    Segments/CI         63
PUT(Q) Total    1536
Record Sets      124         Segments                  Table Sizes
                             Total             6804    Unit Table         126
                             Free              6686    Entries/TSGID        4
                             Used               118    Buffers              8
                             Bytes/Segment       64    Strings              8

                                                       Virtual Storage
                                                       Maximum          21895
                                                       Current          18911



F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Sample Panel With TS 1.1



```
CA-Explore for CICS 7.0 SP00  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:41:06
 ==>                                                                 TEMPSTOR
                         Temporary Storage Statistics

 Records                     Exceptions                Control Intervals
 PUT             2704        Suspensions          0    Total               12
 PUTQ             740        Compressions        55    Bytes            16384
 PUT(Q) Main      569        I/O Errors           0    Available/CI     16320
 PUT(Q) Aux      2875        PUTS > CISIZE        0    Segments/CI        255
 PUT(Q) Total    3444
 Record Sets      118        Segments                  Table Sizes
                             Total             3060    Entries/TSGID        4
                             Free              2804    Buffers              3
                             Used               256    Strings              3
                             Bytes/Segment       64

                                                       Virtual Storage
                                                       Maximum           1884
                                                       Current             68



  F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
  F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

The following tables describe the fields on the TEMPSTOR panel:

Panel Field Descriptions: Records

Field	Description
PUT	Number of PUT records requests
PUTQ	Number of PUTQ records requests
PUT(Q) Main	Number of PUTQ records to main storage requests
PUT(Q) Aux	Number of PUTQ records to auxiliary storage requests
PUT(Q) Total	Number of PUTQ records to main and auxiliary storage requests
Record Sets	Number of record sets

Panel Field Descriptions: Exceptions

Field	Description
Suspensions	Number of times tasks were suspended because of an inability to satisfy a temporary storage request
Compressions	Number of times a control interval in AUX DS (auxiliary storage dataset) had to be compressed
I/O Errors	Number of errors against AUX DS (auxiliary storage dataset)
PUTS > CISIZE	Number of PUTs greater than the control interval size

Panel Field Descriptions: Segments

Field	Description
Total	Total number of segments
Free	Number of free segments
Used	Number of used segments
Bytes/Segment	Number of bytes per segment

Panel Field Descriptions: Control Intervals

Field	Description
Total	Total number of control intervals
Bytes	Number of bytes in a control interval
Available/CI	Number of available bytes in a control interval
Segments/CI	Number of segments in a control interval

Panel Field Descriptions: Table Sizes

Field	Description	For CICS Version
Unit Table	Number of entries in a unit table	CICS 2.3
Entries/TSGID	Number of entries per temporary storage group identification (TSGID)	CICS 2.3 and TS 1.1
Buffers	Number of auxiliary storage buffers	CICS 2.3 and TS 1.1
Strings	Number of auxiliary storage strings	CICS 2.3 and TS 1.1

Panel Field Descriptions: Virtual Storage

Field	Description
Maximum	Maximum amount of virtual storage used
Current	Current amount of virtual storage used

TSQSTATS Panel

The TSQStats panel displays temporary storage queue statistics.

Menu Access

On the /STATUS menu, cursor-select the TSQSTATS option.

Command Access

Enter **TSQS** or **TSQSTATS** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Panel

```
CA-Explore for CICS 7.0 SP00  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:41:06
==>                                                              TSQSTATS
                      Temporary Storage Queue Statistic             1:4/4-DATA

  Queue    Tran Task  Program   Type   Date      Time       Size    Gets  Puts
_ A001EXPC EXPC 00032 ECDIEXPC  Main  1995/01/28 13:32:43   12      216      1
_ IEOPADDQ IESO 00017 IESOPINI  Main  1995/01/28 13:25:52   20               1
_ IES LOGQ IESX 00022 IESLQBP   Aux   1995/01/28 13:25:50   803       3      3
_ IEZATDNM CATD 00024 IESZATDX  Aux   1995/01/28 13:32:31   16               1









Options:  (D)elete
F1=Help      F2=System     F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward    F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Queue	Temporary storage queue ID
Tran	Name of the transaction that created the queue
Task	Number of the task that created the queue
Program	Name of the program that created the queue
Type	Temporary storage type, as follows: Aux Data is stored in a DFHTEMP file Main Data is in main storage
Date	Date that the queue was created
Time	Time that the queue was created
Size	Total amount of storage that the queue has allocated
Gets	Number of times the queue has been read
Puts	Number of times the queue has been written to

Margin Command

Command	Description
D	Deletes the temporary storage queue you select

Related Command

DELETEQ

TSQUEUES Panel

The TSQUEUES panel displays the activity within your temporary storage environment.

Menu Access

On the /STATUS menu, cursor-select the TSQUEUES option.

Command Access

Enter **TSQ** or **TSQUEUES** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Panel

```
CA-Explore for CICS 7.0 SP00  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:41:06
==>                                                              TSQUEUES
                          Temporary Storage Queues                1:1/1-DATA

Queue    Type                  Count Address  Queue (Hex)
EXPCECSA Main Queue                1 001242F0 C5E7D7C3C5C3E2C1




F1=Help      F2=System     F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward    F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description	
Queue	Temporary storage queue ID	
Type	Temporary storage type, represented by two values. The first value will be one of the following:	
	Aux	Data is stored in a DFHTEMP file.
	Main	Data is in main storage.
	The second value will be one of the following:	
	Queue	Data is composed of multiple elements.
	Released	Data has been released.
	Single	Data is composed of a single element.
Count	Number of elements	
Address	Address of temporary storage queue header	
Queue (Hex)	Temporary storage queue ID in hexadecimal format	

Related Command

DELETEQ

Chapter

6

/TABLES Menu Options

This chapter explains the /TABLES menu, which you can use to display information about subjects such as the AID chain, and CICS communication areas.

Note: This chapter discusses the uses of Unicenter CA-Explore for CICS with CICS Version 2.3 (CICS 2.3) and CICS Transaction Server Version 1.1 (TS 1.1). Unless a distinction is noted, the information applies to both versions.

/TABLES Menu

The /TABLES menu lists the commands that you can issue to display information about the following:

- The authorized initiate descriptor (AID) chain
- CICS communication areas
- Exit program blocks
- Interval Control Elements (ICE) chain
- Journal statistics
- Multi-partition operation
- The Program Processing table (PPT)
- Transient dataset activity
- The Terminal Control table
- Table Manager directory entries
- The Program Control table

Menu Access

- On the Unicenter CA-Explore for CICS Main menu, cursor-select the /TABLES option.
- Type any character (except H) in the space provided to the left of the command and press Enter.

Command Access

Enter **/TA** or **/TABLES** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Menu

```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS  CICS       2003/06/30 13:44:22
 ==>                                                                  /TABLES
                   CA-Explore for CICS Menu -  /TABLES             1:11/11-DATA

                       Command     Description
                     _ AID         Authorized Initiate Descriptor Chain
                     _ COMMAREA    CICS Communication Areas
                     _ EPB         Exit Program Blocks
                     _ ICE         Interval Control Elements
                     _ JOURNAL     Journal Statistics
                     _ MRO         Multiregion Operation
                     _ PROGRAMS    Program Processing Table
                     _ TDATA       Transient Data Entries
                     _ TERMS       Terminal Control Table
                     _ TMDIR       Table Manager Directory Entries
                     _ TRANS       Program Control Table




F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Note: The TS 1.1 panel is slightly different. For TRANS, TS 1.1 shows CICS TRANSACTIONS.

Panel Display Options

To display a panel listed on the /TABLES menu, cursor-select the option from the menu or enter the corresponding command as shown in the following table:

This Command	Displays	Default Sort Argument
AID	Authorized initiate descriptor chain	none
COMMAREA	Information about CICS communication areas	TERMINAL
EPB	Information about exit program blocks	PROGRAM
ICE	Information about interval control elements	none
JOURNAL	Journal statistics	none
MRO	Information about TCT remote system entries	NETNAME
PROGrams	Information from the Program Processing Table	PROGRAM
TDATA	Transient dataset activity	DCT
TERMs	Information from the Terminal Control Table	TERMINAL
TMDIR	Information about table manager directory entries	none
TRANs	■ CICS 2.3 - Transaction information from the Program Control Table ■ TS 1.1 - Transaction information from several control blocks.	TRAN

AID Panel

The AID panel displays the Authorized Initiate Descriptor (AID) chain. See the topic, What Are AIDS? following this section.

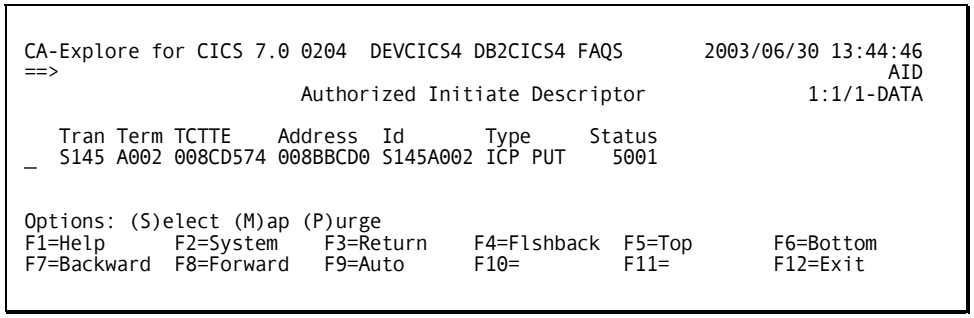
Menu Access

On the /TABLES menu, cursor-select the AID option.

Command Access

Enter **AID** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Panel



What Are AIDs?

The AID command displays the AID chain. An AID exists because a terminal was unavailable to a transaction when a time-dependent event, ICE expired, or when an intra-partition dataset reached the trigger level. This may be due to another transaction actively using the requested terminal, or the terminal may be out of service.

Transactions can be automatically started by one of two methods:

- A time-dependent event causes the transaction to be started.
- An intra-partition transient dataset triggers the transaction.

CICS checks whether a terminal is required by the transaction. If not, the transaction begins to execute. If a terminal is required, CICS checks to see if the terminal is available and in service. If a terminal is available and in service, CICS acquires the terminal and the transaction begins to execute. If the terminal is out of service or in use, CICS creates an AID to keep track of the request for later use.

When a terminal becomes available, CICS starts the transaction and removes the AID from the system. If the requested terminal never becomes available, the AID stays on the chain.

By displaying the AID chain, you can identify potential problems in the CICS partition. For example, if entries continue to stay on the list or if the list continues to grow, you may have several out-of-service terminals. Other typical problems are paper jams, empty forms, power failures, and phone line problems.

Panel Field Descriptions

Field	Description
Tran	Name of the transaction that will be started when its associated terminal becomes available
Term	ID of the terminal on which the transaction will be started
TCTTE Address	Address of the CICS TCTTE control block associated with the AID
Id	Unique ID given to the AID by the application program or CICS
Type	The type of request that created the AID

Field	Description
Status	Status bytes for the AID. This field displays, in hexadecimal, both the AID type and status. The first two digits indicate the AID type, as follows: **Status Byte 1: AID Type** 04 TR/TS remote delete 08 ISC schedule 10 TDP schedule 20 WAIT (ICE only) 30 POST (ICE only) 40 ICP initiate 50 ICP PUT data 80 BMS schedule The second two digits indicate the AID status, as follows: **Status Byte 2: AID Status** 01 ASK initiated (AID only) 02 Waiting for a remote terminal 04 Waiting for a remote transaction 08 Shipped to TOR 10 Waiting for a remote schedule 20 Remote AID is to be canceled 40 Mode name is valid 80 AID is for private allocation

COMMAREA Panel

The COMMAREA panel displays information about communication areas.

Menu Access

On the /TABLES menu, cursor-select the COMMAREA option.

Command Access

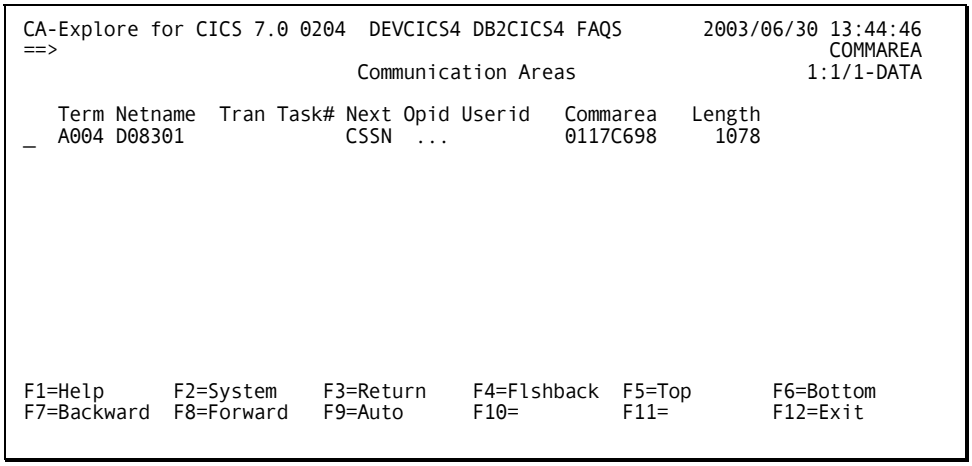
Enter **COMMAREA** on the command line of any Unicenter CA-Explore for CICS panel.

Command Syntax and Operands

```
COMMAREA [terminal]
```

Field	Description
terminal	String specifying terminals to be displayed. You can include generic characters in the string, as described in the chapter titled "Using Unicenter CA-Explore Performance Management for CICS."

Sample Panel



Panel Field Descriptions

Field	Description
Term	CICS terminal name
Netname	VTAM logical unit (LU) name
Tran	Current transaction ID
Task#	Current transaction number
Next	Next transaction ID
Opid	CICS operator ID
Userid	User ID
Commarea	Address of communication area
Length	Length of communication area, in bytes

Margin Commands

Command	Description
S	Displays detailed information for the selected terminal
P	Purges the selected terminal
F	Forces purges the selected terminal
A	Acquires the selected terminal
R	Releases the selected terminal
I	Puts the selected terminal in service
O	Puts the selected terminal out of service

COMMAREA Detail Panel

The COMMAREA Detail panel displays detailed information about the communication areas you select from the COMMAREA panel.

Access

On the COMMAREA panel, cursor-select a terminal.

Sample Panel

```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:44:46
==>                                                                  COMMAREA
                              Communication Areas

   Term Netname  Tran Task# Next Opid Userid   Commarea   Length
   A001 D08001              CSSN  ...          0117C018     1078

Operation Data           Screen Size              Storage In Use
TCA Addr       n/a       Default      24 /   80   Terminal         4
User Area 0117C018       Alternate     0 /    0   Comm Area 8117C000
User Len      1078                                 Comm Len      1102

Terminal Statistics      Definitions
Transactions         2   Cursor   1845
Invalid Trans        0   AID Key    7D
Inputs              82   Alarm     Yes
Outputs             89   ExtDS     Yes
Errors               0   Color      No
                         Hilight    No
                         Uctran    Yes


F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

The fields on the first line of the COMMAREA Detail panel have the same meanings as the fields on the COMMAREA panel. The following tables describe the remaining fields on the COMMAREA Detail panel.

Panel Field Descriptions: Operation Data

Field	Description
TCA Addr	Address of the TCA
User Area	Address of the user area
User Len	Length of the user area, in bytes

Panel Field Descriptions: Screen Size

Field	Description
Default	Default number of rows and columns on the terminal
Alternate	Alternate number of rows and columns on the terminal

Panel Field Descriptions: Storage In Use

Field	Description
Terminal	Amount of storage in use by the terminal
Comm Area	Address of the communication area
Comm Len	Length of the communication area, in bytes

Panel Field Descriptions: Terminal Statistics

Field	Description
Transactions	Number of transactions issued from the terminal since the terminal has been active
Invalid Trans	Number of invalid transactions involving the terminal
Inputs	Number of inputs from the terminal
Outputs	Number of outputs to the terminal
Errors	Number of errors involving the terminal

Panel Field Descriptions: Definitions

Field	Description
Cursor	Address where the cursor was positioned at the last input
AID Key	AID key that was last pressed
Alarm	Whether the terminal supports the alarm function
ExtDS	Whether the terminal supports extended data stream
Color	Whether the terminal supports color
Hilight	Whether the terminal supports highlighting
Uctran	Whether the terminal supports uppercase translation

EPB Panel

The EPB panel displays information about exit program blocks.

Menu Access

On the /TABLES menu, cursor-select the EPB option.

Command Access

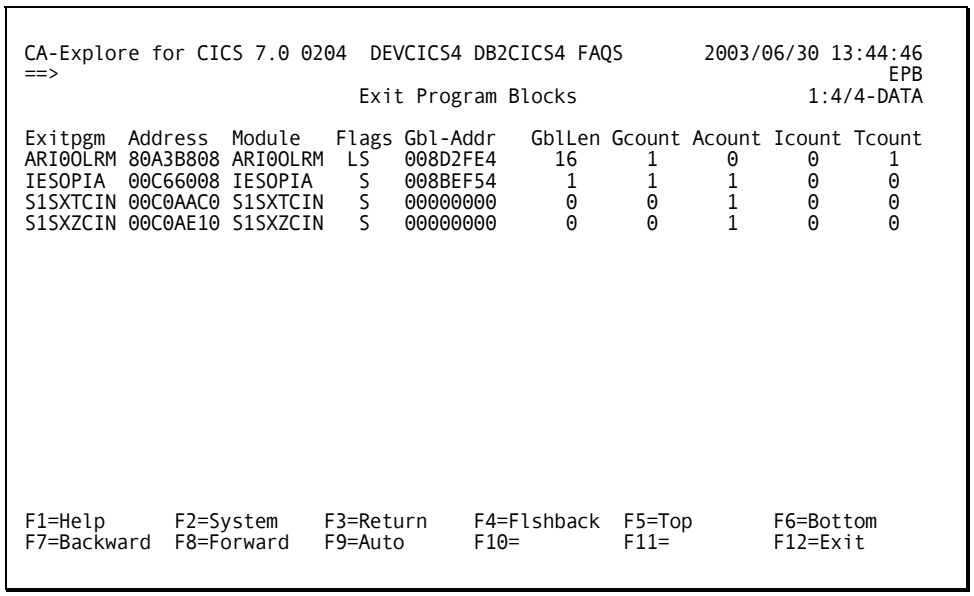
Enter **EPB** on the command line of any Unicenter CA-Explore for CICS panel.

Command Syntax and Operands

```
EPB [exitpgm]
```

Operand	Description
exitpgm	String specifying the exit programs for which you want to display information. You can include generic characters in the string, as explained in the chapter titled "Using Unicenter CA-Explore Performance Management for CICS."

Sample Panel



```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:44:46
==>                                                                    EPB
                              Exit Program Blocks                   1:4/4-DATA

Exitpgm  Address  Module   Flags Gbl-Addr   GblLen Gcount Acount Icount Tcount
ARI0OLRM 80A3B808 ARI0OLRM  LS   008D2FE4     16      1      0      0      1
IESOPIA  00C66008 IESOPIA    S   008BEF54      1      1      1      0      0
S1SXTCIN 00C0AAC0 S1SXTCIN   S   00000000      0      0      1      0      0
S1SXZCIN 00C0AE10 S1SXZCIN   S   00000000      0      0      1      0      0









F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Exitpgm	Exit program name
Address	Exit program address
Module	Load module name
Flags	One or more of the following: L Program loaded by user; do not delete when disabled. S Exit program is started. D Exit program is disabled.
Gbl-Addr	Address of global area
GblLen	Length of global area, in bytes
Gcount	Number of times global area was used
Acount	Number of times EPB was activated
Icount	Number of times EPB was invoked
Tcount	Tie count

ICE Panel

The ICE panel displays the ICE (interval control element) chain, which represents time-dependent events. An event can initiate a new transaction, make a transaction wait for a specified time interval, notify a transaction that a time interval has passed, or pass data to a started transaction. To keep track of the event, CICS creates an ICE and places it on the ICE chain in time-out sequence.

Menu Access

On the /TABLES menu, cursor-select the ICE option.

Command Access

Enter **ICE** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Panel

```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:44:46
==>                                                                      ICE
                          Interval Control Elements                 1:2/2-DATA

   Tran Term   Exp-Time Address  ECB-Addr Id       Type     Status
_  S140        14.25.54 008BBCD0          DF00138E WAIT       2001
_  CSPQ        15.12.38 008BBD20          DF001368 INITIATE   4001



Options: (S)elect (M)ap (P)urge
F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description	
Tran	ID of the original transaction or of the one to be started when the ICE expires	
Term	Terminal ID (shown only for ICEs that require acquisition of a terminal) or address of the TCA if this ICE request is used to delay an executing transaction	
Exp-Time	ICE expiration time	
Address	Storage location of the ICE control block in the CICS partition	
ECB-Addr	Address of ECB to be posted when the ICE expires	
Id	Unique internal identification string assigned to the ICE by either a transaction or CICS	
Type	ICE creation method:	
	WAIT	Delays the transaction
	POST	Posts the transaction when a specified interval has elapsed
	INITIATE	Starts the transaction
	PUT	Starts the transaction and passes data via temporary storage

Field	Description
Status	Status bytes found in the ICE. This field displays, in hexadecimal, both the ICE type and status. The first two digits indicate the ICE type, as follows: **Status Byte 1: ICE Type** 04 TR/TS remote delete 08 ISC schedule 10 TDP schedule 20 WAIT (ICE only) 30 POST (ICE only) 40 ICP initiate 50 ICP PUT data 80 BMS schedule The second two digits indicate the ICE status, as follows: **Status Byte 2: ICE Status** 01 On chain bit (ICE only) 02 A DWE 08 Expiration TIME (ICE only) 10 Canceled by other task 20 Expired on entry 80 Expired normally F0 Expired mask

JOURNAL Panel

The JOURNAL panel displays journal statistics.

Menu Access

On the /TABLES menu, cursor-select the JOURNAL option.

Command Access

Enter **JOURNAL** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Panel

```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:44:46
==>                                                                  JOURNAL
                              JOURNAL STATISTICS
ID        JCTTE    LOG-REC  BLK-CNT BUFULL %-BFULL SHFTUP AVEBLK BLKSIZ SHFSIZ
J01A   00694024         83       21      0     .00      2    381   2040   2040


F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
ID	Journal ID
JCTTE	Address of the JCTTE or journal entry in the JCT
LOG-REC	Number of logical records written to the log dataset
BLK-CNT	Number of blocks written to the log dataset
BUFULL	Number of times the buffer was full when a journal request was issued
%-BFULL	Percentage of times the buffer was full when written
SHFTUP	(CICS 2.3 only) Number of times the buffer was written before it was full due to the SHFSIZ value.
AVEBLK	Average buffer size written to the dataset
BLKSIZ	Size of journal buffer
SHFSIZ	Value, in decimal, that specifies how full a journal buffer is allowed to be before the buffer can be written

MRO Panel

The MRO panel provides information about TCT remote system entries.

Menu Access

On the /TABLES menu, cursor-select the MRO option.

Command Access

Enter **MRO** on the command line of any Unicenter CA-Explore for CICS panel.

Command Syntax and Operands

```
MRO [netname]
```

Operand	Description
netname	String specifying the VTAM application IDs of the CICS partitions for which you want to display information. You can include generic characters in the string, as explained in the chapter titled "Using Unicenter CA-Explore Performance Management for CICS."

Sample Panel

```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:44:46
==>                                                                      MRO
                          TCT Remote System Entries                 1:2/2-DATA

   Netname  SysID Sys-Type LUtype  Aid's NS-Aid   Bids 2ndUse
_  CICS23A  CICS  Local               0      0      0      0
_  CICS41A  C41A  Full-Sys MRO         1      1      0      0

Options: (S)elect
F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Netname	VTAM application ID of the CICS partition
SysID	Internal CICS ID for routing purposes. This is the SYSIDNT parameter coded on the TCT TYPE=SYSTEM macro.
Sys-Type	Type of system entry being defined. The type is used to establish connections between partitions and control routing. The description is derived by checking these settings found in the TCSETYPE field: Full-Sys — Full system entries Local — Local only; no links Indirect — Indirect system entries
LUtype	Method of communications defined for the connection between the CICS partitions, as follows: blank — Local-only partitions MRO — Inter-partition communication (IRC) LU6 — Intersystem communication (ISC) using the 6.1 protocol LUC — ISC using the 6.2 protocol
Aid's	Number of AIDs in the chain
NS-Aid	Number of nonspecific AIDs
Bids	Number of current requests for session connections
2ndUse	Number of secondary sessions currently being used

MRO Detail Panel

The MRO Detail panel displays detailed TCT remote system entry information for a selected CICS partition on the MRO panel.

Access

On the MRO panel, cursor-select a CICS partition.

Sample Panel: Local System

```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:44:46
==>                                                                        MRO
                          TCT Remote System Entries

   Netname  SysID Sys-Type LUtype  Aid's NS-Aid   Bids 2ndUse
   DBDCCICS CICS  Local               0      0      0      0

High Water Marks           Accumulators              ISC Link Statistics
Max Alloc Queued        1  ATI by Primary       181  Alloc for Link         0
Secondaries Used        0  ATI by Seconds         0  Alloc Queued           0
Maximum Bids            0  Bids Sent              0  Failing Link           0
                                                     Failing Other          0
                           Autoinstall Statistics    FC  Requests           0
                           Rejects                0  IC  Requests           0
                           Deletes                3  TD  Requests           0
                           Attempts               6  TS  Requests           0
                           Peak Requests          1  DLI Requests           0
                           Peak Incidence         6  Term Shr Reqs          0



F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Sample Panel: Remote System

```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:44:46
 ==>                                                                       MRO
                          TCT Remote System Entries

   Netname  SysID Sys-Type LUtype  Aid's NS-Aid   Bids 2ndUse
   CICS23A  C23A  Full-Sys MRO         0      0      0      0

 High Water Marks           Accumulators              ISC Link Statistics
 Max Alloc Queued        0  ATI by Primary         0  Alloc for Link        10
 Secondaries Used        0  ATI by Seconds         0  Alloc Queued           0
 Maximum Bids            0  Bids Sent              0  Failing Link           0
                                                      Failing Other          0
 IRC Statistics                                       FC  Requests           0
 Primary Session      10                              IC  Requests           0
 Seconds Session      10                              TD  Requests           0
 Max   Threads          0                             TS  Requests           0
 Total Threads          0                             DLI Requests           0
 Curr  Threads          0                             Term Shr Reqs          0



  F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
  F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

The fields on the first line of the MRO Detail panel have the same meanings as the fields on the MRO panel. The following tables describe the remaining fields on the MRO Detail panel.

Note: Not all fields will appear, depending on the partition you select from the MRO panel.

Panel Field Descriptions: High Water Marks

Field	Description
Max Alloc Queued	High water mark of outstanding requests to allocate a pair of sessions
Secondaries Used	High-water mark of secondary sessions used
Maximum Bids	High-water mark of session bid requests

Panel Field Descriptions: Accumulators

Field	Description
ATI by Primary	Number of ATIs satisfied by primary sessions
ATI by Seconds	Number of ATIs satisfied by secondary sessions
Bids Sent	Total number of bids sent

Panel Field Descriptions: Auto-Install Statistics

Field	Description
Rejects	Number of requests rejected due to user or error condition
Deletes	Number of terminal deletes issued
Attempts	Number of terminal defines issued
Peak Requests	High-water mark of concurrent requests
Peak Incidence	Number of times the maximum number of concurrent requests was reached

Panel Field Descriptions: ISC Link Statistics

Field	Description
Alloc for Link	Number of allocates issued for a link connection
Alloc Queued	Number of allocation requests that had to be queued
Failing Link	Number of allocates that failed due to a link being active
Failing Other	Number of allocates that failed due to other network or protocol errors
FC Requests	Total number of file control requests shipped
IC Requests	Total number of interval control requests shipped
TD Requests	Total number of transient data requests shipped
TS Requests	Total number of temporary storage requests shipped
DLI Requests	Total number of DL/I requests shipped
Term Shr Reqs	Total number of requests exchanged for terminal sharing between multiple partitions

Panel Field Descriptions: IRC Statistics

Note: IRC statistics are not provided for local entries.

Field	Description
Primary Sessions	Number of primary half-sessions specified
Seconds Sessions	Number of secondary half-sessions specified
Max Threads	High-water mark of concurrent IRC threads in use at one time
Total Threads	Total number of IRC threads used
Curr Threads	Number of IRC threads currently in use

PROGRAMS Panel

The Programs panel displays information from the Program Processing table (PPT) for CICS 2.3, or data from several control blocks for TS 1.1.

Menu Access

On the /TABLES menu, cursor-select the PROGRAMS option.

Command Access

Enter **PROG** or **PROGRAMS** on the command line of any Unicenter CA-Explore for CICS panel.

Command Syntax and Operands

```
PROGrams [ACTIVE|ALL] [INCORE|RESident] [program]
```

Operand	Description
ACTIVE	Display programs used at least once. ACTIVE is the default operand.
ALL	Display all programs defined in the PPT.
INCORE	Display programs currently in memory but not resident.
RESident	Display resident programs.
program	String specifying the programs to be displayed. You can include generic characters in the string, as explained in the chapter titled "Using Unicenter CA-Explore Performance Management for CICS."

Sort Arguments

- FETCH
- RESIDENT
- LENGTH
- PROGRAM
- ADDRESS
- USE

Related Configuration Options

- PROG-FETCH-PCT (CICS 2.3)
- PROG-WASTE-PCT

Sample Panel With CICS 2.3

```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS  CICS       2003/06/30 13:46:42
==>                                                                 PROGRAMS
                           Processing Program Table              1:16/125-DATA

   Program  Lng  Rcnt  Fetch  Use-Cnt  Pgm-Size  Pgs Waste  %   Address
_  ADABAS   ASM     1      1        1     19240   10           00978808 RES
_  AXP10000 ASM     0      1       20      6318    4  1874 91  00971008
_  AXP10001 ASM     0      1        1       186    1  1862 90  0095C008
_  AXP192   ASM     0      1        5     13282    7  1054 51  00960808
_  AXP780   ASM     0      1        5     26416   13   208 10  0096A008
Options: ACTIVE, ALL, INCORE, RESident, GENERIC, (E)nable, (D)isable, (N)ew
F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Sample Panel With TS 1.1 (Page 1)

```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:47:10
 ==>                                                                PROGRAMS
                           Processing Program Table               1:16/50-DATA

    Program  Rcnt  Usage  Fetch Pgm-Size     NewC  Comps LFetch FTCHTIME
_   DFHACP      1      3      1  2451968                     1    0.006
_   DFHAKP             1      1  1360896                     1    0.004
_   DFHAMP             2      2  1219712                     2    0.085
_   DFHAPATT    7     18      1   184832                     1    0.002
_   DFHCRNP            1      1  2679296                     1    0.007
_   DFHCRQ             1      1   221440                     1    0.002
_   DFHCRR      1     31      1   548352                     1    0.003
_   DFHCRS             1      1  1489920                     1    0.004
_   DFHCRSP            1      1   776192                     1    0.013
_   DFHDBP1$    1      3      1  1287168                     1    0.005
_   DFHDLRP            1      1   274432                     1    0.027
_   DFHDMP           508      2   651648                     2    0.046
_   DFHEITSP           1      1                              1    0.052
_   DFHFCU             1      1   149504                     1    0.090
_   DFHGMM             2      1   432640                     1    0.003
_   DFHJCBSP    1      1      1                              1    0.003
 Options: ACTIVE, ALL, INCORE, RESident, GENERIC, (E)nable, (D)isable, (N)ew
  F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
  F7=Backward  F8=Forward   F9=Auto      F10=Toggle   F11=         F12=Exit
```

Sample Panel With TS 1.1 (Page 2)

```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:47:10
 ==>                                                                PROGRAMS
                           Processing Program Table               1:16/50-DATA

    Program  Rcnt  Usage  Fetch Pgm-Size Load     Entry    DSA
_   DFHACP      1      3      1  2451968 02E7A000 82E7A020 UDSA
_   DFHAKP             1      1  1360896 007BC000 807BC020 CDSA
_   DFHAMP             2      2  1219712 030B1D10 830CEED0 EUDSA
_   DFHAPATT    7     18      1   184832 02DF0890 82DF08B0 EUDSA
_   DFHCRNP            1      1  2679296 03000000 83000020 EUDSA
_   DFHCRQ             1      1   221440 02C4DA60 82C4DA80 EUDSA
_   DFHCRR      1     31      1   548352 02DF7000 82DF7020 EUDSA
_   DFHCRS             1      1  1489920 03048E60 83048E80 EUDSA
_   DFHCRSP            1      1   776192 02DF42C0 82DF42E0 EUDSA
_   DFHDBP1$    1      3      1  1287168 02DF5000 82DF5020 EUDSA
_   DFHDLRP            1      1   274432 007C1720 807C1740 ECDSA
_   DFHDMP           508      2   651648 0306B960 8306B980 EUDSA
_   DFHEITSP           1      1
_   DFHFCU             1      1   149504 007C1B50 807C1B70 ECDSA
_   DFHGMM             2      1   432640 02DF7860 82DF7880 EUDSA
_   DFHJCBSP    1      1      1          02D44840 82D44860 EUDSA
 Options: ACTIVE, ALL, INCORE, RESident, GENERIC, (E)nable, (D)isable, (N)ew
  F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
  F7=Backward  F8=Forward   F9=Auto      F10=Toggle   F11=         F12=Exit
```

Sample Panel With TS 1.1 (Page 3)

```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:47:10
 ==>                                                                PROGRAMS
                          Processing Program Table                1:16/50-DATA

    Program  Rcnt  Usage  Fetch Pgm-Size Lng CEDF ExecKey  DataLoc
_   DFHACP      1      3      1  2451968 ASM      CICS     Any
_   DFHAKP             1      1  1360896 ASM      CICS     Below
_   DFHAMP             2      2  1219712 ASM      CICS     Any
_   DFHAPATT    7     18      1   184832 ASM      CICS     Any
_   DFHCRNP            1      1  2679296 ASM      CICS     Any
_   DFHCRQ             1      1   221440 ASM      CICS     Any
_   DFHCRR      1     31      1   548352 ASM      CICS     Any
_   DFHCRS             1      1  1489920 ASM      CICS     Any
_   DFHCRSP            1      1   776192 ASM      CICS     Any
_   DFHDBP1$    1      3      1  1287168 ASM      CICS     Any
_   DFHDLRP            1      1   274432 ASM      CICS     Below
_   DFHDMP           508      2   651648 ASM      CICS     Any
_   DFHEITSP           1      1          ???      CICS     Any
_   DFHFCU             1      1   149504 ASM      CICS     Below
_   DFHGMM             2      1   432640 ASM      CICS     Any
_   DFHJCBSP    1      1      1          ???      CICS     Any
Options: ACTIVE, ALL, INCORE, RESident, GENERIC, (E)nable, (D)isable, (N)ew
 F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
 F7=Backward  F8=Forward   F9=Auto      F10=Toggle   F11=         F12=Exit
```

Panel Field Descriptions

Field	Description	For CICS Version
Program	Program name	CICS 2.3 and TS 1.1
Lng	Program language	CICS 2.3 and TS 1.1
Rcnt	Number of transactions currently using the program	CICS 2.3 and TS 1.1
Fetch	Number of times the program has been fetched	CICS 2.3 and TS 1.1
Use-Cnt	Number of times the program has been used	CICS 2.3
Usage	Number of times the program has been used	TS 1.1
Pgm-Size	Program size in bytes	CICS 2.3 and TS 1.1
NewC	Number of new copies	TS 1.1
Comps	Number of compressions	TS 1.1
Lfetch	Number of times fetched.	TS 1.1

Field	Description	For CICS Version
FTCHTIME	Fetch time	TS 1.1
Pgs	Number of pages allocated to hold the program	CICS 2.3
Waste %	Number and percentage of bytes wasted in the last page	CICS 2.3
Address	CICS storage address of entry. If *RES* appears beside the address, the program is permanently resident. If the word Disabled appears instead of an address, the program is disabled.	CICS 2.3
Load	Indicates the address of the program in memory	TS 1.1
Entry	Indicates the entry point for the program.	TS 1.1
DSA	The name of the DSA where the program resides	TS 1.1
CEDF	Indicates whether the program can be tested with CEDF	TS 1.1
ExecKey	Indicates either the CICS key or the USER key, which is the execution mode	TS 1.1
DataLoc	Indicates where data is located, either below or above the 16Mb line, or anywhere	TS 1.1

Margin Commands

Command	Description
N	Refreshes the program address in the PPT and marks it as nonresident.
E	Enables the program.
D	Disables the program so that it is not available for use. Programs beginning with DFH cannot be disabled.

TDATA Panel

The TDATA panel displays information about transient dataset activity.

Menu Access

On the /TABLES menu, cursor-select the TDATA option.

Command Access

Enter **TDATA** on the command line of any Unicenter CA-Explore for CICS panel.

Command Syntax and Operands

```
TDATA [ACTIVE|ALL] [dct]
```

Operand	Description
ACTIVE	Displays information about active DCT entries.
ALL	Displays information about all DCT entries.
dct	String specifying the DCT entries about which information is to be displayed. You can include generic characters in the string, as explained in the chapter titled "Using Unicenter CA-Explore Performance Management for CICS."

Sample Panel

```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:47:10
==>                                                                    TDATA
                          Destination Control Table                  1:8/8-DATA

DCT   Type INDR    Count   Qcount  Trig TrigLv  SYSID  Address
CADL  INDR IESL       23                                0086CB1C
CSCS  INDR IESL        4                                0086CB6C

F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
DCT	Destination identification as defined in the DCT
Type	Destination type, as follows: REMT Remote destination EXTR Extrapartition destination INTR Intrapartition destination INDR Indirect destination
INDR	Destination ID for entries with a destination type of INDR
Count	Number of requests made to entry
Qcount	Number of entries in the destination queue
Trig	ID of the transaction to be started when the trigger level is reached
TrigLv	Trigger level value
SYSID	System ID for entries with a destination type of REMT
Address	CICS storage address of entry

TERMS Panel

The TERMS panel displays information from the Terminal Control table.

Menu Access

On the /TABLES menu, cursor-select the TERMS option.

Command Access

Enter **TERM** or **TERMS** on the command line of any Unicenter CA-Explore for CICS panel.

Command Syntax and Operands

```
TERMs [ACTIVE|ALL] [terminal]
```

Operand	Description
ACTIVE	Displays information about active terminals in the TCT.
ALL	Displays information about all terminals in the TCT.
terminal	String specifying the names of the terminals about which information is to be displayed. You can include generic characters in the string, as explained in the chapter titled "Using Unicenter CA-Explore Performance Management for CICS."

Sample Panel

```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:47:10
==>                                                                   TERMS
                          Terminal Control Table                   1:3/3-DATA

   Term Netname  Tran Task# Next Opid Userid    Count Pri Type Status
_  A001 D08101              ALXP  SYA PHIL        258   0 VTAM Term Attended
_  A002 D08001              EXPC  SYA EDP         308   0 VTAM

Options: (S)elect, (P)urge, (F)orce, (A)cq, (R)el, (I)ns, (O)ut
F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Term	CICS terminal name
Netname	VTAM LU logical unit name
Tran	Current transaction ID
Task#	Current transaction number
Next	Next transaction ID
Opid	CICS operator ID
Userid	User ID
Count	Number of transactions used by terminal
Pri	Terminal priority
Type	Terminal access method
Status	Description of terminal status, as follows: Dummy TCTTE Read Only Permanent Out Term Quiescing Receive Only Auto Tran Init Term Attended Out of Service Console If the status is displayed in high intensity or in reverse video enclosed in a red box, an error has been recorded against that terminal. See the TERMS Detail panel for an error count.

Margin Commands

Command	Description
S	Displays detailed information about the selected terminal.
P	Purges the selected terminal.
F	Force purges the selected terminal.
A	Acquires the selected terminal.
R	Releases the selected terminal.
I	Puts the selected terminal in service.
O	Puts the selected terminal out of service.

TERMS Detail Panel

The TERMS Detail panel displays detailed information about a selected entry from the Terminal Control table.

Access

On the TERMS panel, cursor-select an entry.

Sample Panel

```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:47:10
==>                                                                      TERMS
                          Terminal Control Table

   Term Netname  Tran Task# Next Opid Userid    Count Pri Type Status
   A001 D08101              ALXP  SYA PHIL        258   0 VTAM Term Attended

Operation Data           Screen Size              Storage In Use
TCA Addr       n/a       Default      24 /   80   Terminal         6
User Area      n/a       Alternate     0 /    0   Comm Area      n/a
User Len                                          Comm Len

Terminal Statistics      Definitions
Transactions       258   Cursor      4
Invalid Trans        0   AID Key    7D
Inputs             463   Alarm     Yes
Outputs            473   ExtDS     Yes
Errors               0   Color      No
                         Hilight    No
                         Uctran     No


F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

The fields on the first line of the TERMS Detail panel have the same meanings as the fields on the TERMS panel. The remaining fields on the TERMS Detail panel have the following meanings:

Panel Field Descriptions: Operation Data

Field	Description
TCA Addr	Address of the TCA
User Area	Address of the user area
User Len	Length of the user area

Panel Field Descriptions: Screen Size

Field	Description
Default	Default number of rows and columns on this terminal
Alternate	Alternate number of rows and columns on this terminal

Panel Field Descriptions: Storage In Use

Field	Description
Terminal	Amount of storage in use by the terminal
Comm Area	Address of the communication area
Comm Len	Length of the communication area

Panel Field Descriptions: Terminal Statistics

Field	Description
Transactions	Number of transactions involving this terminal
Invalid Trans	Number of invalid transactions involving this terminal
Inputs	Number of inputs from this terminal
Outputs	Number of outputs to this terminal
Errors	Number of errors involving this terminal

Panel Field Descriptions: Definitions

Field	Description
Cursor	Address of last input
AID Key	Hexadecimal value of the AID key that was pressed
Alarm	Whether the terminal supports the alarm function
ExtDS	Whether the terminal supports extended data stream
Color	Whether the terminal supports color
Hilight	Whether the terminal supports highlighting
Uctran	Whether the terminal supports uppercase translation

TMDIR Panel

The TMDIR panel displays Table Manager directory entry information.

Menu Access

On the /TABLES menu, cursor-select the TMDIR option.

Command Access

Enter **TMDIR** on the command line of any Unicenter CA-Explore for CICS panel.

Command Syntax and Operands

```
TMDIR [ALL] [type] [key]
```

Operand	Description		For CICS Version
ALL	Displays information about all Table Manager entry types.		CICS 2.3 and TS 1.1
type	Identifies one or more of the following Table Manager entry types whose information you want to display:		
	PCTS	Program Control Table entries	CICS 2.3
	PPTS	Program Processing Table entries	CICS 2.3
	PFTS	Profile Table entries	CICS 2.3
	FCTS	File Control Table entries	CICS 2.3 and TS 1.1
	DCTS	Destination Control Table entries	CICS 2.3 and TS 1.1
	TCTE	Terminal Control Table entries	CICS 2.3 and TS 1.1
	TCTN	Terminal Control Table network entries	CICS 2.3 and TS 1.1
	TCTS	Terminal Control Table system entries	CICS 2.3 and TS 1.1
key	String specifying the directory element keys about which information is to be displayed. You can include generic characters in the string, as explained in the chapter titled "Using Unicenter CA-Explore Performance Management for CICS."		CICS 2.3 and TS 1.1

Sample Panel With CICS 2.3

```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS  CICS       2003/06/30 13:48:25
==>                                                                   TMDIR
                        Table Manager Directory Entries         1:16/1055-DATA

   Type  Key             Directory    Entry  Info
_  PCT   alrt             011C48C0 009009E4
_  PCT   alxp             011C48DC 00900A54
_  PCT   axpt             011C48F8 00900AC4
_  PCT   cssf             011C4914 00900B34
_

Options: PCTS,PPTS,PFTS,FCTS,DCTS,TCTE,TCTN,TCTS,(D)ir,(E)ntry

F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Sample Panel With TS 1.1

```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:47:10
==>                                                                   TMDIR
                        Table Manager Directory Entries         1:16/1055-DATA

   Type  Key             Directory    Entry  Info
_  PCT   alrt             011C48C0 009009E4
_  PCT   alxp             011C48DC 00900A54
_  PCT   axpt             011C48F8 00900AC4
_  PCT   cssf             011C4914 00900B34
_

Options: PPTS,PFTS,FCTS,DCTS,TCTE,TCTN,TCTS,(D)ir,(E)ntry

F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description		For CICS Version
Type	Table entry type:		
	PCTS	Program Control Table entries	CICS 2.3
	PPTS	Program Processing Table entries	CICS 2.3
	PFTS	Profile Table entries	CICS 2.3 and TS 1.1
	FCTS	File Control Table entries	CICS 2.3 and TS 1.1
	DCTS	Destination Control Table entries	CICS 2.3 and TS 1.1
	TCTE	Terminal Control Table entries	CICS 2.3 and TS 1.1
	TCTN	Terminal Control Table network entries	CICS 2.3 and TS 1.1
	TCTS	Terminal Control Table system entries	CICS 2.3 and TS 1.1
Key	Directory element key		CICS 2.3 and TS 1.1
Directory	Directory element address		CICS 2.3 and TS 1.1
Entry	Table element address		CICS 2.3 and TS 1.1
Info	Directory element status, as follows:		CICS 2.3 and TS 1.1
	Free	Element is free	
	Quiesced	Element is quiesced	
	Fix	Table element storage is fixed	
	Prot	Table element is protected	
	Add	Uncommitted add	
	Del	Delete requested	

Margin Commands

Command	Description
D	Displays the contents of storage at the address of the directory entry you select
E	Displays the contents of storage at the address of the table element entry you select

TRANS Panel

The TRANS panel displays information from the Program Control table (PPT) for CICS 2.3, or data from several control blocks for TS 1.1.

Menu Access

On the /TABLES menu, cursor-select the TRANS option.

Command Access

Enter **TRAN** or **TRANS** on the command line of any Unicenter CA-Explore for CICS panel.

Command Syntax and Operands

```
TRANs [ACTIVE|ALL] [tran]
```

Operand	Description
ACTIVE	Displays information about active transactions defined in the PCT
ALL	Displays information about all transactions defined in the PCT
tran	String specifying the transactions about which information is to be displayed. You can include generic characters in the string, as explained in the chapter titled “Using Unicenter CA-Explore Performance Management for CICS.”

Sort Arguments

Argument	For CICS Version
PRIority	CICS 2.3 and TS 1.1
PROGram	CICS 2.3 and TS 1.1
SPURGE	CICS 2.3
TRAN	CICS 2.3 and TS 1.1
TWAsize	CICS 2.3 and TS 1.1
USE	CICS 2.3
VIOL	CICS 2.3

Sample Panel With CICS 2.3

```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS  CICS       2003/06/30 13:48:51
==>                                                                    TRANS
                          Program Control Table                     1:16/41-DATA

   Tran Program  Pri   Used   TWA PUR Viol EIP STP    RTV  DLTV Remote   SYSID
_  alxp AXP10000   1      1  3300   0                  0     0
_  ALXP AXP10000   1     15  3300   0      YES         0     0
_  CATD DFHZATD  255      8     0   0      YES         0     0
_  CEDA DFHEDAP    1     10     0   0      YES YES     0     0
_  CRSQ DFHCRQ     1      3     0   0          YES     0     0
_  CSAC DFHACP   255      1    40   0                  0     0

OPTIONS: ACTIVE, ALL, GENERIC, (E)nable, (D)isable

F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Sample Panel With TS 1.1

```
CA-Explore For CICS 7.0 SP00  DEVCICS4 DB2CICS4 FAQS       2003/08/20 10:51:29
==>                                                                   TRANS
                          CICS Transactions                         1:8/8-DATA

   Tran Program  Pri    Used   TWA Viol   DLTV TRC Remote   SYSID Stat AICA
_  CATA DFHZATA  255       1     0          60 STD                 ENAB ON
_  CRMF DFHZATMF 255       1     0           0 STD                 ENAB ON
_  CRSQ DFHCRQ     1       2     0          10 STD                 ENAB ON
_  CSGM DFHGMM     1       1     0          10 SPR                 ENAB ON
_  CWBG DFHWBGB  255      11     0           0 STD                 ENAB ON
_  EXPC ECTIEXPC   1       4     0        4080 STD                 ENAB OFF
_       ECTIEXPC   1       4     0        4080 STD                 ENAB OFF
_  TDLI DLZHLA60   1       1  2048           0 STD                 ENAB ON









OPTIONS: ACTIVE, ALL, GENERIC, (E)nable, (D)isable
 F1=Help      F2=System    F3=Return     F4=Flshback  F5=Top       F6=Bottom
 F7=Backward  F8=Forward   F9=Auto       F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description	For CICS Version
Tran	CICS transaction code	CICS 2.3 and TS 1.1
Program	Program associated with the transaction code	CICS 2.3 and TS 1.1
Pri	Priority assigned to transaction. Overtype this value to change it.	CICS 2.3 and TS 1.1
Used	Number of times the transaction was used.	CICS 2.3 and TS 1.1
TWA	Transaction work area size.	CICS 2.3 and TS 1.1
PUR	Number of times the task was stall purged.	CICS 2.3
Viol	Number of storage violations.	CICS 2.3 and TS 1.1
EIP	**YES** indicates that a command level interface is being used. Otherwise, this field is blank.	CICS 2.3

Field	Description	For CICS Version
STP	**YES** indicates that the transaction can be purged. If the transaction cannot be purged, this field is blank.	CICS 2.3
TRACE	**STD** Standard tracing **SPC** Special **SPR** Superceded	TS 1.1
RTV	Timeout value for terminal reads for conversational transactions.	CICS 2.3
DLTV	Deadlock timeout value for deadly embrace of updates.	CICS 2.3 and TS 1.1
Remote	CICS transaction code from the remote CICS partition.	CICS 2.3 and TS 1.1
SYSID	Remote CICS system ID where the transaction is to be routed.	CICS 2.3 and TS 1.1
Status	Shows Enabled or Disabled.	CICS 2.3
Stat	Show Enab or Disa.	TS 1.1
AICA	Show ON or OFF. ON indicates that the transaction is using the system runaway time for AICA control. OFF indicates that the transaction is not using the system runaway time for AICA control.	TS 1.1

Margin Commands

Command	Description
E	Enables the transaction so that it is available for use.
D	Disables the transaction so that it is not available for use.
Y	(TS 1.1 only) Tells CICS TS 1.1 to use the system runaway time for AICA control. If AICA control is OFF and you turn it on, CICS TS will use the system runaway value for AICA control, rather than the value defined in the transaction RUNAWAY value.
N	(TS 1.1 only) Turns off AICA control for this transaction. This overrides the RUNAWAY value in the transaction definition.

Chapter 7

/FILES Menu Options

This chapter explains the /FILES menu, which lists commands you can use to display information about subjects such as File Control Table entries, LSR buffer, pool, and string performance, and VSAM performance.

Note: This chapter discusses the uses of Unicenter CA-Explore for CICS with CICS Version 2.3 (CICS 2.3) and CICS Transaction Server Version 1.1 (TS 1.1). Unless a distinction is noted, the information applies to both versions.

/FILES Menu

The /FILES menu lists commands you can use to display information about File Control Table entries, LSR buffer, pool, and string performance, and VSAM performance.

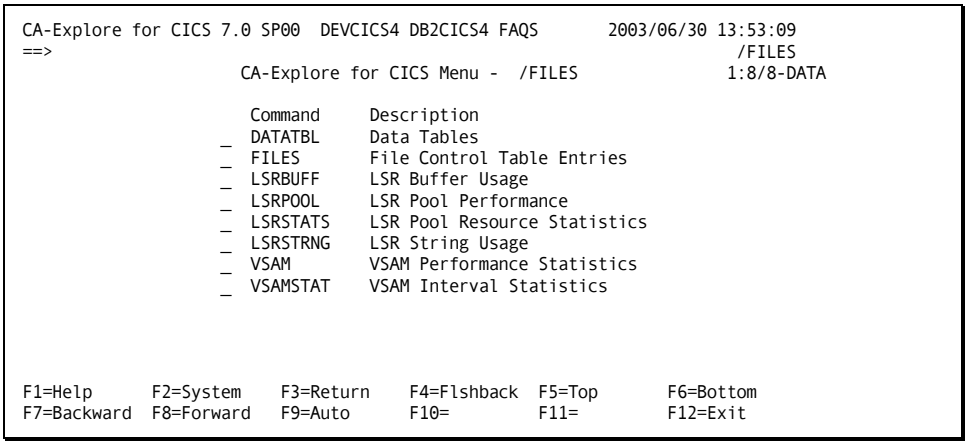
Menu Access

- On the Unicenter CA-Explore for CICS Main menu, cursor-select the /FILES option.
- Type any character (except H) in the space provided to the left of the command and press Enter.

Command Access

Enter **/FI** or **/FILES** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Menu



Panel Display Options

To display a panel listed on the /FILES menu, cursor-select the option from the menu or enter the corresponding command as listed in the following table:

This Command	Displays	Default Sort Argument
DATATbl	File information from data tables	FILENAME
FILES	File control entries	REQUESTS
LSRBuff	Information about LSR buffer usage	POOL
LSRPool	LSRPOOL buffer performance ratings	DREQS
LSRSTAts	LSR pool resource statistics	POOL
LSRSTRng	Information about LSR string performance	POOL
VSAM	VSAM performance statistics	REQS
VSAMSTAT	VSAM interval statistics	REQS

DATATBL Panel

The DATATBL panel displays data table entries.

Menu Access

On the /FILES menu, cursor-select the DATATBL option.

Command Access

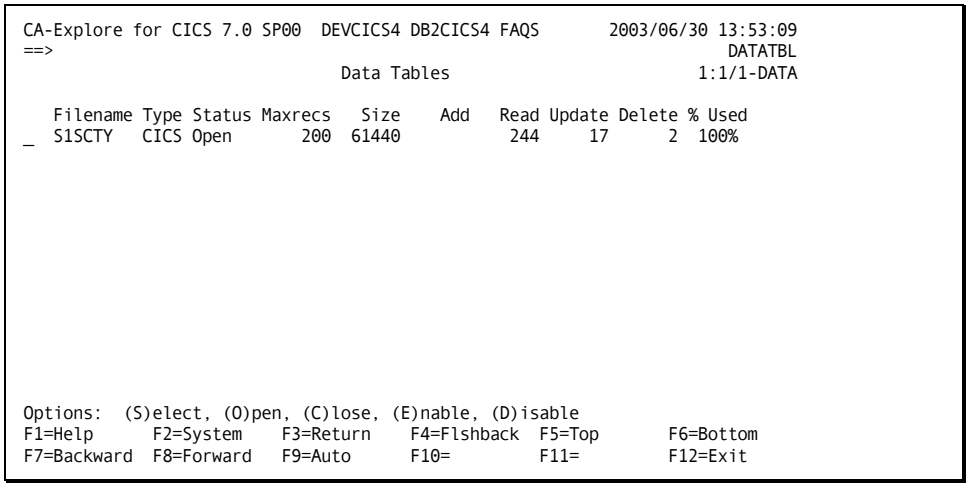
Enter **DATAT** or **DATATBL** on the command line of any Unicenter CA-Explore for CICS panel.

Command Syntax and Operands

```
DATATbl [filename]
```

Operand	Description
filename	String specifying the filename for which you want to display data table information

Sample Panel



Panel Field Descriptions

Field	Description
Filename	Filename as assigned
Type	File type
Status	Status of file: Open or Closed
Maxrecs	Maximum records specified in the FCT
Size	Amount of GETVIS allocated as defined in the FCT
Add	Number of records added
Read	Number of records read
Update	Number of records updated
Delete	Number of records deleted
% Used	Percentage of the data table that the file used

Margin Commands

Command	Description
C	Closes the selected file
O	Opens the selected file
E	Enables the selected file
D	Disables the selected file
S	Displays the detailed information for the selected filename

DATATBL Detail Panel

The DATATBL Detail panel displays detailed information about the data table you select from the DATATBL panel.

Access

On the DATATBL panel, cursor-select a file.

Sample Panel

```
CA-Explore for CICS 7.0 SP00  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:53:09
==>   DATATBL
                                Data Tables

   Filename Type Status Maxrecs   Size
   S1SCTY   CICS Open       200  61440

Data Table Information
                     Count  PCT   ...25...50...75..100
Peak Records           200  100% |********************
Initial Records        200  100% |********************
Added Via API                0% |
Read Requests          244
Reads Not Found         23
Rejected - Full          4
Rejected - Exit          0
Updates Processed       17
Deletes Processed        2



F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

The fields on the first line of the DATATBL Detail panel have the same meanings those on the DATATBL panel. The following table describes the remaining fields on the DATATBL Detail panel:

Field	Description
Peak Records	The most records ever contained in the data table. This number is displayed as a count, as a percentage, and graphically. If this number approaches MAX or is much smaller than MAX, consider changing your data table options in the FCT.
Initial Records	The first records contained in the data table. This number is displayed as a count, as a percentage, and graphically.
Added Via API	Number of records added since the data table loaded.
Read Requests	Successful read attempts to read data from the data table.
Reads Not Found	Number of reads in which data was not found in the data table.
Rejected - Full	Number of adds attempted that failed because the data table was full.
Rejected - Exit	Number of adds suppressed by the XDTA user exit.
Updates Processed	Successful updates of records contained in the data table.
Deletes Processed	Successful deletes of records contained in the data table.

Note: If you compare the FCT detail display for a data table to the data table detail display for the same data table, you will notice that reads and browses in the FCT detail screen will not match the same fields in the data table detail screen. According to IBM, any action that causes an update to a CICS-controlled data table causes both the data table fields and the corresponding FCT entry fields to be updated. However, reads and browses do not update the data table, so read and browse fields in the FCT are not changed.

Because of differences in processing between CICS 2.3 and CICS TS, there will be differences in reads on data table displays. Under CICS TS, browse requests are added to the read request count.

FILES Panel

The FILES panel displays File Control Table entries.

Menu Access

On the /FILES menu, cursor-select the FILES option.

Command Access

Enter **FILES** on the command line of any Unicenter CA-Explore for CICS panel.

Command Syntax and Operands

```
FILES [filename]
```

Operand	Description
filename	String specifying the filenames about which information is to be displayed. You can include generic characters in the string, as explained in the introductory chapter titled "Using Unicenter CA-Explore Performance Management for CICS." If you do not specify a filename, all filenames will be displayed.

Sample Panel

```
CA-Explore for CICS 7.0 SP00  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:53:09
==>                                                                   FILES
                              File Control Table                   1:16/17-DATA

   Filename Type Status LSR Requests  Disp Capabilities     Remote  SYS  Waits
_  DFHCSD   VSAM Closed   1     1735       AD BR DE RD UP   n/a
_  AXPLOG1  VSAM Closed n/a      602          BR    RD      n/a
_  IESCNTL  KSDS Open   n/a      595       AD BR DE RD UP   n/a
_  S1SCTY   KSDS Open     1      262       AD BR DE RD UP   n/a
_  IESPRB   KSDS Open   n/a      208       AD       RD UP   n/a
_  S1SMS##  KSDS Open     1       97          BR    RD UP   n/a
_  ALERTXP  KSDS Open   n/a       85       AD BR DE RD UP   n/a
_  IESTRFL  KSDS Open     1       57       AD    DE RD UP   n/a
_  S1SECLG  KSDS Open     1       20       AD BR    RD UP   n/a
_  XCOMDFT  KSDS Open   n/a        4       AD BR DE RD UP   n/a
_  DWMRRDS  VSAM Closed   1                AD BR DE RD UP   n/a
_  IESROUT  KSDS Open     1                AD BR DE RD UP   n/a
_  DWMESDS  VSAM Closed   1                AD BR    RD UP   n/a
_  DWMKSDS  VSAM Closed   1                AD BR DE RD UP   n/a
_  AXPCTL   VSAM Closed n/a                   BR    RD      n/a
_  DWMVRDS  VSAM Closed   1                AD BR DE RD UP   n/a
Options: (S)elect, (O)pen, (C)lose, (E)nable, (D)isable
F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Filename	Filename assigned in the FCT
Type	File type (not available for remote files)
Status	File status: Open or Closed
LSR	LSR pool number
Requests	Number of file requests
Disp	Disposition of the file, SHR or OLD
Capabilities	File capabilities, as follows: ADD BRO DEL READ UPD
Remote	Remote filename
SYS	Remote system
Waits	Total current string or buffer waits

Margin Commands

Command	Description
S	Displays detailed information for the filename you select
O	Opens the selected file
C	Closes the selected file
E	Enables the selected file
D	Disables the selected file

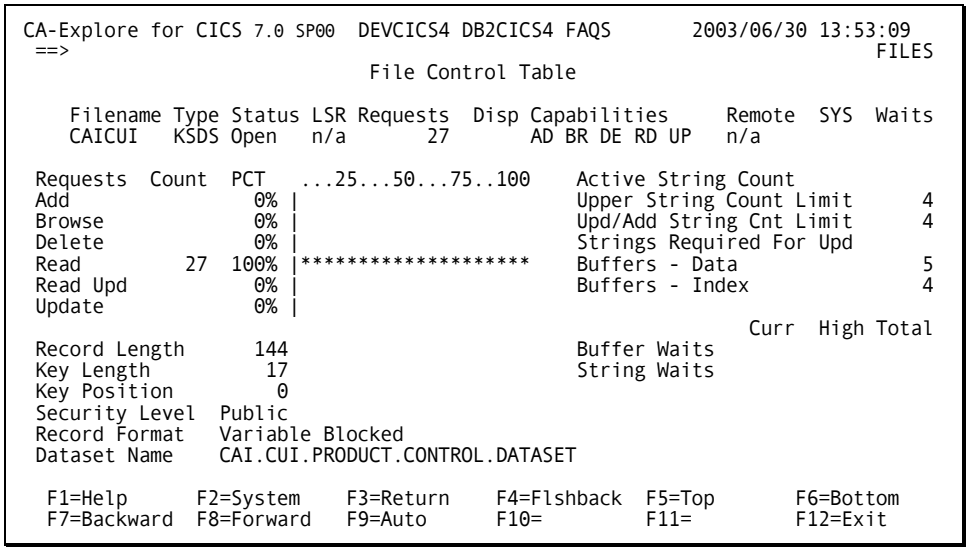
FILES Detail Panel

The FILES Detail panel displays detailed information about the file you select from the FILES panel.

Access

On the FILES panel, cursor-select a file.

Sample Panel



```
CA-Explore for CICS 7.0 SP00  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:53:09
 ==>                                                                   FILES
                              File Control Table

    Filename Type Status LSR Requests  Disp Capabilities     Remote  SYS  Waits
    CAICUI   KSDS Open   n/a       27       AD BR DE RD UP   n/a

 Requests  Count  PCT   ...25...50...75..100    Active String Count
 Add                0% |                        Upper String Count Limit      4
 Browse             0% |                        Upd/Add String Cnt Limit      4
 Delete             0% |                        Strings Required For Upd
 Read          27  100% |********************  Buffers - Data                 5
 Read Upd           0% |                        Buffers - Index                4
 Update             0% |
                                                                Curr  High Total
 Record Length      144                         Buffer Waits
 Key Length          17                         String Waits
 Key Position         0
 Security Level  Public
 Record Format   Variable Blocked
 Dataset Name    CAI.CUI.PRODUCT.CONTROL.DATASET

  F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
  F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

The first line of fields on this panel is the same as those on the FILES panel. The additional fields on the FILES Detail panel have the following meanings:

Field	Description
Requests	Types of requests: Add — Add request Browse — Browse request Delete — Delete request Read — Read request Read Upd — Read for update request Update — Update request
Count	Number of requests of each type
PCT	Percentage of the total number of requests that each type accounted for, presented in both numeric and graph form
Active String Count	Types of active string counts: **Upper String Count Limit—**Maximum number of strings allowed. This value is defined by STRNO. **Upd/Add String Cnt Limit—**The maximum number of strings allowed for update and add functions. This value will be 80 percent of the STRNO value for non-VSAM files; otherwise, the value will equal STRNO value. **Strings Required For Upd—**Number of strings required to perform one update. **Buffers - Data—**Number of buffers for the data portion of the file, defined by the BUFND parameter in the FCT (file control table). If the value is for an LSR, it is the number for the entire LSR. **Buffers - Index—**Number of buffers for the index portion of the file, defined by the BUFNI parameter in the FCT. If the file is an LSR, the value is always 1, and this field will be blank.
Record Length	Maximum length of the record
Key Length	Length of the key
Key Position	Position of the key

Field	Description
Security Level	Level of security
Record Format	Format of the record
Dataset Name	Dataset name of the file. Remote files will not show any information in this field.
Buffer Waits	Current, high, and total number of buffer waits for the file
String Waits	Current, high, and total number of string waits for the file
Data Table Max Records	Maximum number of records allowed in the data table, as defined in the FCT. These fields are for data tables only.
Data Table Initial Size	Initial amount of GETVIS storage allocated for the data table, as defined in the FCT. These fields are for data tables only.

Note: If you compare the FCT detail display for a data table to the data table detail display for the same data table, you will notice that reads and browses in the FCT detail screen will not match the same fields in the data table detail screen. According to IBM, any action that causes an update to a CICS-controlled data table causes both the data table fields and the corresponding FCT entry fields to be updated. However, reads and browses do not update the data table, so read and browse fields in the FCT are not changed.

Because of differences in processing between CICS 2.3 and CICS TS, there will be differences in reads on data table displays. Under CICS TS, browse requests are added to the read request count.

LSRBUFF Panel

The LSRBUFF panel displays information about LSR buffer performance.

Menu Access

On the /FILES menu, cursor-select the LSRBUFF option.

Command Access

Enter **LSRB** or **LSRBUFF** on the command line of any Unicenter CA-Explore for CICS panel.

Sort Arguments

- FILENAME
- POOL
- 1K, 2K, 4K, 8K, 12K, 16K, 20K, 24K, 28K, 32K

Sample Panel

```
CA-Explore for CICS 7.0 SP00  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:53:09
==>                                                                  LSRBUFF
                        Local Shared Resource Buffers             1:12/12-DATA

Filename Pool     512   1K   2K   4K   8K  12K  16K  20K  24K  28K  32K
*Buffers    1       4    4    4    4
*Notused    1       4
DFHCSD      1            4    2
S1SAUDT     1                 1    1
S1SCTY      1                 1    1
S1SMS##     1                      2
*Buffers    2       4    4    4    4
*Notused    2            4    4
IESTRFL     2       4              4
*Buffers   10       3    3    3    3
*Notused   10            3    3
IESCNTL    10       3              3


F1=Help      F2=System     F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward    F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Filename	Name of the file defined to the LSR pool. *Buffers indicates the total number of buffers. *Notused indicates that the buffer is not currently in use.
Pool	LSR pool number.
512	Number of 512-byte buffers in use by the file.
1K through 32K	Number of buffers of the specified size in use by the file. If, for example, the value 3 appears in the 12K field, three 12K buffers are in use by the file.

Related Commands

- FILES
- LSRPool
- LSRSTAts
- LSRSTRng
- VSAM

LSRPOOL Panel

The LSRPOOL panel displays the LSR buffer performance ratings.

Menu Access

On the /FILES menu, cursor-select the LSRPOOL option.

Command Access

Enter **LSRP** or **LSRPOOL** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Panel

```
CA-Explore for CICS 7.0 SP00  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:53:09
==>                                                                  LSRPOOL
                        LSR Buffer Performance Ratings

  Pool      Files   Reqs   DExcp   DBPR  .........D   IExcp   IBPR  ....I.....
_    1          3    190     140  1.357 |******          13  14.61 |**********
_    2          1     38      17  2.235 |**********       7  5.429 |****
_    3                                  |                          |
_    4                                  |                          |
_    5                                  |                          |
_    6                                  |                          |
_    7                                  |                          |
_    8                                  |                          |
_    9                                  |                          |
_   10          1     36      50  0.720 |***              50  0.720 |*
_   11                                  |                          |
_   12                                  |                          |
_   13                                  |                          |
_   14                                  |                          |
_   15                                  |                          |


F1=Help      F2=System     F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward    F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Pool	LSR pool ID.
Files	Number of files in the LSR pool.
Reqs	Number of I/O requests.
DExcp	The total number of EXCPs against the data portion of the pool.
DBPR	Buffer performance rating for the data portion of the pool, shown in both numeric and graph form. The rating equals the number of requests divided by the number of EXCPs against the data portion of the pool. The lines on the bar graph to the right of the DBPR field are sized relative to the highest DBPR. For further information about BPR and how to interpret the ratings, see the description of IBPR.
IExcp	The total number of EXCPs against the index portion of the pool.
IBPR	Buffer performance rating for the index portion of the pool, shown in both numeric and graph form. The rating equals the number of requests divided by the number of EXCPs against the index portion of the pool. The lines on the bar graph to the right of the IBPR field are sized relative to the highest IBPR. **Reading BPR Statistics**—The following table provides guidelines for reading DBPR and IBPR statistics: **If the BPR is...** — **This indicates a performance rating of...** Less than one — Poor Between 1 and 10 — Average Greater than 10 — Exceptional The BPR has no meaning if either of the following occurs: ■ Number of requests = 0 ■ EXCPs=0

Margin Command

Command	Description
S	Displays detailed information about the files using the pool you select

LSRPOOL Filename Panel

The LSRPOOL Filename panel compares the files within the selected LSR pool, showing which files using the pool had the best performance.

Access

On the LSRPOOL panel, cursor-select a pool.

Sample Panel

```
CA-Explore for CICS 7.0 SP00  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:53:09
==>                                                              LSRPOOL
                      LSR Buffer Performance Ratings                1:2/2-DATA
  Filename Type     Reqs   DExcp   DBPR  ..........   IExcp   IBPR  ..........
_ IESTRFL  KSDS        9       7  1.286 ¦**********       3  3.000 ¦**********

F1=Help      F2=System     F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward    F9=Auto      F10=         F11=PRINT    F12=Exit
```

Panel Field Descriptions

Field	Description
Filename	Name of the file.
Type	Type of dataset organization: KSDS, RRDS, or ESDS.
Reqs	Number of I/O requests.
DExcp	The total number of EXCPs against the data portion of the dataset.
DBPR	Buffer performance rating for the data portion of the dataset, shown in both numeric and graph form. The rating equals the number of requests divided by the number of EXCPs against the data portion of the dataset. The lines on the bar graph to the right of the DBPR field are sized relative to the highest DBPR.
IExcp	The total number of EXCPs against the index portion of the dataset.
IBPR	Buffer performance rating for the index portion of the dataset, shown in both numeric and graph form. The rating equals the number of requests divided by the number of EXCPs against the index portion of the dataset. The lines on the bar graph to the right of the IBPR field are sized relative to the highest IBPR.

Margin Command

Command	Description
S	Displays detailed information for the file you select, including VSAM statistics, LSRPOOL buffer statistics, and CICS LSRPOOL information

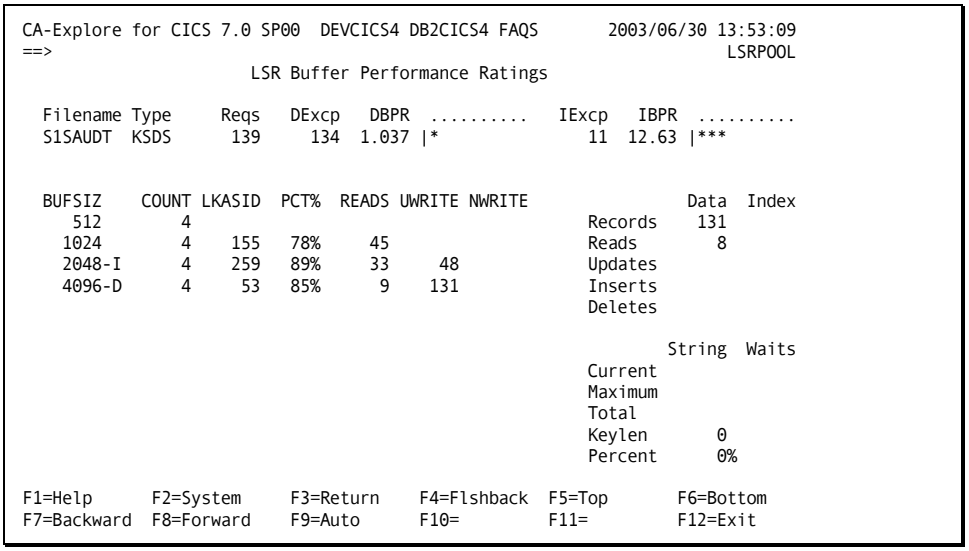
LSRPOOL Filename Detail Panel

The LSRPOOL Filename Detail panel displays LSR buffer performance ratings based on the entry you select from the LSRPOOL Filename panel.

Access

On the LSRPOOL Filename panel, cursor-select a file.

Sample Panel



```
CA-Explore for CICS 7.0 SP00  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:53:09
==>                                                                   LSRPOOL
                      LSR Buffer Performance Ratings

  Filename Type     Reqs   DExcp   DBPR  ..........   IExcp   IBPR  ..........
  S1SAUDT  KSDS      139     134  1.037 |*              11  12.63 |***


  BUFSIZ    COUNT LKASID  PCT%  READS UWRITE NWRITE               Data  Index
     512        4                                    Records    131
    1024        4    155   78%     45                Reads        8
    2048-I      4    259   89%     33     48         Updates
    4096-D      4     53   85%      9    131         Inserts
                                                     Deletes

                                                            String  Waits
                                                     Current
                                                     Maximum
                                                     Total
                                                     Keylen       0
                                                     Percent      0%

F1=Help      F2=System     F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward    F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

The fields on the first line on the LSRPOOL Filename Detail panel are the same as those on the LSRPOOL Filename panel. The additional fields on the LSRPOOL Filename Detail panel have the following meanings:

Field	Description
BUFSIZ	Size of the buffer for the LSR pool. If -I follows the entry, the buffer size is for index records. If -D follows the entry, the buffer size is for data records. If -* follows the entry, the buffer size is for index and data records.
COUNT	Number of buffers for the LSR pool.
LKASID	Number of look aside reads.
PCT%	Percentage of all reads that are look aside reads.
READS	Number of read requests.
UWRITE	Number of user writes.
NWRITE	Number of non-user writes.
Records	Number of records in the data and index portions of the file.
Reads	Number of read requests in the data and index portions of the file.
Updates	Number of update requests in the data and index portions of the file.
Inserts	Number of insert requests in the data and index portions of the file.
Deletes	Number of delete requests in the data and index portions of the file.
Current	Current number of strings and waits in the LSR pool.
Maximum	Maximum number of strings and waits in use at once.
Total	Total number of strings and waits.
Keylen	Maximum key length of any file in the pool.
Percent	Maximum percentage of resources required by the VSAM files that are to be shared. This percentage is defined in the DFHFCT TYPE=SHRCTL RSCLMT parameter. If BUFND= and BUFNI= are defined and the file is an LSR, this number is not used.

LSRSTATS Panel

The LSRSTATS panel displays LSR pool resource statistics.

Menu Access

On the /FILES menu, cursor-select the LSRSTATS option.

Command Access

Enter **LSRSTA** or **LSRSTATS** on the command line of any Unicenter CA-Explore for CICS panel.

Sort Arguments

- COUNT
- LKASID
- NWRITE
- PCT%
- POOL
- READS
- SIZE
- UWRITE

Sample Panel

```
CA-Explore for CICS 7.0 SP00  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:53:09
==>                                                                  LSRSTATS
                      Local Shared Resource Statistics            1:12/12-DATA

POOL   Size  Count  Reads UWrite NWrite Lkasid  PCT%  ...25...50...75..100
 01     512      4                             0% |
 01    1024      4     45                    155   78% |***************
 01    2048      4     33     48             259   89% |*****************
 01    4096      4      9    131              53   85% |*****************
 02     512      4      7                     69   91% |******************
 02    1024      4                             0% |
 02    2048      4                             0% |
 02    4096      4     17                     21   55% |***********
 10     512      3     50                           0% |
 10    1024      3                                  0% |
 10    2048      3                                  0% |
 10    4096      3     50                           0% |


F1=Help      F2=System     F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward    F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
POOL	LSR pool number
Size	Size of the buffer for the pool, in bytes
Count	Number of buffers for the pool
Reads	Number of read requests for the pool
UWrite	Number of user writes for the pool
NWrite	Number of nonuser writes for the pool
Lkasid	Number of look aside reads for the pool
PCT%	Percentage of reads that were look aside reads (Lkasid divided by the sum of Reads and Lkasid)

Related Commands

- FILES
- LSRBuff
- LSRPool
- LSRSTRng
- VSAM

LSRSTRNG Panel

The LSRSTRNG panel displays information about LSR string performance.

Menu Access

On the /FILES menu, cursor-select the LSRSTRNG option.

Command Access

Enter **LSRSTR** or **LSRSTRNG** on the command line of any Unicenter CA-Explore for CICS panel.

Sort Arguments

- FILENAME
- POOL
- 1K, 2K, 4K, 8K, 12K, 16K, 20K, 24K, 28K, 32K

Sample Panel

```
CA-Explore for CICS 7.0 SP00  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:53:09
==>                                                              LSRSTRNG
                         Local Shared Resource Strings               1:3/3-DATA

Filename Pool  Strings  512   1K   2K   4K   8K  12K  16K  20K  24K  28K  32K
*Notused    1        5
DFHCSD      1        1         1    1
*Notused    2        2
DFHCDO      2        2    4
*Notused    3        2
DFHCMP      3        5    5         5

F1=Help      F2=System     F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward    F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Filename	Name of the file defined to the LSR pool. *Notused indicates strings currently not in use.
Pool	LSR pool number.
Strings	Number of strings in use by the file.
512	Number of 512-byte buffers in use by strings for the file.
1K through 32K	Number of buffers of the specified size in use by strings for the file. For example, if the value 3 appears in the 12K field, three 12K buffers are in use by strings for the file.

Related Commands

- FILES
- LSRBuff
- LSRPool
- LSRSTAts
- VSAM

VSAM Panel

The VSAM panel displays current VSAM performance statistics. The data displayed is extracted from VSAM control blocks.

Menu Access

On the /FILES menu, cursor-select the VSAM option.

Command Access

Enter **VSAM** on the command line of any Unicenter CA-Explore for CICS panel.

Command Syntax and Operands

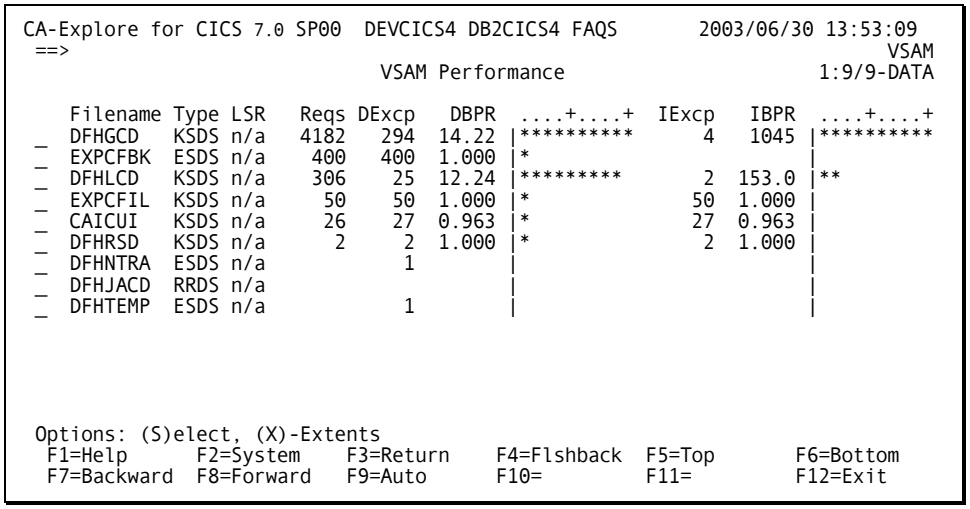
```
VSAM [filename]
```

Operand	Description
filename	String specifying the filenames of datasets to be displayed. You can include generic characters in the string, as explained in the introductory chapter titled "Using Unicenter CA-Explore Performance Management for CICS."

Sort Arguments

- DBPR
- IEXCP
- DEXCP
- LSR
- FILENAME
- REQS
- IBPR

Sample Panel



Panel Field Descriptions

Field	Description
Filename	The filename of the dataset.
Type	Type of dataset organization: KSDS, RRDS, or ESDS.
LSR	The LSR pool number.
Reqs	The total number of requests against the dataset.
DExcp	The total number of EXCPs against the data portion of the dataset.
DBPR	Buffer performance rating for the data portion of the dataset, shown in both numeric and graph form. The rating equals the number of requests divided by the number of EXCPs against the data portion of the dataset. The lines on the bar graph to the right of the DBPR field are sized relative to the highest DBPR.
IExcp	The total number of EXCPs against the index portion of the dataset.
IBPR	Buffer performance rating for the index portion of the dataset, shown in both numeric and graph form. The rating equals the number of requests divided by the number of EXCPs against the index portion of the dataset. The lines on the bar graph to the right of the IBPR field are sized relative to the highest IBPR.

Margin Commands

Command	Description
S	Displays detailed information about the file you select
X	Displays detailed information about data extents for the file you select

VSAM Detail Panel

The VSAM Detail panel displays VSAM performance statistics for the file you select on the VSAM panel.

Access

On the VSAM panel, cursor-select an entry.

Sample Panel

```
CA-Explore for CICS 7.0 SP00  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:53:09
 ==>                                                                      VSAM
                              VSAM Performance

    Filename Type LSR   Reqs DExcp   DBPR  ....+....+  IExcp   IBPR  ....+....+
    DFHGCD   KSDS n/a   4182   294  14.22 |**********      4   1045 |**********


                Data  Index                                          Data  Index
 Retrieves      1416                              CI size            8192   1024
 Updates          16                              Free Bytes/CI       819
 Inserts        1376                              Free Bytes/CI%      10%
 Deletes        1374                              CIs/CA               45
                                                  Free CIs/CA           5
                                                  Free CIs/CA%        10%
                         Data  Index              CI Splits
 Records                 2286      1              CA Splits
 Key Length                28     28              Strings              32     32
 Relative Key Position      0                     Buffers              33     33
 Max Record Length       8185   1017              Extents               1
 Free Bytes In Dataset         30719              Index Levels                 1

  F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
  F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

The top line of fields on the VSAM detail panel is the same as that on the VSAM panel. In addition, this panel has the following fields:

Field	Description
Retrieves	Total number of retrieves for the data and index portions of the file
Updates	Total number of updates for the data and index portions of the file
Inserts	Total number of inserts for the data and index portions of the file
Deletes	Total number of deletes for the data and index portions of the file
Records	Total number of records in the data and index portions of the file
Key Length	Key length of the records in the data and index portions of the file
Relative Key Position	Relative key position within the record for the data and index portions of the file
Max Record Length	Maximum record length allowed for the data and index portions of the file
Free Bytes In Dataset	Amount of free space, in bytes, in the data and index portions of the file
CI Size	Size of the control interval for the data and index portions of the file
Free Bytes/CI	Number of free bytes per control interval for the data and index portions of the file
Free Bytes/CI%	Percentage of free bytes per control interval for the data and index portions of the file
CIs/CA	Number of control intervals within a control area (defined at file allocation)
Free CIs/CA	Number of free control intervals within a control area

Field	Description
Free CIs/CA%	Percentage of free control intervals within a control area
CI Splits	Number of control interval splits
CA Splits	Number of control area splits
Strings	Number of strings
Buffers	Number of buffers
Extents	Number of extents
Index Levels	Number of index levels

VSAM Data Extents Panel

The VSAM Data Extents panel displays data extent and index extent information.

Access

On the VSAM panel, enter an **X** in the input field next to a filename.

Sample Panel

```
CA-Explore for CICS 7.0 SP00  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:53:09
==>                                                                      VSAM
                              VSAM Performance
Data Extents - S1SECLG                 Index Extents
Volume LEXT HEXT Low-RBA  High-RBA     Volume LEXT HEXT Low-RBA  High-RBA
VOLCIC 1248 1265 00000000 00077FFF     VOLCIC 1266 1266 00000000 00003FFF
VOLCIC 40B0 40CD 00078000 000EFFFF
VOLCIC 40EC 4109 000F0000 00167FFF
VOLCIC 4056 4073 00168000 001DFFFF



F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

The information fields on the VSAM Data Extents panel have the following meanings. These fields appear twice on the panel, once for data extents and once for index extents.

Field	Description
Volume	Volume name where extent is allocated
LEXT	Cylinder (or block for FBA devices) that represents the low end (starting point) of the file extent
HEXT	Cylinder (or block for FBA devices) that represents the high end (ending point) of the file extent
Low-RBA	Low RBA (relative block address)
High-RBA	High RBA

VSAMSTAT Panel

The VSAMSTAT panel displays VSAM statistics for the current system interval, as defined by the SYSTEM-INTERVAL configuration option. The data displayed is extracted from VSAM control blocks.

Menu Access

On the /FILES menu, cursor-select the VSAMSTAT option.

Command Access

Enter **VSAMSTAT** on the command line of any Unicenter CA-Explore for CICS panel.

Command Syntax and Operands

```
VSAMSTAT [ACTIVE] [filename]
         [ ALL  ]
```

Operand	Description
ACTIVE	Displays all VSAM files that had activity within the last system interval.
ALL	Displays all VSAM files.
filename	String specifying the names of the files to be displayed. You can include generic characters in the string, as explained in the introductory chapter titled "Using Unicenter CA-Explore Performance Management for CICS."

Sort Arguments

- DEXCP
- FILENAME
- IEXCP
- LSR
- REQS

Sample Panel

```
CA-Explore for CICS 7.0 SP00  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:53:09
==>                                                              VSAMSTAT
                          VSAM Interval Statistics                1:1/1-DATA

   Filename LSR   Reqs DExcp   DBPR  ....+....+  IExcp   IBPR  ....+....+
_  EXPCFIL  n/a      2     2  1.000 |**********      2  1.000 |**********









F1=Help      F2=System     F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward    F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Filename	The filename of the dataset. The upper line for each dataset applies to the data portion of the file. The lower line for each dataset applies to the index portion of the file.
LSR	LSR pool number.
Reqs	Total number of requests against the dataset.
DExcp	The total number of EXCPs against the data portion of the dataset.
DBPR	Buffer performance rating for the data portion of the dataset, shown in both numeric and graph form. The rating equals the number of requests divided by the number of EXCPs against the data portion of the dataset. The lines on the bar graph to the right of the DBPR field are sized relative to the highest DBPR.
IExcp	The total number of EXCPs against the index portion of the dataset.
IBPR	Buffer performance rating for the index portion of the dataset, shown in both numeric and graph form. The rating equals the number of requests divided by the number of EXCPs against the index portion of the dataset. The lines on the bar graph to the right of the IBPR field are sized relative to the highest IBPR.

Margin Command

Command	Description
S	Displays detailed information about the file you select

VSAMSTAT Detail Panel

The VSAMSTAT Detail panel displays VSAMSTAT statistics for the current system interval about the file you select on the VSAMSTAT panel.

Access

On the VSAMSTAT panel, cursor-select a file.

Sample Panel

```
CA-Explore for CICS 7.0 SP00  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:53:09
==>                                                                  VSAMSTAT
                          VSAM Interval Statistics

   Filename LSR   Reqs DExcp   DBPR  ....+....+  IExcp   IBPR  ....+....+
   EXPCFIL  n/a      2     2  1.000 |**********      2  1.000 |**********

                          Interval
                       Current    Total
Requests                     2        4
Retrieves                    2        4
Updates
Inserts
Deletes
Extends
Data EXCPs                   2        4
Index EXCPs                  2        4

F1=Help      F2=System     F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward    F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

The fields at the top of this panel are the same as fields on the VSAMSTAT panel. The remaining information fields have the following meanings. Current statistics are for the previous system interval. Totals are for the period since Unicenter CA-Explore for CICS was last initialized.

Field	Description
Requests	Current and total number of requests to the dataset
Retrieves	Current and total number of retrieves from the dataset
Updates	Current and total number of updates to the dataset
Inserts	Current and total number of inserts to the dataset
Deletes	Current and total number of deletes to the dataset
Extends	Current and total number of times the dataset was extended
Data EXCPs	Current and total number of data EXCPs to the dataset
Index EXCPs	Current and total number of index EXCPs to the dataset

Chapter 8

/DBASE Menu Options

This chapter explains the /DBASE menu, which lists the commands you can issue to display DL/I database information.

Note: This chapter discusses the uses of Unicenter CA-Explore for CICS with CICS Version 2.3 (CICS 2.3) and CICS Transaction Server Version 1.1 (TS 1.1). Unless a distinction is noted, the information applies to both versions.

/DBASE Menu

The /DBASE menu lists the commands you can issue to display DL/I database information.

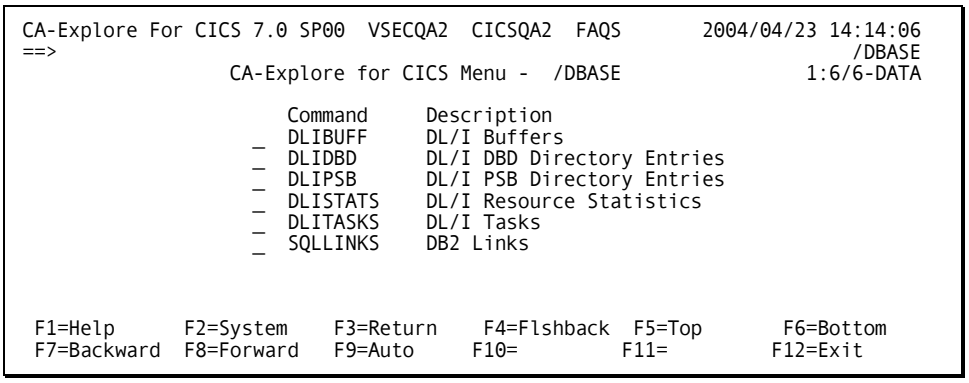
Menu Access

- On the Unicenter CA-Explore for CICS Main menu, cursor-select the /DBASE option.
- Type any character (except H) in the space provided to the left of the command and press Enter.

Command Access

Enter **/DB** or **/DBASE** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Menu



Panel Display Options

To display a panel listed on the /DBASE menu, cursor-select the option from the menu or enter the corresponding command as listed in the following table. If the word None is listed in the Default Sort Argument column, the panel displayed by the command is not sorted according to any default criteria.

This Command	Displays	Default Sort Argument
DLIBuff	DL/I buffers	ADDRESS
DLIDBD	DL/I DBD directory entries	NUMBER
DLIPSB	DL/I PSB directory entries	NAME
DLISTATs	DL/I resource statistics	NAME
DLITasks	DL/I tasks	None
SQLLINKS	DB2 information	None

DLIBUFF Panel

The DLIBUFF panel displays information about DL/I buffers.

Menu Access

On the /DBASE menu, cursor-select the DLIBUFF option.

Command Access

Enter **DLIB** or **DLIBUFF** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Panel

```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:58:50
==>                                                                  DLIBUFF
                                DL/I Buffers                      1:16/160-DATA
Buffer    DBD-num DBD name  Wait Status
00456800                    No   Empty
00456A00                    No   Empty
F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Buffer	Buffer address
DBD-num	Number of the associated DBD
DBD name	Name of the DBD
Wait	YES or NO, indicating whether a task is waiting on the buffer
Status	Status of the buffer, as follows: Write chain Write Read Empty Waiting for write Perm write error Existing CI ID enq Pending CI ID enq

DLIDBD Panel

The DLIDBDpanel displays DL/I DBD physical directory entries, but not the logical DBDs.

Menu Access

On the /DBASE menu, cursor-select the DLIDBD option.

Command Access

Enter **DLIDBD** on the command line of any Unicenter CA-Explore for CICS panel.

Command Syntax and Operands

```
DLIDBD [dbdname]
```

Operand	Description
dbdname	String specifying the DBD name to be displayed. You can include generic characters in the string, as explained in the chapter titled "Using Unicenter CA-Explore Performance Management for CICS." If you do not specify a DBD name, all entries are displayed.

Sample Panel

```
CA-Explore For CICS 7.0 SP00  VSECQA2  CICSQA2  FAQS       2004/04/23 14:04:03
==>                                                                   DLIDBD
                                   DL/I DBDs                        1:5/5-DATA

DBD Name Number Stat  Users
STDIX1PD      1 STRT      2
STDIDBPD      2 STRT      2
STDCDBPD      3 STRT      2
STDCX2PD      4 STRT      2
STDCX1PD      5 STRT      2


 F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
 F7=Backward  F8=Forward   F9=Auto     F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
DBD Name	Name of the DBD
Number	DBD number assigned by DL/I
Stat	The current status of the DBD relative to CICS: STOP—Indicates this database is currently closed and unavailable to CICS STRT—Indicates this database is currently open and available to CICS
Users	The number of users currently scheduled for this DBD

DLIPSB Panel

The DLIPSB panel displays DL/I PSB directory entries.

Menu Access

On the /DBASE menu, cursor-select the DLIPSB option.

Command Access

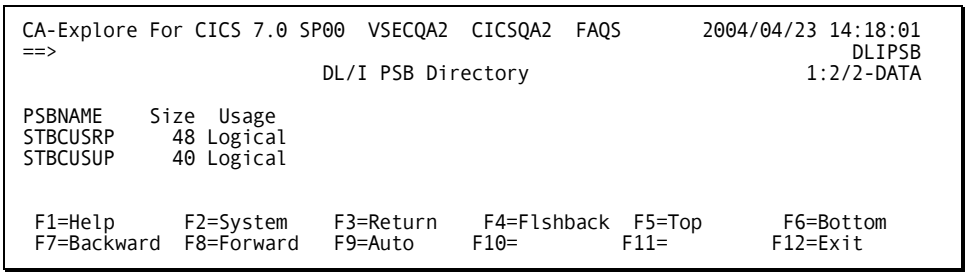
Enter **DLIPSB** on the command line of any Unicenter CA-Explore for CICS panel.

Command Syntax and Operands

```
DLIPSB [psbname]
```

Operand	Description
psbname	String specifying the PSB directory entries to be displayed. You can include generic characters in the string, as explained in the chapter titled "Using Unicenter CA-Explore Performance Management for CICS." If you do not specify a PSB directory entry, all entries will be displayed.

Sample Panel



Panel Field Descriptions

Field	Description
PSBNAME	Name of the PSB
Size	Size of the PSB
Usage	The usage type of the PSB: Logical—Indicates this PSB retrieves a logical database. Physical—Indicates this PSB retrieves a physical database.

DLISTATS Panel

The DLISTATS panel displays DL/I resource statistics.

Menu Access

On the /DBASE menu, cursor-select the DLISTATS option.

Command Access

Enter **DLISTAT** or **DLISTATS** on the command line of any Unicenter CA-Explore for CICS panel.

Command Syntax and Operands

```
DLISTATs [name]
```

Operand	Description
name	String specifying the names of the resources for which you want DL/I resource statistics to be displayed. You can include generic characters in the string, as explained in the chapter titled "Using Unicenter CA-Explore Performance Management for CICS." If you do not specify a resource name, DL/I resource statistics for all resources will be displayed.

Sample Panel

```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:58:50
==>                                                                 DLISTATS
                          DL/I Resource Statistics                 1:4/4-DATA
Name         GU     GN    GNP    GHU    GHN   GHNP   ISRT   DLET   REPL   CHKP
CUDMST        9            19
DRB040@P     72     49     87      2            18                    20
ICB022@P      3            13
ICB030@P      6            12

F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Name	Name of the DBD or PSB resource for which statistics are displayed
GU	Number of GET uniques
GN	Number of GET nexts
GNP	Number of GET nexts in parents
GHU	Number of GET hold uniques
GHN	Number of GET hold nexts
GHNP	Number of GET hold nexts in parents
ISRT	Number of insert requests
DLET	Number of delete requests
REPL	Number of replace requests
CHKP	Number of checkpoint requests

Note: Unicenter CA-Explore for CICS gathers statistics on the number of requests issued by CICS transactions. If, for example, a transaction issues an insert (ISRT) request that adds multiple segments, Unicenter CA-Explore for CICS will show only one ISRT request. Similarly, if a transaction issues a delete (DLET) request that deletes multiple segments, Unicenter CA-Explore for CICS will show only one DLET request.

DLITASKS Panel

The DLITASKS panel displays DL/I tasks.

Menu Access

On the /DBASE menu, cursor-select the DLITASKS option.

Command Access

Enter **DLIT** or **DLITASKS** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Panel

```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:58:50
==>                                                                  DLITASKS
                                  DL/I Tasks                        1:3/3-DATA
    Id Tran Task# Wait Intent Call Parmlist PDIR     Status
_   12 DBDS 01656      Read   GN   002551F0 SYB3@@@P Waiting for I/O
_   22 DBDS 01751      Read   GN   002529F0 SYB3@@@P Task scheduled
_   23 ED35 01755      Update CHKP 0023C1F0 EDBCAMBP Current task

F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Id	ID assigned by DL/I
Tran	Transaction ID
Task#	Transaction number
Wait	DL/I ID of the task that this ID is waiting on
Intent	Intent of call, as follows: Read Update Excl
Parmlist	Address of parameter list
PDIR	PSB directory entry
Status	One of the following to indicate the status of the call: Waiting for I/O Intent conflict Task limit Buffer enqueue MPS task Current task Scheduled by BPC Task scheduled

Margin Command

Command	Description
S	Displays detailed information for the task you select

DLITASKS Detail Panel

The DLITASKS Detail panel displays detailed file information about the DL/I task selected from the DLITASKS panel.

Access

On the DLITASKS panel, cursor-select a task.

Sample Panel

```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/06/30 13:58:50
==>                                                                  DLITASKS
                                  DL/I Tasks                        1:3/3-DATA
    Id Tran Task# Wait Intent Call Parmlist PDIR     Status
_   12 DBDS 01656      Read   GN   002551F0 SYB3@@@P Waiting for I/O
Request Summary     Parameter List
GU                  Call     00282850 GN
GN             10   PCB/PSB  004FC0BB INDMST
GNP             5   I/O AREA 0025A10E
GHU                 SSA      00263C08
GHN                 SSA      80263C11
GHNP
INSERT
DELETE
REPLACE
CHKP

F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

The fields on the first line of this panel are the same as those on the DLITASKS panel. The additional fields on the DLITASKS Detail panel have the following meanings.

Panel Field Descriptions: Request Summary

Field	Description
GU	Number of GET uniques
GN	Number of GET nexts
GNP	Number of GET next in parents
GHU	Number of GET hold uniques
GHN	Number of GET hold nexts
GHNP	Number of GET hold next in parents
INSERT	Number of inserts
DELETE	Number of deletes
REPLACE	Number of replaces
CHKP	Number of checkpoints

Panel Field Descriptions: Parameter List

Field	Description
Call	Type of request being made
PCB/PSB	Value of the PCB/PSB field in the parameter list and what the value points to
I/O AREA	Value of the I/O AREA field in the parameter list and what the value points to
SSA	Value of the SSA field in the parameter list and what the value points to

SQLLINKS Panel (DB2)

The SQLLINKS panel displays information about DB2 (formerly SQL) links. For backward compatibility, the option SQLLINKS is retained for this release.

Menu Access

On the /DBASE menu, cursor-select the SQLLINKS option.

Command Access

Enter **SQLLINKS** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Panel

```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS  FAQS       2003/06/30 15:37:05
==>                                                                  SQLLINKS
                              DB2 Current Links                    1:1/1-DATA

   Linkid   Status  Links  Average Max-Time    Busy  ...20...40...60...80..100
_  LINK0001 Alloc       3    0.049    0.153      0% |









 F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
 F7=Backward  F8=Forward   F9=Auto      F10=Toggle   F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Id	ID assigned by DB2
Status	Status of the DB2 link. Values are In Use, Free, and Alloc
Links	Displays the current link count
Average	Average time spent in link
Maxtime	Maximum amount of time spent in link
Busy	Show the percentage of time the link is busy

Margin Command

Command	Description
S	Displays detailed information for the task you select.

SQLLINKS Detail Panel

The SQLLINKS Detail panel displays detailed link information about the SQL task selected from the SQLLINKS panel.

Access

On the SQLLINKS panel, cursor-select a task.

Sample Panel

```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS4 CICS       2003/07/10 09:55:01
 ==>                                                                  SQLLINKS
                              DB2 CURRENT LINKS

    Linkid   Status  Links  Average Max-Time    Busy  ...20...40...60...80..100
    LINK0001 Alloc       5    0.054    1.360      0% |

           Current    Total
 Links           5        5              Tran     CISQ 00035
 Average     0.054    0.054              Terminal
 Max-Time    1.360    1.360              Program  ARI0OLRM
                                         Module   ARIISQL
 Requests       22       22
 Average     0.019    0.019
 Max-Time    0.400    0.400



 Link Busy   Pct   ...10...20...30...40...50...60...70...80...90..100
 Current       0% |
 Total         0% |

  F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
  F7=Backward  F8=Forward   F9=Auto      F10=Toggle   F11=         F12=Exit
```

Panel Field Descriptions

The fields on the first line of this panel are the same as those on the SQLLINKS panel. The additional fields on the SQLLINKS Detail panel have the following meanings.

Panel Field Descriptions: Request Summary

Field	Description
Links	Shows current and total links
Average	Shows average time for current and total links
Max-Time	Shows maximum time in current and total links
Requests	Shows current and total link requests
Average	Shows average time in current and total requests
Max-Time	Shows maximum time spent for current and total link requests
Tran	Displays the name of the current transaction
Terminal	Displays the name of the terminal for the current transaction
Program	Displays the name of the current programming
Module	Displays the name of the current DB2 module
Current	Shows the percentage of the current links busy
Total	Shows the percentage of the total links busy

Chapter 9

/DISPLAY Menu Options

This chapter explains the /DISPLAY menu, which lists commands you can use to select and display various contents of virtual storage.

Note: This chapter discusses the uses of Unicenter CA-Explore for CICS with CICS Version 2.3 (CICS 2.3) and CICS Transaction Server Version 1.1 (TS 1.1). Unless a distinction is noted, the information applies to both versions.

/DISPLAY Menu

The /DISPLAY menu lists the commands you can use to select and display the current contents of virtual storage. Options enable you to select the following for display:

- Virtual storage at the address you specify
- Authorized function control block
- CICS common system area (CSA)
- CICS common work area (CWA)
- Storage for a specified entry in the Destination Control Table (DCT)
- DSA page (CICS 2.3 only)
- Storage for a specified entry in the File Control Table (FCT)
- Storage at the last address you displayed
- CICS page allocation maps MAP1 and MAP2 (CICS 2.3 only)
- CICS optional features list
- CICS page allocation map (PAM) (CICS 2.3 only)
- Storage for a specified entry in the Program Control Table (PCT) (CICS 2.3 only)
- Storage for a specified entry in the Profile Table (PFT)
- Storage for a specified entry in the Program Processing Table (PPT)
- A specified program in the PPT

- System Initialization Table (SIT)
- Storage displays you have saved using the PUSH command
- The Unicenter CA-Explore for CICS symbol table containing user-defined symbols
- Terminal Control Table (TCT)
- Storage for the first system entry in the TCT
- Storage for the terminal entry in the TCT you specify
- CICS trace table header (CICS 2.3 only)

Menu Access

- On the Unicenter CA-Explore for CICS Main menu, cursor-select the /DISPLAY option.
- Type any character (except H) in the space provided to the left of the command and press Enter.

Command Access

Enter **/DI** or **/DISPLAY** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Menu

The following is the first panel of the /DISPLAY menu. Use F keys to scroll to other panels of this menu.

```
CA-Explore for CICS 7.0 SP00  XXXXXX XXXXXXX  CICS          2004/01/14 12:00:14
 ==>                                                                  /DISPLAY
                  CA-Explore for CICS Menu -  /DISPLAY            1:16/23-DATA

                      Command     Description
                   _  AFCB        Authorized Function Control Block
                   _  CSA         CICS Common System Area
                   _  CWA         CICS Common Work Area
                   _  DCT         CICS DCT Entry
                   _  DISPLAY     Display Virtual Storage Address
                   _  DSAPAGE     Display CICS DSA page
                   _  FCT         CICS FCT Entry
                   _  LAST        Redisplay Last Address
                   _  MAP1        CICS Page Allocation Map1
                   _  MAP2        CICS Page Allocation Map2
                   _  OPFLA       CICS Optional Features List
                   _  PAM         CICS Page Allocation Map
                   _  PCT         CICS PCT Entry
                   _  PFT         CICS PFT Profile Entry
                   _  PPT         CICS PPT Entry
                   _  PPTPROG     CICS PPT Program

  F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
  F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Display Options

To display a panel listed on the /DISPLAY menu, cursor-select the option from the menu, or enter the corresponding command as shown in the following table:

This Command	Displays
AFCB	The contents of the Authorized Function Control Block (AFCB)
AFCS	The contents of the Authorized Function Control System (AFCS) (for TS 1.1 only)
CSA	The contents of the CICS common system area (CSA)
CWA	The contents of the CICS common work area (CWA)
DCT	The contents of storage for a specified entry in the Destination Control Table (DCT)
DISplay	The contents of virtual storage at the address you specify
DSAPAGE	The contents of storage at the top of the DSA page you specify (for CICS 2.3 only)
FCT	The contents of storage for a specified entry in the File Control Table (FCT)
LAST	The contents of storage at the last address you displayed
MAP1	The contents of CICS page allocation MAP1 (for CICS 2.3 only)
MAP2	The contents of CICS page allocation MAP2 (for CICS 2.3 only)
OPFLA	The contents of the CICS optional features list
PAM	The contents of the CICS page allocation map (PAM) (for CICS 2.3 only)
PCT	The contents of storage for a specified entry in the Program Control Table (PCT) (for CICS 2.3 only)

This Command	Displays
PFT	The contents of storage for a specified entry in the Profile Table (PFT)
PPT	The contents of storage for a specified entry in the Program Processing Table (PPT)
PPTPROG	The contents of a specified program in the PPT
SIT	The contents of the System Initialization Table
STACK	The contents of storage displays you have saved using the PUSH command
SYMBOLs	The Unicenter CA-Explore for CICS symbol table, which contains the addresses and partitions to which you have assigned symbols
TCT	The contents of the Terminal Control Table (TCT)
TCTSE	The contents of storage for the first system entry in the TCT
TCTTE	The contents of storage for the terminal entry in the TCT you specify
TRACEHdr	The contents of the CICS trace table header (for CICS 2.3 only)

Storage Displays

This section describes the options on the /DISPLAY menu that display the contents of virtual storage. Only the DISPLAY panel is described in detail. Panels displayed by the remaining options are described only in how they differ from the DISPLAY panel.

DISPLAY Panel

The DISPLAY panel displays the contents of virtual storage at the address you specify.

The following terms are used in descriptions of storage displays, and the commands you can use to change the storage displayed:

Term	Description
Base address	The *base address* serves as a point of reference relative to other addresses. On storage display panels, the base address is shown in the Address= field. You can scroll through the display, or use various commands to display different parts of storage, without changing the base address. The base address will not change unless you issue a command to change it.
Current address	The *current address* is the starting address of the portion of storage that is currently displayed. On storage display panels, the current address is shown directly beneath the Address field heading. As you scroll through the display or display different parts of storage, the current address changes to the starting address of the portion of storage currently displayed.

Menu Access

On the /DISPLAY menu, cursor-select the DISPLAY option.

Command Access

Enter **DIS** or **DISPLAY** on the command line of any Unicenter CA-Explore for CICS panel.

Once you are on any storage display panel, you can enter any of the DISPLAY command operands without entering the command DISPLAY.

When you are not on a storage display panel, you must enter DISPLAY before the DISPLAY command operands.

Examples

The following table lists ways to enter the DISPLAY command from any storage display panel. Assume that the base address and current address are both 00006000 before each command is entered. Also, assume that the value in storage location 00006004 is 00000400. The resulting base address, current address, and offset from the base address are shown for each example.

Example	New Base Address	New Current Address	Offset
+100	00006000	00006100	+100
*+100	00006100	00006100	+0
@4	00000400	00000400	+0
6000	00006000	00006000	+0

Related Commands

- ALTER
- EQUate
- LAST
- SYMBOLs

Command Syntax and Operands

```
DISplay [address] [parm]
```

Operand	Description	
address	Sets the base address to the address you specify and displays the contents of storage beginning at the base address, unless you specify a value for *parm* that changes the storage contents displayed.	
parm	Displays or sets any of the following address operands you specify:	
	*	Sets the current address to the base address and displays the contents of storage beginning at the base address.
	*0	Sets the base address to the current address. The display of storage contents does not change.
	*+offset	Sets the base address to the current base address plus the amount specified by *offset* and displays the contents of storage beginning at the new base address.
	*-offset	Sets the base address to the current base address minus the amount specified by *offset* and displays the contents of storage beginning at the new base address.
	@offset	Use this operand in a 31-bit addressing environment. Sets the base address to the value stored in memory at the location of the current base address plus the offset specified by *offset*. The contents of storage beginning at the new base address are also displayed. You can specify only a positive offset.

Operand	Description	
parm (continued)	%offset	Use this operand in a 24-bit addressing environment. Sets the base address to the value stored in memory at the location of the current base address plus the offset specified by *offset*. The contents of storage beginning at the new base address are also displayed. You can specify only a positive offset.
	+offset	Adds the value specified by *offset* to the current address and displays storage beginning at the new current address.
	+offset	Subtracts the value specified by offset from the current address and displays storage beginning at the new current address.

Sample Panel

```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS  FAQS       2003/07/09 13:31:31
 ==>                                                          DISPLAY
 Address= 00003F20 Alter= Off  Area=
 Jobname= CICS410  Symbol = COMREG (JOBDATWC)
  Address  +0        +4        +8        +C                          OFFSET
 00003F20  F0F261F1  F661F0F0  61F2F000  00000000  *02/16/00/20.....* +00000000
 00003F30  00000000  00000000  C3C9C3E2  F4F1F040  *........CICS410 * +00000010
 00003F40  00700FFF  00700245  00700245  000000B0  *................* +00000020
 00003F50  03CFFFFF  FF7F44C3  200044C0  19000000  *.....".C...{....* +00000030
 00003F60  32B0B39B  AC380413  15F81605  17F438F0  *.........8...4.0* +00000040
 00003F70  F2F1F6F0  F0F0F4F7  00001528  0000FF10  *21600047........* +00000050
 00003F80  50500000  F2F00000  000000B0  F24000B0  *&&..20......2 ..* +00000060
 00003F90  000073C3  00400FF0  0000096C  14580000  *...C. .0...%....* +00000070
 00003FA0  00000000  05C811E1  006BC000  68680F40  *.....H...,{.... * +00000080
 00003FB0  40404040  40404000  40404040  40404000  *        .       .* +00000090
 00003FC0  004A1FC0  C4000000  003F5030  0204C0C0  *.¢.{D.....&...{{* +000000A0
 00003FD0  00433628  004E6200  00401340  0100BA00  *.....+...  . ....* +000000B0
 00003FE0  0E090003  00000000  036C2000  00000000  *.........%......* +000000C0
 00003FF0  C9D1C2C6  C6F20EF4  C4C6C8E2  C9D74040  *IJBFF2.4DFHSIP  * +000000D0
 00004000  00527B40  00000000  00000000  007000E0  *..# ...........\* +000000E0
 00004010  0004A3B8  00700245  00000000  00000000  *..t............* +000000F0

  F1=Help      F2=System    F3=Return    F4=Flshback  F5=          F6=
  F7=Backward  F8=Forward   F9=Auto      F10=@Cursor  F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Address=	Base address, in hexadecimal. This address serves as a point of reference relative to other addresses. You can scroll through the display or use various commands to display different parts of storage without changing the base address. This address will not change unless you issue a command to change it.
Alter=	Alter mode. **On** indicates that fullpanel zap is active and you can overtype the contents of storage to change it. **Off** indicates that fullpanel zap is inactive.
Area=	VSE storage partition. If the storage is in DSA, this field is displayed as follows, where *page* is the CICS DSA page number of the current address being displayed and *subpool* is the CICS subpool ID of the current address: `Area= PrivPart (DSA:`*page*`,`*subpool*`)`
Jobname=	Jobname of the address space that is being displayed.
Program=	Program that contains the displayed storage.
Address	Current address, in hexadecimal. This address is the starting address of the portion of storage currently displayed.
Offset	Offset of the current address from the base address.

F-Key Descriptions

F-Key	Description
F7	Sets the current address to the current address minus 256 bytes.
F8	Sets the current address to the current address plus 256 bytes.
F10	Sets the base address to the value at the address on which the cursor is positioned. The contents of storage beginning at the new base address are displayed.

Other Storage Display Commands

The commands described in this section display the contents of virtual storage at various locations.

Menu Access

On the /DISPLAY menu, cursor-select the option for the desired panel.

Command Access

Enter the appropriate command and any operands on the command line of any Unicenter CA-Explore for CICS panel.

Panel Field Descriptions

The fields on all of the panels displayed by the commands in this section are identical to those shown on the DISPLAY panel, which is described in the previous section.

AFCB Panel

The AFCB command displays the Authorized Function Control Block (AFCB).

AFCS Panel

The AFCS command displays the Authorized Function Control System (AFCS).

CSA Panel

The CSA command displays the CICS common system area (CSA), which is the main control block of CICS. It contains the pointers to all other tables, chains, and areas, either directly or indirectly. The extension to the CSA is the options features list (OPFL).

In CICS 2.3, the CSA is the main anchor for all processing and pointers. In CICS TS 1.1, the CSA exists, but its use is limited. The CSA is read-protected and will cause a transaction to abend if the CSA is referenced.

To locate the CSA in a dump, either

- Use register 13, which points to the CSA
- Use the authorized function control block (AFCB)
- Locate the character string AICA at the front of the partition. The next word is the beginning of the CSA

CWA Panel

The CWA command displays the CICS common work area (CWA). It is located directly following the CICS common system area. However, the CWA is not used by CICS.

The length of the CWA is defined by the parameter WRKAREA= in the SITCWA (CWA System Initialization Table). Its default size is 512 bytes. Its maximum size is 3584 bytes. At startup, CICS initializes the CWA to binary zeros.

DCT Panel

The DCT command displays the contents of storage for the specified entry in the DCT (Destination Control Table).

Command Syntax and Operands

```
DCT [dctentry]
```

Operand	Description
dctentry	Name of the desired entry in the DCT

If you do not specify the *dctentry* operand, the first DCT entry in the table is displayed.

DSAPAGE Panel (CICS 2.3 Only)

The DSAPAGE command displays the contents of the DSA page you specify.

Command Syntax and Operands

```
DSAPAGE [pagenumber]
```

Operand	Description
pagenumber	Page number of a dynamic storage area page

If you do not specify the *pagenumber* operand, the content of page 1 is displayed.

FCT Panel

The FCT command displays the contents of the specified entry in the FCT (File Control Table).

Command Syntax and Operands

```
FCT [filename]
```

Operand	Description
filename	Filename specifying the desired entry in the FCT

If you do not specify the *filename* operand, storage content for the first entry in the FCT is displayed.

MAP1 Panel (CICS 2.3 Only)

The MAP1 command displays the contents of the CICS PAM MAP1.

The address of the page allocation map MAP1 can be found in the PAM at offset (X'7C' - PAMMAPST). The number of bytes in MAP1 is equal to the number of pages in dynamic storage (PAMPGNUM). Each byte in MAP1 corresponds to a page in storage. The byte's value is the subpool ID.

The subpools and their corresponding storage types are as follows:

Subpool	Storage Types
01 Control	DCA, QEA, ICE, and AID storage
02 Teleproc	TIOA storage
04 Isolated	TCA and other transaction storage areas
05 Shared	COMMAREA, temporary storage control blocks, and TCTTEs for dynamically acquired terminals
06VTAM RPL	VTAM RPLs
08 Program	Nonresident program storage and BMS map storage

MAP2 Panel (CICS 2.3 Only)

The MAP2 command displays the contents of the CICS PAM MAP2.

You can find the address of the page allocation map MAP2 in the PAM by adding the address of MAP1 to the number of pages in dynamic storage.

OPFLA Panel

The OPFLA command displays the CICS optional features list.

PAM Panel (CICS 2.3 Only)

The PAM command displays the contents of the CICS PAM.

The address of the PAM is in the CSA at offset (X'98' - CSAPAMA).

PCT Panel (CICS 2.3 Only)

The PCT command displays the contents of storage for the specified entry in the PCT (Program Control Table).

Command Syntax and Operands

```
PCT [transid]
```

Operand	Description
transid	Transaction ID specified in the PCT

If you do not specify the *transid* operand, storage content for the first entry in the PCT is displayed.

PFT Panel

The PFT command displays the contents of storage for the specified entry in the PFT (Profile Table).

Command Syntax and Operands

```
PFT [profile]
```

Operand	Description
profile	Profile specified in the PFT

If you do not specify the *profile* operand, storage content for the first entry in the PFT is displayed.

PPT Panel

The PPT command displays the contents of storage for the specified entry in the PPT (Program Processing Table).

Command Syntax and Operands

```
PPT [program]
```

Operand	Description
program	Program name specified in the PPT for CICS 2.3 or the PPTE in CICS TS 1.1

If you do not specify the *program* operand, storage content for the first entry in the PPT is displayed.

Related Command

PPTPROG

PPTPROG Panel

The PPTPROG command displays the contents of storage at the entry point of the specified program in the PPT.

Command Syntax and Operands

```
PPTPROG [program]
```

Operand	Description
program	Program name specified in the PPT or PPTE (TS 1.1)

If you do not specify the *program* operand, storage content for the first entry in the PPT is displayed.

Related Command

PPT

SIT Panel

The SIT command displays the contents of the system initialization table.

The address of the System Initialization Table is located at offset (X'8C' - CSASITBA).

TCT Panel

The TCT command displays the contents of the TCT (Terminal Control Table).

The address of the TCT is located in the CSA at offset (X'128' - CSATCTBA).

TCTSE Panel

The TCTSE command displays the contents of the first system entry in the TCT.

TCTTE Panel

The TCTTE command displays the contents of the specified terminal entry in the TCT.

Command Syntax and Operands

```
TCTTE [terminal]
```

Operand	Description
terminal	Terminal name specified in the TCT

If you do not specify the *terminal* operand, the first terminal entry in the TCT is displayed.

TRACEHDR Panel (CICS 2.3 Only)

The TRACEHDR command displays the contents of the CICS trace table header.

The address of the trace table header is located in the CSA at offset (x'11C' CSATRTBA).

The following table lists trace entry information:

Offset	Length	Description
+00	4	Address of the current or latest trace entry
+04	4	Address of the first trace entry
+08	4	Address of the last trace entry
+0E	2	Number of trace entries

SYMBOLS Panel

The SYMBOLs panel displays the defined symbols and their addresses and partitions.

Any symbol can be entered on the command line of a storage display panel to display storage at the address defined for the symbol.

Menu Access

On the /DISPLAY menu, cursor-select the SYMBOLS option.

Command Access

Enter **SYMBOL** or **SYMBOLS** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Panel

```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS  FAQS       2003/07/09 13:32:07
==>                                                                  SYMBOLS
                            Display Symbol Table                1:16/33-DATA

   Symbol   Address    Length Mapname  Partition
_  BSUBPIND 011F8B2C 00000100 SUBPINT  PrivPart
_  CLASSADR 003DE000 00000078 CLASSADR SGETV24

F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Symbol	Name of the defined symbol
Address	Address in storage assigned for the symbol
Length	Length of storage associated with the symbol
Mapname	Name of the map associated with the symbol
Region	VSE storage region

Margin Command

Command	Description
S	Displays the contents of storage at the address defined for the symbol selected
M	Maps the symbol selected

Defining Symbols

You can add symbols to the table of defined symbols using the EQUate command. See the chapter titled "Function Commands" for an explanation of how to use the EQUate command.

Saving and Redisplaying Storage Displays

This section describes the following menu:

- The STACK command, which displays a list of the addresses in the stack
- The LAST command, which displays the contents of storage at the last address you displayed
- The PUSH command, which adds addresses to a stack of display addresses
- The POP command, which pops the top display address from the stack
- The CLRSTACK command, which clears all addresses from the stack

STACK Panel

The STACK command displays the stack of virtual storage addresses you have displayed, including any you saved using the PUSH command.

Menu Access

On the /DISPLAY menu, cursor-select the STACK option.

Command Access

Enter **STACK** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Panel

```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS  FAQS       2003/07/09 13:32:07
==>                                                                    STACK
                              Display Stack Table                      1:3/3
   Address  Current  Partition
_  00001000 00001000 SUPERVIS
_  00523E20 00523E20 PRIVATE

F1=Help      F2=System     F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward    F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Address	Original display address
Current	Current display address
Partition	VSE storage partition

Margin Command

Command	Description
S	Displays the contents of storage at the address selected

Related Configuration Option

The DISPLAY-STACK configuration option defines the number of addresses displayed. The default is 32.

LAST Panel

The LAST command displays the contents of storage at the last address you displayed.

PUSH Panel

The PUSH command adds the address of the current storage display to the stack of display addresses.

The PUSH command is a function command and does not appear on any Unicenter CA-Explore for CICS menu.

Command Syntax

```
PUSH
```

POP Panel

The POP command pops the top display address from the stack and displays the contents of storage at that address.

The POP command is a function command and does not appear on any Unicenter CA-Explore for CICS menu.

Command Syntax

```
POP
```

CLRSTACK Panel

The CLRSTACK command clears the display stack.

The CLRSTACK command is a function command and does not appear on any Unicenter CA-Explore for CICS menu.

Command Syntax

```
CLRSTACK
```

Chapter 10

/VSE Menu Options

This chapter explains the /VSE menu, which you can use to access the VSE system console display and display information about VSE dynamic classes, job activity, load modules, and so on.

Note: This chapter discusses the uses of Unicenter CA-Explore for CICS with CICS Version 2.3 (CICS 2.3) and CICS Transaction Server Version 1.1 (TS 1.1). Unless a distinction is noted, the information applies to both versions.

/VSE Menu

The /VSE menu lists the commands that you can issue to perform the following actions:

- Access the VSE system console display
- Display information about VSE dynamic classes
- Display information about job activity
- Display information about loaded modules
- Display a list of the products defined to the system
- Display subtask information by TCB
- Display information about SVA loaded modules
- Display information about VSE task IDs

Menu Access

- On the Unicenter CA-Explore for CICS Main menu, cursor-select the /VSE option.
- Type any character (except H) in the space provided to the left of the command and press Enter.

Command Access

Enter **/VS** or **/VSE** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Menu

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS  FAQS       2003/07/09 13:32:46
==>                                                                      /VSE
                  Unicenter CA-Explore Menu -  /VSE                 1:8/8-DATA
                       Command     Description
                     _ CONSOLE     VSE System Console
                     _ DYNCLASS    VSE Dynamic Class Characteristics
                     _ JOBS        Job Partitions
                     _ LOADLIST    Loaded Modules List
                     _ PRODUCTS    Products Defined to the System
                     _ SUBTASKS    Partition Subtask List
                     _ SVALIST     SVA Loaded Modules List
                     _ TIDLIST     VSE Task Id List

F1=Help        F2=System       F3=Return      F4=Flshback    F5=Top
F6=Bottom
F7=Backward    F8=Forward      F9=Auto        F10=           F11=
F12=Exit
```

Panel Display Options

To display a panel listed on the /VSE menu, cursor-select the option from the menu or enter the corresponding command as shown in the following table:

This Command	Displays	Default Sort Argument
CONSole	VSE system console display	None
DYNClass	Information about VSE dynamic classes	None
JOBs	Information about job activity	ID
LOADLIST	Information about loaded modules	MODULE
PRODUCTs	A list of the products defined to the system	COMPANY
SUBTasks	Subtask information by TCB	None
SVALIST	Information about SVA loaded modules	MODULE
TIDlist	Information about VSE task IDs	None

CONSOLE Panel

The CONSole panel displays the VSE system console.

Menu Access

On the /VSE menu, cursor-select the CONSOLE option.

Command Access

Enter **CONS** or **CONSOLE** on any Unicenter CA-Explore for CICS panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS  FAQS       2003/07/09 13:32:46
==>                                                                   CONSOLE
                             VSE System Console                    1:7/7-DATA
....+...10....+...20....+...30....+...40....+...50....+...60....+...70....+...
*F5-005 EVSE675I EXPLORE FOR VSE - ENTER COMMAND:                     15:27:14
*F7-007 GJJ206I JOB SCHEDULER ACTIVE                                  17:01:49
 F8 008 DCM SYSTEMS - FAQS/ASO V3.53 - FAQSMSG UTILITY PROGRAM        20:21:27
 F8 008 EOJ FAQSUTIL  MAX.RETURN CODE=0000                            20:21:30
    DATE 02/10/1999,CLOCK 20/21/29,DURATION   00/00/03                20:21:30
 F1 001 1Q34I   F8 WAITING FOR WORK                                   20:21:30
 F1 001 1Q34I  LST WAITING FOR WORK ON 00F                            20:21:30

F1=Help      F2=System     F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward    F9=Auto      F10=         F11=         F12=Exit
```

Refreshing the Display

Press Enter to display the most recent VSE console entries.

DYNCLASS Panel

The DYNCLASS panel displays information about VSE dynamic classes.

Menu Access

On the /VSE menu, cursor-select the DYNCLASS option.

Command Access

Enter **DYNC** or **DYNCLASS** on any Unicenter CA-Explore for CICS panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS  FAQS       2003/07/09 13:32:46
==>                                                                  DYNCLASS
                        Dynamic Class Characteristics               1:4/4-DATA
Class Status    Max    Alloc     Size  SP-GETV     LUBS Profile
  C   Active      9       1M     500K     128K      100 DEV2PROF
  P   Active     32       1M     512K     128K      100 DEV2PROF

F1=Help      F2=System     F3=Return   F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward    F9=Auto     F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Class	Job class
Status	Class status: Active, Disabled, or WaitWork
Max	Maximum number of partitions within the class
Alloc	Storage allocation value for the class
Size	Size of the class's partition, in bytes
SP-GETV	Size of dynamic space GETVIS, in bytes
LUBS	Number of programmer logical units
Profile	Name of the partition's profile (ASI procedure)

JOBS Panel

The JOBS panel displays information about jobs that are currently executing.

Menu Access

On the /VSE menu, cursor-select the JOBS option.

Command Access

Enter the JOBs command on the command line of any Unicenter CA-Explore for CICS panel.

Command Syntax and Operands

```
JOBs [jobname]
```

Operand	Description
jobname	String specifying the jobs about which information is to be displayed. You can include generic characters in the string, as explained in the chapter titled "Using Unicenter CA-Explore Performance Management for CICS." If you do not specify a jobname, all jobnames are displayed.

Sort Arguments

- CPU
- DURATION
- ID
- JOBNAME
- PHASE
- SIOS
- SIZE
- VIRT-BEG
- VIRT-END

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS  FAQS       2003/07/09 13:32:46
==>                                                                      JOBS
                                 Job Partitions                    1:16/16-DATA
   Id Jobname  Phase      Duration  CPU Time    SIOS    Size Virt-Beg Virt-End
_  BG NO NAME  ........                                 4096K 00A00000 00DFFFFF
_  FA NO NAME  ........                                 2048K 00A00000 00BFFFFF
_  Z1 CICS2    DFHSIP     26:06:55     89.95    5704   8064K 00A20000 011FFFFF
F1=Help      F2=System     F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward    F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Id	Partition ID
Jobname	The name of the job currently executing. If the jobname is displayed in yellow or an asterisk (*) appears before the jobname, the partition has a reply outstanding.
Phase	The name of the phase being executed.
Duration	The amount of time the job has been active.
CPU Time	CPU time used.
SIOS	Number of start I/Os initiated by the job.
Size	Size of the partition, in bytes.
Virt-Beg	Beginning address of the partition in virtual storage.
Virt-End	Ending address of the partition in virtual storage.

Margin Command

Command	Description
S	Displays detailed subtask information for the selected partition

JOBS Detail Panel

The JOBS Detail panel displays detailed subtask information for the selected partition.

Access

On the JOBS panel, cursor-select a job.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS  FAQS       2003/07/09 13:33:53
==>                                                                      JOBS
                              Job Partitions

   Id Jobname  Phase      Duration  CPU Time    SIOS    Size Virt-Beg Virt-End
   Z1 CICS2    DFHSIP     16:05:08     42.20    5793   8064K 00A20000 011FFFFF

   Id Subtask  TIB      TCB      .......PSW....... Status
   AC DFHLOADR 003919F0 00391A58 07DD0000 00DE8A54 82 WAITBND
   B7 DFHSKP   003A76A0 003A7708 07DD1000 00AA5402 82 WAITBND


F1=Help      F2=System     F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward    F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

The fields on the first line of this panel are the same as those on the JOBS panel. The additional fields on the JOBS Detail panel have the following meanings:

Field	Description
Id	Task ID of the subtask. If the ID is displayed in yellow or an asterisk (*) follows the ID, the partition has a reply outstanding.
Subtask	Name of the subtask.
TIB	Address of the task information block for the subtask.
TCB	Address of the task control block for the subtask.
PSW	Current value of the program status word for the subtask.
Status	Status value for the subtask (TIBRGID).

LOADLIST Panel

The LOADLIST panel displays information about loaded modules.

Menu Access

On the /VSE menu, cursor-select the LOADLIST option.

Command Access

Enter the LOADLIST command on the command line of any Unicenter CA-Explore for CICS panel.

Command Syntax and Operands

```
LOADLIST [module]
```

Operand	Description
module	String specifying the modules about which information is to be displayed. You can include generic characters in the string, as explained in the chapter titled "Using Unicenter CA-Explore Performance Management for CICS." If you do not specify a module, all modules are displayed.

Sort Arguments

- ADDRess
- ENTRY
- LENgth
- MODule

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS  FAQS       2003/07/09 13:33:53
==>                                                              LOADLIST
                              Loaded Modules List               1:6/6-DATA
Module   Address  Entry    Length    Count Region
.KQVCHK  00E33480 00E33480 00009BD8        GETV24
DFHMET1E 011ED000 011ED000 00002CED      1 GETV31

F1=Help      F2=System     F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward    F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Module	Program name
Address	Address of program in storage
Entry	Program entry point
Length	Program length, in bytes (hexadecimal)
Count	Number of times the program has been loaded
Region	Name of a VSE storage region

PRODUCTs Panel

The PRODUCTS panel displays information about products defined to the system.

Menu Access

On the /VSE menu, cursor-select the PRODUCTS option.

Command Access

Enter **PRODUCT** or **PRODUCTS** on any Unicenter CA-Explore for CICS panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS  FAQS       2003/07/09 13:33:53
==>                                                                  PRODUCTS
                        Products Defined to the System              1:5/5-DATA

Company         Product           VVRRMM  Task PIK
Computer Assoc  EXPLORE FOR CICS  060100  002F 00F0
Computer Assoc  EXPLORE FOR VSE   060100  002C 0020


F1=Help      F2=System     F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward    F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Company	Name of the product vendor.
Product	Name of the product.
VVRRMM	Version, release, and modification level of the product.
Task	Task ID that defined the product to the system. If 0000 appears, the task that defined the product to the system has terminated.
PIK	Program interrupt key.

SUBTASKS Panel

The SUBTASKS panel displays information about subtasks.

Menu Access

On the /VSE menu, cursor-select the SUBTASKS option.

Command Access

Enter **SUBT** or **SUBTASKS** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS  FAQS       2003/07/09 13:33:53
==>                                                                  SUBTASKS
                            Partition Subtask List                 1:6/6-DATA

Id Subtask  TIB      TCB      .......PSW....... Module   Offset Status
AC DFHLOADR 003919F0 00391A58 07DD0000 00DE8A54                  82 WAITBND
B7 DFHSKP   003A76A0 003A7708 07DD1000 00AA5402                  82 WAITBND


F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Id	Task ID of the subtask. If the ID is displayed in yellow or an asterisk (*) follows the ID, the partition has a reply outstanding.
Subtask	Name of the subtask.
TIB	Address of the task information block for the subtask.
TCB	Address of the task control block for the subtask.
PSW	Current value of the program status word for the subtask.
Module	Module name that the PSW points to, if available.
Offset	Offset into the module.
Status	Status value for the subtask (TIBRGID).

SVALIST Panel

The SVALIST panel displays a list of SVA loaded modules.

Menu Access

On the /VSE menu, cursor-select the SVALIST option.

Command Access

Enter the SVALIST command on the command line of any Unicenter CA-Explore for CICS panel.

Command Syntax and Operands

```
SVALIST [module]
```

Operand	Description
module	String specifying the modules to be displayed. You can include generic characters in the string, as explained in the chapter titled "Using Unicenter CA-Explore Performance Management for CICS." If you do not specify a module, all modules are displayed.

Sort Arguments

- MODule
- ADDRess
- LENgth

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS  FAQS       2003/07/09 13:33:53
==>                                                              SVALIST
                          SVA Loaded Modules List              1:16/230-DATA
Module   Address  Entry    Length   Region   Amode Rmode
$$BACLOS 001A9330 001A9330 00000222 SVA24       24    24
$$BATTNA 001A9558 001A9558 000004A2 SVA24       24    24
F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Module	Program name
Address	Address of program in storage
Entry	Address of the program's entry point in storage
Length	Program length, in bytes (hexadecimal)
Region	VSE storage region
Amode	Addressing mode: 24 or 31
Rmode	Residency mode: 24 or Any

TIDLIST Panel

The TIDLIST panel displays information about VSE task IDs.

Menu Access

On the /VSE menu, cursor-select the TIDLIST option.

Command Access

Enter **TID** or **TIDLIST** on any Unicenter CA-Explore for CICS panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS  FAQS       2003/07/09 13:33:53
==>                                                                   TIDLIST
                              VSE Task Id List                    1:16/68-DATA
Id     Subtask  PCB      TIB      TCB      .......PSW....... Status
01 AR  SNS-TASK 00039480 0003AC50 0003B928 040C1000 0001D4B6 80 NOTACTIV
02 AR  DSK-TASK 00039480 0003ACB8 0003B970 040C0000 8001FB9C 80 NOTACTIV
F1=Help      F2=System     F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward    F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Id	VSE task ID number assigned to the task. If the ID is displayed in yellow or an asterisk (*) follows the ID, the task has a reply outstanding.
Subtask	Subtask associated with the task.
PCB	Address of the task program control block.
TIB	Address of the task information block.
TCB	Address of the task control block.
PSW	The task's program status word.
Status	Status code for the task, followed by the translation of the code.

Chapter 11

/UTILITY Menu Options

This chapter explains the /UTILITY menu, which you can use to display CEMT responses and information about each execution of the GENTABLE command.

Note: This chapter discusses the uses of Unicenter CA-Explore for CICS with CICS Version 2.3 (CICS 2.3) and CICS Transaction Server Version 1.1 (TS 1.1). Unless a distinction is noted, the information applies to both versions.

/UTILITY Menu

The /UTILITY menu lists the commands that you can issue to display the following:

- CEMT responses
- Parameters entered for each execution of the GENTABLE command and the result of each execution in CICS 2.3 only.

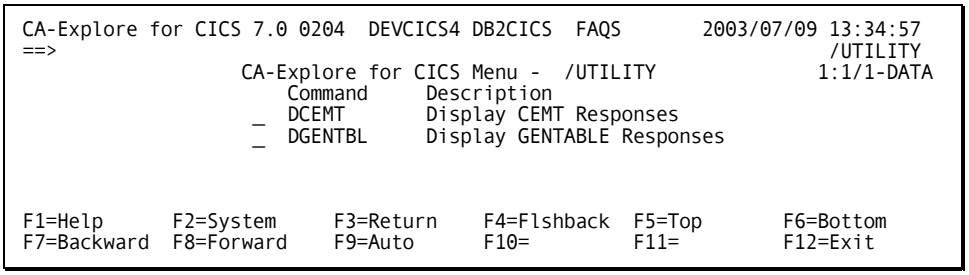
Menu Access

- On the Unicenter CA-Explore for CICS Main menu, cursor-select the /UTILITY option.
- Type any character (except H) in the space provided to the left of the command and press Enter.

Command Access

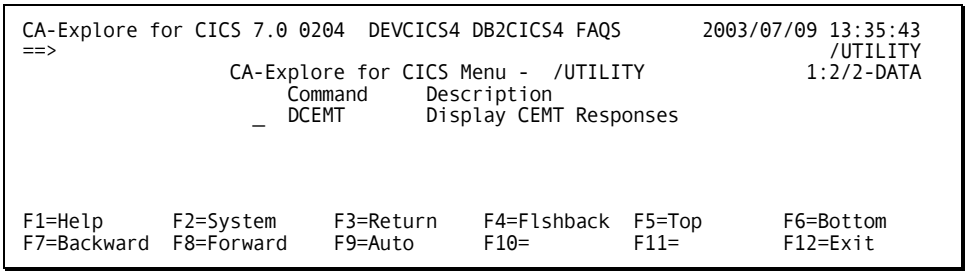
Enter **/UT** or **/UTILITY** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Menu for CICS 2.3



```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS  FAQS       2003/07/09 13:34:57
==>                                                                  /UTILITY
                  CA-Explore for CICS Menu -  /UTILITY              1:1/1-DATA
                      Command     Description
                   _  DCEMT       Display CEMT Responses
                   _  DGENTBL     Display GENTABLE Responses


F1=Help      F2=System     F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward    F9=Auto      F10=         F11=         F12=Exit
```

Sample Menu for TS 1.1



```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 13:35:43
==>                                                                  /UTILITY
                 CA-Explore for CICS Menu -  /UTILITY              1:2/2-DATA
                      Command     Description
                   _  DCEMT       Display CEMT Responses


F1=Help      F2=System     F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward    F9=Auto      F10=         F11=         F12=Exit
```

Panel Display Options

To display a panel listed on the /UTILITY menu, cursor-select the option from the menu or enter the corresponding command as listed in the following table.

This Command	Displays	Default Sort Argument	For CICS Version
DCEMT	CEMT responses	None	CICS 2.3 and TS 1.1
DGENTBL	Parameters entered for each execution of the GENTABLE command and the result of each execution	None	CICS 2.3

DCEMT Panel

The DCEMT panel displays CEMT commands issued since Unicenter CA-Explore for CICS was initialized. Commands not yet processed by CICS appear in white on color displays or are highlighted on monochrome displays. You can display or delete the information returned from a processed CEMT command, or cancel an unprocessed command on this panel.

Menu Access

On the /UTILITY menu, cursor-select the DCEMT option.

Command Access

Enter **DCEMT** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Screen

```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 13:35:43
==>                                                                    DCEMT
                            CEMT Processed Requests                    1:3/3
   Command
_  CEMT I PROG(DFH*)
_  CEMT I DA

F1=Help      F2=System     F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward    F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Command	Name of the requested command

Margin Commands

Command	Description
S	Displays information returned from the requested command. If you select more than one entry, only the first entry is displayed; the other entries are ignored. You need to select each entry that you want to display one line at a time.
D	Deletes information returned from the requested command. If you select more than one entry, only the first entry is deleted; the other selected entries are not deleted. You must delete one entry at a time.

DCEMT Detail Panel

The DCEMT Detail panel displays the information returned from the command you select from the DCEMT panel. When you display the results of a CEMT command, only 1928 characters of the response are displayed. As a result, depending on the type of request issued the entire response may not be displayed.

Access

On the DCEMT panel, cursor-select an entry.

Sample Panel

```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 13:35:43
==>                                                                    DCEMT
                            CEMT Processed Requests                  1:15/30
   Command
   CEMT I PROG
      PRO(ACCTSET ) LEN(0000000) RES(000) USE(000000) ASS ENA
      PRO(ACCT00  ) LEN(0000000) RES(000) USE(000000) COB ENA
F1=Help      F2=System     F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward    F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

The command you selected from the DCEMT panel is displayed above the information it returned.

DGENTBL Panel (CICS 2.3 Only)

The DGENTBL panel displays the parameters entered for each execution of the GENTABLE command. See the chapter titled "Function Commands." The response code displays the result of each request.

Menu Access

On the /UTILITY menu, cursor-select the DGENTBL option.

Command Access

Enter **DGENTBL** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Panel

```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS  FAQS       2003/07/09 13:36:30
==>                                                                  DGENTBL
                        GENTABLE Processed Requests                    1:3/3
   Function  Table Parameters                  Response Code
_  ADD       PCT   PGM1     TESTPGM1 DFHCICST Normal Response
_  ADD       PPT   TESTPGM2 COBOL             Normal Response

F1=Help      F2=System     F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward    F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Function	Function name
Table	Table name: PPT or PCT
Parameters	Parameters of processed request
Response Code	Response code

Margin Command

Command	Description
D	Deletes the response from the GENTABLE command selected

Chapter 12

/CONFIG Menu Options

This chapter explains the /CONFIG menu, which you can use to display or update command lists and configuration options, or to display information about screen attributes, options, user profiles, thresholds, and so on.

Note: This chapter discusses the uses of Unicenter CA-Explore for CICS with CICS Version 2.3 (CICS 2.3) and CICS Transaction Server Version 1.1 (TS 1.1). Unless a distinction is noted, the information applies to both versions.

/CONFIG Menu

The /CONFIG menu lists the commands you can issue to display the following:

- Information about screen attributes
- Panels used to create, display, delete, or update command lists
- Information about Unicenter CA-Explore for CICS configuration options and a summary of the current settings of options
- Monitor options
- A list of all predefined plot lists
- Your user profile
- Information about Unicenter CA-Explore for CICS thresholds
- A panel used to display, add, or change umbrella transaction definitions

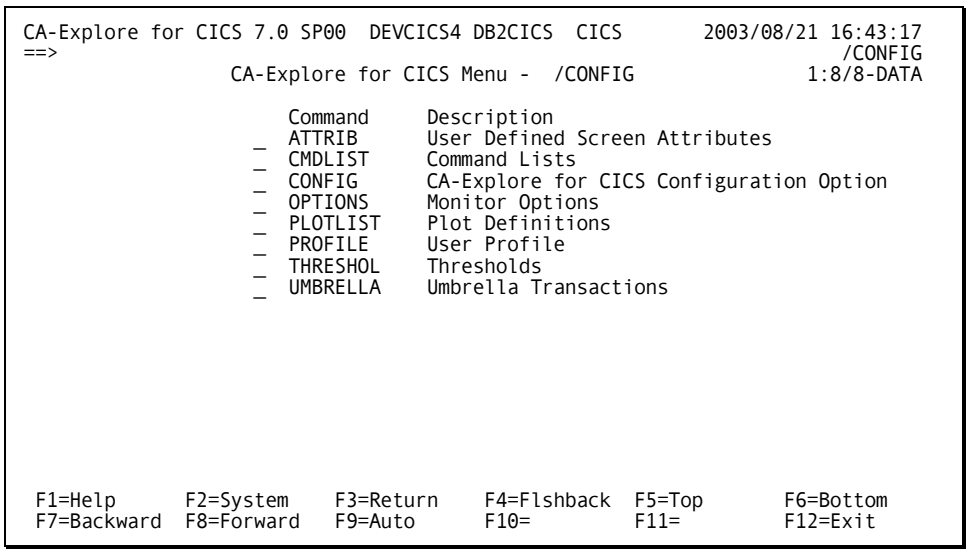
Menu Access

- On the Unicenter CA-Explore for CICS Main menu, cursor-select the /CONFIG option.
- Type any character (except H) in the space provided to the left of the command and press Enter.

Command Access

Enter **/CO** or **/CONFIG** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Menu



Panel Display Options

To display a panel listed on the /CONFIG menu, cursor-select the option from the menu or enter the corresponding command as listed in the following table:

Command	Function
ATTRIB	Displays information about screen attributes
CMDList	Creates, displays, deletes, or updates command lists
CONFig	Displays or updates configuration options
OPTIONS	Displays all options and their current settings
PLOTList	Displays the predefined plot lists
PROFILE	Displays information about user profiles
THREShol	Displays threshold information
UMBRella	Displays information about umbrella transactions, or adds or changes umbrella transaction definitions

ATTRIB Panel

The ATTRIB panel displays information about screen attributes.

Menu Access

On the /CONFIG menu, cursor-select the ATTRIB option.

Command Access

Enter **ATTRIB** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Panel

```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS  FAQS       2003/07/09 13:36:30
==>                                                                    ATTRIB
                              Screen Attributes                     1:16/38-DATA

Name                     Color...Attrib..Char  ExtHi ..Char  Mono..Char  Prot
Bar Graph Info 1         Blue    Rev       40  Rev       40  Low   * 5C  P
Bar Graph Info 2         Yellow  Rev       40  Rev       40  High  * 5C  P
Bar Graph OK             Green   Rev       40  Rev       40  Low   * 5C  P
Bar Graph PROBLEM        Red     Rev       40  Rev       40  High  * 5C  P
Bar Graph WARNING        Yellow  Rev       40  Rev       40  High  * 5C  P
Input Field              Yellow  Off     . 00  Off     . 00  Low   . 00  U
Input Field MDT          Yellow  Off     . 00  Off     . 00  Low   . 00  U
Input Field Non Display  Yellow  Off     . 00  Off     . 00  NDSP  . 00  U
Message Line OK          Green   Off     . 00  Off     . 00  Low   . 00  P
Message Line Problem     Red     Off     . 00  Off     . 00  High  . 00  P
Message Line Warning     Yellow  Off     . 00  Off     . 00  Low   . 00  P
Plot Background          Turq    Rev     . 4B  Off       40  Low     40  P
Plot Overlay Ave/Thrsh   Blue    Rev     * 5C  Rev     * 5C  Low   * 5C  P
Plot Overlay Bar         Blue    Rev     * 5C  Rev     * 5C  Low   * 5C  P
Plot 1 Ave/Threshold     Turq    Rev     - 60  Off     - 60  Low   - 60  P
Plot 1 Bar               Blue    Rev       40  Rev       40  Low   X E7  P

F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Name	Screen attribute type
Prot	Whether the field is protected as follows: P Protected U Unprotected
Attribute	Extended highlighting attribute of field: Off Off Rev Reverse Blink Blink Underl Underline

Panel Field Descriptions: For Color Screens

Field	Description
Color	Color of field
Attrib	Extended highlighting attribute of field: Off Off Rev Reverse Blink Blink Underl Underline
Char	Character overlay of field

Panel Field Descriptions: In Extended Highlighting Mode

Field	Description
ExtHi	Extended highlighting attribute of field: Off Off Rev Reverse Blink Blink Underl Underline
Char	Character overlay of field

Panel Field Descriptions: In Monochrome Mode

Field	Description
Mono	Intensity level of field: Low Low intensity High High intensity NDSP Non-display
Char	Character overlay of field

CMDLIST Panel

The CMDLIST panel lets you create, display, delete, or update Unicenter CA-Explore for CICS command lists. You can use command lists to automatically display Unicenter CA-Explore for CICS panels in sequence.

Menu Access

On the /CONFIG menu, cursor-select the CMDLIST option.

Command Access

Enter **CMDL** or **CMDLIST** on the command line of any Unicenter CA-Explore for CICS panel.

Command Syntax and Operands

```
CMDList [cmdlist]
```

Operand	Description
cmdlist	String specifying the command lists to be displayed. You can include generic characters in the string, as explained in the chapter titled "Using Unicenter CA-Explore Performance Management for CICS." If you do not specify a command list, all lists are displayed.

Sample Panel

```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS  FAQS       2003/07/09 13:36:30
==>                                                                  CMDLIST
                  CA-Explore for CICS Command Lists                 1:8/8-DATA
   Name      Transfer  Description
_  AUTOCMD1            TRANSACTIONS AND GLOBAL INFORMATION
_  AUTOCMD2

F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Name	Name of the command list
Transfer	One of the following: ■ The name of a command list to transfer control to when the end of the command list is reached ■ A blank to indicate that the same command list will be repeated ■ NO or STOP to indicate that the command list will not be repeated or to start another command list
Description	Description of the command list

Margin Commands

Command	Description
S	Displays the commands defined for the selected command list
A	Engages automatic redisplay mode for selected command list
D	Deletes the selected command list

Creating a New Command List

To create a new command list, enter **NEW *cmdlist*** on the command line at the top of the panel, where *cmdlist* is the name to be assigned to the command list. If you do not specify a command list name and you are logged on, your user ID is used. If you are not logged on, your terminal ID will be used as the command list name. A blank CMDLIST Detail panel is displayed, on which you can define the new command list.

Another way to create a new command list is to overtype the Name field on any CMDLIST Detail panel. The command list whose name you overtype is not renamed, but a new command list is created. You can then alter and save the new command list definition.

CMDLIST Detail Panel

The CMDLIST Detail panel displays the commands that make up a command list.

Access

On the CMDLIST panel, cursor-select a command list name.

Sample Panel

```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS  FAQS       2003/07/09 13:36:30
==>                                                                   CMDLIST
                  CA-Explore for CICS Command Lists   Name      Transfer
Description
   STATUS02  STATUS01  STATUS COMMANDS
*---------- C o m m a n d s ---------*  *---------- C o m m a n d s ---------*
MRO                                     MXT
PROGRAMS                                QEAS
REGIONS                                 RESPTIME
TASKS                                   TDATA
TEMPSTOR                                TERMS ALL
TMDIR                                   TRANS
TRTABLE                                 PF10
PF10                                    TSQUEUES
SVALIST



F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

The following table describes the fields on the CMDLIST Detail panel. You can overtype any of these fields to change the command list.

Field	Description
Name	Name of the command list. Changing the Name field does **not** rename the command list; it creates a new command list.
Transfer	One of the following: ■ The name of a command list to be invoked when the first command list has executed. This allows several command lists to be chained together. ■ A blank field, indicating that the command list is to re-invoke itself. ■ NO or STOP, indicating that the command list is to be invoked only once.
Description	Description of the command list.
Commands	Commands in the command list. The commands are executed in order beginning with the first command in the left column, then the first command in the right column, then the second command in the left column, and so on.

Saving a Command List

Do either of the following to save a command list:

- Press F10 on the CMDLIST Detail panel
- Enter **SAVE** on the command line of the CMDLIST Detail panel

Deleting a Command List

Enter **DELETE** on the command line of the CMDLIST Detail panel for the command list you want to delete, or enter the **D** margin command next to the command list on the CMDLIST panel.

CONFIG Panel

The CONFIG panel allows you to display and update configuration options.

The options you set from this panel remain in effect until Unicenter CA-Explore for CICS is reinitialized. Permanent configuration options can be set in configuration option override members.

For a detailed description of each configuration option and an explanation of how to set options, see the chapter titled "Configuration Options." See the section Making Current Configuration Option Settings Permanent later in this guide for an explanation of how to make the current configuration option settings permanent by writing them to the configuration override member.

Menu Access

On the /CONFIG menu, cursor-select the CONFIG option.

Command Access

Enter **CONF** or **CONFIG** on the command line of any Unicenter CA-Explore for CICS panel.

Command Syntax and Operands

```
CONFig [name] [SYS|USER|CICS|DATA|NOCHG|MSTR]
```

Operand	Description
name	String specifying the configuration options to be displayed. You can include generic characters in the string, as explained in the chapter titled "Using Unicenter CA-Explore Performance Management for CICS." If you do not specify the options to be displayed, all configuration options are displayed.
SYS	Display all Unicenter CA-Explore for CICS configuration option settings.
USER	Display only user profile settings.
CICS	Display only settings of configuration options that require CICS to be active.
DATA	Display only settings of configuration options related to data collection.
NOCHG	Display only settings of configuration options that cannot be changed after Unicenter CA-Explore for CICS initializes.
MSTR	Display only settings of configuration options that are valid only in a master region.

Sample Panel

```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS  FAQS       2003/07/09 13:36:30
 ==>                                                                  CONFIG
                              Configuration Options                1:16/91-DATA

 NAME                          Value     Type       CICS  Data Nochg Mstr Mod
 ACTIVITY-HOUR1                0         Numeric               NoChg
 ALARM-DISABLE                 No        Yes/No
 ALTER-MESSAGES                Yes       Yes/No
 ARCHIVE-FULL-MESSAGE          30        Numeric                    Mstr
 AUTO-DURATION                 60        Numeric
 AUTO-REFRESH-TIME             5         Numeric
 BTAM-TERMINAL-COUNT           5         Numeric               NoChg
 BTAM-TERMINAL-01              5         Numeric               NoChg
 BTAM-TERMINAL-02              6         Numeric               NoChg
 BTAM-TERMINAL-03              7         Numeric               NoChg
 BTAM-TERMINAL-04              8         Numeric               NoChg
 BTAM-TERMINAL-05              9         Numeric               NoChg
 BTAM-TERMINAL-06              0         Numeric               NoChg
 BTAM-TERMINAL-07              0         Numeric               NoChg
 BTAM-TERMINAL-08              0         Numeric               NoChg
 BTAM-TERMINAL-09              0         Numeric               NoChg

  F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
  F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Name	Name of the configuration option. On color monitors, the name is displayed in turquoise if the option has been changed since Unicenter CA-Explore for CICS was initialized.
Value	Current value of the configuration option. Options that you can change are displayed in yellow.
Type	Input parameter type: Character — Alphanumeric Char/Num — Either alphanumeric or numeric Hex — Hexadecimal HH:MM:SS — Hours, minutes, and seconds Numeric — Numeric Yes/No — Either Yes or No
CICS	A value of CICS indicates that the option is valid only in a CICS region.
Data	A value of Data indicates that the option is a data collection option.
NoChg	A value of NoChg indicates that the option value can be changed in configuration override members only. See the chapter titled "Configuration Options" for information about changing the values of these options.
Mstr	If an entry appears in this field, the option is valid only in a master region.
Mod	Yes appears if the option has been changed since Unicenter CA-Explore for CICS was initialized, or if the current option setting is different from the default value.

Making Current Configuration Option Settings Permanent

You can use the CONFIG UPDATE command to save the current configuration option settings to the configuration override member when Unicenter CA-Explore for CICS is shut down.

Command Syntax and Operands

```
CONFIG UPDATE [member]
```

Operand	Description
member	Name of the configuration override member to be updated with the configuration option settings in effect at shutdown. If you do not specify a member name, member $CNFIG*xx*.P is updated, where *xx* is the ID for the region.

CONFIG User Panel

The CONFIG USER panel allows you to display user profile settings.

The options you set from this panel remain in effect until you change them.

Menu Access

There is no menu access to this panel.

Command Access

Enter **CONF USER** or **CONFIG USER** on the command line of any Unicenter CA-Explore for CICS panel.

Command Syntax

```
CONFig USER
```

Sample Panel

```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS  FAQS       2003/07/09 13:36:30
==>                                                                   CONFIG
                             Configuration Options                 1:16/17-DATA

NAME                          Value     Type       CICS  Data Nochg Mstr Mod
USER-ALIGN                    N         Character
USER-AUTO-DURATION            60        Numeric
USER-AUTO-REFRESH-TIME        00:00:05  HH:MM:SS
USER-BWZ                      Yes       Yes/No
USER-CMDLIST                            Character
USER-COLOR                    No        Yes/No
USER-COMMAND-INITIAL          MENU      Character
USER-COMMAND-OPTION                     Character
USER-DISPLAY-SCROLL           Yes       Yes/No
USER-HILIGHT                  No        Yes/No
USER-MSCROLL-VALUE            256       Numeric
USER-PFKEYS                   Yes       Yes/No
USER-PLOT-BAR                 O         Character
USER-PLOTLIST                 ACTIVITY  Character
USER-SCALE                    No        Yes/No
USER-SCROLL-VALUE             DATA      Char/Num

F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

The fields on this panel have the same meanings as the corresponding fields on the CONFIG panel, except for NAME. On the CONFIG User panel, NAME lists the configuration options for your user profile only. (On the CONFIG panel, NAME lists all of Unicenter CA-Explore for CICS configuration options.)

OPTIONS Panel

The OPTIONS panel lists a summary of configuration option settings.

Menu Access

On the /CONFIG menu, cursor-select the OPTIONS option.

Command Access

Enter **OPTIONS** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Panel

```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS  FAQS       2003/07/09 13:36:30
==>                                                                   OPTIONS
                                Monitor Options

Monitor Summary         Auto Command Summary     Program Storage Summary
Start Time  00:00:00    Refresh Time 00:00:05    GETVIS24        0     24550
End Time    24:00:00    Max Duration       60    GETVIS31  1024000    253387
Primary          100 %  Initial      MENU        Compress      Yes
Secondary        100 %  Option
System Interval    5
Run Time    11:02:09









Overtype values to modify
F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

The tables that follow describe fields in the following panel columns:

- Monitor Summary
- Auto Command Summary
- Program Storage Summary

Panel Field Descriptions: Monitor Summary

Field	Description
Start Time	Time of day when primary monitoring begins
End Time	Time of day when primary monitoring ends
Primary	Percentage of monitoring between primary start and end times
Secondary	Percentage of monitoring outside primary start and end times
System Interval	Interval in minutes in which system data is collected
Run Time	Elapsed time that monitor has been active

Panel Field Descriptions: Auto Command Summary

Field	Description
Refresh Time	Time delay in automatic redisplay mode. The minimum is 3 seconds.
Max Duration	Maximum time automatic redisplay will operate, 0-99999 minutes. The value 0 indicates an unlimited time frame.
Initial	Initial command to be executed
Option	Initial command option

Panel Field Descriptions: Program Storage Summary

Field	Description
GETVIS24	Maximum amount of program storage to be used below the 16M line, and current amount of program storage in use
GETVIS31	Maximum amount of program storage to be used above the 16M line, and current amount of program storage in use
Compress	Whether Unicenter CA-Explore for CICS program storage compression is active

Related Configuration Options

- INITIAL-COMMAND
- INITIAL-OPTION
- PERFORMANCE-PRI-PCT
- PROGRAM-STORAGE-GETVIS24
- PROGRAM-STORAGE-GETVIS31
- PROGRAM-COMPRESSION
- SYSTEM-INTERVAL
- EXPCAUXT-ACTIVE
- EXPCAUXT-TRACE-ALL
- EXPCAUXT-TRAN
- EXPCAUXT-TERMINAL
- EXPCAUXT-AUTO-ACTIVE

PLOTLIST Panel

The PLOTLIST panel lists all predefined plot lists.

Menu Access

On the /CONFIG menu, cursor-select the PLOTLIST option.

Command Access

Enter **PLOTL** or **PLOTLIST** on the command line of any Unicenter CA-Explore for CICS panel.

Command Syntax and Operands

```
PLOTList [plotlist]
         LOAD member
```

Operand	Description
plotlist	String specifying the plot lists to be displayed. You can include generic characters in the string, as explained in the chapter titled "Using Unicenter CA-Explore Performance Management for CICS." If you do not enter a value for *plotlist*, all plot lists are displayed.
member	Specifies the name of a member to be loaded from parmlib.

Sample Panel

```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS  FAQS       2003/07/09 13:36:30
==>                                                                  PLOTLIST
                    CA-Explore for CICS Plot Lists                 1:16/17-DATA
   Name      Description
_  ACTIVITY  TRANUSE - LIFETIME  ALL REGIONS
_  A1
_  CATEGORY  CLASS CATEGORIES - SHORT, MEDIUM, LONG
_  COMPDAY   COMPARE TODAY AGAINST YESTERDAY 8-5
_  COMPWEEK  COMPARE TODAY AGAINST 7 DAYS AGO 8-5
_  DAILY     DAILY ACTIVITY - CURRENT, 8-5, 24HRS
_  DAILY-1   DAILY ACTIVITY - CURRENT, 8-5, 24HRS
_  DEFAULTS  DEFAULT PLOT LIST
_  PLOT1     PLOT 1 SCREEN
_  PLOT2     PLOT 2 SCREENS
_  PLOT2H    PLOT 2 SCREENS HORIZONTAL
_  PLOT2V    PLOT 2 SCREENS VERTICAL
_  PLOT3     PLOT 3 SCREENS
_  PLOT3H    PLOT 3 SCREENS HORIZONTAL
_  PLOT3V    PLOT 3 SCREENS VERTICAL
_  PLOT4     PLOT 4 SCREENS
F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Name	Name of the plot list
Description	Description of the plot list

Panel Field Descriptions: Input Fields

The input fields in the body of the PLOTLIST panel let you change the following information:

Field	Description
Name	Name of the plot list. Typing over the Name field does **not** rename the plot list; it creates a new plot list.
Description	Description of the plot list. Type over this description to change it.

Margin Commands

Command	Description
S	Displays the PLOTLIST Detail panel for the plot list you select and allows changes.
D	Deletes the plot list you select.
P	Plots variables specified in the plot list you select.

Creating a New Plot List

To create a new plot list, enter **NEW *plotlist*** on the command line at the top of the panel, where *plotlist* is the name to be assigned to the plot list. If you do not specify a plot list name and you are logged on, your user ID is used. If you are not logged on, your terminal ID is used as the plot list name. A blank PLOTLIST Detail panel is displayed, on which you can define the new plot list.

Another way to create a new plot list is to overtype the Name field on any PLOTLIST Detail panel. The plot list whose name you overtype is not renamed, but a new plot list is created. You can then save the new plot list definition.

PLOTLIST Detail Panel

The PLOTLIST Detail panel displays plot definitions in the plot list you selected from the PLOTLIST panel.

Access

On the PLOTLIST panel, cursor-select a plot list.

Sample Panel

```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS  FAQS       2003/07/09 13:36:30
==>                                                                  PLOTLIST
                           Comparison Plot Lists
Name = CPU       Description = COMPARE VSE CPU% AND CICS JOB CPU%
+-------------------------------------+-------------------------------------+
| => X          Plot 1                | => _           Plot 2               |
|                                     |                                     |
| Variable Resource Resource Scale... | Variable Resource Resource Scale... |
| CPU%     $SYSTEM$          MAX      |                             MAX     |
|                                     |                                     |
| TRANUSE  *                 MAX      |                             MAX     |
|                                     |                                     |
+-------------------------------------+-------------------------------------+
| => _           Plot 3               | => _           Plot 4               |
|                                     |                                     |
| Variable Resource Resource Scale... | Variable Resource Resource Scale... |
| CPU%JOB  $SYSTEM$          MAX      |                             MAX     |
|                                     |                                     |
|                            MAX      |                             MAX     |
|                                     |                                     |
+-------------------------------------+-------------------------------------+

F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Save     F11=         F12=Exit
```

Panel Field Descriptions: Input Fields

The following input fields on the PLOTLIST Detail panel let you define plots:

Field	Description
X	Specifies whether a plot on the plot list is to be displayed and what form the plot will take. Leave this field blank to prevent a plot from being displayed. Specify S to display the plot when the plot list is displayed. If only a single plot is to be displayed, it is displayed as a full-panel plot by default. If two plots are to be displayed, both are displayed as horizontal plots. If three or four plots are to be displayed, all are displayed as quarter-panel plots. You can change the default form of plots displayed on two-plot and three-plot displays by specifying one of the following: H On a two-plot display, both plots will be in horizontal form. On a three-plot display, the first plot on the list is displayed in horizontal form (regardless of which plot on the list has H specified). V On a two-plot display, both plots will be in vertical form. On a three-plot display, the last plot on the list is displayed in vertical form (regardless of which plot on the list has V specified). Specify either H or V only once on each PLOTLIST Detail panel. If you specify both H and V on the same PLOTLIST Detail panel, only the last H or V takes effect.
Name	Name of the plot list. Changing the Name field does **not** rename the plot list; it creates a new plot list.
Variable	The variable corresponding to the data to be plotted. Enter **COMMAND VARIABLE** on the command line to display a list of variables.
Scale	Maximum scale value. Enter one of the following: MAX Sets the maximum scale value to the highest value found. MAX is the default. AVE Sets the maximum scale value to average the value found. *nnn* Sets the maximum scale value to the specified value.

Saving a Plot List

Do either of the following to save a plot list:

- Press F10 on the PLOTLIST Detail panel
- Enter **SAVE** on the command line of the PLOTLIST Detail panel

Deleting a Plot List

To delete a plot list, enter **DELETE** on the command line of the PLOTLIST Detail panel for the plot list you want to delete, or enter the **D** margin command next to the plot list on the PLOTLIST panel.

PROFILE Panel

The PROFILE panel lists the option settings for the user logged on to the current session on the terminal on which the PROFILE panel is accessed. If you are not logged on to Unicenter CA-Explore for CICS, the PROFILE panel displays the default option settings (as defined by configuration options).

Changing Profile Settings

The first time a user accesses Unicenter CA-Explore for CICS, the option settings default to the values defined by Unicenter CA-Explore for CICS configuration options. You can overtype some settings on this panel to modify the profile. Changes you make are saved when you log off.

If you are not logged on to Unicenter CA-Explore for CICS, changes you make to the PROFILE panel are not saved when you log off; changed settings will remain active only during the current session.

Menu Access

On the /CONFIG menu, cursor-select the PROFILE option.

Command Access

Enter **PROFILE** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Panel

```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS  FAQS       2003/07/09 13:36:30
==>                                                                  PROFILE
                              User Profile Values
User Info          Auto Command Summary    Scrolling       Terminal
Userid  USER0001   Refresh Time 00:00:05   Scroll   DATA   Color    NO
Terminal L03N45F   Max Duration       60   Caps     NO     Hilight  NO
Region   CICS21A   Command List AUTOCMD1   PFkeys   Yes    Primary   24 X 80
Session  VTAM                             Display  No     Alternate 24 X 80
VSE ID   DEVTST2                          Mscroll  000100
                                          Align    NONE

Overtype values to modify
F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions: User Info

You cannot change the fields in this section of the panel.

Field	Description
Userid	ID of the user who is logged on to the session in which the PROFILE panel is accessed
Terminal	Terminal ID of the terminal being used
Region	Current region being monitored
Session	Environment from which Unicenter CA-Explore for CICS was accessed
VSE ID	Name of the VSE machine (if under VM)

Panel Field Descriptions: Auto Command Summary

You can change the values in the following fields by overtyping the existing value. To save the new profile settings, press Enter before exiting this panel.

Field	Description
Refresh Time	Time delay in automatic redisplay mode.
Max Duration	Maximum time automatic redisplay will operate (0 - 99999 minutes). The value 0 indicates unlimited time.
Command List	Default command list to be executed.

Panel Field Descriptions: Scrolling

You can change the values in the following fields by overtyping the existing value. You need to type only the characters shown in uppercase. To save the new profile settings, press Enter before exiting the panel.

Field	Description
Scroll	Default scrolling value. Specify Page, Half, Data, or *nnnn* (you must overtype all four characters of the existing value if you use *nnnn* to specify a number of lines). Refer to the description of the SCROLL command in the chapter titled "Function Commands" for more information on changing scrolling values for the duration of the current session only.
Caps	Display Unicenter CA-Explore for CICS panels in uppercase letter only. Specify Yes or No.
PFkeys	Display F-key lines. Specify Yes or No.
Display	Display the default scrolling value on Unicenter CA-Explore for CICS panels. Specify Yes or No.
Mscroll	Default memory scrolling value, in hexadecimal.
Align	Default alignment for virtual storage displays. Specify None, Halfword, Fullword, Doubleword, or Page. Refer to the description of the ALIGN command in the chapter titled "Function Commands" for information about changing the default alignment value for the current session only.

Panel Field Descriptions: Terminal

You can change the values in the Color and Hilight fields by overtyping the existing value. You need to type only the characters shown in uppercase. To save the new profile settings, press Enter before exiting the panel.

Field	Description
Color	Display color. Specify Yes or No.
Hilight	Display extended highlighting. Specify Yes or No.
Primary	Primary panel size.
Alternate	Alternate panel size.

THRESHOL Panel

The THRESHOL panel displays Unicenter CA-Explore for CICS threshold information. See the chapter titled "Performance Thresholds" for information on setting thresholds.

To define a threshold, see Defining a New Threshold later in this section. To make the current configuration option settings permanent, see Making Current Configuration Option Settings Permanent later in this section, where you will find a description of how to make the current threshold settings permanent by writing them to threshold override members.

Menu Access

On the /CONFIG menu, cursor-select the THRESHOL option.

Command Access

Enter **THRES** or **THRESHOL** on the command line of any Unicenter CA-Explore for CICS panel.

Command Syntax and Operands

```
THREShol [name] [ACTIVE] [TRIGger] [SYStem]
```

Operand	Description
name	String specifying the thresholds be displayed. You can include generic characters in the string, as explained in the chapter titled "Using Unicenter CA-Explore Performance Management for CICS." If you do not specify the thresholds to be displayed, all thresholds are displayed.
ACTIVE	Displays only active thresholds, which have defined limits greater than zero.
TRIGger	Displays all triggered thresholds. Thresholds displayed can include those not currently active. Inactive thresholds have defined limits equal to zero.
SYStem	Displays system thresholds.

Sort Arguments

- CLASS
- EVENT
- LIMIT
- RESOURCE
- THREShold
- TYPE

Sample Panel

```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS  FAQS       2003/07/09 13:36:30
==>                                                                  THRESHOL
                        CA-Explore for CICS Thresholds             1:16/186-DATA
                                    230 Triggered
Name      Resource Resource    Limit  Pct  Count Class Type  Int Can Msg Log
ABENDS    *        *               1   75        Count Upper End No  Yes Yes
ABENDS    C*       *               1   75      1 Count Upper End No  Yes Yes
ABENDS    EXPC     *               1   75        Count Upper End No  Yes Yes
ABENDS    P*       *               1   75        Count Upper End No  Yes Yes
ATTACH    *        *               0   75        Count Upper End No  No  Yes
AUXTCNT   $SYSTEM$             5000   75        Count Upper Sys No  Yes Yes
BMSWAIT   *        *               0   75        Count Upper End No  No  Yes
BYTESR    *        *               0   75        Count Upper End No  No  Yes
BYTESW    *        *               0   75        Count Upper End No  No  Yes
CICSWAIT  *        *               0   75        Count Upper End No  No  Yes
CMDLERRS  *        *               0   75        Count Upper End No  No  Yes
CMDLREQS  *        *               0   75        Count Upper End No  No  Yes
CMDLTIME  *        *           0.000   75        Time  Upper End No  No  Yes
CMDUSE    *        *               0   75        Count Upper End No  No  Yes
CPU%      $SYSTEM$               90   75    229 Pct   Upper Sys No  No  Yes
CPURATE   $SYSTEM$           0.000   75        Time  Upper Sys No  Yes Yes
Overtype values to modify
F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Name	Threshold name.
Resource	Resource to be monitored for the threshold. System thresholds have a resource defined as $SYSTEM$. A transaction ID appears in this field for other types of thresholds. The second Resource field specifies a second resource to be monitored. This field can be a terminal ID, a filename, or other resource, depending on the threshold.
Limit	Threshold limit value. If the Class is Time, the limit value is in milliseconds. A limit value of zero deactivates the threshold.
Pct	Percentage of the threshold limit value at which you want a warning to be issued. On color monitors, the warning condition is indicated when the color in which the threshold is displayed changes to yellow; on monochrome monitors, the word Warning appears. A warning indicates that a percentage of the threshold limit value has been reached, **not** that the threshold has been triggered.
Count	Number of times the threshold was triggered.

Field	Description	
Class	Threshold class, as follows:	
	Count	The limit is a number of occurrences.
	Time	The limit is a length of time.
	Pct	The limit is a percentage.
	%	The limit is a percentage.
	Rate	The limit is a rate per second.
Type	Threshold type, as follows:	
	Upper	Upper limit: the threshold is triggered when the Limit value is exceeded.
	Lower	Lower limit: the threshold is triggered when a value below the Limit value is detected.
Int	When the threshold is to be checked, as follows:	
	END	Check threshold at task end.
	DYN	Check threshold dynamically each time a transaction is dispatched.
	SYS	Check at system intervals, as defined by the SYSTEM-INTERVAL configuration option.
Can	Whether to cancel or suspend the task if the threshold is triggered, as follows:	
	Yes	Cancel the task.
	No	Do not cancel the task.
	Sus	Suspend the task.
Msg	Whether to issue a message if the threshold is triggered, as follows:	
	Yes	Issue a message to the console.
	No	Do not issue a message.
Log	Whether to log the threshold if it is triggered, as follows:	
	Yes	Log the threshold to the archive and flashback files.
	No	Do not log the threshold.

Displaying Additional Fields

Additional fields you can display by pressing F10 are as follows:

Field	Description
Post	Action to take if the threshold is triggered, as follows: Yes — Post an event to FAQS/ASO or FAQS/PCS. The default event name is the threshold name. No — Take no action. Cmd — Issue the command specified in the Event field.
Event	Name of the event to process if the threshold is triggered. If the value in the Post field is Yes, the event is posted to FAQS/ASO or FAQS/PCS. The default event name is the threshold name. If the value in the Post field is Cmd, the value in the Event field is issued as a command. The following are the valid commands that can appear in this field: EXPCAUXT — Activates auxiliary tracing for the transaction. FREEZE — Stops execution of CICS. TASKSUSP — Suspends the transaction.
Value	Value last triggering the threshold.
Count	Number of times the threshold has been triggered.
Time	Time the threshold was last triggered.
Term	Terminal last triggering the threshold.
Tran	Transaction last triggering the threshold.
Task#	Task number last triggering the threshold.

Related Configuration Options

- THRESHOLD-MEMBER
- THRESHOLD-SYSTEM

Related Command

VARIABLES

Defining a New Threshold

You can use the THREShol command to define a new threshold to be added to the THRESHOL panel.

Thresholds added in this way take effect immediately, but are temporary. When Unicenter CA-Explore for CICS is reinitialized, the thresholds defined in threshold override members are used.

Command Syntax and Operands

```
THREShol ADD name [resource1 resource2 limit pct type int]
```

Operand	Description
name	Name of the threshold to be added. Enter **VAR** on the command line, or see the appendix "Variables" for descriptions of all Unicenter CA-Explore for CICS variables.
resource1	A string specifying a resource to be monitored for the threshold. If the threshold is checked at system intervals, specify $SYSTEM$. Otherwise, specify a transaction ID. You can include generic characters in the string, as explained in the chapter titled "Using Unicenter CA-Explore Performance Management for CICS."
resource2	A string specifying a second resource to be monitored for the threshold. The resource can be a terminal ID, filename, or some other resource, depending on the threshold. For example, you could specify a filename if you are defining the FILEREQS threshold. You can include generic characters in the string, as explained in the chapter titled "Using Unicenter CA-Explore Performance Management for CICS."
limit	Limit for the threshold. Specify a count, time in seconds (up to three decimal places), percent, or number per second at which you want the threshold to be triggered. A limit of zero (0) disables the threshold.

Operand	Description
pct	Percentage of the threshold value at which a warning condition is to be indicated. The warning condition is indicated when the threshold is displayed in yellow on a color monitor; on monochrome monitors, the word *Warning* appears. A warning indicates that a percentage of the threshold limit value has been reached, **not** that the threshold has been triggered.
type	Type of threshold limit. Specify UPPER to indicate that the threshold will trigger when resource usage exceeds the limit, or specify LOWER to indicate that the threshold will trigger when resource usage falls below the limit.
int	Interval at which resources are checked for the threshold. Specify END to check the resource at the end of tasks, DYN to check the resource when the transaction is dispatched, or SYS to check the resource at system intervals.

When you issue this command from the THRESHOL panel, it is not necessary to enter **THREShol** as part of the command.

Examples

The following are examples of the THREShol ADD command entered on the THRESHOL panel:

```
ADD CPUTIME CEDA * .750 75 UPPER END
ADD CPUTIME CEMT
```

The following are examples of the THREShol ADD command entered on panels other than the THRESHOL panel:

```
THRES ADD RESPTIME C*
THRES ADD FILEREQS C* DFH* 150
```

Making Current Threshold Settings Permanent

You can use the THREShol UPDATE command to save the current threshold settings to the threshold override member at shutdown.

Command Syntax and Operands

```
THREShol UPDATE [member]
```

Operand	Description
member	Name of the threshold override member to be updated with the threshold settings in effect at shutdown. If you do not specify a member name, the member name specified by the THRESHOLD-UPDATE-MEMBER configuration option is used. If no member is defined by that configuration option, the member specified by the THRESHOLD-MEMBER configuration option is used. If the member name specified in the configuration option is *name*??, the member named *nameid*.P is used, where *name* is the same as in the configuration option and *id* is the ID for the region.

UMBRELLA Panel

The UMBRELLA panel displays Unicenter CA-Explore for CICS umbrella transaction definitions. You can also use the UMBRella command to add or change umbrella transaction definitions.

You can direct Unicenter CA-Explore for CICS to sample long-running transactions or to gather statistics at terminal-write time for conversational tasks.

If you are using a fourth-generation language transaction, such as CSP, you can direct Unicenter CA-Explore for CICS to display statistics by application name rather than the fourth-generation language name.

You can also use the Unicenter CA-Explore for CICS monitor exit interface to collect information about a transaction from fourth-generation language transactions. See the chapter titled “Using the Unicenter CA-Explore for CICS Monitor Exit Interface” for more information.

Note: The configuration option UMBRELLA-GENERIC must be set to Yes before you can use generic transaction names.

Menu Access

On the /CONFIG menu, cursor-select the UMBRELLA option.

Command Access

Enter **UMBR** or **UMBRELLA** on the command line of any Unicenter CA-Explore for CICS panel.

Command Syntax and Operands

```
UMBRella tran
```

Operand	Description
tran	String specifying the umbrella transactions to be displayed. You can include generic characters in the string, as explained in the chapter titled "Using Unicenter CA-Explore Performance Management for CICS." If you do not specify an umbrella transaction to be displayed, all umbrella transactions are displayed.

Sample Panel

```
CA-Explore for CICS 7.0 0204  DEVCICS4 DB2CICS  FAQS       2003/07/09 13:36:30
==>                                                                 UMBRELLA
                            Umbrella Transactions                 1:4/4-DATA
Tran Time Options
CEBR  n/a Converse
CECI  n/a Converse
CEDA  n/a Converse
CEMT  n/a Converse

F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Tran	Transaction ID. You can include generic characters in the string, as explained in the chapter titled "Using Unicenter CA-Explore Performance Management for CICS."
Time	The sampling time, in minutes, used with the Sample option.
options	One or more of the following umbrella options: BYPASS Directs Unicenter CA-Explore for CICS to stop collection of statistics for the specified transaction. Converse The task is conversational. Unicenter CA-Explore for CICS collects statistics at terminal-write time. EXCLUDE Unicenter CA-Explore for CICS does not collect statistics for the task. LONGPGM The task is defined as the longest running program. Unicenter CA-Explore for CICS collects statistics under the name of the longest running program. NOBYPASS Directs Unicenter CA-Explore for CICS not to bypass collection of statistics for the specified transaction. NOCONV The transaction is not conversational. NOLOG Directs Unicenter CA-Explore for CICS to collect statistics, but not to log data.

Field	Description
options (continued)	NONE Indicates that Unicenter CA-Explore for CICS is to use no umbrella options. Sample Unicenter CA-Explore for CICS collects statistics by sampling the task. The sampling time is displayed in the Time field. USER The transaction uses the umbrella interface provided with Unicenter CA-Explore for CICS. The program ID provided by the user trace call replaces the transaction ID. XCTL For this task, Unicenter CA-Explore for CICS segments task information when control transfers between programs. The following umbrella option may also be displayed. For this option, Unicenter CA-Explore for CICS collects statistics by application ID: CSP The task is a Cross System Product task.

Adding or Changing Umbrella Transaction Definitions

Enter **UMBR** or **UMBRELLA** using the following syntax on the command line of any Unicenter CA-Explore for CICS panel to add or change an umbrella transaction definition.

Command Syntax and Operands

```
UMBRella {ADD|CHG} tran options
```

Operand	Description
ADD	Adds the umbrella transaction specified by the *tran* operand, with any options specified. Additions are temporary and last only until Unicenter CA-Explore for CICS is reinitialized.
CHG	Changes the options of the umbrella transaction specified by the *tran* operand to those specified by the *options* operand. Additions are temporary and last only until Unicenter CA-Explore for CICS is reinitialized.
tran	String specifying the umbrella transactions to be added or changed. You can include generic characters in the string, as explained in the chapter titled "Using Unicenter CA-Explore Performance Management for CICS."
options	Specifies options for an added or changed UMBRELLA transaction. Specify one or more of the following options: BYPASS Stops collecting statistics for the specified transaction. CICSPGM Sets the umbrella name to the name of the initial CICS program. CONV Defines the task as a conversational transaction. Unicenter CA-Explore for CICS collects statistics at terminal-write time. CSP Defines transaction as a Cross System Product transaction. Unicenter CA-Explore for CICS collects statistics by application ID. EXCLUDE Stops recording statistics in the archive and flashback files for the specified transaction. Statistics are collected, but not written to the archive and flashback files.

Operand	Description
options (continued)	LONGPGM Defines the task as the longest running program. Unicenter CA-Explore for CICS collects the statistics under the name of the longest running program. NOBYPASS Do not bypass collecting statistics for the specified transaction. NOCONV Defines the transaction as non-conversational. NOLOG Collect statistics, but do not log data. NONE Use no umbrella options. SAMP time Defines tasks for which statistics are collected by sampling. Replace *time* with the sampling time in minutes following the SAMPLE option. USER Specifies that the transaction uses the umbrella interface provided with Unicenter CA-Explore for CICS. The program ID provided by the user trace call will replace the transaction ID. XCTL Segment transaction collection at each transfer of control between programs.

Chapter

13 /EXPLORE Menu Options

This chapter explains the /EXPLORE menu, which you can use to display information about Unicenter CA-Explore for CICS modules, active sessions, users, and so on.

Note: This chapter discusses the uses of Unicenter CA-Explore for CICS with CICS Version 2.3 (CICS 2.3) and CICS Transaction Server Version 1.1 (TS 1.1). Unless a distinction is noted, the information applies to both versions.

/EXPLORE Menu

The /EXPLORE menu lists the commands you can issue to display the following:

- Character sets that can be displayed on a terminal
- Information about Unicenter CA-Explore for CICS modules
- Information about Unicenter CA-Explore for CICS performance data collection
- Information about all logical Unicenter CA-Explore for CICS sessions allocated to an active session
- Information about Unicenter CA-Explore for CICS users

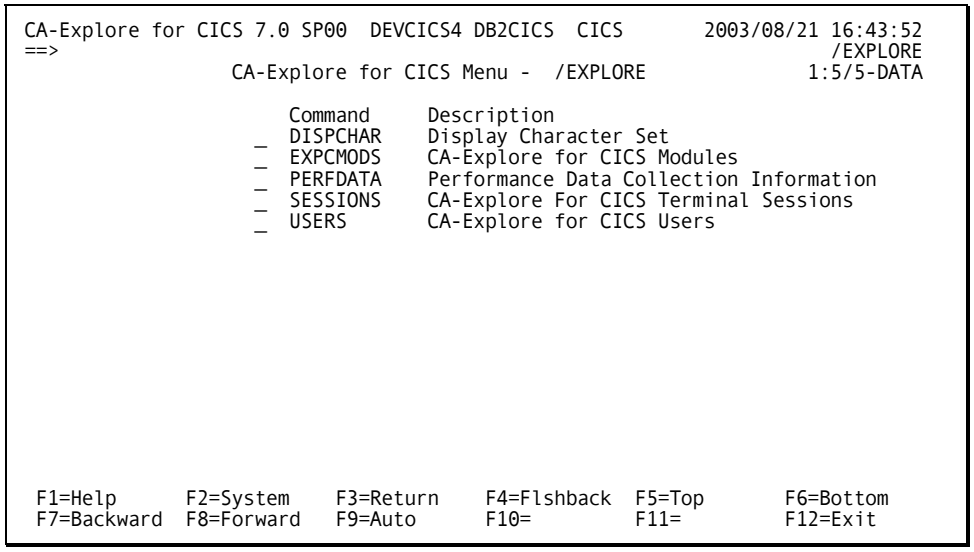
Menu Access

- On the Unicenter CA-Explore for CICS Main menu, cursor-select the /EXPLORE option.
- Type any character (except H) in the space provided to the left of the command and press Enter.

Command Access

Enter **/EX** or **/EXPLORE** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Menu



Panel Display Options

To display a panel listed on the /EXPLORE menu, cursor-select the option from the menu or enter the corresponding command as shown in the following table:

Command	Displays
DISPCHAR	Character sets that can be used on a terminal
EXPCMODs	Information about all Unicenter CA-Explore for CICS modules
PERFDATA	Information about Unicenter CA-Explore for CICS data collection
SESSions	Information about all logical sessions allocated to an active session
USERS	User information

DISPCHAR Panel

The DISPCHAR panel displays character sets that can be displayed on a terminal. This can be helpful when translating characters from hexadecimal format to character format and back again.

Menu Access

On the /EXPLORE menu, cursor-select the DISPCHAR option.

Command Access

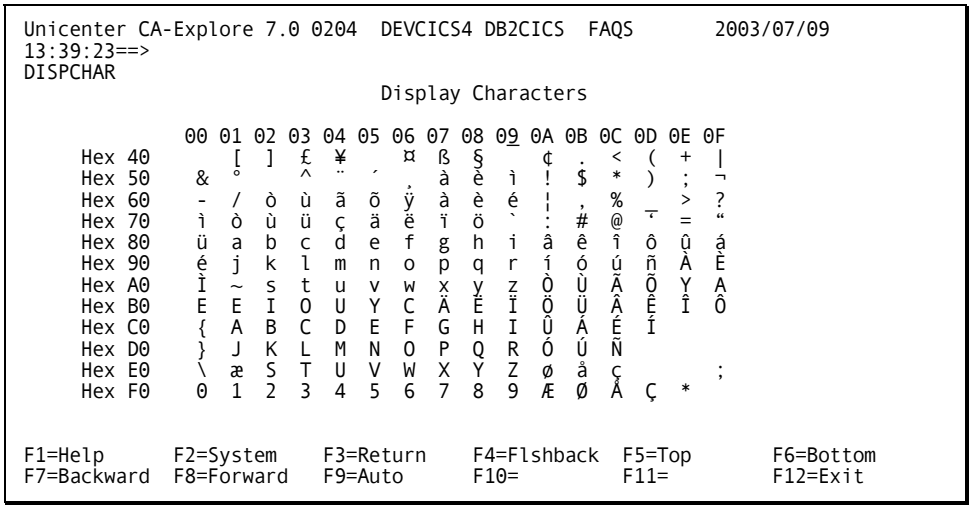
Enter the DISPCHAR command on the command line of any Unicenter CA-Explore for CICS panel.

Command Syntax and Operands

```
DISPCHAR [APL]
```

Operand	Description
APL	Displays the APL character set (graphic characters). If you do not specify a character set, the standard character set is displayed.

Sample Panel



EXPCMODS Panel

The EXPCMODS panel lists information about all Unicenter CA-Explore for CICS modules.

Menu Access

On the Unicenter CA-Explore for CICS menu, cursor-select the EXPCMODS option.

Command Access

Enter the EXPCMODs command on the command line of any Unicenter CA-Explore for CICS panel.

Command Syntax and Operands

```
EXPCMODs [module]
```

Operand	Description
module	String specifying the names of the modules to be displayed. You can include generic characters in the string, as explained in the chapter titled "Using Unicenter CA-Explore Performance Management for CICS." If you do not specify the names of modules to be displayed, all modules are displayed.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS  FAQS       2003/07/09 13:39:23
==>                                                             EXPCMODS
                      Unicenter CA-Explore Modules                1:16/46-DATA
          GETV24  25910   GETV31   225K   DSA  15032   SVA      0
 Module   Address  Length     Date   Time  Version     Use  Loads
 ECDICFG1 811E6B00 000015F1 01/27/93 12.07  6.80        28      1 Compress
 ECDICMDT 811CCEA8 00004C68 02/02/93 11.25  6.80                1
 ECDICMD2 811CA080 000006F6 01/27/93 12.07  6.80         8      1
 ECDICSI0 811E5180 000005B1 01/27/93 12.07  6.80         1      1 Compress
 ECDIDATE 81185980 00000978 02/03/93 19.50  6.80        18      1
 ECDIHLPT 811D9128 00000728 01/27/93 12.10  6.80                1
 ECDIHLP0 811C1880 00000740 01/27/93 12.09  6.80         1      1 Compress
 ECDIHLP1 811D8C00 00000328 01/27/93 12.10  6.80         1      1 Compress
 ECDILIM0 00E23C80 00000E74 01/27/93 12.11  6.80      4677      1
 ECDILIM1 00E23480 0000078A 01/27/93 12.11  6.80       671      1
 ECDIMAP0 811C3500 000007F0 01/27/93 12.11  6.80         2      1 Compress
 ECDIMAP1 811B8500 00002FB1 01/27/93 12.11  6.80         1      1 Compress
 ECDIMISC 00E11000 00003DC4 01/27/93 12.11  6.80      3487      1
 ECDIMODJ 8116C600 00004CC7 01/27/93 12.12  6.80         1      1 Compress
 ECDIMODK 81176880 00003734 01/27/93 12.12  6.80         3      1 Compress
 ECDIMODL 81171300 0000556A 01/27/93 12.12  6.80         2      1 Compress
F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
GETV24	Current program storage in use below the 16M line, in bytes.
GETV31	Current program storage in use above the 16M line, in bytes.
DSA	Current program storage in use from the DSA, in bytes.
SVA	Current program storage in use from the SVA, in bytes.
Module	Program module name.
Address	Address of the module. If the address is highlighted, then the module is not loaded into the private area.
Length	Length of the address, in hexadecimal.
Date	Assembly date.
Time	Assembly time.
Version	Version number.
Use	Number of uses.
Loads	Number of times the module has been loaded. The word Compress following this field indicates that the program can be compressed by the Unicenter CA-Explore for CICS compressions facility, so that GETVIS limits will not be violated.

Margin Command

Command	Description
S	Displays the DISPLAY Panel that shows storage information about the selected module. For information on the panel's content, see the chapter titled "/DISPLAY Menu Options."

PERFDATA Panel

The PERFDATA panel displays information about the data that Unicenter CA-Explore for CICS is collecting.

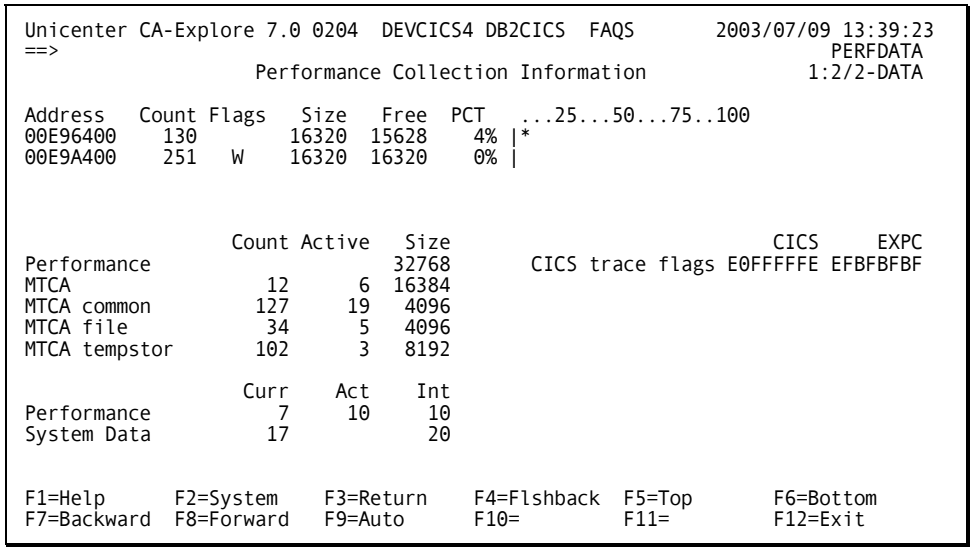
Menu Access

On the /EXPLORE menu, cursor-select the PERFDATA option.

Command Access

Enter **PERFDATA** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Panel



Panel Field Descriptions

Field	Description	
Address	Address of collection buffers (current address is highlighted)	
Count	Use count for buffer	
Flags	F Full	
	W Waiting	
	Q Queued	
Size	Size of buffer	
Free	Amount of free space in buffer	
PCT	Percentage of buffer used, displayed in both numerical and graph format	
Performance	Performance information:	
	Count	Not applicable for performance data
	Active	Not applicable for performance data
	Size	Storage block size
MTCA	MTCA information:	
	Count	Number of MTCAs allocated
	Active	Number of MTCAs in use
	Size	Storage used for MTCAs
MTCA common	MTCA common information:	
	Count	Number of common MTCAs allocated
	Active	Number of common MTCAs in use
	Size	Storage used for common MTCAs
MTCA file	MTCA file information:	
	Count	Number of MTCA file buffers allocated
	Active	Number of MTCA file buffers in use
	Size	Storage used for MTCA file buffers

Field	Description	
MTCA tempstor	MTCA temporary storage information:	
	Count	Number of MTCA temporary storage buffers allocated
	Active	Number of MTCA temporary storage buffers in use
	Size	Storage used for MTCA temporary storage buffers
CICS trace flags	CICS trace flags information:	
	CICS	Trace flags active for CICS
	EXPC	Trace flags active for Unicenter CA-Explore for CICS
Performance	Performance information:	
	Curr	Current sample count
	Act	Percentage active sample count
	Int	Interval sample count
System	System information:	
	Curr	Current system interval
	Act	Not applicable for performance data
	Int	System interval sample count

SESSIONS Panel

The SESSIONS panel displays all logical sessions allocated to an active session. You can cursor-select a session on the SESSIONS panel to access the session, or toggle from session to session by pressing F13.

Menu Access

On the Unicenter CA-Explore for CICS Main menu, cursor-select the SESSIONS option.

Command Access

Enter **SESS** or **SESSIONS** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS  FAQS       2003/07/09 13:39:23
==>                                                                 SESSIONS
                         Unicenter CA-Explore Sessions              1:1/1-DATA
   Terminal Session  Name       Date     Time   Last Command      UserArea
_  D72L080  VTAM           1999/05/20 10:01:14 /EXPLORE SESSIONS 00541000


F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Terminal	Terminal ID
Session	Terminal interface
Name	User ID logged on to the terminal
Date	Date of last activity
Time	Time of last activity
Last Command	Last command executed
UserArea	Address of user area

Related Configuration Option

MULTI-SESSIONS=YES

Related Commands

- ADDSESS
- MONITOR

USERS Panel

The USERS panel lists information about Unicenter CA-Explore for CICS users.

Menu Access

On the Unicenter CA-Explore for CICS menu, cursor-select the USERS option.

Command Access

Enter **USERS** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS  FAQS       2003/07/09 13:39:23
==>                                                                    USERS
                        Unicenter CA-Explore Users                  1:4/4-DATA
Terminal Session  Name       Date     Time   Last Command      UserArea
D72L081  EXPC            1999/05/19 20:23:19 /VSE     CONSOLE  0032B000
D72L081  EXPC            1999/05/19 20:17:01 MONITOR  CICSMROB 00338800
D72L082  EXPC            1999/05/20 09:21:50 /CONFIG           00356000
D72L080  EXPC            1999/05/20 10:04:34 /EXPLORE USERS    00361000



EXPC537I EXPCARC File Is Full.  Please Archive.
F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Terminal	Terminal name
Session	Terminal interface
Name	User ID
Date	Date of last activity by user
Time	Time of last activity by user
Last Command	Last command the user entered
UserArea	Address of user area

Chapter

14 /HELP Menu Options

This chapter explains the HELP menu, which you can use to display such information as descriptions of commands and data collection variables.

Note: This chapter discusses the uses of Unicenter CA-Explore for CICS with CICS Version 2.3 (CICS 2.3) and CICS Transaction Server Version 1.1 (TS 1.1). Unless a distinction is noted, the information applies to both versions.

/HELP Menu

The /HELP menu lists the commands you can issue to display the following:

- Descriptions of available Unicenter CA-Explore for CICS commands
- A list of Unicenter CA-Explore for CICS terminal messages
- A list of Unicenter CA-Explore for CICS help topics
- Descriptions of data collection variables

Menu Access

- On the Unicenter CA-Explore for CICS Main menu, cursor-select the /HELP option.
- Type any character (except H) in the space provided to the left of the command and press Enter.

Command Access

Enter **/HE** or **/HELP** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Menu

```
CA-Explore for CICS 7.0 SP00  DEVCICS4 DB2CICS  CICS       2003/08/21 16:44:29
==>                                                                    /HELP
                  CA-Explore for CICS Menu -  /HELP                 1:4/4-DATA

                      Command     Description
                   _  COMMANDS    Commands Available In CA-Explore for CICS
                   _  MESSAGES    CA-Explore For CICS Terminal Messages
                   _  TOPICS      CA-Explore for CICS Help Topics
                   _  VARIABLE    Data Collection Variables

 F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
 F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Display Options

To display a panel listed on the /HELP menu, cursor-select the option from the menu or enter the corresponding command as listed in the following table:

Command	Displays
COMMANDs	All Unicenter CA-Explore for CICS commands
MESSAGEs	All Unicenter CA-Explore for CICS message numbers and text
TOPICs	A list of help topics
VARiable	Information about Unicenter CA-Explore for CICS variables

COMMANDS Panel

The COMMANDS panel lists all of the Unicenter CA-Explore for CICS commands, their respective subsystems, and their functions.

Menu Access

On the /HELP menu, cursor-select the COMMANDS option.

Command Access

Enter **COMMAND** or **COMMANDS** on the command line of any Unicenter CA-Explore for CICS panel.

Command Syntax and Operands

```
COMMANDs [command] [CHANGE]
```

Operand	Description
command	String specifying the commands you want information about. You can include generic characters in the string, as explained in the chapter titled "Using Unicenter CA-Explore Performance Management for CICS."
CHANGE	Allows default sort arguments to be changed temporarily. The default sort argument can be changed permanently in a command option override member. See the chapter titled "Command Option Overrides" for more information.

If you do not specify a command, the COMMANDs command displays a list of all commands.

Sample Panel

```
Unicenter CA-Explore 7.0 SP00  DEVCICS4 DB2CICS  FAQS       2003/07/09 13:39:23
==>                                                                  COMMANDS
                  Unicenter CA-Explore Commands                  1:16/153-DATA

   Command  Subsys   Sortarg  Sec Ln Description
_  ABENDs   /PROBLEM ID            5 Program Check Abend Trace Table
_  ACTIVITY /STATUS                8 Transaction Activity and Life Time
_  ADDSESS  FUNCTION               8 Add Logical Session
_  AFCB     /DISPLAY               8 Authorized Function Control Block
_  AID      /TABLES                8 Authorized Initiate Descriptor Chain
_  ALIGN    FUNCTION               8 Display Virtual Storage Alignment
_  ALTER    FUNCTION          Yes  8 Display Alter Mode
_  ANALysis /STATUS                4 Degradation Analysis
_  ARTM     /CONFIG  TRAN          8 Automated Response Time Management
_  AUTO     FUNCTION               8 Automatic Redisplay Mode
_  AUTOTIME FUNCTION               8 Set Auto Redisplay Time
_  AUXstor  /STORAGE               3 Temporary Storage Auxiliary Statistics
_  BWZ      FUNCTION               8 Blank When Zero
_  CAPS     FUNCTION               8 Upper Case Translation
_  CAPTURE  FUNCTION          Yes  8 Capture Mode
_  CEMT     FUNCTION          Yes  8 CEMT commands
Options: (S)elect (H)elp
F1=Help      F2=System     F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward    F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Command	Unicenter CA-Explore for CICS command.
Subsys	Unicenter CA-Explore for CICS subsystem of the command functions within.
Sortarg	For commands with more than one sort argument, the default sort argument, if any.
Sec	Yes indicates that the command is secure; blank indicates that it is not secure.
Ln	Number of characters you must enter for Unicenter CA-Explore for CICS to recognize the command as valid. The number 8 indicates that you must enter all characters of the command. Required characters are shown in uppercase in the Command field.
Description	Command's function.

Margin Commands

Command	Description
S	Executes the selected command
H	Displays help for the selected command

MESSAGES Panel

The MESSAGES panel lists Unicenter CA-Explore for CICS messages, sorted by message number.

This panel displays all messages Unicenter CA-Explore for CICS can issue, not messages that have been issued.

Menu Access

On the /HELP menu, cursor-select the MESSAGES option.

Command Access

Enter **MESSAGE** or **MESSAGES** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Panel

```
Unicenter CA-Explore 7.0 SP00  DEVCICS4 DB2CICS  FAQS       2003/07/09 13:39:23
==>                                                                  MESSAGES
                       Unicenter CA-Explore Messages              1:16/194-DATA

Number   Description
EXPC005E GETVIS ERROR R15=__ LENGTH=________
EXPC006I THE STOP COMMAND HAS BEEN ISSUED FOR THE JOB ________
EXPC007I A CANCEL HAS BEEN ISSUED FOR THE TRANSACTION ____ _____ ________ ____
EXPC008I THE JOB _________ IS NO LONGER IN STOP MODE.
EXPC009I A SUSPEND HAS BEEN ISSUED FOR THE TRANSACTION ____ _____ ________ ___
EXPC012E INITIALIZATION TERMINATED. CICS VERSION IS INCOMPATIBLE.
EXPC029I EXPCFIL OPENED READ ONLY.
EXPC030E VSAM ERROR=____ FILE=________
EXPC031E STORAGE VIOLATION OF TCA DETECTED.
EXPC040I CA-Explore FOR CICS NOT STARTED.
EXPC048I CA-Explore FOR CICS TERMINATED
EXPC071E ANCHOR POINT DOES NOT CONTAIN ADDRESS OF MIT
EXPC072E UNABLE TO ALLOCATE SVA STORAGE FOR MIT
EXPC075E RECURSIVE ABEND IN SUBTASK ________
EXPC078E JOBNAME _________ WAS NOT FOUND IN THE MONITOR INITIALIZATION TABLE
EXPC079E NO ENTRIES FOUND IN THE MONITOR INITIALIZATION TABLE

F1=Help      F2=System     F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward    F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Number	Message number.
Description	Text of the message; underscores indicate variable message text.

TOPICS Panel

The TOPICS panel lists topics for which help information is available. For more information about using online help, see the chapter titled "Using Unicenter CA-Explore Performance Management for CICS."

Menu Access

You can access the TOPICS panel from menus in either of the following ways:

- On the /HELP menu, cursor-select the TOPICS option.
- On the Main Menu, select the Help option.

Command Access

Enter **TOPIC** or **TOPICS** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Panel

```
Unicenter CA-Explore 7.0 SP00  DEVCICS4 DB2CICS  FAQS       2003/07/09 13:39:23
==>                                                                   TOPICS
                  Unicenter CA-Explore Help Topics                1:16/266-DATA

   Topic                                                              Member
_  Abend and Cancel codes for VSE                                     ABCODE
_  Active Max Tasks                                                   AMXT
_  CA-Explore for CICS Monitor Exit Interface                         XMEXPC
_  Problem Determination - Auxiliary Storage                          AUXSTOR
_  Problem Determination - Temporary Storage                          TEMPSTOR
_  Selecting information using generic keys                           GENERIC
_  Trace calls and descriptions                                       TRACEIDS
_  User defined help                                                  USERHELP
_  VTAM open error messages                                           VTAMOERR
_  Cmd - ABENDS   - Program Check Abend Trace Table                   ABENDS
_  Cmd - ACTIVITY - Transaction Activity and Life Time                ACTIVITY
_  Cmd - ADDSESS  - Add Logical Session                               ADDSESS
_  Cmd - AFCB     - Authorized Function Control Block                 AFCB
_  Cmd - AID      - Authorized Initiate Descriptor Chain              AID
_  Cmd - AID      - Field Definitions                                 EXPC$009
_  Cmd - AID      - Status Codes                                      EXPC$010

F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Accessing Help for a Topic

Do one of the following to obtain help for a topic:

- Cursor-select a topic to display help information on that topic.
- Enter **HELP *topic*** on the command line of any Unicenter CA-Explore for CICS panel, where *topic* is the name of the topic.

VARIABLE Panel

The VARIABLE panel displays information about Unicenter CA-Explore for CICS variables.

Menu Access

On the /HELP menu, cursor-select the VARIABLE option.

Command Access

Type **VAR** or **VARIABLE** command on the command line of any Unicenter CA-Explore for CICS panel.

Command Syntax and Operands

```
VARiable [variable]
```

Operand	Description
variable	String specifying the variables to be displayed. You can include generic characters in the string, as explained in the chapter titled "Using Unicenter CA-Explore Performance Management for CICS."

If you do not specify the variables to be displayed, the VARiable command displays information about all variables.

Sort Arguments

- NAME
- TYPE
- VARiable

Sample Panel

```
Unicenter CA-Explore 7.0 SP00  DEVCICS4 DB2CICS  FAQS       2003/07/09 13:39:23
==>                                                                 VARIABLE
                  Unicenter CA-Explore Variables                 1:16/206-DATA
Variable  Type        Thresholds   Description
ABENDS    Count       End Dyn      ABEND COUNT
ATTACH    Count       End Dyn      ATTACHES
AUXTCNT   Ave Count           Sys  CA-Explore FOR CICS AUXILIARY TRACE COUNT
BMSWAIT   Ave Count   End Dyn      BMS WAITS
BYTESR    Ave Count   End Dyn      BYTES READ
BYTESW    Ave Count   End Dyn      BYTES WRITTEN
CICSWAIT  Ave Count   End Dyn      CICS WAITS
CMDLERRS  Ave Count   End Dyn      COMMAND LEVEL REQUEST ERRORS
CMDLREQS  Ave Count   End Dyn      COMMAND LEVEL REQUESTS
CMDLTIME  Ave Time    End Dyn      COMMAND LEVEL REQUEST TIME
CMDUSE    Ave Count   End Dyn      COMMAND LEVEL USE
CMPTIME   Ave Time    End Dyn      CICS TRACE COLLECTION TIME
CPU%      Percent           Sys  SYSTEM - CPU PERCENT BUSY
CPU%JOB   Percent           Sys  CPU PERCENT USAGE FOR JOB
CPU%JOB3  Rate              Sys  CPU PERCENT USAGE FOR JOB - 3 DECIMALS
CPURATE   Ave Time          Sys  CPU RATE PER SECOND
F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description	
Variable	Name of the variable	
Type	Type of variable	
Thresholds	If the variable is used as a threshold, when the threshold is checked:	
	End	Check threshold at task end
	Dyn	Check threshold when the task is dispatched
	Sys	Check threshold at system intervals
Description	Description of variable	

Chapter 15

/HISTORY Menu Options

This chapter explains the /HISTORY menu, which allows you to access information about transactions, screen captures, CICS statistics, and system information for a specific job.

Note: This chapter discusses the uses of Unicenter CA-Explore for CICS with CICS Version 2.3 (CICS 2.3) and CICS Transaction Server Version 1.1 (TS 1.1). Unless a distinction is noted, the information applies to both versions.

/HISTORY Menu

The /HISTORY menu lists the commands you can issue to display the following:

- Transaction summary and detail information
- A list of panels captured when the screen capture facility is on
- Summaries of CICS statistics
- Panels showing summary and detail system information about a specific jobname

Menu Access

- On the Unicenter CA-Explore for CICS Main menu, cursor-select the /HISTORY option
- Type any character (except H) in the space provided to the left of the command and press Enter.

Command Access

Enter **/HI** or **/HISTORY** on the command line of any Unicenter CA-Explore for CICS panel**.**

Sample Menu

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 13:44:34
==>                                                                  /HISTORY
                  Unicenter CA-Explore Menu -  /HISTORY             1:4/4-DATA
                        Command     Description
                     _  FLSHBACK    Flashback - Post Problem Determination
                     _  REPLAY      Redisplay Captured Screens
                     _  REVIEW      Statistical Summary
                     _  SYSDATA     Flashback - System Data Collection




F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Menu Display Options

To display a panel listed on the /HISTORY menu, cursor-select the option from the menu, or enter the corresponding command as shown in the following table:

This Command	Displays	Default Sort Argument
FLSHBACK	Transaction summary or detailed information on a specific transaction. The period covered by this data depends on the size of your flashback file and on the types of data you are logging. (See the section Accessing Flashback Summary Panels.)	None
REPLAY	A list of panels captured when the screen capture facility is on. (See the section REPLAY Panel.)	None
REVIEW	Summaries of CICS statistics. (See the section REVIEW Panel.)	None
SYSDATA	Panels showing summary system information or detailed information on a specific jobname. (See the section System Data Collection Panels.)	None

Historical Flashback Summary Panels: FLSHBACK

Flashback summary panels display transaction summary information from the Unicenter CA-Explore for CICS flashback file.

Each summary panel has a corresponding *detail* panel. Detail panels are described in the section Flashback Detail Panels.

Menu Access

On the /HISTORY menu, cursor-select the FLSHBACK option.

Command Access

Enter **FLSHBACK** on the command line of any Unicenter CA-Explore for CICS menu.

Moving Among Flashback Summary Panels

Both the menu and command access methods display the Historical DEFAULT Flashback summary panel (see the section DEFAULT Flashback Panel). Use the following methods to move among flashback summary panels:

- To toggle through summary panels, press F10 or F11.
- To display a specific summary panel, type the name of that panel over the name of the current panel (directly below the Historical Flashback title line) and press Enter.

Each summary panel has a corresponding detail panel. To access a detail panel for a specific summary panel, do one of the following:

- Cursor-select a specific transaction on the summary panel.
- Type the name of the detail panel you want to display over the name of the current panel (directly below the Historical Flashback title line) and press Enter.

Detail panels are described in the section Flashback Detail Panels.

Panel Display Options

The following table lists the flashback summary panels in the order they appear when you use the F10 toggle key.

This Panel	Displays
DEFAULT	Basic information about transactions
ANALYSIS	Percentage of a transaction's lifetime spent executing and spent waiting
CLOCKS	Resource timings
COUNTERS	Various usage counts
THRESHOL	Threshold counts
PROGRAMS	Program usage
DSA	Amount of DSA storage used, by type
FILE	File requests, I/O timings, and file type
FILETIME	Request, I/O timings, and wait timings
FILECNT	Request count by type
FILEWAIT	Wait counts
DLITIME	DL/I requests, I/O timings, and file types
DLIIO	DL/I I/O requests and timings
DLICNT	DL/I request counts by type
SQL	SQL requests, I/O timings and resources
TEMPSTOR	Temporary storage requests and timings
TEMPCNT	Temporary storage requests by type
TDATA	Transient data requests and timings
COMMAND	Command-level requests
EXITRSCE	Exit resource requests and timings
IRC	Inter-region communication requests and timings
ISC	Intersystem communication requests and timings
JOURNAL	Journal requests and timings
SECURITY	External security requests and timings
TABLEMGR	CICS table manager requests and timings

This Panel	Displays
USEREXIT	User exit requests and timings
WAITS	CICS waits by subsystem
UMBRELLA	Umbrella transaction names
OVERHEAD	CICS transaction overhead
TIMES	Start and end times for transactions

Panel Descriptions

Many of the Unicenter CA-Explore for CICS panels pictured in the following sections display the same information and input fields. The information and input fields that are common to all Flashback Summary panels are described only in the next section, DEFAULT Flashback Panel. Fields that are unique to a given panel are described in the topic for that particular panel.

DEFAULT Flashback Summary Panel

The DEFAULT Flashback panel displays historical data for the specified date and time that has been captured and stored in the flashback file.

If you enter the FLSHBACK command, omitting date or time operands, the most recent records are displayed, beginning with records for the current date and time at the bottom of the panel.

Command Syntax and Operands

```
FLSHBACK [fromdate [fromtime]] [todate [totime]]
```

Operand	Description
fromdate	Specifies the beginning date for the range of data to be displayed. Specify in the format *yymmdd*.
fromtime	Specifies the beginning time for the range of data to be displayed. Specify in the format *hhmmss*.
todate	Specifies the ending date for the range of data to be displayed. Specify in the same format you specified for the DATE-FORMAT configuration option.
totime	Specifies the ending time for the range of data to be displayed. Specify in the same format you specified for the DATE-FORMAT configuration option.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:27:46
==>                                                                  FLSHBACK
   Jobname    Date          Historical Flashback      From:2002/02/11 09:15:34
   CICSICCF 2002/02/14              DEFAULT             To:2002/02/14 10:27:39
From: YYMMDD HHMMSS  ..............Selection Criteria.................
     To: YYMMDD HHMMSS
   Jobname    Time   Tran  Task#  Userid   LU-Name      CPU     Resp Abnd Thrs
_  CICSICCF 10:27:39 EXPC  00213  EDP      D08001     0.005    0.014
_  CICSICCF 10:27:44 EXPC  00214  EDP      D08001     0.006    0.043
_  CICSICCF 10:27:50 EXPC  00215  EDP      D08001     0.006    0.137
_  CICSICCF 10:27:53 EXPC  00216  EDP      D08001     0.006    0.015
_  CICSICCF 10:27:54 EXPC  00217  EDP      D08001     0.006    0.041
_  CICSICCF 10:27:56 EXPC  00218  EDP      D08001     0.006    0.014
_  CICSICCF 10:27:57 EXPC  00219  EDP      D08001     0.006    0.040
_  CICSICCF 10:27:59 EXPC  00220  EDP      D08001     0.008    0.010
_  CICSICCF 10:28:01 EXPC  00221  EDP      D08001     0.006    0.040
_  CICSICCF 10:28:02 EXPC  00222  EDP      D08001     0.008    0.009
_  CICSICCF 10:28:37 EXPC  00223  EDP      D08001     0.006    0.169
_  CICSICCF 10:28:39 EXPC  00224  EDP      D08001     0.006    0.102
_  CICSICCF 10:28:42 EXPC  00225  EDP      D08001     0.006    0.014
_  CICSICCF 10:28:43 EXPC  00226  EDP      D08001     0.008    0.010
_

F1=Help      F2=System    F3=Return    F4=Flshback   F5=Continue   F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd  F11=Togl Bwd  F12=Exit
```

Panel Field Descriptions

The information fields on the DEFAULT Flashback panel have the following meanings. Fields having values of zero, or less than 0.001, are displayed as blanks.

Field	Description
Date	Date that the transaction executed.
From:	Earliest date and time of data available for display. This field is located in the upper right corner of the display.
To:	Latest date and time of data available for display. This field is located in the upper right corner of the display.
Jobname	The top Jobname field will show one of the following: ■ An asterisk (*), if you are monitoring a region that is not running CICS (for example, a batch master region) ■ A jobname, if you are currently monitoring a specific CICS region The lower jobname field displays the jobname to which the data on the rest of the line applies.
Time	Transaction end time.
Tran	Transaction ID.
Task#	Transaction number.
Userid	User ID that invoked the task.
LU-Name	VTAM logical unit name or, if the VTAM logical unit name does not exist, the CICS terminal ID.
CPU	Transaction CPU time, in seconds.
Resp	Terminal response time, in seconds.
Abnd	Abend code.
Thrs	Number of thresholds triggered by the transaction.

Input Fields

The input fields on the DEFAULT Flashback panel let you change the following information:

Field	Description
Jobname	Specify the CICS jobname to be displayed. You can include generic characters in the string, as explained in the chapter titled "Using Unicenter CA-Explore Performance Management for CICS."
DEFAULT	Name of the current flashback panel. You can access another flashback panel by typing its name over the word DEFAULT.
From	Specify the date and time of the first record to be displayed. The starting date and time cannot be earlier than the date and time shown in the From: field in the upper right corner of the panel. You must enter the date in the same format as the mask displayed. For example, if the mask is YYMMDD, to display records beginning on February 14, 2002, enter 020214.
To	Specify the date and time of the last record to be displayed. The ending date and time cannot be later than the date and time shown in the To: field in the upper right corner of the display. You must enter the time in the same format as the mask displayed.

Field	Description	
Selection Criteria	You can enter one or more of the following in the selection criteria field to limit the records displayed to those meeting the criteria you specify:	
	TRAN=	Transaction ID
	TERM=	Terminal ID
	USERID=	User ID
	FILE=	File name
	PROGRAM=	Program name
	CLASS=	Category class: Short, Medium, Long, or Noterminal
	VAR=	A variable name for which you want to display records. You must use LO=, HI=, or both to specify the range of records to be displayed. To display a list of Unicenter CA-Explore for CICS variables, enter **VARIABLE** on the command line, or see the appendix titled "Variables."
	LO=	Low range of selected variable
	HI=	High range of selected variable
	SYS=	Indicates whether to display the following system transactions: TCP, KCP, JJJ, III. To display all of these transactions, specify Y. Default is N.
	LCTRAN=	Transaction ID, specified in lowercase letters.
		Except for CLASS=, VAR=, and SYS=, you can include generic characters in the string, as described in the chapter titled "Using Unicenter CA-Explore Performance Management for CICS."

Margin Commands

Command	Displays
S	A detailed flashback panel for the selected transaction; the detail flashback panel is of the same type as the flashback panel on which the margin command is issued.
A	The ANALYSIS Flashback Detail panel for the selected transaction.
C	The CLOCKS Flashback Detail panel for the selected transaction.
T	The THRESHOL Flashback Detail panel for the selected transaction.
P	The PROGRAMS Flashback Detail panel for the selected transaction.
F	The FILE Flashback Detail panel for the selected transaction.
W	The WAITS Flashback Detail panel for the selected transaction.
U	The UMBRELLA Flashback Detail panel for the selected transaction.
O	The OVERHEAD Flashback Detail panel for the selected transaction.

F-Key Descriptions

F-Key	Command	Function
F5	Continue	Continues reading data after time-limit pause has occurred.
F10	Toggle Forward	Toggles forward through each of the flashback panels listed in the table described in the previous section.
F11	Toggle Backward	Toggles backward through each of the flashback panels listed in the table described in the previous section.

ANALYSIS Flashback Summary Panel

The ANALYSIS Flashback panel displays transaction lifetime, the percentage of the lifetime the transaction was executing, and the percentage of time the transaction was waiting.

Access

You can access the ANALYSIS Flashback panel in any of the following ways:

- On any flashback panel, type **ANAL** or **ANALYSIS** over the name of the current panel (directly below the Historical Flashback title line) and press Enter.
- On any flashback panel, press F10 or F11 until you toggle to the ANALYSIS version of the panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:27:46
==>                                                                  FLSHBACK
   Jobname    Date          Historical Flashback      From:2002/03/01 14:24:27
   CICSICCF 2002/03/02              ANALYSIS           To:2002/03/02 09:15:39
   From: YYMMDD HHMMSS  ................Selection Criteria.................
     To: YYMMDD HHMMSS
   Jobname    Time   Tran  Task#  LifeTime  Wait  Exec  ...25...50...75..100
_  CICSICCF 09:12:11 EXPC  00501     0.014    2%   98% |
_  CICSICCF 09:12:12 EXPC  00502     0.014    4%   96% |-
_  CICSICCF 09:12:13 EXPC  00503     0.017    3%   97% |
_  CICSICCF 09:12:14 EXPC  00504     0.014    4%   96% |
_  CICSICCF 09:12:15 EXPC  00505     0.015    2%   98% |
_  CICSICCF 09:12:16 EXPC  00506     0.013    2%   98% |
_  CICSICCF 09:12:17 EXPC  00507     0.014    6%   94% |-
_  CICSICCF 09:12:19 EXPC  00508     0.013    8%   92% |*
_  CICSICCF 09:12:20 EXPC  00509     0.013    4%   96% |-
_  CICSICCF 09:12:21 EXPC  00510     0.013    4%   96% |-
_  CICSICCF 09:12:22 EXPC  00511     0.016    5%   95% |*
_  CICSICCF 09:12:23 EXPC  00512     0.013    2%   98% |
_  CICSICCF 09:12:24 EXPC  00513     0.014    4%   96% |
_  CICSICCF 09:12:25 EXPC  00514     0.014    4%   96% |-
_

F1=Help      F2=System    F3=Return    F4=Flshback   F5=Continue  F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd  F11=Togl Bwd  F12=Exit
```

Cursor-select any transaction to display the ANALYSIS Flashback Detail panel for the transaction.

Panel Field Descriptions

The information and input fields common to all flashback panels are described only in the earlier section, DEFAULT Flashback Panel. The ANALYSIS Flashback panel also has the following fields:

Field	Description
LifeTime	Transaction lifetime, which is the difference between the time the transaction is put on the DCA (DCA entry mode) and the time the TCA (storage) is freed
Wait	Percentage of time spent waiting
Exec	Percentage of time spent executing

Graph Information

The following information is presented on the right side of the panel as a percentage:

This Percentage	Is Indicated By
Waiting to Run (WTR%)	Red or -
WAIT%	Yellow or *

Margin Commands

The input fields to the left of the Jobname fields accept the margin commands described earlier for the DEFAULT Flashback panel.

CLOCKS Flashback Summary Panel

The CLOCKS Flashback panel displays resource timings.

Access

You can access the CLOCKS Flashback panel in any of the following ways:

- On any flashback panel, type **CLO** or **CLOCKS** over the name of the current panel (directly below the Historical Flashback title line) and press Enter.
- On any flashback panel, press F10 or F11 until you toggle to the CLOCKS version of the panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:27:46
==>                                                                   FLSHBACK
   Jobname    Date          Historical Flashback      From:2002/03/01 14:24:27
   CICSICCF 2002/03/02              CLOCKS              To:2002/03/02 09:15:39
   From: YYMMDD HHMMSS  ..............Selection Criteria..............
     To: YYMMDD HHMMSS
   Jobname    Time   Tran  Task#       CPU      PGM      I/O      WTR     LIFE
_  CICSICCF 09:12:11 EXPC  00501     0.011    0.014             0.000    0.014
_  CICSICCF 09:12:12 EXPC  00502     0.011    0.013             0.001    0.014

F1=Help      F2=System    F3=Return    F4=Flshback   F5=Continue   F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd  F11=Togl Bwd  F12=Exit
```

Cursor-select any transaction to display the CLOCKS Flashback Detail panel for the transaction.

Panel Field Descriptions

Fields common to all flashback panels are described only in the earlier section, DEFAULT Flashback Panel. The CLOCKS Flashback panel also has the following fields:

Field	Description
CPU	Transaction CPU time in seconds
PGM	Program time, in seconds
I/O	I/O time, in seconds
WTR	Waiting to run time, in seconds
LIFE	Transaction lifetime, which is the difference between the time the transaction is put on the DCA (DCA entry mode) and the time the TCA (storage) is freed

Margin Commands

The input fields to the left of the Jobname fields accept the margin commands described earlier for the DEFAULT Flashback panel.

COUNTERS Flashback Summary Panel

The COUNTERS Flashback panel displays usage counts.

Access

You can access the COUNTERS Flashback panel in any of the following ways:

- On any flashback panel, type **COU** or **COUNTERS** over the name of the current panel (directly below the Historical Flashback title line) and press Enter.
- On any flashback panel, press F10 or F11 until you toggle to the COUNTERS version of the panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:27:46
==>                                                                  FLSHBACK
   Jobname    Date          Historical Flashback      From:2002/03/01 14:24:27
   CICSICCF 2002/03/02             COUNTERS            To:2002/03/02 09:15:39
   From: YYMMDD HHMMSS  ................Selection Criteria.................
     To: YYMMDD HHMMSS
   Jobname    Time   Tran  Task#  Dispatch   Susp Getmains  Storage  StgViol
_  CICSICCF 09:12:11 EXPC  00501         3      1       13     3944
_  CICSICCF 09:12:12 EXPC  00502         3      1       13     3944

F1=Help      F2=System    F3=Return    F4=Flshback   F5=Continue   F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd  F11=Togl Bwd  F12=Exit
```

Cursor-select any transaction to display the COUNTERS Flashback Detail panel for the transaction.

Panel Field Descriptions

Fields common to all flashback panels are described only in the earlier section, DEFAULT Flashback Panel. The COUNTERS Flashback panel also has the following fields:

Field	Description
Dispatch	Number of dispatches
Susp	Number of suspends
Getmains	Number of GETMAINs
Storage	Amount of storage used
StgViol	Number of storage violations

Margin Commands

The input fields to the left of the Jobname fields accept the margin commands described earlier for the DEFAULT Flashback panel.

THRESHOL Flashback Summary Panel

The THRESHOL Flashback panel displays the number of thresholds triggered by each job.

Access

You can access the THRESHOL Flashback panel in any of the following ways:

- On any flashback panel, type **THR** or **THRESHOL** over the name of the current panel (directly below the Historical Flashback title line) and press Enter.
- On any flashback panel, press F10 or F11 until you toggle to the THRESHOL version of the panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:27:46
==>                                                                    FLSHBACK
   Jobname    Date          Historical Flashback      From:2002/03/01 14:24:27
   CICSICCF 2002/03/02              THRESHOL            To:2002/03/02 09:15:39
   From: YYMMDD HHMMSS  ................Selection Criteria.................
     To: YYMMDD HHMMSS
   Jobname    Time   Tran  Task#   Count
_  CICSICCF 09:12:11 EXPC  00501       0
_  CICSICCF 09:12:12 EXPC  00502       0
_  CICSICCF 09:12:13 EXPC  00503       0
_  CICSICCF 09:12:14 EXPC  00504       0
_  CICSICCF 09:12:15 EXPC  00505       0
_  CICSICCF 09:12:16 EXPC  00506       0
_  CICSICCF 09:12:17 EXPC  00507       0
_  CICSICCF 09:12:19 EXPC  00508       0
_  CICSICCF 09:12:20 EXPC  00509       0
_  CICSICCF 09:12:21 EXPC  00510       0
_  CICSICCF 09:12:22 EXPC  00511       0
_  CICSICCF 09:12:23 EXPC  00512       0
_  CICSICCF 09:12:24 EXPC  00513       0
_  CICSICCF 09:12:25 EXPC  00514       0

F1=Help      F2=System    F3=Return    F4=Flshback   F5=Continue   F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd  F11=Togl Bwd  F12=Exit
```

Cursor-select any transaction to display the THRESHOL Flashback Detail panel for the transaction.

Panel Field Descriptions

Fields common to all flashback panels are described only in the earlier section, DEFAULT Flashback Panel. The THRESHOL Flashback panel also has the following additional field:

Field	Description
Count	Number of thresholds triggered by each job

Margin Commands

The input fields to the left of the Jobname fields accept the margin commands described earlier for the DEFAULT Flashback panel.

Historical Flashback Detail Panels

At task termination, a detailed account of transaction activity is written to the flashback file. The size of the flashback file determines the number of detail records that are available for viewing.

Access

To access a flashback detail panel for a specific summary panel, do one of the following:

- Cursor-select a specific transaction on the summary panel.
- Type the name of the panel you want to display over the name of the current panel (directly below the Historical Flashback title line) and press Enter.
- Press F10 or F11 to toggle through the detail panels until you reach the desired detail panel.

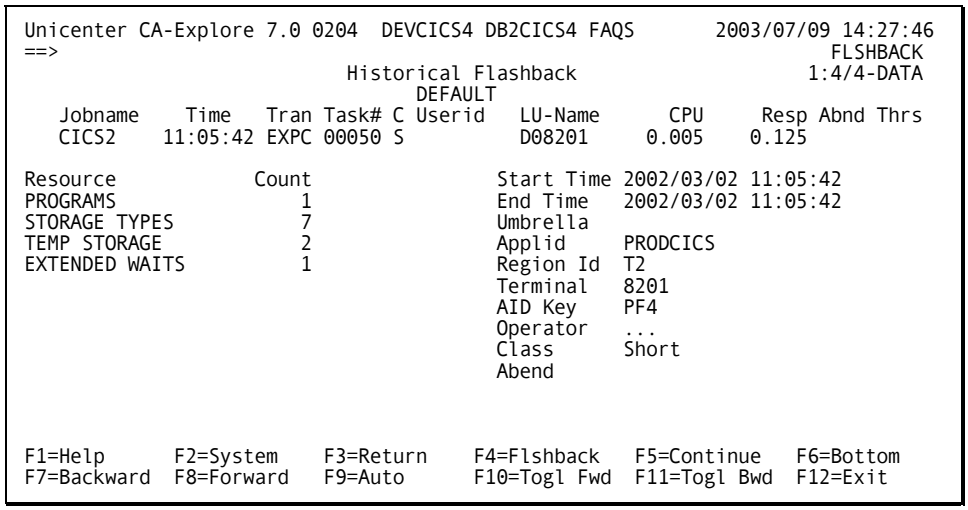
DEFAULT Flashback Detail Panel

The DEFAULT Flashback Detail panel displays detailed activity data about the selected transaction.

Access

- On the DEFAULT Flashback panel, cursor-select a transaction.
- On any flashback panel, enter **D** next to a transaction.
- On any flashback detail panel, type **DEFAULT** over the name of the current panel (directly below the Historical Flashback title line) and press Enter.
- On any flashback detail panel, press F10 or F11 until you toggle to the DEFAULT Detail version of the panel.

Sample Panel



Panel Field Descriptions

Fields common to all flashback panels are described earlier in the section DEFAULT Flashback Panel. The DEFAULT Flashback Detail panel also has the following fields:

Field	Description
Resource	Name of resource
Count	Number of entries for resource
Start Time	Time at which the transaction started
End Time	Time at which the transaction ended
Umbrella	Umbrella name and type
Applid	CICS application ID
Region Id	Region ID defined in MIT
Terminal	ID of terminal
AID Key	AID key that was pressed to initiate the transaction
Operator	ID of operator
Class	Class of transaction
Abend	Abend code, if any

ANALYSIS Flashback Detail Panel

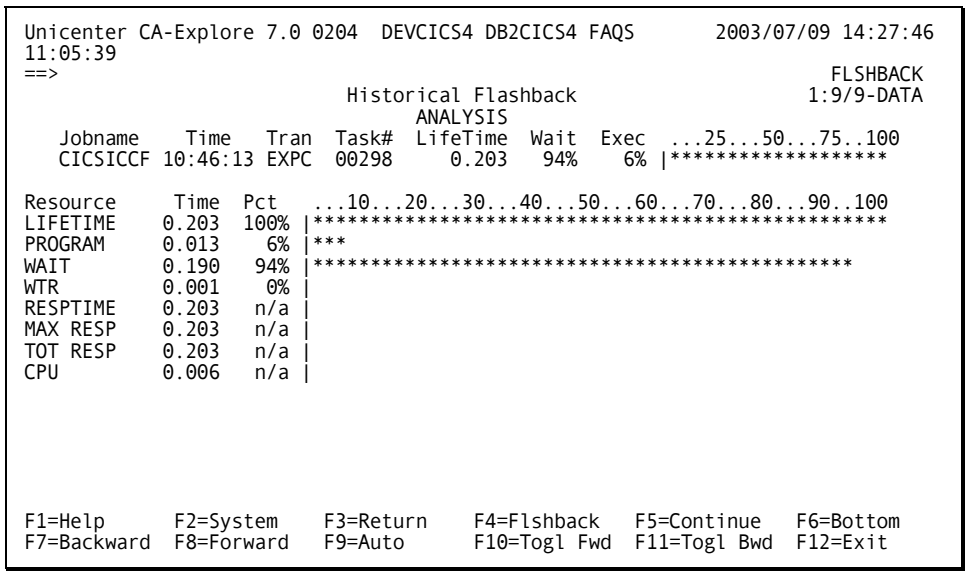
The ANALYSIS Flashback Detail panel displays a detailed record of degradation analysis.

Access

You can access the ANALYSIS Flashback Detail panel in any of the following ways:

- On the ANALYSIS Flashback panel, cursor-select a transaction.
- On any flashback panel, enter **A** next to a transaction.
- On any flashback detail panel, type **ANALYSIS** over the name of the current panel (directly below the Historical Flashback title line) and press Enter.
- On any flashback detail panel, press F10 or F11 until you toggle to the ANALYSIS version of the panel.

Sample Panel



Panel Field Descriptions

Fields common to all flashback panels are described only in the earlier section, DEFAULT Flashback Panel. The ANALYSIS Flashback Detail panel also has the following fields:

Field	Description	
Resource	Resource type. The following are some of the resource types that might appear in this field:	
	COUNT	Number of transactions used for analysis.
	CPU	CPU time allocated to the transaction when in user or CICS time.
	DL/I	Time in DL/I code.
	EXPCTIME	The average time (in seconds) spent in Unicenter CA-Explore for CICS code.
	FILE I/O	Time that the transaction waits for file requests. This time is only for those datasets in the FCT.
	LIFETIME	Transaction lifetime, which is the difference between the time the transaction is put on the DCA (DCA entry mode) and the time the TCA (storage) is freed.
	MAX RESP	Maximum response time.
	PROGRAM	Time spent executing program code.
	RESOURCE	Time spent waiting for an internal CICS resource. If a transaction needs a resource and must wait for it to become available, CICS will place the transaction on the active DCA chain with a dispatch control indicator (DCI) of X'88'. If a program needs to be loaded into the DSA, this will cause the transaction to be put in this wait state. If a transaction must wait for strings or buffers, it will be put in this state.
	SUSPEND	Time spent suspended.
	STORSUSP	Time suspended because of an inability to satisfy a storage request.

Field	Description	
Resource (continued)	TERM I/O	Time spent when the transaction forces a terminal wait. Normally, a pseudo-conversional TRANS sends a BMS map. The TERM I/O is scheduled after the transaction ends. You can force the BMS map to be written immediately, or if it is a conversional task, then TERM/IO must be forced to occur. In this case, TERM I/O time is the time spent to handle the I/O.
	TOT RESP	Total response time.
	WAIT	Time that a transaction must wait for ECBs to be posted; intrapartition dataset I/O time and DFHTEMP I/O is included.
	WTR	The time the transaction spent on the active DCA chain waiting to run.
Time	Time in seconds that resource was used	
Pct	Percentage of use, shown in both numeric and graph form. On color monitors, the colors used in the graph have the following meanings: Green — Executing Yellow — Waiting Red — Waiting to run The graph for Lifetime always appears in blue.	

CLOCKS Flashback Detail Panel

The CLOCKS Flashback Detail panel displays a detailed record of resource timings.

Access

You can access the CLOCKS Flashback Detail panel in any of the following ways:

- On the CLOCKS Flashback panel, cursor-select a transaction.
- On any flashback panel, enter **C** next to a transaction.
- On any flashback detail panel, type **CLOCKS** over the name of the current panel (directly below the Historical Flashback title line) and press Enter.
- On any flashback detail panel, press F10 or F11 until you toggle to the CLOCKS version of the panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09
14:27:46==>
FLSHBACK
                          Historical Flashback                          1:6/6
                                 CLOCKS
   Jobname    Time   Tran Task# C      CPU     PGM      I/O      WTR     LIFE
   CICS21A  10:25:40 CATD 00113 N    0.748  15.172             5.996   24.111
Resource     Time  Pct   ...10...20...30...40...50...60...70...80...90..100
LIFETIME   24.111  100% |************************************************
PROGRAM    15.172   63% |********************************
RESOURCE    0.070    0% |
WAIT        2.871   12% |******
WTR         5.996   25% |************
CPU         0.748   n/a |

F1=Help      F2=System    F3=Return    F4=Flshback   F5=Continue   F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd  F11=Togl Bwd  F12=Exit
```

Panel Field Descriptions

Fields common to all flashback panels are described only in the earlier section, DEFAULT Flashback Panel. The CLOCKS Flashback Detail panel also has the following fields:

Field	Description
CPU	Transaction CPU time, in seconds.
PGM	Program time.
I/O	I/O time.
WTR	Waiting to run time.
LIFE	Transaction lifetime, which is the difference between the time the transaction is put on the DCA (DCA entry mode) and the time the TCA (storage) is freed.
Resource	EXPCTIME Average time (in seconds) spent in Unicenter CA-Explore for CICS code. FILE I/O Time that the transaction waits for file requests. This time is only for those datasets in the FCT. LIFETIME Transaction lifetime, which is the difference between the time the transaction is put on the DCA (DCA entry mode) and the time the TCA (storage) is freed. MAX RESP Maximum response time. PROGRAM Time spent executing program code. RESOURCE Time spent waiting on an internal CICS resource. If a transaction needs a resource and must wait for it to become available, CICS will place the transaction on the active DCA chain with a dispatch control indicator (DCI) of X'88'. If a program needs to be loaded into the DSA, this will cause the transaction to be put in this wait state. If a transaction must wait on strings or buffers, it will be put in this state.

Field	Description
Resource (Continued)	SUSPEND Time spent suspended. TORSUSP Time suspended because of an inability to satisfy a storage request. TERM I/O Time spent when the transaction forces a terminal wait. Normally, a pseudo-conversational TRANS sends a BMS map. The TERM I/O is scheduled after the transaction ends. You can force the BMS map to be written immediately, or if it is a conversational task, then TERM I/O must be forced to occur. In this case, TERM I/O time is the time spent to handle the I/O. TOT RESP Total response time. WAIT Time that a transaction must wait for ECBs to be posted. Intrapartition dataset I/O time and DFHTEMP I/O is included. WTR Time transaction spent on the active DCA chain waiting to run.
Time	Time in seconds.
Pct	Percentage of use, shown in numeric and graph form.

COUNTERS Flashback Detail Panel

The COUNTERS Flashback Detail panel displays a detailed record of various usage counts.

Access

You can access the COUNTERS Flashback Detail panel in any of the following ways:

- On the COUNTERS Flashback panel, cursor-select a transaction.
- On any flashback detail panel, type **COUnters** over the name of the current panel (directly below the Historical Flashback title line) and press Enter.
- On any flashback detail panel, press F10 or F11 until you toggle to the COUNTERS version of the panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:27:46
==>                                                                   FLSHBACK
                          Historical Flashback                          1:9/16
                                  COUNTERS
   Jobname    Time   Tran Task# C Dispatch   Susp Getmains  Storage  StgViol
   CICS21A  10:25:40 CATD 00113 N       17              40     8648
Resource            Count
DISPATCHES             17
WAIT SINGLES           14
CICS WAITS              1
ATTACHES                1
DETACHES                1
ENQUEUES                3
DEQUEUES                3
FREEMAINS              29
BYTES OF STORAGE     8648
F1=Help      F2=System    F3=Return    F4=Flshback   F5=Continue   F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd  F11=Togl Bwd  F12=Exit
```

Panel Field Descriptions

Fields common to all flashback panels are described only in the earlier section, DEFAULT Flashback Panel. The COUNTERS Flashback Detail panel also has the following fields:

Field	Description
Dispatch	Dispatch count.
Susp	Suspend count.
Getmains	GETMAIN count
Storage	Storage used.
StgViol	Number of storage violations.
Resource	Name of the resource. Resources correspond to Unicenter CA-Explore for CICS variables. Only resources with a count greater than zero are displayed.
Count	Usage count.

THRESHOL Flashback Detail Panel

The THRESHOL Flashback Detail panel displays a detailed record of threshold information.

Access

You can access the THRESHOL Flashback Detail panel in any of the following ways:

- On the THRESHOL Flashback panel, cursor-select a transaction.
- On any flashback panel, enter **T** next to a transaction.
- On any flashback detail panel, type **THReshol** over the name of the current panel (directly below the Historical Flashback title line) and press Enter.
- On any flashback detail panel, press F10 or F11 until you toggle to the THRESHOL version of the panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:27:46
==>                                                              FLSHBACK A
                          Historical Flashback                        1:1/1
                                THRESHOL
   Jobname    Time   Tran Task#
   CICS21B  13:43:28 PRDP 00040
Threshold  Count    Limit    Value    Date         Time
ABENDS         1        1        1  2002/03/15  13:43:28



F1=Help      F2=System    F3=Return    F4=Flshback   F5=Continue   F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd  F11=Togl Bwd  F12=Exit
```

Panel Field Descriptions

Fields common to all flashback panels are described only in the earlier section, DEFAULT Flashback Panel. The THRESHOLD Flashback Detail panel also has the following fields:

Field	Description
Threshold	Name of threshold that was triggered
Count	Number of times the threshold was triggered
Limit	The threshold's limit
Value	Value that triggered the threshold
Date	Date that the threshold was triggered
Time	Time that the threshold was triggered

PROGRAMS Flashback Detail Panel

The PROGRAMS Flashback Detail panel displays a detailed record of program usage.

Access

You can access the PROGRAMS Flashback Detail panel in any of the following ways:

- On the PROGRAMS Flashback panel, cursor-select a transaction.
- On any flashback panel, enter **P** next to a transaction.
- On any flashback detail panel, type **PROgrams** over the name of the current panel (directly below the Historical Flashback title line) and press Enter.
- On any flashback detail panel, press F10 or F11 until you toggle to the PROGRAMS version of the panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:27:46
==>                                                                  FLSHBACK
                            Historical Flashback                    1:1/1-DATA
                                    PROGRAMS
   Jobname  Time     Tran Task#
   CICSMROB 08:54:59 CCMF 00328
Resource  Count     Time  Average     High Level  Fetch Usage
DFHCCMF       1    0.000    0.000    0.000     0      0 XCTL
S1M610        1    0.000    0.000    0.000     0      1 LOAD FETCH
S1M610M       1    0.000    0.000    0.000     0      0 LOAD



F1=Help      F2=System    F3=Return    F4=Flshback   F5=Continue   F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd  F11=Togl Bwd  F12=Exit
```

Panel Field Descriptions

Fields common to all flashback panels are described only in the earlier section, DEFAULT Flashback Panel. The PROGRAMS Flashback Detail panel also has the following fields:

Field	Description
Resource	Program name
Count	Program use count
Time	Total request time
Average	Average request time
High	Maximum request time
Level	Level at which the program was accessed
Fetch	Number of times the program was fetched

Usage Field Entries

One or more of the following descriptions of the program can be displayed in the Usage field:

Field	Description
ABND	Program abended.
FETCH	Program was fetched.
LINK	Program was linked from another program.
LOAD	Program was loaded.
XCTL	Program was transferred from another CICS program.

DSA Flashback Detail Panel

The DSA Flashback Detail panel displays a detailed record of the amount of DSA storage used, by subpool type.

Access

You can access the DSA Flashback Detail panel in any of the following ways:

- On the DSA Flashback panel, cursor-select a transaction.
- On any flashback detail panel, type **DSA** over the name of the current panel (directly below the Historical Flashback title line) and press Enter.
- On any flashback detail panel, press F10 or F11 until you toggle to the DSA version of the panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:27:46
==>                                                                  FLSHBACK
                            Historical Flashback                    1:7/7-DATA
                                     DSA
   Jobname    Time   Tran Task#
   CICS2    02:05:40 EXPC 01580
Storage  Type   Amount Getmains
DCA        81      112        1
TERMINAL   85     1288        1
ICE        86      240        3
TCA        8A     2904        1
USER       8C     1072        4
TEMPSTG    8E       48        2
DWE        9D      168        3

F1=Help      F2=System    F3=Return    F4=Flshback   F5=Continue   F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd  F11=Togl Bwd  F12=Exit
```

Panel Field Descriptions

Fields common to all flashback panels are described only in the earlier section, DEFAULT Flashback Panel. The DSA Flashback Detail panel also has the following fields:

Field	Description
Storage	Storage subpool name
Type	Storage subpool type
Amount	Amount of storage used in the subpool
Getmains	Number of GETMAINs for the subpool

FILE Flashback Detail Panel

The FILE Flashback Detail panel displays a detailed record of file requests, I/O timings, and file types.

Access

You can access the FILE Flashback Detail panel in any of the following ways:

- On the FILE Flashback panel, cursor-select a transaction.
- On any flashback panel, enter **F** next to a transaction.
- On any flashback detail panel, type **FILE** over the name of the current panel (directly below the Historical Flashback title line) and press Enter.
- On any flashback detail panel, press F10 or F11 until you toggle to the FILE version of the panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:27:46
==>                                                                  FLSHBACK
                          Historical Flashback                     1:1/1-DATA
                                    FILE
   Jobname    Time   Tran  Task#
   CICSICCF 10:46:14 ALXP  00300

Filename  Count     Time  Average     High Type          Program  Volume
ALERTXP       1    0.001    0.001    0.001 VSAM KSDS     AXP10000 DEV223

F1=Help      F2=System    F3=Return    F4=Flshback   F5=Continue   F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd  F11=Togl Bwd  F12=Exit
```

Panel Field Descriptions

Fields common to all flashback panels are described only in the earlier section, DEFAULT Flashback Panel. The FILE Flashback Detail panel also has the following fields:

Field	Description
Filename	Filename defined in FCT.
Count	Number of requests.
Time	Difference between the time the FCP entry trace ID is processed and the time the FCP exit trace ID is processed.
Average	Average request time.
High	Maximum request time.
Type	File type.
Program	Name of the program that made the requests.
Volume	Name of the volume on which the file resides. If this field contains N/A, it is the result of a transaction not accessing the file with a standard CICS command level request. As a result, Unicenter CA-Explore for CICS cannot determine the name of the volume. Some CICS-supplied transactions do not use the standard method of accessing files.

FILETIME Flashback Detail Panel

The FILETIME Flashback Detail panel displays a detailed record of file request, I/O, and wait times.

Access

You can access the FILETIME Flashback Detail panel in any of the following ways:

- On the FILETIME Flashback panel, cursor-select a transaction.
- On any flashback detail panel, type **FILETIME** over the name of the current panel (directly below the Historical Flashback title line) and press Enter.
- On any flashback detail panel, press F10 or F11 until you toggle to the FILETIME version of the panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:27:46
==>                                                                  FLSHBACK
                           Historical Flashback                    1:3/3-DATA
                                  FILETIME
   Jobname    Time   Tran Task#
   CICSAESA 10:00:48 ALXP 00188

Filename  Average     High      I/O I/O-High   Buffer  String  Pseudo Program
S1SAUDT     0.076    0.076    0.066    0.027    0.000   0.000   0.000 S1A000I
ALERTXP     0.018    0.035    0.034    0.034    0.000   0.000   0.000 AXP680
ALERTXP     0.001    0.001    0.000    0.000    0.000   0.000   0.000 AXP10000



F1=Help      F2=System    F3=Return    F4=Flshback   F5=Continue   F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd  F11=Togl Bwd  F12=Exit
```

Panel Field Descriptions

Fields common to all flashback panels are described only in the earlier section, DEFAULT Flashback Panel. The FILETIME Flashback Detail panel also has the following fields:

Field	Description
Filename	Filename defined in FCT
Average	Average request time
High	Maximum request time
I/O	Difference between the time the task was put in a wait state by task control while the actual I/O request processed and the time the task was dispatched by task control when the I/O completed
I/O-High	Maximum I/O time
Buffer	Buffer wait time
String	String wait time
Pseudo	Pseudo-string wait time
Program	Name of the program that made the requests

FILECNT Flashback Detail Panel

The FILECNT Flashback Detail panel displays a detailed record of requests by type.

Access

You can access the FILECNT Flashback Detail panel in any of the following ways:

- On the FILECNT Flashback panel, cursor-select a transaction.
- On any flashback detail panel, type **FILECNT** over the name of the current panel (directly below the Historical Flashback title line) and press Enter.
- On any flashback detail panel, press F10 or F11 until you toggle to the FILECNT version of the panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:27:46
==>                                                                  FLSHBACK
                            Historical Flashback                    1:3/3-DATA
                                    FILECNT
   Jobname    Time   Tran Task#
   CICSAESA 10:00:48 ALXP 00188

Filename  Count  Browse  Reads Read-U Update   Adds Delete  DataTb    Program
S1SAUDT       1                                   1                   S1A000I
ALERTXP       2                       1      1                        AXP680
ALERTXP       1                                                1    AXP10000


F1=Help      F2=System    F3=Return    F4=Flshback   F5=Continue   F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd  F11=Togl Bwd  F12=Exit
```

Panel Field Descriptions

Fields common to all flashback panels are described only in the earlier section, DEFAULT Flashback Panel. The FILECNT Flashback Detail panel also has the following fields:

Field	Description
Filename	Filename defined in FCT
Count	Number of requests
Browse	Number of browse requests
Reads	Number of read requests
Read-U	Number of read for update requests
Update	Number of update requests
Adds	Number of add requests
Delete	Number of delete requests
DataTb	Data table requests
Program	Name of the program that made the requests

FILEWAIT Flashback Detail Panel

The FILEWAIT Flashback Detail panel displays a detailed record of waits.

Access

You can access the FILEWAIT Flashback Detail panel in any of the following ways:

- On the FILEWAIT Flashback panel, cursor-select a transaction.
- On any flashback detail panel, type **FILEWAIT** over the name of the current panel (directly below the Historical Flashback title line) and press Enter.
- On any flashback detail panel, press F10 or F11 until you toggle to the FILEWAIT version of the panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:27:46
==>                                                                   FLSHBACK
                          Historical Flashback                     1:3/3-DATA
                                  FILEWAIT
   Jobname    Time   Tran Task#
   CICSAESA 10:00:48 ALXP 00188

Filename String Psuedo Shared Buffer   Excl  CI/CA Splits Program
S1SAUDT       0      0      0      0      0      0      0 S1A000I
ALERTXP       0      0      0      0      0      0      0 AXP680
ALERTXP       0      0      0      0      0      0      0 AXP10000



F1=Help      F2=System    F3=Return    F4=Flshback   F5=Continue   F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd  F11=Togl Bwd  F12=Exit
```

Panel Field Descriptions

Fields common to all flashback panels are described only in the earlier section, DEFAULT Flashback Panel. The FILEWAIT Flashback Detail panel also has the following fields:

Field	Description
Filename	Filename defined in FCT
String	Number of string waits
Pseudo	Number of pseudo-string waits
Shared	Number of shared-string waits
Buffer	Number of buffer waits
Excl	Number of waits for exclusive control
CI/CA	Number of waits due to CI/CA splits
Splits	Number of CI/CA splits
Program	Name of the program that caused the waits

SQL Flashback Detail Panel

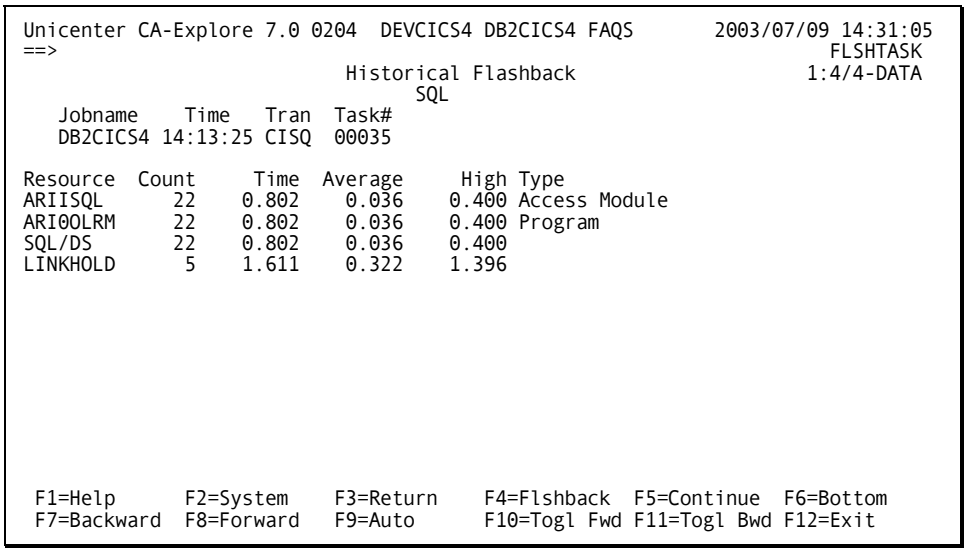
The SQL Flashback Detail panel displays a detailed record of SQL requests.

Access

You can access the SQL Flashback Detail panel in any of the following ways:

- On the SQL Flashback panel, cursor-select a transaction.
- On any flashback detail panel, type **SQL** over the name of the current panel (directly below the Historical Flashback title line) and press Enter.
- On any flashback detail panel, press F10 or F11 until you toggle to the SQL version of the panel.

Sample Panel



Panel Field Descriptions

Fields common to all flashback panels are described only in the earlier section, DEFAULT Flashback Panel. The SQL Flashback Detail panel also has the following fields:

Field	Description
Resource	Resource
Count	Number of times this resource issued an SQL request
Time	Total time spent on requests
Average	Average time spend for a requests
High	The high water time used for processing a request
Type	Indicates type of resource

DLITIME Flashback Detail Panel

The DLITIME Flashback Detail panel displays a detailed record of DL/I requests, I/O timings, and DL/I databases.

Access

You can access the DLITIME Flashback Detail panel in any of the following ways:

- On the DLITIME Flashback panel, cursor-select a transaction.
- On any flashback detail panel, type **DLItime** over the name of the current panel (directly below the Historical Flashback title line) and press Enter.
- On any flashback detail panel, press F10 or F11 until you toggle to the DLITIME version of the panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:31:05
==>                                                                  FLSHBACK
                         Historical Flashback                      1:5/5-DATA
                                 DLITIME
   Jobname    Time   Tran Task#
   CICSMROB 13:33:48 TDLI 00030
Resource  Count     Time  Average     High Type          I/O-NS  SP
STDCX1C       0    0.000             0.000 DL/I ACB           2   2
STDCX1P       0    0.000             0.000 DL/I DBD           2
STBCUSRP      4    1.992    0.498    1.771 DL/I PSB           2

F1=Help      F2=System    F3=Return    F4=Flshback   F5=Continue   F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd  F11=Togl Bwd  F12=Exit
```

Panel Field Descriptions

Fields common to all flashback panels are described only in the earlier section, DEFAULT Flashback Panel. The DLITIME Flashback Detail panel also has the following fields:

Field	Description
Resource	Name of DL/I resource: DBD, PSB, function, or program
Count	Number of requests
Time	Total request time
Average	Average request time
High	Maximum request time
Type	Resource type
I/O-NS	Number of I/Os not satisfied
SP	Subpool number

DLIIO Flashback Detail Panel

The DLIIO Flashback Detail panel displays a detailed record of DL/I I/O requests and timings.

Access

You can access the DLIIO Flashback Detail panel in any of the following ways:

- On the DLIIO Flashback panel, cursor-select a transaction.
- On any flashback detail panel, type **DLIIO** over the name of the current panel (directly below the Historical Flashback title line) and press Enter.
- On any flashback detail panel, press F10 or F11 until you toggle to the DLIIO version of the panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:31:05
==>                                                                  FLSHBACK
                          Historical Flashback                      1:5/5-DATA
                                DLIIO
   Jobname    Time   Tran Task#
   CICSMROB 13:33:48 TDLI 00030
Resource   SIOs     Time  Average     High Type           Reqs/IO
STDCX1C       2    0.058    0.029    0.044 DL/I ACB         0.000
STDCX1P       2    0.058    0.029    0.044 DL/I DBD         0.000

STBCUSRP      2    0.058    0.029    0.044 DL/I PSB         2.000
F1=Help      F2=System    F3=Return    F4=Flshback   F5=Continue   F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd  F11=Togl Bwd  F12=Exit
```

Panel Field Descriptions

Fields common to all flashback panels are described only in the earlier section, DEFAULT Flashback Panel. The DLIIO Flashback Detail panel also has the following fields:

Field	Description
Resource	Name of DL/I resource: DBD, PSB, function, or program
SIOs	Number of physical I/O requests detected
Time	Total request time
Average	Average request time
High	Maximum request time
Type	Resource type
Reqs/IO	Number of requests per I/O

DLICNT Flashback Detail Panel

The DLICNT Flashback Detail panel displays a detailed record of DL/I requests by type.

Access

You can access the DLICNT Flashback Detail panel in any of the following ways:

- On the DLICNT Flashback panel, cursor-select a transaction.
- On any flashback detail panel, type **DLICNT** over the name of the current panel (directly below the Historical Flashback title line) and press Enter.
- On any flashback detail panel, press F10 or F11 until you toggle to the DLICNT version of the panel.

Sample Panel

```
CA-Explore For CICS 7 SP00 DEVCICS4 DB2CICS4 FAQS          2004/03/04 14:31:05
==>                                                                  FLSHBACK
                          Historical Flashback                    1:12/12-DATA
                                    DLICNT
   Jobname    Time   Tran Task#
   DB2CICS4 12:02:26 TDLI 00034

Resource Reqs GU    GHU     GN    GNP   GHN   GHNP  ISRT  DLET   REPL  CHKP
HHBLWA61  26   6      1     13                          2     1      3
STBCUSUP   5          1                                 2     1      1
STBCUSRP  21   6             13                                      2


F1=Help      F2=System    F3=Return    F4=Flshback   F5=Continue   F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd  F11=Togl Bwd  F12=Exit
```

Panel Field Descriptions

Fields common to all flashback panels are described only in the earlier section, DEFAULT Flashback Panel. The DLICNT Flashback Detail panel also has the following fields:

Field	Description
Resource	Name of DL/I Resource: DBD, PSB, function, or program
Reqs	Number of requests
GU	Number of GET unique requests
GHU	Number of GET hold unique requests
GN	Number of GET nexts
GNP	Number of GET nexts in parent
GHN	Number of GET hold nexts
GHNP	Number of GET hold nexts in parent
ISRT	Number of insert requests
DLET	Number of delete requests
REPL	Number of update requests
CHKP	Number of checkpoint requests

Note: Unicenter CA-Explore for CICS gathers statistics on the number of requests issued by CICS transactions. If, for example, a transaction issues an insert (ISRT) request that adds multiple segments, Unicenter CA-Explore for CICS will show only one ISRT request. Similarly, if a transaction issues a delete (DLET) request that deletes multiple segments, Unicenter CA-Explore for CICS will show only one DLET request.

TEMPSTOR Flashback Detail Panel

The TEMPSTOR Flashback Detail panel displays a detailed record of temporary storage requests and timings.

Access

You can access the TEMPSTOR Flashback Detail panel in any of the following ways:

- On the TEMPSTOR Flashback panel, cursor-select a transaction.
- On any flashback detail panel, type **TEMPSTOR** over the name of the current panel (directly below the Historical Flashback title line) and press Enter.
- On any flashback detail panel, press F10 or F11 until you toggle to the TEMPSTOR version of the panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:31:05
==>                                                                  FLSHBACK
                            Historical Flashback                    1:2/2-DATA
                                    TEMPSTOR
   Jobname    Time   Tran Task#
   CICS2    02:05:40 EXPC 01580
Queue     Count     Time  Average     High I/O-Wait SuspTime
DF000C1E      2    0.000    0.000    0.000    0.000    0.000
A001EXPC      1    0.000    0.000    0.000    0.000    0.000

F1=Help      F2=System    F3=Return    F4=Flshback   F5=Continue   F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd  F11=Togl Bwd  F12=Exit
```

Panel Field Descriptions

Fields common to all flashback panels are described only in the earlier section, DEFAULT Flashback Panel. The TEMPSTOR Flashback Detail panel also has the following fields:

Field	Description
Queue	Temporary storage queue name
Count	Queue use count
Time	Total request time
Average	Average request time
High	Maximum request time
I/O-Wait	I/O wait time
SuspTime	Suspend time

TEMPCNT Flashback Detail Panel

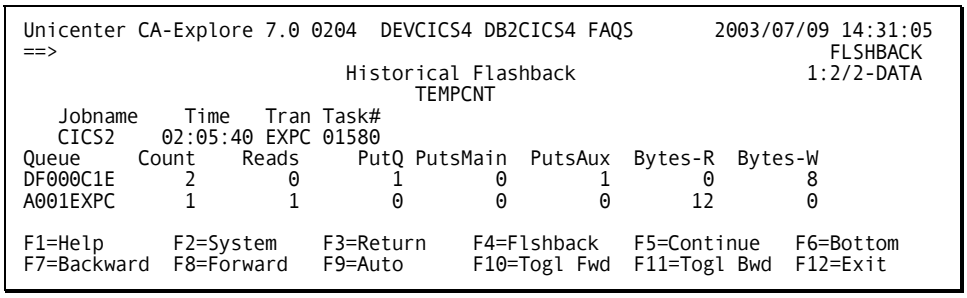
The TEMPCNT Flashback Detail panel displays a detailed record of temporary storage requests by type.

Access

You can access the TEMPCNT Flashback Detail panel in any of the following ways:

- On the TEMPCNT Flashback panel, cursor-select a transaction.
- On any flashback detail panel, type **TEMPCNT** over the name of the current panel (directly below the Historical Flashback title line) and press Enter.
- On any flashback detail panel, press F10 or F11 until you toggle to the TEMPCNT version of the panel.

Sample Panel



```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:31:05
==>                                                                  FLSHBACK
                            Historical Flashback                   1:2/2-DATA
                                   TEMPCNT
   Jobname    Time   Tran Task#
   CICS2    02:05:40 EXPC 01580
Queue     Count    Reads     PutQ PutsMain  PutsAux  Bytes-R  Bytes-W
DF000C1E      2        0        1        0        1        0        8
A001EXPC      1        1        0        0        0       12        0

F1=Help      F2=System    F3=Return    F4=Flshback   F5=Continue   F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd  F11=Togl Bwd  F12=Exit
```

Panel Field Descriptions

Fields common to all flashback panels are described only in the earlier section, DEFAULT Flashback Panel. The TMPCNT Flashback Detail panel also has the following fields:

Field	Description
Queue	Temporary storage queue name
Count	Queue use count
Reads	Number of reads
PutQ	Number of PUTQs
PutsMain	Number of PUTs to main storage
PutsAux	Number of PUTs to auxiliary storage
Bytes-R	Number of bytes read
Bytes-W	Number of bytes written

TDATA Flashback Detail Panel

The TDATA Flashback Detail panel displays a detailed record of transient data requests and timings.

Access

You can access the TDATA Flashback Detail panel in any of the following ways:

- On the TDATA Flashback panel, cursor-select a transaction.
- On any flashback detail panel, type **TDAta** over the name of the current panel (directly below the Historical Flashback title line) and press Enter.
- On any flashback detail panel, press F10 or F11 until you toggle to the TDATA version of the panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:31:05
==>                                                                   FLSHBACK
                          Historical Flashback                          1:2/2
                                   TDATA
   Jobname    Time   Tran Task#
   CICS21A  18:22:32 DSNC 00049
Resource  Count     Time  Average     High  Reads Writes
CSTL          1    0.000    0.000    0.000              1
CSML          1    0.001    0.001    0.001              1



F1=Help      F2=System    F3=Return    F4=Flshback   F5=Continue   F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd  F11=Togl Bwd  F12=Exit
```

Panel Field Descriptions

Fields common to all flashback panels are described only in the earlier section, DEFAULT Flashback Panel. The TDATA Flashback Detail panel also has the following fields:

Field	Description
Resource	Transient data destination ID
Count	Number of requests
Time	Total request time
Average	Average request time
High	Maximum request time
Reads	Number of reads
Writes	Number of writes

COMMAND Flashback Detail Panel

The COMMAND Flashback Detail panel displays a detailed record of command-level requests.

Access

You can access the COMMAND Flashback Detail panel in any of the following ways:

- On the COMMAND Flashback panel, cursor-select a transaction.
- On any flashback detail panel, type **COMmand** over the name of the current panel (directly below the Historical Flashback title line) and press Enter.
- On any flashback detail panel, press F10 or F11 until you toggle to the COMMAND version of the panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:31:05
==>                                                                  FLSHBACK
                            Historical Flashback                    1:7/7-DATA
                                   COMMAND
   Jobname  Time     Tran Task#
   CICSMROB 14:52:01 EXPC 00065
Resource  Count     Time  Average     High Errors
KCP           1    0.047    0.047    0.047
ICP           6    0.002    0.000    0.001
TCP           4    0.000    0.000    0.000       1
SCP           2    0.000    0.000    0.000
TSP           4    0.000    0.000    0.000       1
EIP           9    0.000    0.000    0.000
PCP           2    0.000    0.000    0.000

F1=Help      F2=System    F3=Return    F4=Flshback   F5=Continue   F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd  F11=Togl Bwd  F12=Exit
```

Panel Field Descriptions

Fields common to all flashback panels are described only in the earlier section, DEFAULT Flashback Panel. The COMMAND Flashback Detail panel also has the following fields:

Field	Description
Resource	Command level request type
Count	Number of requests
Time	Total request time
Average	Average request time
High	Maximum request time
Errors	Number of errors

EXITRSCE Flashback Detail Panel

The EXITRSCE Flashback Detail panel displays a detailed record of exit resource requests and timings.

Access

You can access the EXITRSCE Flashback Detail panel in any of the following ways:

- On the EXITRSCE Flashback panel, cursor-select a transaction.
- On any flashback detail panel, type **EXItrsce** over the name of the current panel (directly below the Historical Flashback title line) and press Enter.
- On any flashback detail panel, press F10 or F11 until you toggle to the EXITRSCE version of the panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:37:52
==>                                                                   FLSHBACK
                          Historical Flashback                          1:1/1
                                  EXITRSCE
   Jobname    Time   Tran Task#
   CICS21A  18:23:11 D8CS 00052
Resource  Count     Time  Average     High
DSNCSQL      14    6.615    0.472    2.494



F1=Help      F2=System    F3=Return    F4=Flshback   F5=Continue   F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd  F11=Togl Bwd  F12=Exit
```

Panel Field Descriptions

Fields common to all flashback panels are described only in the earlier section, DEFAULT Flashback Panel. The EXITRSCE Flashback Detail panel also has the following fields:

Field	Description
Resource	Resource name
Count	Number of requests
Time	Total request time
Average	Average request time
High	Maximum request time

IRC Flashback Detail Panel

The IRC Flashback Detail panel displays a detailed record of IRC (inter-region communication) requests and timings.

Access

You can access the IRC Flashback Detail panel in any of the following ways:

- On the IRC Flashback panel, cursor-select a transaction.
- On any flashback detail panel, type **IRC** over the name of the current panel (directly below the Historical Flashback title line) and press Enter.
- On any flashback detail panel, press F10 or F11 until you toggle to the IRC version of the panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:37:52
==>                                                                   FLSHBACK
                          Historical Flashback                          1:1/1
                                    IRC
   Jobname    Time   Tran Task#
   CICS21A  11:33:08 CSIR 00093
Resource  Count     Time  Average     High
CICS21B       1    0.004    0.004    0.004



F1=Help      F2=System    F3=Return    F4=Flshback   F5=Continue   F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd  F11=Togl Bwd  F12=Exit
```

Panel Field Descriptions

Fields common to all flashback panels are described only in the earlier section, DEFAULT Flashback Panel. The IRC Flashback Detail panel also has the following fields:

Field	Description
Resource	CICS jobname
Count	Number of requests
Time	Total request time
Average	Average request time
High	Maximum request time

ISC Flashback Detail Panel

The ISC Flashback Detail panel displays a detailed record of ISC (intersystem communication) requests and timings.

Access

You can access the ISC Flashback Detail panel in any of the following ways:

- On the ISC Flashback panel, cursor-select a transaction.
- On any flashback detail panel, type **ISC** over the name of the current panel (directly below the Historical Flashback title line) and press Enter.
- On any flashback detail panel, press F10 or F11 until you toggle to the ISC version of the panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:37:52
==>                                                                   FLSHBACK
                          Historical Flashback
                                   ISC
   Jobname    Time   Tran Task#
   CICS21A  10:14:59 CCMF 00323
 Resource  Count     Time  Average     High
 CICS21B       1    0.004    0.004    0.004



F1=Help      F2=System    F3=Return    F4=Flshback   F5=Continue   F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd  F11=Togl Bwd  F12=Exit
```

Panel Field Descriptions

Fields common to all flashback panels are described only in the earlier section, DEFAULT Flashback Panel. The ISC Flashback Detail panel also has the following fields:

Field	Description
Resource	CICS jobname
Count	Number of requests
Time	Total request time
Average	Average request time
High	Maximum request time

JOURNAL Flashback Detail Panel

The JOURNAL Flashback Detail panel displays a detailed record of journal requests and timings.

Access

You can access the JOURNAL Flashback Detail panel in any of the following ways:

- On the JOURNAL Flashback panel, cursor-select a transaction.
- On any flashback detail panel, type **JOUrnal** over the name of the current panel (directly below the Historical Flashback title line) and press Enter.
- On any flashback detail panel, press F10 or F11 until you toggle to the JOURNAL version of the panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:37:52
==>                                                                FLSHBACK A
                          Historical Flashback                          1:1/1
                                  JOURNAL
   Jobname    Time   Tran Task#
   CICS21A  10:14:59 CCMF 00323
Resource  Count     Time  Average     High
J02           2    0.004    0.002    0.002



F1=Help      F2=System    F3=Return    F4=Flshback   F5=Continue   F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd  F11=Togl Bwd  F12=Exit
```

Panel Field Descriptions

Fields common to all flashback panels are described only in the earlier section, DEFAULT Flashback Panel. The JOURNAL Flashback Detail panel also has the following fields:

Field	Description
Resource	Journal file name
Count	Number of requests
Time	Total request time
Average	Average request time
High	Maximum request time

SECURITY Flashback Detail Panel

The SECURITY Flashback Detail panel displays a detailed record of external security requests and timings.

Access

You can access the SECURITY Flashback Detail panel in any of the following ways:

- On the SECURITY Flashback panel, cursor-select a transaction.
- On any flashback detail panel, type **SECurity** over the name of the current panel (directly below the Historical Flashback title line) and press Enter.
- On any flashback detail panel, press F10 or F11 until you toggle to the SECURITY version of the panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:37:52
==>                                                                FLSHBACK A
                          Historical Flashback                          1:1/1
                                SECURITY
   Jobname    Time   Tran Task#
   CICS21A  23:25:44 CSAC 00174
Resource  Count     Time  Average     High
CHECK         1    0.000    0.000    0.000


F1=Help      F2=System    F3=Return    F4=Flshback   F5=Continue   F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd  F11=Togl Bwd  F12=Exit
```

Panel Field Descriptions

Fields common to all flashback panels are described only in the earlier section, DEFAULT Flashback Panel. The SECURITY Flashback Detail panel also has the following fields:

Field	Description
Resource	Security request
Count	Number of requests
Time	Total request time
Average	Average request time
High	Maximum request time

TABLEMGR Flashback Detail Panel

The TABLEMGR Flashback Detail panel displays a detailed record of CICS table manager requests and timings.

Access

You can access the TABLEMGR Flashback Detail panel in any of the following ways:

- On the TABLEMGR Flashback panel, cursor-select a transaction.
- On any flashback detail panel, type **TABLemgr** over the name of the current panel (directly below the Historical Flashback title line) and press Enter.
- On any flashback detail panel, press F10 or F11 until you toggle to the TABLEMGR version of the panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:37:52
==>                                                                 FLSHBACK A
                          Historical Flashback                           1:3/3
                                TABLEMGR
   Jobname    Time   Tran Task#
   CICS21A  07:04:14 CRSQ 00310
Resource  Count     Time  Average     High
PCT           1    0.000    0.000    0.000
PPT           2    0.000    0.000    0.000
PFT           1    0.000    0.000    0.000


F1=Help      F2=System    F3=Return    F4=Flshback   F5=Continue   F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd  F11=Togl Bwd  F12=Exit
```

Panel Field Descriptions

Fields common to all flashback panels are described only in the earlier section, DEFAULT Flashback Panel. The TABLEMGR Flashback Detail panel also has the following fields:

Field	Description
Resource	Type of table requested
Count	Number of requests
Time	Total request time
Average	Average request time
High	Maximum request time

USEREXIT Flashback Detail Panel

The USEREXIT Flashback Detail panel displays a detailed record of user exit requests and timings.

Access

You can access the USEREXIT Flashback Detail panel in any of the following ways:

- On the USEREXIT Flashback panel, cursor-select a transaction.
- On any flashback detail panel, type **USErexit** over the name of the current panel (directly below the Historical Flashback title line) and press Enter.
- On any flashback detail panel, press F10 or F11 until you toggle to the USEREXIT version of the panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:37:52
==>                                                                FLSHBACK A
                          Historical Flashback                          1:2/2
                                USEREXIT
   Jobname    Time   Tran Task#
   CICS21A  10:14:59 CCMF 00323
Resource  Count     Time  Average     High
XKCREQ        6    0.001    0.000    0.001
XKCDISP       1    0.000    0.000    0.000



F1=Help      F2=System    F3=Return    F4=Flshback   F5=Continue   F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd  F11=Togl Bwd  F12=Exit
```

Panel Field Descriptions

Fields common to all flashback panels are described only in the earlier section, DEFAULT Flashback Panel. The USEREXIT Flashback Detail panel also has the following fields:

Field	Description
Resource	Exit name
Count	Number of requests
Time	Total request time
Average	Average request time
High	Maximum request time

WAITS Flashback Detail Panel

The WAITS Flashback Detail panel displays a detailed record of CICS waits by subsystem.

Access

You can access the WAITS Flashback Detail panel in any of the following ways:

- On the WAITS Flashback panel, cursor-select a transaction.
- On any flashback panel, enter **W** next to a transaction.
- On any flashback detail panel, type **WAI** or **WAITS** over the name of the current panel (directly below the Historical Flashback title line) and press Enter.
- On any flashback detail panel, press F10 or F11 until you toggle to the WAITS version of the panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:38:37
==>                                                                FLSHBACK A
                          Historical Flashback                          1:1/1
                                WAITS
   Jobname    Time   Tran Task#
   CICS21A  00:08:20 S140 00018
Resource  Count     Time  Average     High
FCP          11    0.005    0.000    0.001



F1=Help      F2=System    F3=Return    F4=Flshback   F5=Continue   F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd  F11=Togl Bwd  F12=Exit
```

Panel Field Descriptions

Fields common to all flashback panels are described only in the earlier section, DEFAULT Flashback Panel. The WAITS Flashback Detail panel also has the following fields:

Field	Description
Resource	CICS subsystem processing the request
Count	Number of times the transaction waited for a CICS subsystem to process a request
Time	Total wait time
Average	Average wait time
High	Maximum wait time

UMBRELLA Flashback Detail Panel

The UMBRELLA Flashback Detail panel displays a detailed record of umbrella transactions.

Access

You can access the UMBRELLA Flashback Detail panel in any of the following ways:

- On the UMBRELLA Flashback panel, cursor-select a transaction.
- On any flashback panel, enter **U** next to a transaction.
- On any flashback detail panel, type **UMB** or **UMBRELLA** over the name of the current panel (directly below the Historical Flashback title line) and press Enter.
- On any flashback detail panel, press F10 or F11 until you toggle to the UMBRELLA version of the panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:38:37
==>                                                                  FLSHBACK
                          Historical Flashback                     1:4/4-DATA
                                    UMBRELLA
   Jobname  Time     Tran Task#   Userid   LU-Name      CPU     Resp Umbrella
   CICSMROB 08:54:59 CCMF 00328                        0.001
Resource            Count
PROGRAMS                1
STORAGE TYPES           5
JOURNALS                1
TABLE MANAGER           3




F1=Help      F2=System    F3=Return    F4=Flshback   F5=Continue   F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd  F11=Togl Bwd  F12=Exit
```

Panel Field Descriptions

Fields common to all flashback panels are described only in the earlier section, DEFAULT Flashback Panel. The UMBRELLA Flashback Detail panel also has the following fields:

Field	Description
Umbrella	Name of umbrella transaction

OVERHEAD Flashback Detail Panel

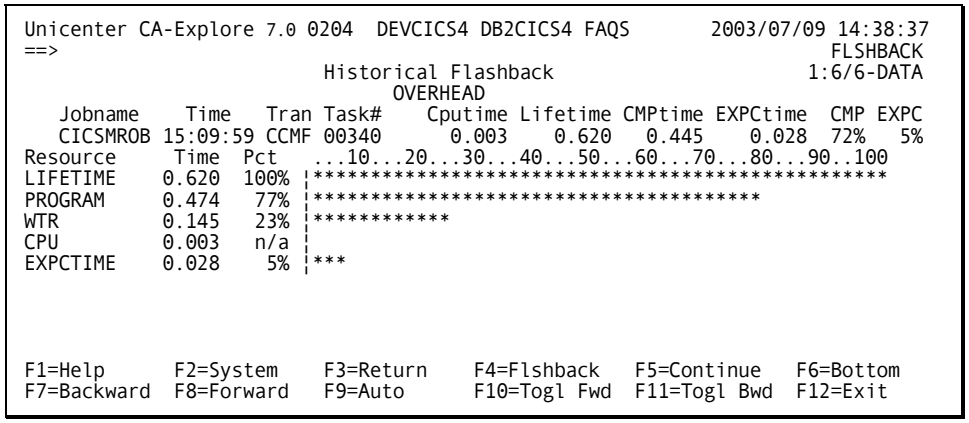
The OVERHEAD Flashback Detail panel displays overhead by CICS transaction.

Access

You can access the OVERHEAD Flashback Detail panel in any of the following ways:

- On the OVERHEAD Flashback panel, cursor-select a transaction.
- On any flashback panel, enter **O** next to a transaction.
- On any flashback detail panel, type **OVE** or **OVERHEAD** over the name of the current panel (directly below the Historical Flashback title line) and press Enter.
- On any flashback detail panel, press F10 or F11 until you toggle to the OVERHEAD version of the panel.

Sample Panel



Panel Field Descriptions

Fields common to all flashback panels are described only in the earlier section, DEFAULT Flashback Panel. The OVERHEAD Flashback Detail panel also has the following fields:

Field	Description
Cputime	CPU time allocated to transaction when in user code or CICS code
Lifetime	Transaction lifetime, which is the time difference between the start and end of the transaction
EXPCtime	Average time spent in Unicenter CA-Explore for CICS code, in seconds
CMP	Percent of lifetime spent in CICS trace collection time
EXPC	Percent of lifetime spent in Unicenter CA-Explore for CICS code

Field	Description
Resource	Resource type. Some of the resource types that may appear are: COUNT Number of transactions used for analysis. CPU CPU time allocated to transaction when in user or CICS time. DL/I Time in DL/I code. EXPCTIME Average time (in seconds) spent in Unicenter CA-Explore for CICS code. FILE I/O Time that the transaction waits for file requests. This time is only for those datasets in the FCT. LIFETIME Transaction lifetime, which is the time difference between the transaction start time and end time. MAX RESP Maximum response time. PROGRAM Time spent executing program code. RESOURCE Time spent waiting on an internal CICS resource. If a transaction needs a resource and must wait for it to become available, CICS places the transaction on the active DCA chain with a dispatch control indicator (DCI) of X'88'. If a program needs to be loaded into the DSA, this puts the transaction in this wait state. If a transaction must wait on strings or buffers, it is put in this state. SUSPEND Time spent suspended.

Field	Description
Resource (continued)	STORSUSP Time suspended because of an inability to satisfy a storage request. TERM I/O Time spent when the transaction forces a terminal wait. Normally, a pseudo-conversational TRANS sends a BMS map. The TERM I/O is scheduled after the transaction ends. You can force the BMS map to be written immediately, or if it is a conversational task, then TERM I/O must be forced to occur. In this case, TERM I/O time is the time spent to handle the I/O. TOT RESP Total response time. WAIT Time a transaction must wait for ECBs to be posted. Includes intrapartition dataset I/O time and DFHTEMP I/O. WTR Time transaction spent on the active DCA chain waiting to run.
Time	Amount of time spent in resource.
Pct	Percent of lifetime spent in resource, shown in both numeric and graph form.

TIMES Flashback Detail Panel

The TIMES Flashback Detail panel displays transaction start and end times.

Access

You can access the TIMES Flashback Detail panel in any of the following ways:

- On the TIMES Flashback panel, cursor-select a transaction.
- On any flashback detail panel, type **TIMes** over the name of the current panel (directly below the Historical Flashback title line) and press Enter.
- On any flashback detail panel, press F10 or F11 until you toggle to the TIMES version of the panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:38:37
==>                                                                   FLSHBACK
                            Historical Flashback                  1:11/11-DATA
                                    TIMES
   Jobname    Time   Tran Task#   Start    End      Lifetime Resptime  WTRtime
   CICS2    02:05:40 EXPC 01580   02:05:40 02:05:40    0.013    0.013    0.001
Resource     Time  Pct    ...10...20...30...40...50...60...70...80...90..100
LIFETIME    0.013  100% |************************************************
PROGRAM     0.012   92% |********************************************
SUSPEND     0.000    2% |*
WAIT        0.000    2% |*
WTR         0.001    4% |**
RESPTIME    0.013   n/a |
MAX RESP    0.013   n/a |
TOT RESP    0.013   n/a |
CPU         0.010   n/a |
EXPCTIME    0.001    6% |***

F1=Help      F2=System    F3=Return    F4=Flshback   F5=Continue   F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd  F11=Togl Bwd  F12=Exit
```

Panel Field Descriptions

Fields common to all flashback panels are described only in the earlier section, DEFAULT Flashback Panel. The TIMES Flashback Detail panel also has the following fields:

Field	Description
Start	Transaction start time, which is the time at which the transaction was put on the DCA (DCA entry mode).
End	Transaction end time, which is the time at which the TCA (storage) was freed.
Lifetime	Transaction lifetime, which is the difference between the transaction's start and end times.
Resptime	The transaction response time.
WTRtime	The transaction waiting-to-run time.

Field	Description
Resource	COUNT Number of transactions used for analysis. CPU CPU time allocated to the transaction when in user or CICS time. DL/I Time in DL/I code. EXPCTIME Average time (in seconds) spent in Unicenter CA-Explore for CICS code. FILE I/O Time that the transaction waits for file requests. This time is only for those datasets in the FCT. LIFETIME Transaction lifetime, which is the time difference between the transaction start time and end time. MAX RESP Maximum response time. PROGRAM Time spent executing program code. RESOURCE Time spent waiting on an internal CICS resource. If a transaction needs a resource and must wait for it to become available, CICS will place the transaction on the active DCA chain with a dispatch control indicator (DCI) of X'88'. If a program needs to be loaded into the DSA, this will cause the transaction to be put in this wait state. If a transaction must wait on strings or buffers, it will be put in this state. SUSPEND Time spent suspended. STORSUSP Time suspended because of an inability to satisfy a storage request.

Field	Description
Resource (continued)	TERM I/O Time spent when the transaction forces a terminal wait. Normally, a pseudo-conversational TRANS sends a BMS map. The TERM I/O is scheduled after the transaction ends. You can force the BMS map to be written immediately, or if it is a conversational task, then TERM I/O must be forced to occur. In this case, TERM I/O time is the time spent to handle the I/O. TOT RESP Total response time. WAIT Time that a transaction must wait for ECBs to be posted. Intrapartition dataset I/O time and DFHTEMP I/O is included. WTR Time the transaction spent on the active DCA chain waiting to run.
Time	Amount of time spent in resource.
Pct	Percent of lifetime spent in resource, shown in both numeric and graph form.

Captured Panels Display: REPLAY

The REPLAY panel displays a list of panels captured when the screen capture facility is on. See the chapter titled "Function Commands" for a description of the CAPTURE command, which controls the screen capture facility.

You can select a captured panel from the REPLAY panel to redisplay it.

Menu Access

On the /HISTORY menu, cursor-select the REPLAY option

Command Access

Enter **REPLAY** on the command line of any Unicenter CA-Explore for CICS panel.

Command Syntax and Operands

```
REPLAY [jobname]
```

Operand	Description
jobname	String specifying the names of jobs associated with the captured panels to be displayed. You can include generic characters in the string, as explained in the chapter titled "Using CA-Unicenter Performance Management for CICS." If you do not specify a jobname, all the recaptured screens are displayed.

Sort Arguments

- JOBname
- DATE

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:39:24
==>                                                                   REPLAY
                        Replay Captured Panels                        1:9/9
   Jobname      Date     Time   User     Scrn-Size  Command
_  EXPC500  2002/04/24 22:21:05 L03NAC3  24 x 80    HISTORY  PLOT
_  EXPC500  2002/04/24 22:19:37 L03NAC3  24 x 80    HISTORY  PLOT
Options:  (S)elect, (D)elete
F1=Help      F2=System     F3=Return    F4=Flshback  F5=Continue  F6=Bottom
F7=Backward  F8=Forward    F9=Auto      F10=Toggle   F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Jobname	Name of the job associated with the captured panel
Date	Date when the panel was captured
Time	Time when the panel was captured
User	ID of the user who captured the panel or, if the user was not logged on, the ID of the terminal
Scrn-Size	Screen size
Command	Command used to display the panel

Margin Commands

Command	Displays
D	The captured panel you select

Deleting a Captured Panel

Enter **DELETE** on a panel selected from the REPLAY panel.

Field-level Help

The F1 Help key, which opens field-level help, is activated for the main REPLAY panel, but not for the captured screens.

Statistical Review Summaries: REVIEW

The REVIEW panel summarizes CICS statistics on a daily basis. One entry is logged for each day of activity while Unicenter CA-Explore for CICS is active.

Menu Access

On the /HISTORY menu, cursor-select the REVIEW option

Command Access

Enter **REVI** or **REVIEW** on the command line of any Unicenter CA-Explore for CICS panel.

Command Syntax and Operands

```
REVIew [ALL|jobname] [HOUR nn]
```

Operand	Displays
ALL	All entries, regardless of jobname.
jobname	Only entries with the jobname you specify.
nn	Only entries created within the hour you specify. Replace *nn* with the hour of the 12-hour display. Valid values are 1 through 11 (1 a.m. through 11 a.m.).

If you are in a CICS region and do not specify a jobname, information about the current job is displayed. If you are using the batch master and do not specify a jobname, information for all jobs is displayed.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:39:50
==>                                                                   REVIEW
                              Statistical Review               127:142/142-DATA

   Jobname   Date      Trans CPU-Time LifeTime RespTime Thresh Abends Comp SOS
_  CICSICCF 2002/01/11    20    0.018    0.387    0.210
_  CICSICCF 2002/01/20   514    0.020  0:02:40    4.922      6      1
_  CICSICCF 2002/01/21   961    0.013    0.464    0.208      8      2
_  CICSICCF 2002/01/22    20    0.001    0.002    0.000
_  CICSICCF 2002/01/24   241    0.015  0:01:45    0.178      5
_  CICSICCF 2002/01/25   232    0.008    0.324    0.172     14
_  CICSICCF 2002/01/26   281    0.010    0.224    0.127      5
_  CICSICCF 2002/01/27   122    0.017  0:04:16    0.243      7      1
_  CICSICCF 2002/01/28   490    0.009    0.145    0.093      2
_  CICSICCF 2002/01/29    21    0.001    0.002    0.000      1
_  CICSICCF 2002/01/30     2    0.007    0.471    0.000      2
_  CICSICCF 2002/01/31   237    0.010    1.748    0.172      1
_  CICSICCF 2002/02/02  1060    0.007   37.475    0.294     13
_  CICSICCF 2002/02/03   510    0.017  0:03:15    0.140      4
_  CICSICCF 2002/02/04   951    0.031   14.532    0.137     24      1
_  CICSICCF 2002/02/11   806    0.012  0:01:08    0.156     15

Options:  (S)elect, (D)elete
F1=Help      F2=System    F3=Return    F4=Flshback  F5=Continue  F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Toggle   F11=         F12=Exit
```

Panel Field Descriptions

Field	Description
Jobname	Name of Unicenter CA-Explore for CICS jobs
Date	Date of the activity
Trans	Number of transactions executed
CPU-Time	Average CPU time of a transaction
LifeTime	Average transaction lifetime
RespTime	Average transaction response time
Thresh	Number of Unicenter CA-Explore for CICS thresholds triggered
Abends	Number of abends
Comp	Number of storage compressions for CICS 2.3, or "n/a" for TS 1.1 (see note)
S-O-S	Number of short-on-storage conditions

Note: The number of Storage Compressions for CICS Transaction Server (TS) systems is not displayed by Unicenter CA-Explore for CICS. CICS TS is more proactive in recovering storage on a regular basis than CICS 2.3, which triggered storage compressions based on critical situations. CICS TS uses an algorithm to perform this self-tuning activity by progressively deleting currently unused programs, and slowing the attachment of new tasks. The objective of this process in CICS TS (referred to as Dynamic Program Storage Compression) is to spread the cost of managing storage and reduce the large overhead of a full-program compression (as in CICS 2.3). Since this dynamic loading/reloading of programs is handled with a VSE subtask, other user transactions may run in parallel with this process. For this reason, the number of times CICS TS enters DPSC is of much less value than its counterpart in CICS 2.3. For more information, see the IBM Manual *CICS Transaction Server for VSE/ESA Performance Guide*.

Displaying Additional Fields

Additional fields you can display using F10 are as follows:

Field	Description
I/O-Time	Average file I/O service time
I/Os	Number of file I/O requests
Splits	Number of CI/CA splits

Margin Commands

Command	Description
S	Displays detailed information for the date you select.
D	Deletes the detailed information for the date you select. This is valid only on the summary panel, and not the detail panel.

F-Key Description

F Key	Description
F10	Toggles between the following two sets of fields: ■ Thresh, Abends, Comp, and S-O-S ■ I/O Time, I/Os, and Splits

Related Configuration Options

- REVIEW-HOUR1
- REVIEW-TIME

Statistical Review Details

The REVIEW Detail panel displays detailed information for the date you select on the REVIEW panel, summarized by hour.

Access

On the REVIEW Summary panel, cursor-select a date.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:39:50
==>                                                                    REVIEW
                              Statistical Review

 Jobname      Date    Trans CPU-Time LifeTime RespTime Thresh Abends Comp  SOS
 CICSICCF 2002/01/20    514    0.020  0:02:40    4.922       6       1
               AM         7    0.001    0.003    0.000
_             7:00        33    0.007    0.152    0.093
_             8:00        37    0.006    0.087    0.086
_             9:00         1    0.002    0.252    0.000
_            10:00        10    0.003    0.491    0.226
_            11:00         1    0.002    0.419    0.000
_            12:00         4    0.702  5:33:26    0.000       2
_             1:00       143    0.010   15.881   18.388       1
_             2:00       151    0.029    0.154    0.114       2
_             3:00        40    0.013    1.760    0.182       1       1
_             4:00         2    0.004    0.389    0.377
_             5:00        85    0.006    0.062    0.062
_             6:00                                0.000
               PM                                 0.000

F1=Help      F2=System    F3=Return    F4=Flshback  F5=Continue  F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Toggle   F11=         F12=Exit
```

System Data Collection Summaries: SYSDATA

System data collection summary panels display summary information about a specific jobname.

Each summary panel has a corresponding *detail* panel. Detail panels are described in the section System Data Collection Detail Panels.

Menu Access

On the /HISTORY menu, cursor-select the SYSDATA option.

Command Access

Enter **SYSDATA** on the command line of any Unicenter CA-Explore for CICS menu.

Moving Among System Data Collection Panels

Both the menu and command access methods display the System Data Collection INTERVAL summary panel (see the section INTERVAL System Data Collection Panel). Use the following methods to move among system data collection summary panels:

- To toggle through summary panels, press F10 or F11.
- To display a specific summary panel, type the name of that panel over the name of the current panel (directly below the System Data Collection title line) and press Enter.

Each summary panel has a corresponding detail panel. To access a detail panel for a specific summary panel, do one of the following:

- Cursor-select a specific jobname on the summary panel.
- Type the name of the detail panel you want to display over the name of the current panel (directly below the System Data Collection title line) and press Enter.

Detail panels are described in the section System Data Collection Detail Panels.

Panel Display Options

The following table lists the system data collection summary panels in the order they appear when you use the F10 toggle key.

This Panel	Displays
INTERVAL	System data collected during specified intervals
STORAGE	Storage usage information for a specified interval
DSA	DSA usage information for a specified interval
DSAPOOLS	DSA usage information for a specified interval
GETVIS24	Information about usage of GETVIS storage below the 16MB line for a specified interval
GETVIS31	Information about usage of GETVIS storage above the 16MB line for a specified interval
VSAM	VSAM file information
THRESHOL	Triggered threshold information
ANALYSIS	Transaction degradation analysis information for a specified interval

Panel Field Descriptions

The following table describes the fields that are common to all system data collection summary panels:

Field	Description
Date	Date that the job was executed.
From	Earliest date and time available for display. This field is located in the upper right corner of the display.
To	Latest date and time available for display. This field is located in the upper right corner of the display.
Jobname	CICS jobname.
Date	Transaction end date.
Time	Transaction end time.

Input Fields

The following table describes the input fields that are common to all system data collection summary panels:

Field	Description
Jobname	Specify the CICS jobname to be displayed. You can include generic characters in the string. This field is located in the upper left corner of the display.
Panelname	Name of the current system data collection panel, located directly beneath the System Data Collection title line. You can access another system data collection panel by entering its name in this field.
From	Specify the date and time of the first record to be displayed. This field is located in the upper left corner of the display. The starting date and time cannot be earlier than the date and time shown in the From: field in the upper right corner of the display.
To	Specify the date and time of the last record to be displayed. This field is located in the upper left corner of the display. The starting date and time cannot be later than the date and time shown in the To: field in the upper right corner of the display.

Panel Descriptions

Many of the panels contained in the sections that follow display the same information and input fields. The fields that are common to all System Data Collection panels are described only in the System Data Collection Panels section. Fields that are unique to a given panel are described in the topic for that particular panel.

INTERVAL System Data Collection Panel

The INTERVAL System Data Collection panel displays system data collected during specified intervals.

Access

You can access the INTERVAL System Data Collection panel in any of the following ways:

- On the /HISTORY menu, cursor-select the SYSDATA option.
- Enter **SYSDATA** on the command line of any Unicenter CA-Explore for CICS panel.
- On any system data collection summary panel, type **INTERVAL** over the name of the current panel (directly below the System Data Collection title line) and press Enter.
- On any system data collection summary panel, press F10 or F11 until you reach the INTERVAL version of the panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:39:50
==>                                                                   SYSDATA
  Jobname    Date         System Data Collection     From: 2003/02/15 08:10:42
  CICSICCF 2003/02/16             INTERVAL             To: 2003/02/16 11:26:00
  From: YYMMDD HHMMSS
    To: YYMMDD HHMMSS
  Jobname    Date      Time    Trans   CPUtime   SIOS DSACMP Thresh   Interval
_ CICSICCF 2003/02/16 08:00:59            0.48     84                   0:09:59
_ CICSICCF 2003/02/16 08:11:00            0.63    372                   0:10:00
F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top         F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd F11=Togl Bwd   F12=Exit
```

Panel Field Descriptions

The fields that are common to all system data collection summary panels are described earlier in the System Data Collection Summary Panels section. The INTERVAL System Data Collection also has the following fields:

Field	Description
Trans	Number of transactions during the interval
CPUtime	CPU time used during the interval
SIOS	Number of start I/Os during the interval
DSACMP	Number of DSA compressions during the interval for CICS 2.3, or "n/a" (not applicable) for TS 1.1 (see note)
Thresh	Number of threshold exceptions during the interval
Interval	Length of the interval

Note: The number of Storage Compressions for CICS Transaction Server (TS) systems is not displayed by Unicenter CA-Explore for CICS. CICS TS is more proactive in recovering storage on a regular basis than CICS 2.3, which triggered storage compressions based on critical situations. CICS TS uses an algorithm to perform this self-tuning activity by progressively deleting currently unused programs, and slowing the attachment of new tasks. The objective of this process in CICS TS (referred to as Dynamic Program Storage Compression) is to spread the cost of managing storage and reduce the large overhead of a full-program compression (as in CICS 2.3). Since this dynamic loading/reloading of programs is handled with a VSE subtask, other user transactions may run in parallel with this process. For this reason, the number of times CICS TS enters DPSC is of much less value than its counterpart in CICS 2.3. For more information, see the IBM Manual *CICS Transaction Server for VSE/ESA Performance Guide*.

Input Fields

The input fields common to all system data collection panels are described earlier in the System Data Collection Panel section.

STORAGE System Data Collection Panel

The STORAGE System Data Collection panel displays information about usage of various storage areas during a specified interval.

Access

You can access the STORAGE System Data Collection panel in either of the following ways:

- On any system data collection panel, type **STORAGE** over the name of the current panel (directly below the System Data Collection title line) and press Enter.
- On any system data collection panel, press F10 or F11 until you reach to the STORAGE version of the panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:39:50
==>                                                                   SYSDATA
  Jobname    Date          System Data Collection    From: 2002/02/15 08:10:42
  CICSICCF 02/02/16              STORAGE               To: 2002/02/16 11:26:00
  From: YYMMDD HHMMSS
    To: YYMMDD HHMMSS
  Jobname      Date     Time    DSA% DSA-Max GETV24% GETV24M GETV31% GETV31M
_ CICSICCF 2002/02/16 08:00:59   72%   1052K     67%   1144K     48%   1044K
_ CICSICCF 2002/02/16 08:11:00   72%   1052K     68%   1144K     49%   1016K
_ CICSICCF 2002/02/16 08:20:59   72%   1052K     67%   1144K     48%   1044K
_ CICSICCF 2002/02/16 08:30:59   72%   1052K     67%   1144K     48%   1044K
_ CICSICCF 2002/02/16 08:40:59   73%   1008K     68%   1108K     51%    988K
_ CICSICCF 2002/02/16 08:50:59   73%   1008K     68%   1108K     51%    980K
_ CICSICCF 2002/02/16 09:01:00   73%   1008K     68%   1120K     50%   1000K
_ CICSICCF 2002/02/16 09:10:59   74%    974K     70%   1080K     51%    984K
_ CICSICCF 2002/02/16 09:20:59   74%    974K     70%   1080K     52%    956K
_ CICSICCF 2002/02/16 09:30:59   74%    974K     70%   1080K     50%    992K
_ CICSICCF 2002/02/16 09:41:29   74%    974K     70%   1080K     51%    956K
_ CICSICCF 2002/02/16 09:51:29   74%    974K     70%   1080K     50%    992K
_ CICSICCF 2002/02/16 10:01:30   74%    974K     70%   1080K     50%    992K
_ CICSICCF 2002/02/16 10:11:29   74%    974K     70%   1080K     50%    992K
F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top         F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd F11=Togl Bwd   F12=Exit
```

Panel Field Descriptions

The fields that are common to all system data collection summary panels are described earlier in the System Data Collection Summary Panels section. The STORAGE panel also includes the following fields:

Field	Description
DSA%	Percentage of the DSA that is full or in use
DSA-Max	Size of the largest contiguous block of DSA storage, in bytes
GETV24%	Percentage of GETVIS storage below the 16MB line that is full or in use
GETV24M	Size of the largest contiguous block of GETVIS storage below the 16MB line, in bytes
GETV31%	Percentage of GETVIS storage above the 16MB line that is full or in use
GETV31M	Size of the largest contiguous block of GETVIS storage above the 16MB line, in bytes

Input Fields

Input fields that are common to all system data collection summary panels are described earlier in the System Data Collection Panel section.

DSA System Data Collection Panel

The DSA System Data Collection panel displays information about DSA usage during a specified interval.

Access

You can access the DSA System Data Collection panel in either of the following ways:

- On any system data collection summary panel, type **DSA** over the name of the current panel (directly below the System Data Collection title line) and press Enter.
- On any system data collection summary panel, press F10 or F11 until you toggle to the DSA version of the panel.

Sample Panel for CICS 2.3

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS  FAQS       2003/07/09 14:40:58
==>                                                                  SYSDATA
  Jobname      Date          System Data Collection  From: 2002/02/15 08:10:42
  CICSICCF 2002/02/16              DSA                 To: 2002/02/16 11:26:00
  From: YYMMDD HHMMSS
    To: YYMMDD HHMMSS
  Jobname      Date     Time    DSA%   Size   Free   Comp
_ CICSICCF 2002/02/16 08:00:59   72%  3796K  1078K
_ CICSICCF 2002/02/16 08:11:00   72%  3796K  1078K
_ CICSICCF 2002/02/16 08:20:59   72%  3796K  1078K
_ CICSICCF 2002/02/16 08:30:59   72%  3796K  1078K
_ CICSICCF 2002/02/16 08:40:59   73%  3796K  1032K
_ CICSICCF 2002/02/16 08:50:59   73%  3796K  1032K
_ CICSICCF 2002/02/16 09:01:00   73%  3796K  1032K
_ CICSICCF 2002/02/16 09:10:59   74%  3796K  1004K
_ CICSICCF 2002/02/16 09:20:59   74%  3796K  1004K
_ CICSICCF 2002/02/16 09:30:59   74%  3796K  1004K
_ CICSICCF 2002/02/16 09:41:29   74%  3796K  1004K
_ CICSICCF 2002/02/16 09:51:29   74%  3796K  1004K
_ CICSICCF 2002/02/16 10:01:30   74%  3796K  1004K
_ CICSICCF 2002/02/16 10:11:29   74%  3796K  1004K
F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top         F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd F11=Togl Bwd   F12=Exit
```

Sample Panel for TS 1.1

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:39:50
 ==>                                                                 SYSDATA
    Jobname     Date         System Data Collection   From: 2002/05/26 16:04:40
    CICS410  2002/05/27             DSA                 To: 2002/05/27 11:39:59
    From: YYMMDD HHMMSS
      To: YYMMDD HHMMSS
    Jobname     Date       Time    DSA%   Size   Free   Comp   UDSA   CDSA
_   CICS410  2002/05/27 09:19:59   28%  7680K  2204K                  488K
_   CICS410  2002/05/27 09:29:59   28%  7680K  2204K                  488K
_   CICS410  2002/05/27 09:39:59   28%  7680K  2204K                  488K
_   CICS410  2002/05/27 09:49:59   28%  7680K  2204K                  488K
_   CICS410  2002/05/27 09:59:59   28%  7680K  2204K                  488K
_   CICS410  2002/05/27 10:09:59   28%  7680K  2204K                  488K
_   CICS410  2002/05/27 10:19:59   28%  7680K  2204K                  488K
_   CICS410  2002/05/27 10:29:59   28%  7680K  2204K                  488K
_   CICS410  2002/05/27 10:39:59   28%  7680K  2204K                  488K
_   CICS410  2002/05/27 10:49:59   28%  7680K  2204K                  488K
_   CICS410  2002/05/27 10:59:59   28%  7680K  2204K                  488K
_   CICS410  2002/05/27 11:09:59   28%  7680K  2204K                  488K
_   CICS410  2002/05/27 11:19:59   28%  7680K  2204K                  488K
_   CICS410  2002/05/27 11:29:59   28%  7680K  2204K                  488K

  F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
  F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd F11=Togl Bwd F12=Exit
```

Panel Field Descriptions

The fields that are common to all system data collection summary panels are described earlier in the System Data Collection Summary Panels section. The DSA System Data Collection panel also has the following fields:

Field	Description	For CICS Version
DSA%	Percentage of DSA used	CICS 2.3
Size	Size of the dynamic storage area, in bytes	CICS 2.3
Free	Amount of DSA that is free or available, in bytes	CICS 2.3
Comp	Number of DSA compressions during the interval, or "n/a" (not applicable) for TS 1.1 (see note)	CICS 2.3
UDSA	Number of bytes allocated from the UDSA, User DSA, below the 16Mb line	TS 1.1
CDSA	Number of bytes allocated from the CDSA, CICS DSA, below the 16 Mb line	TS 1.1

Note: The number of Storage Compressions for CICS Transaction Server (TS) systems is not displayed by CA-Explore for CICS. CICS TS is more proactive in recovering storage on a regular basis than CICS 2.3, which triggered storage compressions based on critical situations. CICS TS uses an algorithm to perform this self-tuning activity by progressively deleting currently unused programs, and slowing the attachment of new tasks. The objective of this process in CICS TS (referred to as Dynamic Program Storage Compression) is to spread the cost of managing storage and reduce the large overhead of a full-program compression (as in CICS 2.3). Since this dynamic loading/reloading of programs is handled with a VSE subtask, other user transactions may run in parallel with this process. For this reason, the number of times CICS TS enters DPSC is of much less value than its counterpart in CICS 2.3. For more information, see the IBM Manual *CICS Transaction Server for VSE/ESA Performance Guide*.

Input Fields

Input fields that are common to all system data collection summary panels are described earlier in the System Data Collection Panel section.

DSAPOOLS System Data Collection Panel

The DSAPOOLS System Data Collection panel displays information about DSA usage during a specified interval.

Access

You can access the DSAPOOLS System Data Collection panel in either of the following ways:

- On any system data collection summary panel, type **DSAPOOLS** over the name of the current panel (directly below the System Data Collection title line) and press Enter.
- On any system data collection summary panel, press F10 or F11 until you toggle to the DSAPOOLS version of the panel.

Sample Panel for CICS 2.3

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS  FAQS       2003/07/09 14:41:56
==>                                                                  SYSDATA
  Jobname      Date         System Data Collection   From: 2002/02/15 08:10:42
  CICSICCF 2002/02/16             DSAPOOLS             To: 2002/02/16 11:26:00
  From: YYMMDD HHMMSS
    To: YYMMDD HHMMSS
  Jobname      Date     Time     Cntl   Tele   Task    Shr    RPL    Pgm
_ CICSICCF 2002/02/16 08:00:59   2048   4096  51200   262K   2048  2382K
_ CICSICCF 2002/02/16 08:11:00   2048   4096  51200   262K   2048  2382K
_ CICSICCF 2002/02/16 08:20:59   2048   4096  51200   262K   2048  2382K
_ CICSICCF 2002/02/16 08:30:59   2048   4096  51200   262K   2048  2382K
_ CICSICCF 2002/02/16 08:40:59   4096   4096  51200   262K   2048  2426K
_ CICSICCF 2002/02/16 08:50:59   4096   4096  51200   262K   2048  2426K
_ CICSICCF 2002/02/16 09:01:00   4096   4096  51200   262K   2048  2426K
_ CICSICCF 2002/02/16 09:10:59   4096   4096  51200   284K   2048  2432K
_ CICSICCF 2002/02/16 09:20:59   4096   4096  51200   284K   2048  2432K
_ CICSICCF 2002/02/16 09:30:59   4096   4096  51200   284K   2048  2432K
_ CICSICCF 2002/02/16 09:41:29   4096   4096  51200   284K   2048  2432K
_ CICSICCF 2002/02/16 09:51:29   4096   4096  51200   284K   2048  2432K
_ CICSICCF 2002/02/16 10:01:30   4096   4096  51200   284K   2048  2432K
_ CICSICCF 2002/02/16 10:11:29   4096   4096  51200   284K   2048  2432K
_
F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top         F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd F11=Togl Bwd   F12=Exit
```

Sample Panel for TS 1.1

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:41:27
 ==>                                                                 SYSDATA
    Jobname     Date         System Data Collection   From: 2002/05/26 16:04:40
    CICS410  2002/05/27             DSAPOOLS             To: 2002/05/27 11:49:59
    From: YYMMDD HHMMSS
      To: YYMMDD HHMMSS
    Jobname     Date      Time     SDSA   RDSA  EUDSA  ECDSA  ESDSA  ERDSA
_   CICS410  2002/05/27 09:29:59   4096   344K  1664K                 2976K
_   CICS410  2002/05/27 09:39:59   4096   344K  1664K                 2976K
_   CICS410  2002/05/27 09:49:59   4096   344K  1664K                 2976K
_   CICS410  2002/05/27 09:59:59   4096   344K  1664K                 2976K
_   CICS410  2002/05/27 10:09:59   4096   344K  1664K                 2976K
_   CICS410  2002/05/27 10:19:59   4096   344K  1664K                 2976K
_   CICS410  2002/05/27 10:29:59   4096   344K  1664K                 2976K
_   CICS410  2002/05/27 10:39:59   4096   344K  1664K                 2976K
_   CICS410  2002/05/27 10:49:59   4096   344K  1664K                 2976K
_   CICS410  2002/05/27 10:59:59   4096   344K  1664K                 2976K
_   CICS410  2002/05/27 11:09:59   4096   344K  1664K                 2976K
_   CICS410  2002/05/27 11:19:59   4096   344K  1664K                 2976K
_   CICS410  2002/05/27 11:29:59   4096   344K  1664K                 2976K
_   CICS410  2002/05/27 11:39:59   4096   344K  1664K                 2976K
_

  F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
  F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd F11=Togl Bwd F12=Exit
```

Panel Field Descriptions

The fields that are common to all system data collection summary panels are described earlier in the System Data Collection Summary Panels section. The DSAPOOLS System Data Collection panel also has the following fields:

Field	Description	For CICS Version
Cntl	Total storage allocated from the control subpool	CICS 2.3
Tele	Total storage allocated from the teleprocessing subpool	CICS 2.3
Task	Total storage allocated from the task subpool	CICS 2.3
Shr	Total storage allocated from the shared subpool	CICS 2.3
RPL	Total storage allocated from the RPL subpool	CICS 2.3
Pgm	Total storage allocated from the program subpool	CICS 2.3
SDSA	Shared storage below the 16Mb line	TS 1.1
RDSA	Read only storage below the 16Mb line	TS 1.1
EUDSA	User storage above the 16Mb line	TS 1.1
ECDSA	CICS storage above the 16Mb line	TS 1.1
ESDSA	Shared storage above the 16Mb line	TS 1.1
ERDSA	Read only storage above the 16Mb line	TS 1.1

Input Fields

Input fields that are common to all system data collection summary panels are described earlier in the System Data Collection Panel section.

GETVIS24 System Data Collection Panel

The GETVIS24 System Data Collection panel displays information about GETVIS storage usage below the 16MB line during the specified interval.

Access

You can access the GETVIS24 System Data Collection panel in either of the following ways:

- On any system data collection summary panel, type **GETVIS24** over the name of the current panel (directly below the System Data Collection title line) and press Enter.
- On any system data collection summary panel, press F10 or F11 until you toggle to the GETVIS24 version of the panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:42:24
==>                                                                   SYSDATA
  Jobname      Date        System Data Collection    From: 2002/02/15 08:10:42
  CICSICCF 2002/02/16            GETVIS24              To: 2002/02/16 11:26:00
  From: YYMMDD HHMMSS
    To: YYMMDD HHMMSS
  Jobname      Date     Time     Pct   Size   Free  Alloc    Max
_ CICSICCF 2002/02/16 08:00:59   67%  3584K  1176K  2408K  1144K
_ CICSICCF 2002/02/16 08:11:00   68%  3584K  1164K  2420K  1144K
F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top         F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd F11=Togl Bwd   F12=Exit
```

Panel Field Descriptions

The fields that are common to all system data collection summary panels are described earlier in the System Data Collection Summary Panels section. The GETVIS24 System Data Collection panel also has the following fields:

Field	Description
Pct	Percentage of GETVIS storage below the 16MB line used
Size	Amount of GETVIS storage below the 16MB line, in bytes
Free	Amount of GETVIS storage below the 16MB line that is unallocated
Alloc	Amount of GETVIS storage below the 16MB line that is allocated
Max	Size of the largest contiguous block of GETVIS storage below the 16MB line

Input Fields

Input fields that are common to all system data collection summary panels are described earlier in the System Data Collection Panel section.

GETVIS31 System Data Collection Panel

The GETVIS31 System Data Collection panel displays information about GETVIS storage usage above the 16MB line during a specified interval.

Access

You can access the GETVIS31 System Data Collection panel in either of the following ways:

- On any system data collection summary panel, type **GETVIS31** over the name of the current panel (directly below the System Data Collection title line) and press Enter.
- On any system data collection summary panel, press F10 or F11 until you toggle to the GETVIS31 version of the panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:42:24
==>                                                                   SYSDATA
  Jobname      Date         System Data Collection   From: 2002/02/15 08:10:42
  CICSICCF 2002/02/16             GETVIS31             To: 2002/02/16 11:26:00
  From: YYMMDD HHMMSS
    To: YYMMDD HHMMSS
  Jobname      Date     Time     Pct   Size   Free  Alloc    Max
_ CICSICCF 2002/02/16 08:00:59   48%  2048K  1064K   984K  1044K
_ CICSICCF 2002/02/16 08:11:00   49%  2048K  1044K  1004K  1016K
F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top         F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd F11=Togl Bwd   F12=Exit
```

Panel Field Descriptions

The fields that are common to all system data collection summary panels are described earlier in the System Data Collection Summary Panels section. The GETVIS31 System Data Collection panel also has the following fields:

Field	Description
Pct	Percentage of GETVIS storage above the 16MB line used
Size	Amount of GETVIS storage above the 16MB line, in bytes
Free	Amount of GETVIS storage above the 16MB line that is unallocated
Alloc	Amount of GETVIS storage above the 16MB line that is allocated
Max	Size of the largest contiguous block of GETVIS storage above the 16MB line

Input Fields

Input fields that are common to all system data collection summary panels are described earlier in the System Data Collection Panel section.

VSAM System Data Collection Panel

The VSAM System Data Collection panel displays VSAM file information.

Access

You can access the VSAM System Data Collection panel in either of the following ways:

- On any system data collection summary panel, type **VSAM** over the name of the current panel (directly below the System Data Collection title line) and press Enter.
- On any system data collection summary panel, press F10 or F11 until you toggle to the VSAM version of the panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:42:24
==>                                                                   SYSDATA
  Jobname      Date         System Data Collection   From: 2002/02/15 08:10:42
  CICSICCF 2002/02/16             VSAM                 To: 2002/02/16 11:26:00
  From: YYMMDD HHMMSS
    To: YYMMDD HHMMSS
  Jobname      Date     Time    Count
_ CICSICCF 2002/02/16 08:00:59      1
_ CICSICCF 2002/02/16 08:11:00      1
_ CICSICCF 2002/02/16 08:20:59      1
_ CICSICCF 2002/02/16 08:30:59      1
_ CICSICCF 2002/02/16 08:40:59      6
_ CICSICCF 2002/02/16 08:50:59      2
_ CICSICCF 2002/02/16 09:01:00      1
_ CICSICCF 2002/02/16 09:10:59      4
_ CICSICCF 2002/02/16 09:20:59      2
_ CICSICCF 2002/02/16 09:30:59      1
_ CICSICCF 2002/02/16 09:41:29      2
_ CICSICCF 2002/02/16 09:51:29      1
_ CICSICCF 2002/02/16 10:01:30      1
_ CICSICCF 2002/02/16 10:11:29      1
F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top         F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd F11=Togl Bwd   F12=Exit
```

Panel Field Descriptions

The fields that are common to all system data collection summary panels are described earlier in the System Data Collection Summary Panels section. The VSAM System Data Collection panel also has the following fields:

Field	Description
Count	Number of files used

Input Fields

Input fields that are common to all system data collection summary panels are described earlier in the System Data Collection Panel section.

THRESHOL System Data Collection Panel

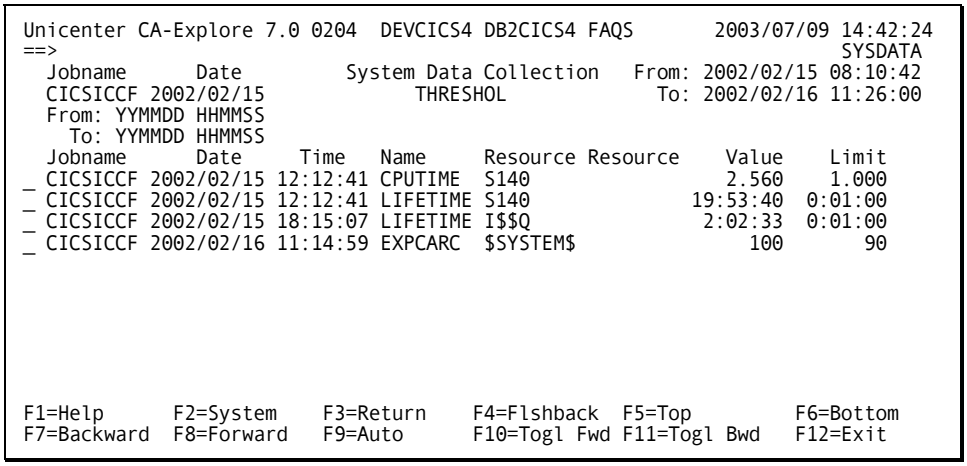
The THRESHOL System Data Collection panel displays information about triggered thresholds.

Access

You can access the THRESHOL System Data Collection panel in any of the following ways:

- On the /HISTORY menu, cursor-select the SYSDATA option.
- Enter **SYSDATA** on the command line of any Unicenter CA-Explore for CICS panel.
- On any system data collection summary panel, type **THRESHOL** over the name of the current panel (directly below the System Data Collection title line) and press Enter.
- On any system data collection summary panel, press F10 or F11 until you toggle to the THRESHOL version of the panel.

Sample Panel



```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:42:24
==>                                                                   SYSDATA
  Jobname      Date         System Data Collection   From: 2002/02/15 08:10:42
  CICSICCF 2002/02/15             THRESHOL             To: 2002/02/16 11:26:00
  From: YYMMDD HHMMSS
    To: YYMMDD HHMMSS
  Jobname      Date     Time   Name     Resource Resource    Value    Limit
_ CICSICCF 2002/02/15 12:12:41 CPUTIME  S140                 2.560    1.000
_ CICSICCF 2002/02/15 12:12:41 LIFETIME S140               19:53:40  0:01:00
_ CICSICCF 2002/02/15 18:15:07 LIFETIME I$$Q                2:02:33  0:01:00
_ CICSICCF 2002/02/16 11:14:59 EXPCARC  $SYSTEM$               100       90
F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top         F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd F11=Togl Bwd   F12=Exit
```

Panel Field Descriptions

The fields that are common to all system data collection summary panels are described earlier in the System Data Collection Summary Panels section. The THRESHOL System Data Collection panel also has the following fields:

Field	Description
Name	Threshold name
Resource	Resource to be monitored for the threshold. System thresholds have a resource defined as $SYSTEM$. A transaction ID appears in this field for other types of thresholds.
Resource	A second resource to be monitored. This field can be a terminal ID, a filename, or other resource, depending on the threshold.
Value	Threshold value.
Limit	Threshold trigger limit value.

Input Fields

Input fields that are common to all system data collection summary panels are described earlier in the System Data Collection Panel section.

ANALYSIS System Data Collection Panel

The ANALYSIS System Data Collection panel displays transaction degradation analysis information for a specified interval.

Access

You can access the ANALYSIS System Data Collection panel in either of the following ways:

- On any system data collection summary panel, type **ANALYSIS** over the name of the current panel (directly below the System Data Collection title line) and press Enter.
- On any system data collection summary panel, press F10 or F11 until you toggle to the ANALYSIS version of the panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:42:24
==>                                                                  SYSDATA
  Jobname      Date         System Data Collection   From: 2002/02/15 08:10:42
  CICSICCF 2002/02/16             ANALYSIS             To: 2002/02/16 11:26:00
  From: YYMMDD HHMMSS
    To: YYMMDD HHMMSS
  Jobname      Date     Time    Trans     Life     Pgm    File     WTR     CPU
_ CICSICCF 2002/02/16 08:00:59
_ CICSICCF 2002/02/16 08:11:00
_ CICSICCF 2002/02/16 08:20:59       1   0.0046  0.0028           0.0018  0.0013
_ CICSICCF 2002/02/16 08:30:59
_ CICSICCF 2002/02/16 08:40:59      12   0.4667  0.2281  0.0223   0.0118  0.0148
_ CICSICCF 2002/02/16 08:50:59
_ CICSICCF 2002/02/16 09:01:00
_ CICSICCF 2002/02/16 09:10:59      89   0.3876  0.0128           0.0013  0.0072
_ CICSICCF 2002/02/16 09:20:59      57   0.0269  0.0123           0.0005  0.0079
_ CICSICCF 2002/02/16 09:30:59       4   0.0584  0.0146           0.0005  0.0079
_ CICSICCF 2002/02/16 09:41:29      42   0.0207  0.0120           0.0010  0.0082
_ CICSICCF 2002/02/16 09:51:29
_ CICSICCF 2002/02/16 10:01:30       4   0.0904  0.0108           0.0005  0.0074
_ CICSICCF 2002/02/16 10:11:29
F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top         F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd F11=Togl Bwd   F12=Exit
```

Panel Field Descriptions

The fields that are common to all system data collection summary panels are described earlier in the System Data Collection Summary Panels section. The ANALYSIS System Data Collection panel also has the following fields:

Field	Description
Trans	Number of transactions during the interval
Life	Average lifetime of transactions during the interval
Pgm	Average duration of programs during the interval
File	Average duration of file I/Os during the interval
WTR	Average waiting to run time during the interval
CPU	Average CPU time during the interval

Input Fields

Input fields that are common to all system data collection summary panels are described earlier in the System Data Collection Panel section.

System Data Collection Details

System data collection detail panels display detailed information about a specific jobname.

Access

To access a System Data Collection detail panel for a specific summary panel, do one of the following:

- Cursor-select a specific jobname on the summary panel.
- Type the name of the panel you want to display over the name of the current panel (directly below the System Data Collection title line) and press Enter.
- Press F10 or F11 to toggle through the detail panels until you reach the desired detail panel.

INTERVAL System Data Collection Detail Panel

The INTERVAL System Data Collection Detail panel displays detailed information about an interval for a jobname selected from the INTERVAL System Data Collection panel.

Access

- On the INTERVAL System Data Collection panel, cursor-select a jobname record.
- On any system data collection detail panel, type **INTERVAL** over the name of the current panel (directly below the System Data Collection title line) and press Enter.
- On any system data collection detail panel, press F10 or F11 until you reach the INTERVAL version of the panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:39:50
==>                                                                   SYSDATA
                           System Data Collection                1:13/26-DATA
                                  INTERVAL
  Jobname      Date     Time    Trans  CPUtime   SIOS DSACMP Thresh   Interval
  CICSICCF 2002/02/16 08:11:00            0.63    372                  0:10:00
Resource                                 Value
Transactions                                 0
Interval                               0:10:00
Start time                 2002/02/16 08:00:59
End time                   2002/02/16 08:11:00
Threshold exceptions                         0
CPU time                                  0.63
Start I/Os                                 372
DSA percent full                            72
DSA compressions                             0
DSA available                            1078K
DSA size                                 3796K
DSA max block available                  1052K
DSA Subpool - Control                     2048

F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top         F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd F11=Togl Bwd   F12=Exit
```

Panel Field Descriptions

The information fields on the first row of this panel have the same meanings as the corresponding fields on the INTERVAL System Data Collection panel. This panel also includes the following fields:

Field	Description
Resource	Name of a resource
Value	Value for the resource

STORAGE System Data Collection Detail Panel

The STORAGE System Data Collection Detail panel displays detailed information about storage for a job selected from the STORAGE System Data Collection panel.

Access

- On the STORAGE System Data Collection panel, cursor-select a jobname record.
- On any system data collection detail panel, type **STORAGE** over the name of the current panel (directly below the System Data Collection title line) and press Enter.
- On any system data collection detail panel, press F10 or F11 until you reach the STORAGE version of the panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:39:50
==>                                                                  SYSDATA
                             System Data Collection                1:12/12-DATA
                                      STORAGE
   Jobname      Date     Time    DSA% DSA-Max GETV24% GETV24M GETV31% GETV31M
   CICSICCF 2002/02/16 08:11:00   72%   1052K     68%   1144K     49%   1016K
Resource                                  Value
DSA percent full                             72
DSA available                              1078K
DSA size                                   3796K
DSA max block available                    1052K
GETVIS 24 - Size                           3584K
GETVIS 24 - Free                           1164K
GETVIS 24 - Allocated                      2420K
GETVIS 24 - Max block                      1144K
GETVIS 31 - Size                           2048K
GETVIS 31 - Free                           1044K
GETVIS 31 - Allocated                      1004K
GETVIS 31 - Max block                      1016K


F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top         F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd F11=Togl Bwd   F12=Exit
```

Panel Field Descriptions

The information fields on the first row of this panel have the same meanings as the corresponding fields on the STORAGE System Data Collection panel. This panel also includes the following fields:

Field	Description
Resource	Name of a resource
Value	Value for the resource

DSA System Data Collection Detail Panel

The DSA System Data Collection Detail panel displays detailed information about DSA usage for a job selected from the DSA System Data Collection panel.

Access

- On the DSA System Data Collection panel, cursor-select a jobname record.
- On any system data collection detail panel, type **DSA** over the name of the current panel (directly below the System Data Collection title line) and press Enter.
- On any system data collection detail panel, press F10 or F11 until you reach the DSA version of the panel.

Sample Panel for CICS 2.3

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS  FAQS       2003/07/09 14:40:58
==>                                                                   SYSDATA
                            System Data Collection                1:11/11-DATA
                                  DSA
   Jobname      Date     Time    DSA%   Size   Free   Comp
   CICSICCF 2002/02/16 08:11:00   72%  3796K  1078K
Resource                                Value
DSA percent full                           72
DSA compressions                            0
DSA available                           1078K
DSA size                                3796K
DSA max block available                 1052K
DSA Subpool - Control                    2048
DSA Subpool - Teleproc                   4096
DSA Subpool - Task                      51200
DSA Subpool - Shared                     262K
DSA Subpool - VTAM-RPL                   2048
DSA Subpool - Program                   2382K



F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top         F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd F11=Togl Bwd   F12=Exit
```

Sample Panel for TS 1.1

```
CA-Explore For CICS 7.0 SP00  VSELVL2F CICSPROD CICS       2004/05/19 11:29:48
  ==>                                                                  SYSDATA
                              System Data Collection                1:13/13-DATA
                                     DSA
     Jobname     Date      Time    DSA%   Size   Free   Comp   UDSA   CDSA
     CICSPROD 2004/05/19 09:19:59   18% 17408K  3164K    n/a   252K   228K

  Resource                                  Value
  DSA percent full                             18
  DSA compressions                            n/a
  DSA available                             3164K
  DSA size                                 17408K
  DSA max block available                    256K
  DSA Subpool - UDSA                         252K
  DSA Subpool - CDSA                         228K
  DSA Subpool - SDSA                        40960
  DSA Subpool - RDSA                        90112
  DSA Subpool - ECDSA                        432K
  DSA Subpool - EUDSA                       1024K
  DSA Subpool - ESDSA                        984K
  DSA Subpool - ERDSA                        116K



   F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
   F7=Backward  F8=Forward   F9=Auto      F10=         F11=         F12=Exit
```

Panel Field Descriptions

The information fields on the first row of this panel have the same meanings as the corresponding fields on the DSA System Data Collection panel. This panel also includes the following fields:

Field	Description	For CICS Version
Resource	Name of a resource	CICS 2.3 and TS 1.1
Value	Value for the resource	CICS 2.3 and TS 1.1

DSAPOOLS System Data Collection Detail Panel

The DSAPOOLS System Data Collection Detail panel displays detailed information about DSA usage for a job selected from the DSAPOOLS System Data Collection panel.

Access

- On the DSAPOOLS System Data Collection panel, cursor-select a jobname record.
- On any system data collection detail panel, type **DSAPOOLS** over the name of the current panel (directly below the System Data Collection title line) and press Enter.
- On any system data collection detail panel, press F10 or F11 until you reach the DSAPOOLS version of the panel.

Sample Panel with CICS 2.3

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS  FAQS       2003/07/09 14:41:56
==>                                                                   SYSDATA
                            System Data Collection                  1:6/6-DATA
                                   DSAPOOLS
   Jobname      Date     Time     Cntl   Tele   Task    Shr    RPL    Pgm
   CICS2    2002/02/05 09:37:00   2048   4096  34816   258K   2048  1058K
Resource                                Value
DSA Subpool - Control                    2048
DSA Subpool - Teleproc                   4096
DSA Subpool - Task                      34816
DSA Subpool - Shared                     258K
DSA Subpool - VTAM-RPL                   2048
DSA Subpool - Program                   1058K



F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top         F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd F11=Togl Bwd   F12=Exit
```

Sample Panel with TS 1.1

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:42:24
 ==>                                                                  SYSDATA
                            System Data Collection                  1:8/8-DATA
                                  DSAPOOLS
    Jobname     Date      Time     SDSA   RDSA  EUDSA  ECDSA  ESDSA  ERDSA
    CICS410  2002/05/27 09:29:59   4096   344K  1664K                2976K

 Resource                                  Value
 DSA Subpool - UDSA                            0
 DSA Subpool - CDSA                         488K
 DSA Subpool - SDSA                         4096
 DSA Subpool - RDSA                         344K
 DSA Subpool - EUDSA                       1664K
 DSA Subpool - ECDSA                           0
 DSA Subpool - ESDSA                           0
 DSA Subpool - ERDSA                       2976K



  F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
  F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd F11=Togl Bwd F12=Exit
```

Panel Field Descriptions

The information fields on the first row of this panel have the same meanings as the corresponding fields on the DSAPOOLS System Data Collection panel. This panel also includes the following fields:

Field	Description	For CICS Version
Resource	Name of a resource	CICS 2.3 and TS 1.1
Value	Value for the resource	CICS 2.3 and TS 1.1

GETVIS24 System Data Collection Detail Panel

The GETVIS24 System Data Collection Detail panel displays detailed information about GETVIS storage usage below the 16MB line for a job selected from the GETVIS24 System Data Collection panel.

Access

- On the GETVIS24 System Data Collection panel, cursor-select a jobname record.
- On any system data collection detail panel, type **GETVIS24** over the name of the current panel (directly below the System Data Collection title line) and press Enter.
- On any system data collection detail panel, press F10 or F11 until you reach the GETVIS24 version of the panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:42:24
==>                                                                   SYSDATA
                            System Data Collection                  1:4/4-DATA
                                   GETVIS24
   Jobname      Date     Time     Pct   Size   Free  Alloc    Max
   CICS2    2002/02/05 09:26:59   16%  2116K  1779K   337K  1744K
Resource                                Value
GETVIS 24 - Size                        2116K
GETVIS 24 - Free                        1779K
GETVIS 24 - Allocated                    337K
GETVIS 24 - Max block                   1744K




F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top         F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd F11=Togl Bwd   F12=Exit
```

Panel Field Descriptions

The information fields on the first row of this panel have the same meanings as the corresponding fields on the GETVIS24 System Data Collection panel. This panel also includes the following fields:

Field	Description
Resource	Name of a resource
Value	Value for the resource

GETVIS31 System Data Collection Detail Panel

The GETVIS31 System Data Collection Detail panel displays detailed information about GETVIS storage usage above the 16MB line for a job selected from the GETVIS31 System Data Collection panel.

Access

- On the GETVIS31 System Data Collection panel, cursor-select a jobname record.
- On any system data collection detail panel, type **GETVIS31** over the name of the current panel (directly below the System Data Collection title line) and press Enter.
- On any system data collection detail panel, press F10 or F11 until you reach the GETVIS31 version of the panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:42:24
==>                                                                   SYSDATA
                            System Data Collection                  1:4/4-DATA
                                   GETVIS31
   Jobname      Date     Time     Pct   Size   Free  Alloc    Max
   CICS2    2002/02/05 09:41:59   41%  2020K  1191K   829K  1127K
Resource                                Value
GETVIS 31 - Size                        2020K
GETVIS 31 - Free                        1191K
GETVIS 31 - Allocated                    829K
GETVIS 31 - Max block                   1127K




F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top         F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd F11=Togl Bwd   F12=Exit
```

Panel Field Descriptions

The information fields on the first row of this panel have the same meanings as the corresponding fields on the GETVIS31 System Data Collection panel. This panel also includes the following fields:

Field	Description
Resource	Name of a resource
Value	Value for the resource

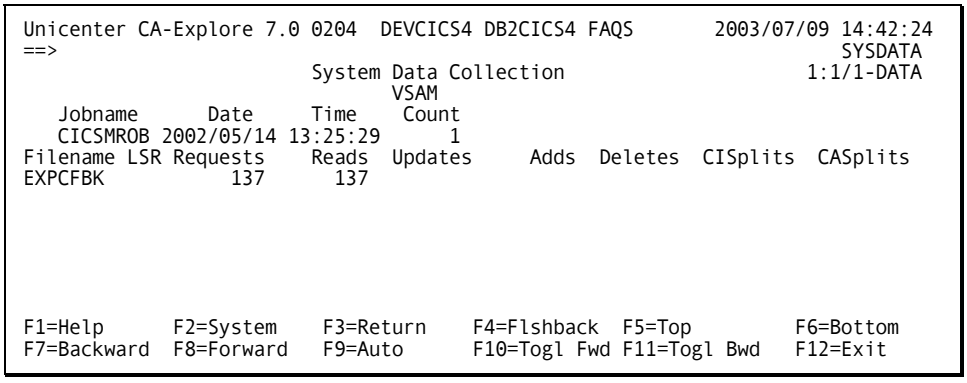
VSAM System Data Collection Detail Panel

The VSAM System Data Collection Detail panel displays detailed VSAM file information for a job selected from the VSAM System Data Collection panel.

Access

- On the VSAM System Data Collection panel, cursor-select a jobname record.
- On any system data collection detail panel, type **VSAM** over the name of the current panel (directly below the System Data Collection title line) and press Enter.
- On any system data collection detail panel, press F10 or F11 until you reach the VSAM version of the panel.

Sample Panel



Panel Field Descriptions

The information fields on the first row of this panel have the same meanings as the corresponding fields on the VSAM System Data Collection panel. This panel also includes the following fields:

Field	Description
Filename	VSAM file name
LSR	LSR pool number
Requests	Total number of read, update, add, and delete requests
Reads	Number of read requests
Updates	Number of update requests
Adds	Number of add requests
Deletes	Number of delete requests
CISplits	Number of CI (control interval) splits
CASplits	Number of CA (control area) splits

THRESHOL System Data Collection Detail Panel

The THRESHOL System Data Collection Detail panel displays detailed information about triggered thresholds for a job selected from the THRESHOL System Data Collection panel.

Access

- On the THRESHOL System Data Collection panel, cursor-select a jobname record.
- On any system data collection detail panel, type **THRESHOL** over the name of the current panel (directly below the System Data Collection title line) and press Enter.
- On any system data collection detail panel, press F10 or F11 until you reach the THRESHOL version of the panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:42:24
==>                                                                  SYSDATA
                             System Data Collection                1:1/1-DATA
                                  THRESHOL
   Jobname      Date     Time   Name     Resource Resource    Value    Limit
   CICSAESA 2002/03/02 10:48:35 ABENDS   QATI     AISM            1        1
Name     Resource Resource    Value    Limit Task# Terminal Userid
ABENDS   QATI     AISM            1        1  1975



F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top         F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd F11=Togl Bwd   F12=Exit
```

Panel Field Descriptions

The information fields on the first row of this panel have the same meanings as the corresponding fields on the THRESHOL System Data Collection panel. This panel also includes the following fields:

Field	Description
Task#	Task number of the transaction that triggered the threshold (end-of-task and dynamic thresholds only)
Terminal	ID of the terminal that triggered the threshold (end-of-task and dynamic thresholds only)
Userid	ID of the user that triggered the threshold (end-of-task and dynamic thresholds only)

ANALYSIS System Data Collection Detail Panel

The ANALYSIS System Data Collection Detail panel displays detailed transaction degradation analysis information for a job selected from the ANALYSIS System Data Collection panel.

Access

- On the ANALYSIS System Data Collection panel, cursor-select a jobname record.
- On any system data collection detail panel, type **ANALYSIS** over the name of the current panel (directly below the System Data Collection title line) and press Enter.
- On any system data collection detail panel, press F10 or F11 until you reach the ANALYSIS version of the panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 14:42:24
==>                                                                   SYSDATA
                            System Data Collection                1:13/13-PAGE
                                  ANALYSIS
  Jobname      Date     Time    Trans     Life     Pgm    File     WTR     CPU
  CICS2    2002/03/04 18:39:59     45   0.0125  0.0082          0.0005  0.0064
Resource         Time      Average  Pct   ...20...40...60...80..100
Lifetime       0.5604       0.0125  100% |************************
File I/O                              0% |
Program        0.3725       0.0082   66% |*****************
Term I/O                              0% |
Resource                              0% |
Suspend        0.0038                 1% |
Wait           0.1610       0.0036   29% |*******
WTR            0.0230       0.0005    4% |*
CPU            0.2883       0.0064   N/A |
DL/I                                 N/A |
Storsusp                             N/A |
Expctime       0.0156       0.0003    3% |*

F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top         F6=Bottom
F7=Backward  F8=Forward   F9=Auto      F10=Togl Fwd F11=Togl Bwd   F12=Exit
```

Panel Field Descriptions

The information fields on the first row of this panel have the same meanings as the corresponding fields on the ANALYSIS System Data Collection panel. This panel also includes the following fields:

Field	Description
Resource	Resource type—The following are some of the resource types that appear in this field: Count Number of transactions used for analysis (number of transactions written to history files by Unicenter CA-Explore for CICS). Note that this number will be less than the total number of transactions detected by Unicenter CA-Explore for CICS. CPU CPU time used by user code or by CICS code. DL/I Time in DL/I code. Expctime Average time (in seconds) spent in Unicenter CA-Explore for CICS code. File I/O Time that the transaction waits for file requests. This time is only for datasets in the FCT. Lifetime Transaction lifetime; that is, the difference between the time the transaction is put on the DCA (DCA entry mode) and the time the TCA (storage) is freed. Program Time that the transaction spent executing program code.

Field	Description
Resource (continued)	Resource Time spent waiting for an internal CICS resource. If a transaction needs a resource and must wait for it to become available, CICS places the transaction on the active DCA chain with a dispatch control indicator (DCI) of X'88'. A transaction is put in this state if it is waiting for strings, for buffers, or for a program to be loaded into the DSA. Suspend Time spent suspended. Storsusp Time suspended because of an inability to satisfy a storage request. Term I/O Time spent when the transaction forces a terminal wait. Normally, a pseudo-conversational transaction sends a BMS map. The terminal I/O is scheduled after the transaction ends. You can force the BMS map to be written immediately, or if it is a conversational task, then the terminal I/O must be forced to occur. In this case, terminal I/O is the time spent to handle the I/O. Wait Time that a transaction must wait for ECBs to be posted. Intrapartition dataset I/O time and DFHTEMP I/O are included. WTR Time the transaction spent on the active DCA chain waiting to run.
Time	Total time, in seconds, for all transactions monitored.
Average	Average time for each transaction monitored, except Count, which is the number of transactions monitored. An entry in this field is equal to the entry in the Time field divided by the count (number of transactions used for analysis).
Pct	Percentage of lifetime spent in the corresponding activity. This information is also presented in graph form.

Chapter

16

/CAPROD Menu Options

This chapter explains how to use the /CAPROD menu to access other CA products installed on your system.

Note: This chapter discusses the uses of Unicenter CA-Explore for CICS with CICS Version 2.3 (CICS 2.3) and CICS Transaction Server Version 1.1 (TS 1.1). Unless a distinction is noted, the information applies to both versions.

/CAPROD Menu

The /CAPROD menu lists the commands you can issue to access other CA products from Unicenter CA-Explore for CICS. You can issue these commands either by cursor-selecting them from this menu or by entering them on the command line of any Unicenter CA-Explore for CICS panel.

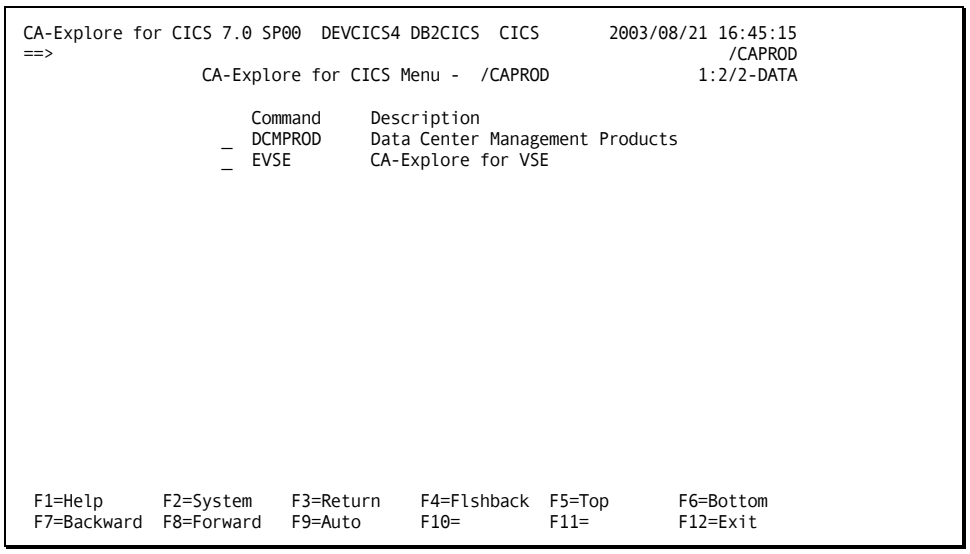
Menu Access

- On the Unicenter CA-Explore for CICS Main menu, cursor-select the /CAPROD option.
- Type any character (except H) in the space provided to the left of the command and press Enter.

Command Access

Enter **/CA** or **/CAPROD** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Panel



Panel Display Options

To display a panel listed on the /CAPROD menu, cursor-select the option from the menu or enter the corresponding command as shown in the following table:

Enter This Command	Or Select This Option	To Access
DCMPROD	Data Center Management Products	A panel from which you can access the CA products installed at your site
EVSE	CA-Explore for VSE	Unicenter CA-Explore for VSE

Chapter

17 Configuration Options

The product option settings you specify determine how Unicenter CA-Explore for CICS monitors your CICS system. This chapter explains how you use configuration options to tailor Unicenter CA-Explore for CICS to monitor CICS for your site.

Note: This chapter discusses the uses of Unicenter CA-Explore for CICS with CICS Version 2.3 (CICS 2.3) and CICS Transaction Server Version 1.1 (TS 1.1). Unless a distinction is noted, the information applies to both versions.

Creating Configuration Override Members

You store the values of configuration options in configuration *override members* in the Unicenter CA-Explore for CICS product library. You can create one configuration override member to use for all CICS partitions, or a unique configuration override member to use for each CICS partition.

The options set in a configuration override member take effect when Unicenter CA-Explore for CICS is initialized, and remain in effect unless changed using the CONFIG panel. Refer to the chapter titled "/CONFIG Menu Options" for an explanation of the CONFIG panel.

Before attempting to create override members, see Changing Configuration Options later in this section.

Using One Configuration Override Member for All CICS Partitions

By default, Unicenter CA-Explore for CICS uses the configuration option settings in the configuration override member $CNFIG.P. If you have only one CICS partition, or you are running multiple partitions and want to use the same Unicenter CA-Explore for CICS configuration for all, customize the configuration option values in member $CNFIG.P.

Customizing Configuration Override Members for Different CICS Partitions

All partitions for which you do not create a new configuration override member use the configuration option settings in $CNFIG.P. Use the following steps to create a unique configuration override member for a CICS partition:

1. Copy $CNFIG.P to create a new member in the Unicenter CA-Explore for CICS product library. Name this new member $CNFIG*id*.P, where *id* is the partition ID specified in member $MIT.P by the parameter REGID=*id*.

   For example, the configuration override member for the partition with a partition ID of M1 would be named $CNFIGM1.P.

2. Change the option values in the new configuration override member. See Changing Configuration Options later in this section.

The following table describes the contents of Unicenter CA-Explore for CICS product library members that are related to product configuration:

Member	Contains
$CNFIG.P	You **must** change this configuration option during installation.
$CNFIG*id*.P	Unique configuration options for a specific partition (where *id* is the partition ID) as specified in the MIT (monitor initialization table). Using the steps provided earlier in this chapter, create one $CNFIG*id*.P member for each partition to which you do not want to apply the default options contained in $CNFIG.P.
$CNFIG00.P	This is a copybook with all product configuration options set to default values. You can copy individual options from this to member $CNFIG.P to set the default configuration for Unicenter CA-Explore for CICS, or to member $CNFIG*id*.P (where *id* is a partition ID) to specify unique options for a specific partition. Unicenter CA-Explore for CICS does not read this member at initialization. The purpose of $CNFIG00.P is to provide a source from which you can copy options that you want to change. You should copy an option from this member to $CNFIG.P or $CNFIG*id*.P only if you want to specify a non-default value to override the default setting at initialization.
$CNFIGXX.P	Detailed descriptions of all configuration options

Changing Configuration Options

You do not need to change any configuration options for Unicenter CA-Explore for CICS to run properly. Unicenter CA-Explore for CICS is shipped with default settings that allow Unicenter CA-Explore for CICS to be fully functional at initialization.

You should change other options only if you want Unicenter CA-Explore for CICS to function differently from the default configuration.

Determining Whether to Change Configuration Options

Initially, you should use Unicenter CA-Explore for CICS with its default configuration settings, or set configuration options so that Unicenter CA-Explore for CICS collects statistics for all resources you are interested in monitoring. Be aware that collecting data for a resource increases product overhead and storage requirements for the Unicenter CA-Explore for CICS flashback and archive files.

After using Unicenter CA-Explore for CICS for a predetermined time, you can determine whether collecting data for various resources is worth the storage required. The canned report CICS.PERFORMANCE.RECORD.ANALYSIS.STAT lists all transactions processed, and shows which components of Unicenter CA-Explore for CICS performance records are being used by each. If this report shows that a large amount of data has been collected for a resource that you seldom monitor, you might decide to stop collecting data for that resource in order to lessen the amount of storage required for the flashback and archive files.

For more information about running canned reports and a sample of the canned report CICS.PERFORMANCE.RECORD.ANALYSIS.STAT, see the Unicenter CA-Explore for CICS *History Reporting Guide.*

Changing Configuration Options Temporarily

To temporarily change configuration options, use the CONFIG panel. The configuration options you specify from this panel remain in effect until Unicenter CA-Explore for CICS is reinitialized.

To make current configuration option settings permanent, you write them to a configuration override member using the CONFIG UPDATE command.

See the chapter titled "/CONFIG Menu Options" for descriptions of the CONFIG panel and the CONFIG UPDATE command.

Changing Configuration Options Permanently

If you want to specify a non-default value for a configuration option, copy the option from member $CNFIG00.P into the appropriate configuration option override member, and then change the value for the option to the value you want.

Sample Configuration Override Member

```
* Required Options                                                                *
* Name                                          Type       CICS  Data NoChg Mstr *
*==============================================================================*

*==============================================================================*
*
* Name                                          Type       CICS  Data NoChg Mstr *
*==============================================================================*
ACTIVITY-HOUR1=8                                Numeric               Nochg
ALARM-DISABLE=No                                Yes/No
ALTER-MESSAGES=Yes                              Yes/No
ARCHIVE-FULL-MESSAGE=30                         Numeric                     Mstr
AUTO-DURATION=60                                Numeric
AUTO-REFRESH-TIME=5                             Numeric
BTAM-TERMINAL-COUNT=5                           Numeric               Nochg
BTAM-TERMINAL-01=5                              Numeric               Nochg
BTAM-TERMINAL-02=6                              Numeric               Nochg
BTAM-TERMINAL-03=7                              Numeric               Nochg
BTAM-TERMINAL-04=8                              Numeric               Nochg
BTAM-TERMINAL-05=9                              Numeric               Nochg
BTAM-TERMINAL-06=0                              Numeric               Nochg
BTAM-TERMINAL-07=0                              Numeric               Nochg
BTAM-TERMINAL-08=0                              Numeric               Nochg
BTAM-TERMINAL-09=0                              Numeric               Nochg
BTAM-TERMINAL-10=0                              Numeric               Nochg
CAPS=No                                         Yes/No
```

Member Field Descriptions

The following table describes the fields in a configuration override member:

Field	Description
Name	Configuration option name, followed by an equal sign (=) and the value set for the option. The value is the only thing you can change for an option; all other fields in configuration members are informational.
Type	Type of value (i.e., numeric) or the actual value (i.e., YES/NO) to be specified for the option.
CICS	CICS must be running in the partition for the option to be activated. These options will not take effect in the master partition.
Data	If Data appears in this field, the option is a data collection option.
NoChg	If NoChg appears in this field, the option cannot be changed using the online interface after Unicenter CA-Explore for CICS is initialized.
Mstr	If Mstr appears in this field, the option is valid only in a master partition, as defined in the Unicenter CA-Explore for CICS monitor initialization table.

Configuration Option Descriptions

The following table lists and describes all of the Unicenter CA-Explore for CICS configuration options:

Option	Default	Description
ACTIVITY-HOUR1	8	Specify the first hour of captured data (transaction counts and transaction lifetimes) to be displayed by the ACTIVITY command. The minimum value is 0; the maximum is 14. Sixteen buckets of data are available: Bucket 1 — 12:00 A.M. through HOUR1 – 1 hour Buckets 2-15 — HOUR1 through HOUR1 + 13 hours Bucket 16 — HOUR1 + 14 hours through 11:59 P.M. Example: If you want to see data for the day shift (8 A.M. to 5 P.M.), define the activity hour as 8. The ACTIVITY panel would then show a bucket called AM, which would include all data from midnight to 7:59 A.M. The following 14 buckets would contain data for each hour from 8 A.M. to 9:59 P.M., starting with a bucket for 8 A.M. to 8:59 A.M. The last bucket on the panel, called PM, includes all data from 10 P.M. through 11:59 P.M.
ALARM-DISABLE	NO	Specify one of the following to define whether an alarm will sound when an Unicenter CA-Explore for CICS message is written to a terminal: YES — Sound an alarm when a message is written to a terminal. NO — Do not sound an alarm when a message is written to a terminal.
ALTER-MESSAGES	YES	Specify one of the following to define whether a message is to be written to the console when a user alters storage. YES — Write a message to the console. NO — Do not write to the console.
ARCHIVE-FULL-MESSAGE	30	When the Unicenter CA-Explore for CICS archive file becomes full, message EXPC224W is written to the console at intervals specified by this option. Specify the number of minutes you want to pass between occurrences of message EXPC224W.

Option	Default	Description
AUTO-DURATION	60	Specify the number of minutes before the automatic redisplay function shuts off. The minimum value is 0; the maximum is 99999. Specifying 0 causes automatic redisplay to remain on indefinitely. A user can activate the automatic redisplay function to run indefinitely. This option lets you reduce the unnecessary overhead of automatic redisplay at unattended terminals.
AUTO-REFRESH-TIME	5	Specify the number of seconds to delay while the automatic redisplay function is active. This option sets the default redisplay time for all users. Individual users can specify alternate redisplay times for their own sessions.
BTAM-TERMINAL-COUNT	5	Specify the number of dedicated BTAM terminals that are to be used by Unicenter CA-Explore for CICS. The minimum value is 0; the maximum is 10.
BTAM-TERMINAL-01 BTAM-TERMINAL-02 BTAM-TERMINAL-03 BTAM-TERMINAL-04 BTAM-TERMINAL-05 BTAM-TERMINAL-06 BTAM-TERMINAL-07 BTAM-TERMINAL-08 BTAM-TERMINAL-09 BTAM-TERMINAL-10	5 6 7 8 9 0 0 0 0 0	Specify the address to be used for each dedicated BTAM terminal to be used by Unicenter CA-Explore for CICS. The minimum value is 0; the maximum value is 255. If you specify 0, the terminal will not be used.
CAPS	NO	Specify one of the following to define whether panel displays are to be uppercase only for all users. Individual users can specify whether uppercase translation will be in effect for their own sessions. YES Display panels in all uppercase for all users. NO Do not display panels in all uppercase for all users.
CLEAR-KEY-EXITS	NO	Specify if you want the CLEAR key to exit from Unicenter CA-Explore for CICS. The F12 Key is the exit key as well. YES Exits from Unicenter CA-Explore for CICS session NO Do not do anything when you press the CLEAR key.

Option	Default	Description
COMMAND-CONFIRMATION	YES	Specify one of the following to specify whether users will be prompted to confirm command functions initiated by margin commands: YES Activate command confirmation. NO Deactivate command confirmation.
COMMAND-MEMBER	$CMD	Specify the name of a member containing a list of command option overrides. This member can also be used to modify the default sort arguments for each command. If security is used, specify that the command is secured in this member. See the chapter titled "Command Option Overrides" for more information. If you specify the member name in the form name??, Unicenter CA-Explore for CICS will automatically replace ?? with the ID of each partition. For example, if you specify COMMAND-MEMBER=$CMD??, Unicenter CA-Explore for CICS will automatically use member $CMDA1.P to define command option overrides for partition A1, member $CMDA2.P for partition A2, and so on. If a member with the name generated by Unicenter CA-Explore for CICS does not exist for a partition, member $CMD.P is used by default.
COMMAND-MESSAGES	NO	Specify one of the following to define whether a message is to be written to the console when a command option or sort argument is set or modified: YES Write a message to the console when a command option or sort argument is set or modified. NO Do not write a message to the console when a command option or sort argument is set or modified.
COMPRESS-DATA	YES	Specify one of the following to define whether Unicenter CA-Explore for CICS is to compress the data written to the archive and flashback files. Compressing the data reduces the amount of DASD storage required to store collected data. You do not need to decompress data before using the Unicenter CA-Explore for CICS report writer or utilities. YES Compress data written to the archive and flashback files. NO Do not compress data written to the archive and flashback files.

Option	Default	Description
CONFIG-UPDATE	NO	Specify one of the following to define whether the configuration override member is to be updated at shutdown: YES — Update the configuration override member at shutdown. Configuration settings at the time of shutdown will be written to the configuration override member and become permanent. NO — Do not update the configuration override member at shutdown.
CONVERT-MS-HHMMSS	1	Specify the limit in minutes after which the format of fields that display clock time is to change from seconds (*nnn.nn* seconds) to hours, minutes, and seconds (*hhmmss*). The minimum value is 1; the maximum is 15.
CPU-LONG	.180	Specify the minimum number of seconds, in up to three decimal places, of CPU time a transaction must use to be classified as long. CPU classifications are used for reporting purposes only. Define these classifications based on your site requirements. Use the CPU-MEDIUM and CPU-SHORT options to define medium and short transactions.
CPU-MEDIUM	.060	Specify the maximum number of seconds of CPU time a transaction may use to be classified as medium, with up to three decimal places. **Note:** A transaction must use an amount of CPU time between the values of CPU-SHORT and CPU-MEDIUM to be classified as medium. Transactions using CPU time equal to or less than the value defined by CPU-SHORT are classified as short. CPU classifications are used for reporting purposes only. Define these classifications based on your installation's requirements. Use the CPU-LONG and CPU-SHORT options to define long and short transactions.

Option	Default	Description
CPU-REAL	YES	Specify one of the following to define the method to be used by Unicenter CA-Explore for CICS to calculate CPU time for each transaction: YES — Use real VSE CPU clock time to determine the amount of CPU time used for each transaction. NO — Use wall-clock time to determine the amount of CPU time used for each transaction.
CPU-SHORT	.020	Specify the maximum number of seconds of CPU time a transaction can use to be classified as short, with up to three decimal places. CPU classifications are used for reporting purposes only. Define these classifications based on your installation's requirements. Use the CPU-LONG and CPU-MEDIUM options to define long and medium transactions.
DATE-FORMAT	YY/MM/DD	Specify one of the following date formats to be used within Unicenter CA-Explore for CICS: YY/MM/DD Year/Month/Day MM/DD/YY Month/Day/Year DD/MM/YY Day/Month/Year YY-MM-DD Year-Month-Day MM-DD-YY Month-Day-Year DD-MM-YY Day-Month-Year YY.MM.DD Year.Month.Day MM.DD.YY Month.Day.Year DD.MM.YY Day.Month.Year

Option	Default	Description
DUMP-DYNAMIC-GETVIS	NO	Specify one of the following to define whether the IDUMP command can be used to dump the dynamic GETVIS storage area if an abend or program check occurs within Unicenter CA-Explore for CICS: YES Let users dump the dynamic GETVIS storage area. NO Do not let users dump the dynamic GETVIS storage area. The option DUMP-EXTENDED must be set to YES for this option to take effect.
DUMP-EXTENDED	YES	Specify one of the following to define whether the IDUMP command can be used to dump additional system information: YES Allow users to dump additional system information. NO Do not allow users to dump additional system information. This option must be set to YES for the following configuration options to take effect: DUMP-DYNAMIC-GETVIS DUMP-IGNORE-JCL DUMP-SUPERVISOR DUMP-SUPERVISOR-CBS DUMP-SVA DUMP-SYSTEM-GETVIS DUMP-USER-PARTITION
DUMP-IGNORE-JCL	YES	Specify one of the following to define whether the IDUMP command can be used to dump storage even if the JCL has an option (NODUMP) requesting that no dump be taken: YES Allow users to dump storage even if the JCL includes the NODUMP option. NO Do not allow users to dump storage if the JCL includes the NODUMP option. The option DUMP-EXTENDED must be set to YES for this option to take effect.

Option	Default	Description
DUMP-SEGMENT	YES	Specify one of the following to define whether the IDUMP command can be used to segment output after a dump: YES Allow users to segment output after a dump. NO Do not allow users to segment output after a dump. The option DUMP-EXTENDED must be set to YES for this option to take effect.
DUMP-SUPERVISOR	NO	Specify one of the following to define whether the IDUMP command can be used to dump the supervisor storage area if an abend or program check occurs within Unicenter CA-Explore for CICS: YES Allow users to dump the supervisor storage area. NO Do not allow users to dump the supervisor storage area. The option DUMP-EXTENDED must be set to YES for this option to take effect.
DUMP-SUPERVISOR-CBS	YES	Specify one of the following to define whether the IDUMP command can be used to dump the SUPERVISOR control blocks if an abend or program check occurs within Unicenter CA-Explore for CICS: YES Allow users to dump the SUPERVISOR control blocks. NO Do not allow users to dump the SUPERVISOR control blocks. The option DUMP-EXTENDED must be set to YES for this option to take effect.

Option	Default	Description
DUMP-SVA	NO	Specify one of the following to define whether the IDUMP command can be used to dump the SVA storage area if an abend or program check occurs within Unicenter CA-Explore for CICS: YES Allow users to dump the SVA storage area. NO Do not allow users to dump the SVA storage area. The option DUMP-EXTENDED must be set to YES for this option to take effect.
DUMP-SYSTEM-GETVIS	NO	Specify one of the following to define whether the IDUMP command can be used to dump the SYSTEM GETVIS storage area if an abend or program check occurs within Unicenter CA-Explore for CICS: YES Allow users to dump the SYSTEM GETVIS storage area. NO Do not allow users to dump the SYSTEM GETVIS storage area. The option DUMP-EXTENDED must be set to YES for this option to take effect.
DUMP-USER-PARTITION	NO	Specify one of the following to define whether the IDUMP command can be used to dump the USER PARTITION storage area if an abend or program check occurs within Unicenter CA-Explore for CICS: YES Allow users to dump the USER PARTITION storage area. NO Do not allow users to dump the USER PARTITION storage area. The option DUMP-EXTENDED must be set to YES for this option to take effect.

Option	Default	Description
EXPC594-IGNORE	NO	Specify one of the following to define whether to suppress the 'EXPC594 Security Error' message. YES The message will be suppressed. NO The message will not be suppressed, and will appear on the VSE console.
EXPC596-IGNORE	NO	Specify one of the following to define whether to suppress the 'EXPC596 Undefined Resource' message. YES The message will be suppressed. NO The message will not be suppressed, and will appear on the VSE console.
EXPC-QUIESCED	NO	Specify YES to quiesce Unicenter CA-Explore for CICS. Unicenter CA-Explore for CICS must be recycled for this parameter to take affect.
EXPCARC-INTERVAL-DATA	YES	Specify one of the following to define whether INTERVAL data records collected by the system data collection function are to be written to the Unicenter CA-Explore for CICS archive file: YES Write INTERVAL data records to the archive file. NO Do not write INTERVAL data records to the archive file.
EXPCARC-PERFORMANCE-PRI	YES	Specify one of the following: YES Log detailed transaction records to the archive file during primary monitoring. These are performance records. NO Do not log detailed transaction records to the archive file during primary monitoring. No performance information will be available.

Option	Default	Description
EXPCARC-PERFORMANCE-SEC	YES	Specify one of the following: YES — Log detailed transaction records to the archive file during secondary monitoring. These are performance records. NO — Do not log detailed transaction records to the archive file during secondary monitoring. No performance information will be available.
EXPCARC-THRESHOLD	YES	Specify one of the following: YES — Log threshold records to the archive file at system intervals. This is a system record. NO — Do not log threshold records to the archive file.
EXPCARC-VSAM	YES	Specify one of the following: YES — Log VSAM file statistic records to the archive file at system intervals. This is a system record. NO — Do not log VSAM file statistic records to the archive file.
EXPCFBK-INTERVAL-DATA	YES	Specify one of the following to define whether INTERVAL data records collected by the system data collection function are to be written to the Unicenter CA-Explore for CICS flashback file: YES — Write INTERVAL data records to the flashback file. NO — Do not write INTERVAL data records to the flashback file.
EXPCFBK-PERFORMANCE-PRI	YES	Specify one of the following: YES — Log detailed transaction records to the flashback file during primary monitoring. These are performance records. NO — Do not log detailed transaction records to the flashback file during primary monitoring. No performance information will be available.

Option	Default	Description
EXPCFBK-PERFORMANCE-PRI	YES	Specify one of the following: YES Log detailed transaction records to the flashback file during secondary monitoring. These are performance records. NO Do not log detailed transaction records to the flashback file during secondary monitoring. No performance information will be available.
EXPCFBK-THRESHOLD	YES	Specify one of the following: YES Log threshold records to the flashback file at system intervals. This is a system record. NO Do not log threshold records to the flashback file.
EXPCFBK-VSAM	YES	Specify one of the following: YES Log VSAM file statistic records to the flashback file at system intervals. This is a system record. NO Do not log VSAM file statistic records to the flashback file.

Option	Default	Description
FLASHBACK-SCREEN	0	Specify one of the following values to define the default panel to be displayed by the FLSHBACK command: 0 DEFAULT 1 ANALYSIS 2 CLOCKS 3 COUNTERS 4 THRESHOL 5 PROGRAMS 6 STORAGE 7 FILE 8 FILETIME 9 FILECNT 10 FILEWAIT 11 DLITIME 12 DLIIO 13 DLICNT15 15 TEMPSTOR 16 TEMPCNT 17 TDATA 18 COMMAND 19 EXITRSCS 20 IRC 21 ISC 22 JOURNAL 23 SECURITY 24 TABLEMGR 25 USEREXIT 26 WAITS 27 UMBRELLA 28 OVERHEAD 29 TIMES

Option	Default	Description
INITIAL-COMMAND	MENU	Specify the initial command to be executed upon entry to Unicenter CA-Explore for CICS. If external security is being used, this option is overridden and the LOGON panel is the first panel displayed.
INITIAL-OPTION	None	Specify the operands, if any, to be included with the command specified by the INITIAL-COMMAND option.
I/O-LONG	48	Specify the minimum number of I/Os that must be made by a transaction for it to be classified as a long transaction. The minimum value is 1. I/O classifications are used for reporting purposes only. Define these classifications based on your installation requirements. Use the I/O-MEDIUM and I/O-SHORT options to define the medium and short I/O classifications.
I/O-MEDIUM	10	Specify the maximum number of I/Os that must be made by a transaction for it to be classified as a medium transaction. The minimum value is 1. **Note:** The number of I/Os a transaction makes must be between the values of I/O-SHORT and I/O-MEDIUM for the transaction to be classified as medium. Transactions making a number of I/Os equal to or less than the value defined by I/O-SHORT are classified as short. I/O classifications are used for reporting purposes only. Define these classifications based on your installation's requirements. Use the I/O-LONG and I/O-SHORT options to define the long and short I/O classifications.

Option	Default	Description
I/O-SHORT	5	Specify the maximum number of I/Os that must be made by a transaction for it to be classified as a short transaction. The minimum value is 1. I/O classifications are used for reporting purposes only. Define these classifications based on your installation's requirements. Use the I/O-LONG and I/O-MEDIUM options to define the long and medium I/O classifications.
LOGON-REQUIRED	NO	Specify one of the following to define whether users are to be required to log on to Unicenter CA-Explore for CICS using a user ID. This option does not force users to enter a password (see the SECURITY option); rather, it is used to associate a user ID with a session or to use a predefined profile. YES — Require users to log on to Unicenter CA-Explore for CICS using a user ID. NO — Do not require users to log on to Unicenter CA-Explore for CICS using a user ID.
MAPS-INITIALIZE	YES	Specify one of the following to define whether a list of DSECTs or control block maps is loaded at initialization: YES — Load a list of DSECTs or control block maps at initialization. NO — Do not load a list of DSECTs or control block maps at initialization. These maps are used to display storage in a control block format. Control block maps or DSECTs can be loaded dynamically online using the MAPUTIL command.

Option	Default	Description

MAPS-MEMBER	$MAPS	Specify the name of a member containing a list of members that will load DSECTs or control block maps at initialization.
		
		The members listed in the member specified by this option refer to members named *member*.M in the Unicenter CA-Explore for CICS product library. At initialization, each member loads DSECTs or control block maps.
		
		If you specify the member name in the form *name*??, Unicenter CA-Explore for CICS will automatically replace ?? with the ID of each partition. For example, if you specify MAPS-MEMBER=$MAPS??, Unicenter CA-Explore for CICS will automatically use member $MAPSA1.P to define security for partition A1, member $MAPSA2.P for partition 2, and so on. If a member with the name generated by Unicenter CA-Explore for CICS does not exist for a partition, member $MAPS.P is used by default.
		
		The recommended maps to put in the MAPS-MEMBER member are listed next.
		
		If you are setting up the member for a CICS/TS system on VSE/ESA 2.4, use the following default maps:
		
		`MVSE24 /* VSE/ESA 2.4 Control Blocks`
		`MCICS41 /* CICS/TS Control Blocks`
		`MAPSEXPC /* EXPC 6.8 Control Blocks`
		
		If you are setting up the member for a CICS 2.3 system on VSE/ESA 2.4, use the following maps:
		
		`MVSE24 /* VSE/ESA 2.4 Control Blocks`
		`MCICS23 /* CICS 2.3 Control Blocks`
		`MAPSEXPC /* EXPC 6.8 Control Blocks`
		
		If you are setting up the member for a CICS 2.3 system on VSE/ESA 2.3, use the following maps:
		
		`MVSE24 /* VSE/ESA 2.3 Control Blocks`
		`MCICS23 /* CICS 2.3 Control Blocks`
		`MAPSEXPC /* EXPC 6.8 Control Blocks`
		
		You can add these maps to the member so you can map other control blocks for VTAM, VSAM, and DLI:
		
		`MAPSVSAM /* VSAM Control Blocks`
		`MAPSVTAM /* VTAM Control Blocks`
		`MAPSDLI /* DL/I Control Blocks`

Option	Default	Description
MULTI-SESSIONS	YES	Specify one of the following to define whether multiple logical sessions can be active on one physical terminal: YES Allow multiple sessions to be active on one physical terminal. NO Do not allow multiple sessions on a physical terminal. Logical sessions are created using the ADDSESS command. The default-session toggle key is F13. Use the MULTI-SESSION-JUMP-KEY option to change this default.
MULTI-SESSIONS-JUMP-KEY	C1	Specify one of the following hexadecimal numbers to define an F key to toggle between multiple logical sessions created using the ADDSESS command: **Hex Key Hex Key** C1 F13 C9 F24 C2 F14 4A F21 C3 F15 4B F22 C4 F16 4C F23 C5 F17 6C PA1 C6 F18 6E PA2 C7 F19 6B PA2 C8 F20 This option requires that the FOLD-PFKEYS option be set to NO and the MULTI-SESSIONS option be set to YES.
PERFORMANCE-COLLECTION	YES	Specify one of the following: YES Collect performance data about each transaction. NO Do not collect data at the transaction level. About 48K plus 1.5K per concurrent transaction of GETVIS storage is used.
PERFORMANCE-DATA-DB2	NO	Specify one of the following: YES Collect DB2 data about each transaction. NO Do not collect DB2 data at the transaction level.

Option	Default	Description
PERFORMANCE-DATA-DLIFUNC	YES	Specify one of the following: YES Include data collected by function calls in detailed transaction data about DL/I. The collected information is displayed on historical flashback panels. The PERFORMANCE-COLLECTION option must be set to YES for this option to take effect. NO Do not include data collected by function calls in detailed data about DL/I.
PERFORMANCE-DATA-DSA	YES	Specify one of the following: YES Collect detailed transaction data about individual dynamic storage area subpools. The information collected is displayed on the DSA Historical Flashback panel. NO Do not collect detailed transaction data about individual dynamic storage area subpools. The PERFORMANCE-COLLECTION option must be set to YES for this option to take effect.
PERFORMANCE-DATA-EIP	NO	Specify one of the following: YES Collect detailed transaction data about command level call usage. Data will be collected by CICS subsystem, such as TCP or SCP. NO Do not collect detailed transaction data about command-level call usage. The PERFORMANCE-COLLECTION option must be set to YES for this option to take effect.

Option	Default	Description
PERFORMANCE-DATA-EIPCALL	NO	Specify one of the following: YES Collect detailed transaction data about command level call usage. The CICS subsystem collects the data, but the data is broken down into types of calls within each subsystem. NO Do not collect detailed transaction data about command-level call usage. The PERFORMANCE-COLLECTION option and the PERFORMANCE-DATA-EIP option must both be set to YES for this option to take effect.
PERFORMANCE-DATA-EIP	YES	Specify one of the following: YES Collect detailed transaction data about file usage. NO Do not collect detailed transaction data about file usage. The PERFORMANCE-COLLECTION option must be set to YES for this option to take effect.
PERFORMANCE-DATA-JCP	YES	Specify one of the following: YES Collect detailed transaction data about journal usage. NO Do not collect detailed transaction data about journal usage. The PERFORMANCE-COLLECTION option must be set to YES for this option to take effect.
PERFORMANCE-DATA-PCP	YES	Specify one of the following: YES Collect detailed transaction data about program usage. NO Do not collect detailed transaction data about program usage. The PERFORMANCE-COLLECTION option must be set to YES for this option to take effect.

Option	Default	Description
PERFORMANCE-DATA-TCP	YES	Specify one of the following: YES Collect detailed transaction data about terminal usage. NO Do not collect detailed transaction data about terminal usage. The PERFORMANCE-COLLECTION option must be set to YES for this option to take effect.
PERFORMANCE-DATA-TDP	YES	Specify one of the following: YES Collect detailed transaction data about transient data usage. NO Do not collect detailed transaction data about transient data usage. The PERFORMANCE-COLLECTION option must be set to YES for this option to take effect.
PERFORMANCE-DATA-EIP	YES	Specify one of the following: YES Collect detailed transaction data about temporary storage usage. NO Do not collect detailed transaction data about temporary storage usage. The PERFORMANCE-COLLECTION option must be set to YES for this option to take effect.
PERFORMANCE-DATA-WAITS	YES	Specify one of the following: YES Collect detailed transaction data about waits by CICS subsystems. The information collected is displayed on the WAITS Flashback Detail panel. NO Do not collect detailed transaction data about waits by CICS subsystems. The PERFORMANCE-COLLECTION option must be set to YES for this option to take effect.
PERFORMANCE-LOG-CMDLEVEL	YES	Specify one of the following: YES Log command level performance data to the archive and flashback files. NO Do not log command level performance data to the archive and flashback files.

Option	Default	Description
PERFORMANCE-LOG-DLI	YES	Specify one of the following: YES Log DL/I performance data to the archive and flashback files. NO Do not log DL/I performance data to the archive and flashback files.
PERFORMANCE-LOG-DSA	YES	Specify one of the following: YES Log storage performance data to the archive and flashback files. NO Do not log storage performance data to the archive and flashback files.
PERFORMANCE-LOG-EXITRSCE	YES	Specify one of the following: YES Log exit resource-performance data to the archive and flashback files. NO Do not log exit resource performance data to the archive and flashback files/
PERFORMANCE-LOG-FILES	YES	Specify one of the following: YES Log file performance data to the archive and flashback files. NO Do not log file performance data to the archive and flashback files.
PERFORMANCE-LOG-JOURNAL	YES	Specify one of the following: YES Log journaling performance data to the archive and flashback files. NO Do not log journaling performance data to the archive and flashback files.
PERFORMANCE-LOG-PROGRAMS	YES	Specify one of the following: YES Log program performance data to the archive and flashback files. NO Do not log program performance data to the archive and flashback files.
PERFORMANCE-LOG-SECURITY	YES	Specify one of the following: YES Log security performance data to the archive and flashback files. NO Do not log security performance data to the archive and flashback files.

Option	Default	Description
PERFORMANCE-LOG-TABLEMGR	YES	Specify one of the following: YES Log table-manager performance data to the archive and flashback files. NO Do not log table manager data to the archive and flashback files.
PERFORMANCE-LOG-TEMPSTOR	YES	Specify one of the following: YES Log temporary storage performance data to the archive and flashback files. NO Do not log temporary storage performance data to the archive and flashback files.
PERFORMANCE-LOG-THRESHOL	YES	Specify one of the following: YES Log threshold performance data to the archive and flashback files. NO Do not log threshold performance data to the archive and flashback files.
PERFORMANCE-LOG-TRANDATA	YES	Specify one of the following: YES Log transaction performance data to the archive and flashback files. NO Do not log transaction performance data to the archive and flashback files.
PERFORMANCE-LOG-USEREXIT	YES	Specify one of the following: YES Log user-exit performance data to the archive and flashback files. NO Do not log user-exit performance data to the archive and flashback files.
PERFORMANCE-LOG-WAITS	YES	Specify one of the following: YES Log wait performance data to the archive and flashback files. NO Do not log wait performance data to the archive and flashback files.

Option	Default	Description
PERFORMANCE-PRI-START	00:00:00	Specify the start time for the primary detailed transaction monitoring period. The PERFORMANCE-PRI-END option defines the end of the primary detailed transaction-monitoring period. The period outside of the primary collection period is the secondary detailed transaction-monitoring period. The minimum value you can specify is 00:00:00; the maximum is 23:59:59. Use the PERFORMANCE-PRI-PCT and PERFORMANCE-SEC-PCT options to define the percentage of data collection during primary and secondary collection periods. For example, to monitor only the period from 8 A.M. to 5 P.M., you would specify the following option settings: PERFORMANCE-PRI-BEGIN=08:00:00 PERFORMANCE-PRI-END=17:00:00 PERFORMANCE-PRI-PCT=100 PERFORMANCE-SEC-PCT=0
PERFORMANCE-PRI-END	24:00:00	Specify the end time for the primary detailed transaction-monitoring period. The PERFORMANCE-PRI-BEGIN option defines the start of the primary detailed transaction-monitoring period. The period outside of the primary collection period is the secondary detailed transaction-monitoring period. The minimum value you can specify is 00:00:01; the maximum is 23:59:59. Use the PERFORMANCE-PRI-PCT and PERFORMANCE-SEC-PCT options to define the percentage of data collection during primary and secondary collection periods. For example, to monitor only the period from 8 A.M. to 5 P.M., you would specify the following option settings: PERFORMANCE-PRI-BEGIN=08:00:00 PERFORMANCE-PRI-END=17:00:00 PERFORMANCE-PRI-PCT=100 PERFORMANCE-SEC-PCT=0

Option	Default	Description
PERFORMANCE-PRI-PCT	100	Specify the percentage of detailed transaction data collection to be performed during the primary detailed transaction monitoring period. The primary monitoring period is defined using the PERFORMANCE-PRI-BEGIN and PERFORMANCE-PRI-END options. The minimum value you can specify is 0; the maximum is 100. **Example**: Suppose the performance interval is 5 minutes. If you specify PERFORMANCE-PRI-PCT=70, then the following will occur: ■ During the first 3.5 minutes (70 percent) of each 5-minute performance interval, information is collected and logged. ■ During the remaining 1.5 minutes (30 percent), the system is monitored for thresholds only.
PERFORMANCE-SEC-PCT	100	Specify the percentage of detailed transaction data collection to be performed during the secondary detailed transaction monitoring period. This is the period outside the range of time defined by the PERFORMANCE-PRI-BEGIN and PERFORMANCE-PRI-END options. The minimum value you can specify is 0; the maximum is 100. Example: Suppose the performance interval is 5 minutes. If you specify PERFORMANCE-SEC-PCT=80, then the following will occur: ■ During the first 4 minutes (80 percent) of each 5-minute performance interval, information is collected and logged. ■ During the remaining 2 minutes (20 percent), the system is monitored for thresholds only.

Option	Default	Description
PF01-COMMAND PF01-OPTION PF02-COMMAND PF02-OPTION PF04-COMMAND PF04-OPTION PF09-COMMAND PF09-OPTION PF11-COMMAND PF11-OPTION PF12-COMMAND PF12-OPTION	HELP None None None FLSHBACK None AUTO None None None SYSTEM None	For each PF*nn*-COMMAND option (where *nn* is the number of an F key), specify a command to override the default value assigned to the F key. For each PF*nn*-OPTION option, specify an operand of the command assigned to the F key.
PF13-COMMAND PF13-OPTION . . . PF24-COMMAND PF24-OPTION	Same as default settings for corresponding keys F1 through F12	For each option PF*nn*-COMMAND (where *nn* is the number of an F key), specify a command to be assigned to the F key. For each option PF*nn*-OPTION, specify an option to be added to the command assigned to the F key. You can assign commands and options for each of the F keys F13 through F24.
PLOTLIST-DEFAULT	DEFAULTS	Specify the default plot list for all users. This plot list is used to build plot parameters if a plot list is not specified with the PLOT command.
PROGRAM-COMPRESSION	YES	Specify one of the following to define whether the Unicenter CA-Explore for CICS program storage manager is to compress storage to maintain the limit specified with the PROGRAM-STORAGE option. Compressing storage will reduce the amount of GETVIS used. YES Compress storage to maintain the limit specified with the PROGRAM-STORAGE option. NO Do not compress storage to maintain the limit specified with the PROGRAM-STORAGE option.
PROGRAM-FETCH-PCT	25	Specify the percentage of time that a program must be fetched to run. The percentage is calculated by multiplying the number of fetches by 100 and dividing the result by the number of times the program is used. This option sets a limit that is used by the PROGRAMS command, which displays information about programs that exceed this limit. The minimum value for this option is 0; the maximum is 100.

Option	Default	Description
PROGRAM-WASTE-PCT	90	Specify the percentage of storage that is not used in the last page of program storage for each program. This option sets a limit that is used by the PROGRAMS command, which displays information about those programs that exceed this limit.
PROGRAM-STORAGE-GETVIS24	0	Specify the number of bytes of 24-bit GETVIS that Unicenter CA-Explore for CICS can use for program storage. The minimum value is 0. The option PROGRAM-COMPRESSION must be set to YES for this option to take effect.
PROGRAM-STORAGE-GETVIS31	1024000	Specify the number of bytes of 31-bit GETVIS that Unicenter CA-Explore for CICS can use for program storage. The minimum value is 0. The option PROGRAM-COMPRESSION must be set to YES for this option to take effect.
RESPTIME-IGNORE8	YES	RESPTIME-IGNORE8 is the label of the response time group (bucket) assigned to hold all response times greater than the value defined by RESPTIME-VALUE7. Specify **YES** to exclude all transactions with response times greater than the value of RESPTIME-VALUE7 from being used to calculate average response times. Specify **NO** to include transactions with response times greater than the value of RESPTIME-VALUE7 in calculating average response times.
RESPTIME-VALUE1 RESPTIME-VALUE2 RESPTIME-VALUE3 RESPTIME-VALUE4 RESPTIME-VALUE5 RESPTIME-VALUE6 RESPTIME-VALUE7	0.5 1.0 2.0 3.0 4.0 5.0 10.0	Specify values to define seven response time groups (or buckets). The command RESPTIME can be used to display the number and percentage of transactions with response times falling within each range. Specify the value in seconds, with up to one decimal place.
REVIEW-TIME	15	Specify the interval, in minutes, at which statistics displayed by the REVIEW command are to be updated.
SCREEN-SIZE-MAX	YES	Specify one of the following to define whether Unicenter CA-Explore for CICS is to dynamically choose the largest screen size available for a terminal when an alternate screen size is available: YES Display the largest screen size available. NO Do not display the largest screen size available.

Option	Default	Description
SCROLL-VALUE	DATA	Specify one of the following to indicate the default number of lines to be scrolled for all users: HALF Scroll 1/2 page. DATA Scroll one page less one line. PAGE Scroll one page. *nnnn* Scroll *nnnn* lines. The minimum value is 1. Each user can override this default for his or her session.
SECURE-COMMANDS	NO	Specify one of the following to define whether external security is to be invoked to authorize the use of secured commands: YES Invoke external security to authorize use of secured commands. NO Do not invoke external security to authorize use of secured commands. Note: This option requires that the SECURITY option be set to YES.
SECURE-MEMBER	$SCTY	Specify the name of the Unicenter CA-Explore for CICS product library member to be used to build the internal security table call to authorize logons and command usage. A default security table ($SCTY.P) is provided. This option requires that the SECURITY option be set to YES. If you specify the member name in the form name??, Unicenter CA-Explore for CICS will automatically replace ?? with the ID of each partition. For example, if you specify SECURE-MEMBER=$SCTY??, Unicenter CA-Explore for CICS will automatically use member $SCTYA1.P to define security for partition A1, member $SCTYA2.P for partition A2, and so on. If a member with the name generated by Unicenter CA-Explore for CICS does not exist for a partition, member $SCTY.P is used by default.
SECURE-MODULE	ECDISCTY	Specify the name of the default external security module. This module is called to validate security functions. If you use ALERT for VSE as the external security monitor, the name of the security module must be ECDIALRT.

Option	Default	Description
SECURITY	NO	Specify one of the following to define whether users attempting to log on to Unicenter CA-Explore for CICS must enter a user ID and a password to be verified by an external security product: YES Require users to enter a user ID and a password when logging on to Unicenter CA-Explore for CICS. If you have ALERT for CICS, see the chapter titled "Using Unicenter CA-Explore Performance Management for CICS" for more information. NO Do not require users to enter a user ID and a password to log on to Unicenter CA-Explore for CICS.
SNAP-SIZE	1024	Specify the number of bytes of storage to be dumped when the SNAP command is issued. The minimum value is 256.
SYSTEM-DATA-COLLECTION	YES	Specify one of the following: YES Activate collection of system data. System data is collected at the interval defined by the SYSTEM-INTERVAL-ROCS option. NO Do not activate collection of system data.
SYSTEM-INTERVAL	10	Specify the number of minutes in the system data collection interval. System data is collected once during each interval. Valid values are 1, 2, 3, 4, 5, 10, 15, 20, 30, and 60. If SYSTEM-INTERVAL- is YES, specify 5.
SYSTEM-INTERVAL-DATA	YES	Specify one of the following: YES Activate collection of system interval data for the partition. NO Do not activate collection of system interval data.
SYSTEM-INTERVAL-ROCS	NO	Specify one of the following to pass system interval data to CICS data collection agent. This option requires that the SYSTEM-INTERVAL option be set to 5 and that the SYSTEM-DATA-COLLECTION option be set to YES. YES Pass system interval data to CICS data collection agent. NO Do not pass data to CICS data collection agent.

Option	Default	Description
SYSTEM-TASKS-EXCLUDE	NO	Specify the interval in minutes, from 0 to 15, at which the CICS system transactions (KCP, TCP, and so on) are to be sampled. To prevent logging the CICS system transactions, specify 0 (zero).
SYSTEM-TASK-SAMPLE	5	Specify the interval, in minutes, at which the CICS system transactions (KCP, TCP, and so on) are to be sampled. To prevent logging the CICS system transactions, specify 0.
SYSTEM-VSAM	YES	Specify one of the following: YES Activate collection of system data about VSAM files. Data collected is displayed on the VSAMSTATS panel. If the option SYSTEM-DATA-COLLECTION is set to YES, this data is also displayed on the VSAM System Data Collection panel and is logged to the archive and flashback files. NO Do not activate collection of system data about VSAM files. **GETVIS Considerations:** ■ 4K plus 76 bytes per active file opened of GETVIS is required ■ The maximum number of files is 1016 ■ Each 1K block can store 248 entries
THRESHOLD-DYNAMIC	YES	Specify one of the following: YES Process dynamic task thresholds. Dynamic thresholds are checked each time a task is dispatched. NO Do not process dynamic task thresholds.

Option	Default	Description
THRESHOLD-LOAD-ZERO	NO	At initialization, Unicenter CA-Explore for CICS loads the thresholds defined in the threshold source member for each partition. This option lets you specify whether to load thresholds with a limit value equal to zero. Each entry loaded into GETVIS storage takes 128 bytes, and overhead is required to check each entry. Specify one of the following: YES Load thresholds with a limit value equal to zero. NO *Do not* load thresholds with a limit value equal to zero. If you want some thresholds loaded even if their limit value is zero, create a threshold source member with all the thresholds you want to be loaded (including those with limit values of zero) and specify YES for this option.
THRESHOLD-MEMBER	$THRSH	Specify the name of the source member that lists the thresholds to be monitored. Each threshold entry having a limit other than 0 uses 128 bytes of GETVIS storage to be loaded. **Note:** If you specify the member name in the form name??, Unicenter CA-Explore for CICS will automatically replace ?? with the ID of each partition. For example, if you specify THRESHOLD-MEMBER=$THRSH??, Unicenter CA-Explore for CICS will automatically use member $THRSHA1.P to define ARTM functions for partition A1, member $THRSHA2.P for partition A2, and so on. If a member with the name generated by Unicenter CA-Explore for CICS does not exist for a partition, member $THRSH.P is used by default.
THRESHOLD-SYSTEM	YES	Specify one of the following: YES Process system thresholds. Thresholds are checked every 30 seconds. NO Do not process system thresholds.
THRESHOLD-TASK-END	YES	Specify one of the following: YES Process end-of-task thresholds. End-of-task thresholds, including dynamic thresholds, are checked at task termination. NO Do not process end-of-task thresholds.

Option	Default	Description
THRESHOLD-UPDATE	NO	Specify one of the following to define whether the threshold override member is to be updated at shutdown: YES Update the threshold override member at shutdown. Threshold settings at the time of shutdown will be written to the threshold override member and become permanent. NO Do not update the threshold override member at shutdown.
THRESHOLD-UPDATE-MEMBER	$THRSH??	Specify the name of the Unicenter CA-Explore for CICS product library to be updated by the THRESHOL UPDATE command if a member name is not specified with the command. If you do not specify a member name for this option, the member specified by the THRESHOLD-MEMBER option is used by default.
TRANKILL-CODE	GSIK	Specify the abend code to be used when a transaction is canceled through Unicenter CA-Explore for CICS.
TRANSACTION-SUMMARY	YES	Transaction summary information data is to be collected.
TRANSACTION-SUMMARY-INTV	1	Specifies the time interval, in seconds, for the collection of transaction summary information. This option requires TRANSACTION-SUMMARY=YES.
TSQUEUE-STATISTICS	YES	Specify one of the following to define whether temporary storage information is to be collected showing creation information about each queue: YES Collect temporary storage information showing creation information about each queue. NO Do not collect temporary storage information showing creation information about queues.
UMBRELLA-MAX-COUNT	125	Specify the maximum number of umbrella transactions that can be defined.

Option	Default	Description
UMBRELLA-MEMBER	$UMBRELA	Specify the name of the source member that lists the umbrella transactions to be monitored. If you specify the member name in the form name??, Unicenter CA-Explore for CICS will automatically replace ?? with the ID of each partition. For example, if you specify UMBRELLA-MEMBER=$UMBRE??, Unicenter CA-Explore for CICS will automatically use member $UMBREA1.P to define ARTM functions for partition A1, member $UMBREA2.P for partition A2, and so on. If a member with the name generated by Unicenter CA-Explore for CICS does not exist for a partition, member $UMBRELA.P is used by default.
UMBRELLA-TRAN-GENERIC	NO	Specify one of the following: YES Allow umbrella transactions to be specified using generic characters. Umbrella transactions are displayed on the UMBRELLA panel. NO Do not allow umbrella transactions to be specified using generic characters.
VSE-ID	None	Specify the name of the VSE machine on which Unicenter CA-Explore for CICS with VSE is running. If the machine is running under VM, this value is extracted automatically. If the machine is running native, Unicenter CA-Explore for CICS with VSE uses the value specified.
VSTATUS-COLLECTION	YES	Specify one of the following: YES Activate real-time data collection. Real-time information will be collected for tabular or graphical presentation. The VSTATUS command can be used to display this information. NO Do not activate real-time data collection. Each VSTATUS entry takes 512 bytes of GETVIS storage for plot definition. Data is collected for the interval defined by the VSTATUS-TOTAL-INTERVAL option.

Option	Default	Description
VSTATUS-MEMBER	$VSTATUS	Specify the name of the variable status collection member containing a list of variable and resource names. Unicenter CA-Explore for CICS will use the list in this member to determine the data to be collected. Each VSTATUS entry takes 512 bytes of GETVIS storage for plot definition. Data is collected for the preceding hour, in one-minute intervals. **Note:** If you specify the member name in the form name??, Unicenter CA-Explore for CICS will automatically replace ?? with the ID of each partition. For example, if you specify VSTATUS-MEMBER=$VSTAT??, Unicenter CA-Explore for CICS will automatically use member $VSTATA1.P to define variables and resources for partition A1, member $VSTATA2.P for partition A2, and so on. If a member with the name generated by Unicenter CA-Explore for CICS does not exist for a partition, member $VSTAT.P is used by default.
VSTATUS-TOTAL-INTERVAL	1	Specify the variable status data collection interval, in hours. Data for each interval is presented in 60 segments, regardless of the length of the interval. For example, if the interval is 1 hour, each segment is 1 minute; if the interval is 4 hours, each segment is 4 minutes. The amount of storage and overhead required is the same regardless of the length of the interval.
VTAM-APPLID	None	Specify the name of the VTAM applid used to communicate with Unicenter CA-Explore for CICS with VSE from other Unicenter CA-Explore for CICS partitions or other CA products. **Note:** This parameter used to be defined in the MIT.
XMONITOR-ACTIVE	YES	Specify one of the following: YES — Activate the XMONITOR function, which monitors all partitions for problems. The XMONITOR panel displays the status of all partitions in the system. NO — Do not activate the XMONITOR function.

Option	Default	Description
XMONITOR-GLOBAL-ALARM	NO	Specify one of the following to define where messages indicating that a problem has been detected will appear. Problem conditions exist when a threshold limit is violated or when the warning percentage of a threshold is exceeded. YES Issue a message on all panels when a problem is detected. NO Issue a message on only the XMONITOR panel when a problem is detected.
XMONITOR-MEMBER	$XMON	Specify the name of the member containing a list of variables to be monitored by the XMONITOR function. If you specify the member name in the form name??, Unicenter CA-Explore for CICS will automatically replace ?? with the ID of each partition. For example, if you specify XMONITOR-MEMBER=$XMON??, Unicenter CA-Explore for CICS will automatically use member $XMONA1.P to define variables for partition A1, member $XMONA2.P for partition A2, and so on. If a member with the name generated by Unicenter CA-Explore for CICS does not exist for a partition, member $XMON.P is used by default.

Chapter

18 Performance Thresholds

A performance threshold is a level of usage of a resource. You set a threshold parameter to indicate the level you do not want usage to exceed or fall below. This chapter explains how to set thresholds for system resources to better monitor performance.

Note: This chapter discusses the uses of Unicenter CA-Explore for CICS with CICS Version 2.3 (CICS 2.3) and CICS Transaction Server Version 1.1 (TS 1.1). Unless a distinction is noted, the information applies to both versions.

Understanding Thresholds

Thresholds are divided into the following types:

- End-of-task
- Dynamic task
- System

Any variable can be used as a threshold. See the appendix "Variables" for descriptions of all variables.

You can specify a threshold value as a maximum or minimum level of usage. When a resource's level of usage exceeds the maximum, or falls below the minimum value you set, the threshold is triggered. When a threshold is triggered, the following events occur:

- The THRESHOL panel displays when, how many times, and at what level of usage a resource triggered the threshold.
- A record is logged to the flashback and archive files (optional).
- A message is sent to the operator console (optional).

Using Threshold Override Members

When setting thresholds, you can:

- Set permanent thresholds in one or more threshold override members in the Unicenter CA-Explore for CICS product library.
- Create multiple threshold override members to set different thresholds for each CICS partition.
- Use one threshold override member for all CICS partitions. The member $THRSH.P is the default threshold table member. This threshold table can be shared by all CICS partitions.

Creating Override Members for Multiple CICS Partitions

You can create threshold override members to define different thresholds for each partition. Any partition for which you do not create a specific threshold override member uses the threshold settings specified in $THRSH.P.

To create separate override members, use the following steps:

Step	Action
1	Copy and rename $THRSH.P to create a new member in the Unicenter CA-Explore for CICS product library. If you have a separate configuration option member for each partition, the name of the threshold override member for a partition must be the same as the name defined by the THRESHOLD-MEMBER option in the configuration option member for that partition. If you have a single configuration option member that defines options for all partitions, the following rules apply: ■ If the THRESHOLD-MEMBER configuration option is set to *name*??, the name of the threshold override member must be in the form *nameid*.P, where *name* is the same in both places and *id* is the ID of the partition to which the threshold override member applies. For example, if the configuration option is THRESHOLD-MEMBER=$THRSH??, then the name of the threshold override member for partition A4 must be $THRSHA4.P. ■ If the THRESHOLD-MEMBER option is set to *name*?? and a threshold override member with the name *nameid*.P is not found for a partition, threshold override member $THRSH.P is used.
2	Set threshold definitions for the partition.
3	Save the new member. The new threshold definitions will take effect when Unicenter CA-Explore for CICS is reinitialized.

Monitoring Thresholds

You can monitor, on any of the following panels, which thresholds have been triggered:

- **THRESHOL panel**—Displays the number of times each threshold has been triggered and the resource and threshold value that last triggered it. This panel also shows the thresholds that are currently in effect. See the next section for more information.
- **THRESHOL Historical Flashback panel**—Displays information from the threshold records in the flashback files. See the chapter titled "/HISTORY Menu Options" for a description of the panel.
- **XMONITOR panel**—Displays a summary of the status of all systems, including a field that indicates whether any thresholds are approaching the limit or have been triggered. See the chapter titled "/PROBLEM Menu Options" for a description of the panel.

Using the THRESHOL Panel

The THRESHOL panel displays the threshold definitions currently in effect. If no thresholds have been changed since Unicenter CA-Explore for CICS was initialized, the thresholds shown are the same as those set in the threshold override member.

Menu Access

Cursor-select the THRESHOL option from the Unicenter CA-Explore for CICS Main menu.

Command Access

Enter **THRESHOL** on the command line of any Unicenter CA-Explore for CICS panel.

Sample Panel

```
Unicenter CA-Explore 7.0 0204  DEVCICS4 DB2CICS4 FAQS       2003/07/09 15:03:45
==>                                                                  THRESHOL
                       Unicenter CA-Explore Thresholds             1:11/11-DATA
                                  1 Triggered
Name      Resource Resource    Limit  Pct  Count Class Type  Int Can Msg Log
ABENDS    *        *               1   75        Count Upper End No  Yes Yes
CPU%      $SYSTEM$                90   75      1 Pct   Upper Sys No  Yes Yes
DSACOMP   $SYSTEM$                 1   75        Count Upper Sys No  Yes Yes
DSAFULL   $SYSTEM$                90   75        Pct   Upper Sys No  Yes Yes
EXPCARC   $SYSTEM$                95   75        Pct   Upper Sys No  Yes Yes
GETVIS    $SYSTEM$               128   25        Count Lower Sys No  Yes Yes
MXTTASK   $SYSTEM$                 1   75        Count Upper Sys No  Yes Yes
RUNAWAYS  $SYSTEM$                 1   75        Count Upper Sys No  Yes Yes
SOS       $SYSTEM$                 1   75        Count Upper Sys No  Yes Yes
SPURGE    $SYSTEM$                 1   75        Count Upper Sys No  Yes Yes
STGVIOL   *        *               1   75        Count Upper Dyn No  Yes Yes
STORCUSH  $SYSTEM$                 1   75        Count Upper Sys No  Yes Yes


F1=Help      F2=System    F3=Return    F4=Flshback  F5=Top       F6=Bottom
F7=Backward  F8=Forward   F9=Auto     F10=         F11=         F12=Exit
```

Panel Field Descriptions

Field	Description	
Name	Threshold name.	
Resource	Resource to be monitored for the threshold. System thresholds have a resource defined as $SYSTEM$. A transaction ID appears in this field for other types of thresholds. The second Resource field specifies a second resource to be monitored. This field can be a terminal ID, a filename, or other resource, depending on the threshold.	
Limit	Threshold limit value. If the Class shows the word Time, the limit value is in milliseconds. A limit value of zero deactivates the threshold. Overtype this value to change it.	
Pct	Percentage of the threshold limit value at which you want a warning to be issued. On color monitors, the warning condition is indicated when the color in which the threshold is displayed changes to yellow; on monochrome monitors, the word Warning appears. A warning indicates that a percentage of the threshold limit value has been reached, *not* that the threshold has been triggered. Overtype this value to change it.	
Count	Number of times the threshold was triggered.	
Class	Threshold class, as follows:	
	Count	The limit is a number of occurrences.
	Time	The limit is a length of time.
	Pct	The limit is a percentage.
	%	The limit is a percentage.
	Rate	The limit is a rate per second.
Type	Threshold type, as follows:	
	Upper	Upper limit: the threshold is triggered when the Limit value is exceeded.
	Lower	Lower limit: the threshold is triggered when a value below the Limit value is detected.

Field	Description	
Int	When the threshold is to be checked, as follows:	
	END	Check threshold at task end.
	DYN	Check threshold dynamically each time a transaction is dispatched.
	SYS	Check at system intervals, as defined by the SYSTEM-INTERVAL configuration option.
	Overtype this value to change it.	
Can	Whether to cancel or suspend the task if the threshold is triggered, as follows:	
	Yes	Cancel the task.
	No	Do not cancel the task.
	Sus	Suspend the task.
	Overtype this value to change it.	
Msg	Whether to issue a message if the threshold is triggered, as follows:	
	Yes	Issue a message to the console.
	No	Do not issue a message.
	Overtype this value to change it.	
Log	Whether to log the threshold if it is triggered, as follows:	
	Yes	Log the threshold to the archive and flashback files.
	No	Do not log the threshold.
	Overtype this value to change it.	

Displaying Additional Fields

Additional fields you can display by pressing F10 are as follows:

Field	Description	
Post	Action to take if the threshold is triggered, as follows:	
	Yes	Post an event to FAQS/ASO or FAQS/PCS. The default event name is the threshold name.
	No	Take no action.
	Cmd	Issue the command specified in the Event field.
Event	Name of the event to process if the threshold is triggered. If the value in the Post field is *Yes*, the event is posted to FAQS/ASO or FAQS/PCS. The default event name is the threshold name. If the value in the Post field is Cmd, the value in the Event field is issued as a command. The following are the valid commands that can appear in this field:	
	FREEZE	Stops execution of CICS.
	TASKSUSP	Suspends the transaction (CICS 2.3 only).
Value	Value last triggering the threshold	
Resource	Resource last triggering the threshold	
Count	Number of times the threshold has been triggered	
Time	Time the threshold was last triggered	
Term	Terminal last triggering the threshold	
Tran	Transaction last triggering the threshold	
Task#	Task number last triggering the threshold	

Setting Thresholds

You can set performance thresholds using any or all of the following:

- **Threshold override members**—These members are in the Unicenter CA-Explore for CICS product library. The thresholds you set here are permanent.
- **THRESHOL panel**—The thresholds you set here remain in effect until Unicenter CA-Explore for CICS is reinitialized.
- **THREShol ADD command**—The thresholds you set here remain in effect until Unicenter CA-Explore for CICS is reinitialized.

The thresholds you set in the threshold table member take effect when Unicenter CA-Explore for CICS is reinitialized.

Note: The thresholds you set from the THRESHOL panel, or by using the THREShol ADD command, take effect immediately. However, when Unicenter CA-Explore for CICS is reinitialized, the thresholds defined in the threshold table member again take effect.

Procedure for Setting Thresholds

The information you enter to set thresholds in the threshold table member is the same type of information you enter to set thresholds from the THRESHOL panel. Except where indicated, the instructions given here apply to both the threshold table member and the THRESHOL panel.

See the chapter titled "/CONFIG Menu Options" for instructions on using the THREShol ADD command to define a new threshold.

To set a threshold on the THRESHOL panel or in a threshold override member, take the steps shown in the following table:

Step	Action
1	Access either the threshold source member or the THRESHOL panel. You must use the threshold source member if you want to ■ Set permanent thresholds ■ Duplicate threshold parameters for individual resources
2	Do one of the following: ■ If you want to set a threshold for a specific resource, enter the resource's identifier in the Resource input field. ■ If you want the threshold to apply to all resources of that threshold type, leave the Resource field blank. In the first resource field, system thresholds have a resource defined as $SYSTEM$. For other types of thresholds, specify a transaction ID. In the second Resource field, specify a second resource to be monitored. This field can be a terminal ID, a filename, or other resource, depending on the threshold. You can include generic characters in the string, as explained in the chapter titled "Using Unicenter CA-Explore Performance Management for CICS." Resource fields cannot be changed on the THRESHOL panel.
3	In the Limit input field, enter the count, time (with up to three decimal places), percent, or rate per second at which you want the threshold to be triggered. A limit of zero disables the threshold.
4	In the Pct field, enter the percentage of the threshold value at which you want a warning to be issued. On color monitors, the warning condition is indicated when the threshold is displayed in yellow; on monochrome monitors, the word Warning appears. A warning indicates that a percentage of the threshold limit value has been reached, **not** that the threshold has been triggered.
5	In the Type input field, enter **UPPER** or **LOWER** to indicate whether the threshold should be triggered when resource usage exceeds or falls below the limit you specified. This field cannot be changed on the THRESHOL panel.

Step	Action
6	In the Int input field, enter **END** to check the threshold at the end of the task, **DYN** to check the threshold when the transaction is dispatched, or **SYS** to check the threshold at system intervals.
7	In the Can input field, enter **YES** or **NO** to indicate whether the transaction should be canceled when the threshold is triggered, or enter **SUS** to indicate the transaction should be suspended when the threshold is triggered. If you specify **YES**, you must specify **DYN** in the Int field.
8	In the Msg input field, enter **YES** or **NO** to indicate whether a message should be sent to the operator console when the threshold is triggered.
9	In the Log input field, enter **YES** or **NO** to indicate whether a record should be logged to the archive and flashback files when the threshold is triggered.
10	In the Post input field, enter **YES** or **NO** to indicate whether an event should be posted to FAQS/ASO or FAQS/PCS when the threshold is triggered, or enter **CMD** to issue the command specified in the Event field when the threshold is triggered.
11	In the Event field, specify the name of the event to process if the threshold is triggered. If the value in the Post field is *Yes*, the event is posted to FAQS/ASO or FAQS/PCS. The default event name is the threshold name. If the value in the Post field is Cmd, specify a value that is to be issued as a command. The following are the valid commands that can appear in this field: FREEZE Stops execution of CICS. TASKSUSP Suspends the transaction (CICS 2.3 only).
12	In the threshold source member, delete unused thresholds to reduce Unicenter CA-Explore for CICS overhead. You can copy parameters from the $THRSH member in the Unicenter CA-Explore for CICS product library.

The following table shows the purpose of each of the threshold input fields:

This Field	Is Used To Indicate
Resource	If applicable, a specific transaction or resource identifier.
Limit	The count, time (in milliseconds), or rate (times per second) at which resource usage triggers the threshold.
Pct	Percentage of the threshold limit value at which you want a warning to be issued. On color monitors, the warning condition is indicated when the threshold is displayed in yellow; on monochrome monitors, the word Warning appears. A warning indicates that a percentage of the threshold limit value has been reached, **not** that the threshold has been triggered.
Type	Whether the value specified by Limit is an upper or lower limit.
Int	Whether the resource is to be checked at the end of the task, dynamically, or at system intervals.
Can	Whether the task is to be canceled or suspended when the threshold is triggered.
Msg	Whether a message should be sent to the operator console when the threshold is triggered.
Log	Whether a threshold record should be logged to the archive and flashback files when the threshold is triggered.
Post	Whether an event is to be posted to FAQS/ASO or FAQS/PCS or the Unicenter CA-Explore for CICS command specified in the Event field is to be executed.
Event	The name of the event to be posted to FAQS/ASO or FAQS/PCS or the Unicenter CA-Explore for CICS command to be issued when the threshold is triggered

Sample Threshold Table Member

The following panel shows a portion of the threshold table member:

```
....+....1....+....2....+....3....+....4....+....5....+....6....+....7....+....*
..NAME.. RESOURCE RESOURCE ...LIMIT PCT TYPE  CLASS INT CA MSG LOG POST EVENT...
ABENDS   *        *               1  75 UPPER COUNT END NO YES YES NO   ABENDS
ATTACH   *        *               0  75 UPPER COUNT END NO NO  YES NO   ATTACH
BMSWAIT  *        *               0  75 UPPER COUNT END NO NO  YES NO   BMSWAIT
BYTESR   *        *               0  75 UPPER COUNT END NO NO  YES NO   BYTESR
BYTESW   *        *               0  75 UPPER COUNT END NO NO  YES NO   BYTESW
CICSWAIT *        *               0  75 UPPER COUNT END NO NO  YES NO   CICSWAIT
CMDUSE   *        *               0  75 UPPER COUNT END NO NO  YES NO   CMDUSE
CPUTIME  *        *           0.000  75 UPPER TIME  END NO NO  YES NO   CPUTIME
DCPWAIT  *        *               0  75 UPPER COUNT END NO NO  YES NO   DCPWAIT
DCTUSE   *        *               0  75 UPPER COUNT END NO NO  YES NO   DCTUSE
DEQUEUE  *        *               0  75 UPPER COUNT END NO NO  YES NO   DEQUEUE
DETACH   *        *               0  75 UPPER COUNT END NO NO  YES NO   DETACH
DISPATCH *        *               0  75 UPPER COUNT END NO NO  YES NO   DISPATCH
```

Table Member Field Descriptions

The following table lists the field name, column, column length, and values designated for thresholds in the threshold table:

Field	Columns	Length	Values
NAME	01-08	08	Any threshold name
RESOURCE	10-17	08	Resource to be monitored for the threshold. System thresholds have a resource defined as $SYSTEM$. A transaction ID appears in this field for other types of thresholds.
RESOURCE	19-26	08	A second resource to be monitored. This field can be a terminal ID, a filename, or other resource, depending on the threshold.
LIMIT	28-35	08	Threshold limit value. If the Class shows the word Time, the limit value is in milliseconds. A limit value of zero deactivates the threshold.

Field	Columns	Length	Values	
PCT	37-39	03	Percentage of the threshold limit value at which you want a warning to be issued. On color monitors, the warning condition is indicated when the color in which the threshold is displayed changes to yellow; on monochrome monitors, the word Warning appears. A warning indicates that the specified percentage of the threshold limit value has been reached, **not** that the threshold has been triggered.	
TYPE	41-45	05	UPPER	The limit is an upper limit; the threshold is triggered when the Limit value is exceeded.
			LOWER	The limit is a lower limit; the threshold is triggered when a value below the Limit value is detected.
CLASS	47-51	05	COUNT	The limit specifies a number of occurrences during a system interval (defined by the SYSTEM-INTERVAL configuration option).
			TIME	The limit specifies a length of time.
			RATE	The limit specifies a rate per second.
			PERCENT or %	The limit specifies a percentage.

Field	Columns	Length	Values	
INT	53-55	03	END	Check the threshold at task end.
			DYN	Check the threshold when tasks are dispatched.
			SYS	Check the threshold at system intervals, as defined by the SYSTEM-INTERVAL configuration option.
CA	57-58	02	YES	Cancel the task if the threshold is triggered.
			NO	Do not cancel the task if the threshold is triggered.
			SUS	Suspend the task if the threshold is triggered.
MSG	60-62	03	YES	Issue a message to the console if the threshold is triggered.
			NO	Do not issue a message to the console if a threshold is triggered.
LOG	64-66	03	YES	Log the threshold to the archive and flashback files if the threshold is triggered.
			NO	Do not log the threshold.

Field	Columns	Length	Values	
POST	68-70	03	YES	Post the event specified in the EVENT field to FAQS/ASO or FAQS/PCS if the threshold is triggered (default is threshold name).
			NO	Take no action if the threshold is triggered.
			CMD	Issue the command specified in the EVENT field.
EVENT	73-80	08	Name of the event to process if the threshold is triggered. If the value in the Post field is Yes, the event is posted to FAQS/ASO or FAQS/PCS. The default event name is the threshold name. If the value in the Post field is Cmd, the value in the EVENT field is issued as a command. The following are the valid commands that can appear in this field:	
			FREEZE	Stops execution of CICS.
			TASKSUSP	Suspends the transaction (CICS 2.3 only).

Examples

End-of-Task Thresholds

The following threshold is triggered when the CPU usage for a transaction is greater than 250 milliseconds:

```
..NAME.. RESOURCE RESOURCE ...LIMIT PCT TYPE  CLASS INT CA MSG LOG POST EVENT...
CPUTIME                      0.250  75 UPPER TIME  END NO NO  YES NO   CPUTIME
```

The following threshold is triggered when the number of file requests exceeds 100:

```
..NAME.. RESOURCE RESOURCE ...LIMIT PCT TYPE  CLASS INT CA MSG LOG POST EVENT...
FILEREQS                       100  75 UPPER COUNT END NO YES YES NO   FILEREQS
```

System Threshold Settings

The following threshold is triggered when CPU usage exceeds 500 milliseconds:

```
..NAME.. RESOURCE RESOURCE ...LIMIT PCT TYPE  CLASS INT CA MSG LOG POST EVENT...
CPURATE  $SYSTEM$            0.500  75 UPPER TIME  SYS NO YES YES NO   CPURATE
```

The following threshold is triggered when dynamic storage area usage exceeds 90 percent:

```
..NAME.. RESOURCE RESOURCE ...LIMIT PCT TYPE  CLASS INT CA MSG LOG POST EVENT...
DSAFULL  $SYSTEM$              90  75 UPPER PCT   SYS NO YES YES NO   DSAFULL
```

This threshold is triggered when the I/O rate exceeds 50 per second:

```
..NAME.. RESOURCE RESOURCE ...LIMIT PCT TYPE  CLASS INT CA MSG LOG POST EVENT...
IORATE   $SYSTEM$           50.000  75 UPPER RATE  SYS NO YES YES NO   IORATE
```

Chapter 19

Variable Status Data Collection

The variables you specify in Unicenter CA-Explore for CICS variable status collection table members determine the variable status data Unicenter CA-Explore for CICS collects. This chapter explains how to specify those variables.

Note: This chapter discusses the uses of Unicenter CA-Explore for CICS with CICS Version 2.3 (CICS 2.3) and CICS Transaction Server Version 1.1 (TS 1.1). Unless a distinction is noted, the information applies to both versions.

You can display collected data on the VSTATUS panel. Using this panel, you can also temporarily change the variable status data that is collected; the variables you specify from this panel remain in effect until Unicenter CA-Explore for CICS is reinitialized. See the chapter titled "/STATUS Menu Options" for an explanation of the VSTATUS panel.

Using Variable Status Collection Table Members

The type of data Unicenter CA-Explore for CICS collects for building online plots is determined by the values of the variables in variable status collection table members in the Unicenter CA-Explore for CICS product library. All variables that can be specified in variable status collection table members are listed in the appendix "Variables."

You can specify the variable status data Unicenter CA-Explore for CICS collects by modifying these members. By creating multiple variable status collection table members, you can have Unicenter CA-Explore for CICS collect different data for each CICS partition.

The member $VSTATUS.P is the default variable status collection table member. This table member can be shared by all CICS partitions.

You can create separate variable status collection table members for each partition to define different settings for each. All partitions for which you do not create a specific variable status collection table member use the settings specified in $VSTATUS.P. To create separate table members, use the following steps:

Step	Action
1	Copy and rename $VSTATUS.P to create a new member in the Unicenter CA-Explore for CICS product library. If you have a separate configuration option member for each partition, the name of the variable status collection table member for a partition must be the same as the name defined by the VSTATUS-MEMBER option in the configuration option member for that partition. If you have a single configuration option member that defines options for all partitions, the following rules apply: ■ If the VSTATUS-MEMBER configuration option is set to *name*??, the name of the variable status collection table member must be in the form *nameid*.P, where *name* is the same in both places and *id* is the ID of the partition to which the variable status collection table member applies. For example, if the configuration option is VSTATUS-MEMBER=$VSTAT??, then the name of the variable status collection table member for partition A4 must be $VSTATA4.P. ■ If the VSTATUS-MEMBER option is set to *name*?? and a variable status collection table member with the name *nameid*.P is not found for a partition, member $VSTATUS.P is used.
2	Set the variable status collection definitions for the partition.
3	Save the new member. The new variable status collection definitions will take effect when Unicenter CA-Explore for CICS is reinitialized.

Sample Variable Status Collection Table Member

A sample Unicenter CA-Explore for CICS product library member $VSTATUS.P, the default variable status collection table, is shown next.

```
*                                                                              *
*                         CA-Explore for CICS                                  *
*                                                                              *
*                Variable Status Collection Table                              *
*                                                                              *
*   This is the default variable status collection member that will            *
*   be used to create a list of resources that CA-Explore for CICS will*
*   perform more detailed collection on.                                       *
*                                                                              *
*   This member may be copied and/or renamed.  A different member              *
*   may be used for each CA-Explore for CICS region.                           *
*   This is NOT required.                                                      *
*                                                                              *
*   The default member name that will be used is $VSTATUS.                     *
*                                                                              *
*   This name can be overridden by changing the configuration option           *
*   VSTATUS-MEMBER=      in the configuration overrides member.                *
*                                                                              *
*------------------------------------------------------------------------------*
*                                                                              *
*  Variable Status Collection Table                                            *
*                                                                              *
*  Additional entries can be added to specify specific resources.              *
*  Multiple entries can exist for each variable name.                          *
*                                                                              *
*  Resources can be specified in generic terms.                                *
*                                                                              *
*  Entries in this table are NOT column specific.                              *
*                                                                              *
*------------------------------------------------------------------------------*
*                                                                              *
*        Detailed transaction variables                                        *
*                                                                              *
*        RESOURCE-1 - Transaction id                                           *
*        RESOURCE-2 - Terminal id                                              *
*                                                                              *
*        A specific or generic resource can be supplied                        *
*                                                                              *
*...+....1....+....2....+....3....+....4....+....5....+....6....+....7.*
*.NAME..   RESOURCE-1 RESOURCE-2 ..................................*
CPUTIME    *          *
LIFETIME   *          *
RESPTIME   *          *
TRANUSE    *          *
*------------------------------------------------------------------------------*
*                                                                              *
*        Detailed transaction variables                                        *
*                                                                              *
*        The following variable use resource 1 and resource 2.                 *
*                                                                              *
*        RESOURCE-1 - Transaction id                                           *
*        RESOURCE-2 - Variable specific, such as filename or program           *
*                                                                              *
*...+....1....+....2....+....3....+....4....+....5....+....6....+....7.*
*.NAME..   RESOURCE-1  RESOURCE-2 ..................................*
FILEREQS   *          *
```

```
*------------------------------------------------------------------------------*
*                                                                              *
*        SYSTEM VARIABLES                                                      *
*                                                                              *
*        RESOURCE 1 - $SYSTEM$                                                 *
*                                                                              *
*...+....1....+....2....+....3....+....4....+....5....+....6....+....7....+..*
*.NAME..   RESOURCE-1  RESOURCE-2 ...................................*
CPU%       $SYSTEM$
CPU%JOB    $SYSTEM$
DSA%       $SYSTEM$
EXPCARC    $SYSTEM$
GETVIS24   $SYSTEM$
GETVIS31   $SYSTEM$
GETV24%    $SYSTEM$
GETV31%    $SYSTEM$
IORATE     $SYSTEM$
TRANCMP    $SYSTEM$
TRANCPU    $SYSTEM$
TRANDLI    $SYSTEM$
TRANEXPC   $SYSTEM$
TRANFILE   $SYSTEM$
TRANLIFE   $SYSTEM$
TRANPROG   $SYSTEM$
TRANRSCE   $SYSTEM$
TRANSOS    $SYSTEM$
TRANSUSP   $SYSTEM$
TRANTERM   $SYSTEM$
TRANWAIT   $SYSTEM$
TRANWTR    $SYSTEM$
VSAMFILE   $SYSTEM$
/+
```

Modifying Variable Status Collection Table Members

You can display collected data on the VSTATUS panel and, from this panel, temporarily change the variable status data Unicenter CA-Explore for CICS collects; the variables you specify from this panel remain in effect until Unicenter CA-Explore for CICS is reinitialized. See the chapter titled "/STATUS Menu Options" for an explanation of the VSTATUS panel.

You can tailor variable status collection table members by doing the following:

- Add variables corresponding to the variable collection data you want Unicenter CA-Explore for CICS to collect.
- Delete existing variables for which you do not want data collected.
- Specify individual resources or, using generic characters, groups of resources to which a variable is to apply. The following section explains how to specify the resources to be associated with a variable.

Use the RESOURCE column in variable status collection table members to specify individual or groups of resources for which variable status data is to be collected. You can identify multiple resources for each variable name. You can use generic characters, or *wildcards*, in the resource definition to limit the scope of the information displayed by the command. The generic characters, asterisk (*), plus sign (+), and not sign (¬), let you limit (or *mask*) data to only those resources having common characters in their names. See the chapter titled "Using Unicenter CA-Explore Performance Management for CICS" for instructions.

Overhead Considerations

The number of variables you specify in variable status collection table members affects the amount of overhead and storage required by Unicenter CA-Explore for CICS. You should **not** specify all valid variables in a variable status collection table member.

Chapter

20

Command Options Overrides

Unicenter CA-Explore for CICS reads command options override members in the Unicenter CA-Explore for CICS product library to determine:

- Which Unicenter CA-Explore for CICS commands are to be secured
- Which operands are to be executed by default with Unicenter CA-Explore for CICS commands

This chapter explains how to specify command option overrides in the Unicenter CA-Explore for CICS product library.

Note: This chapter discusses the uses of Unicenter CA-Explore for CICS with CICS Version 2.3 (CICS 2.3) and CICS Transaction Server Version 1.1 (TS 1.1). Unless a distinction is noted, the information applies to both versions.

Specifying Command Options Overrides

You can create different command options override members for each CICS partition to define unique command options for each partition.

The Unicenter CA-Explore for CICS product library member $CMD.P is the default command options override member. This member can be shared by all CICS partitions.

All partitions for which you do not create a specific variable status collection table member use the settings specified in $CMD.P.

Take the following steps to create a separate command options override member for a CICS partition:

Step	Action
1	Copy and rename $CMD.P to create a new member in the Unicenter CA-Explore for CICS product library. If you have a separate configuration option member for each partition, the name of the command options override member for a partition must be the same as the name defined by the COMMAND-MEMBER option in the configuration option member for that partition. If you have a single configuration option member that defines options for all partitions, the following rules apply: ■ If the COMMAND-MEMBER configuration option is set to *name*??, the name of the command options override member must be in the form *nameid*.P, where *name* is the same in both places and *id* is the ID of the partition to which the command options override member applies. For example, if the configuration option is COMMAND-MEMBER=$CMD??, then the name of the command options override member for partition 4 must be $CMD04.P. ■ If the COMMAND-MEMBER option is set to *name*?? and a command options override member with the name *nameid*.P is not found for a partition, member $CMD.P is used.
2	Define the command options for the partition.
3	Save the new member. The new command options definitions will take effect when Unicenter CA-Explore for CICS is reinitialized.

The following is a sample command options override member:

```
*********************************************************************
*                                                                   *
*                     CA-EXPLORE for CICS                           *
*                   Command Option Overrides                        *
*                                                                   *
*   This member is used to define and alter the options associated  *
*   with each CA-EXPLORE for CICS command.                            *
*   This member may be copied and/or renamed.  A different member may  *
*   be used for each EXPLORE for CICS partition.  This is NOT required.   *
*   The default member name that will be used is $CMD.              *
*   This name can be overridden by changing the configuration option   *
*   COMMAND-MEMBER=xxxxxxxx  in the configuration overrides member.    *
*                                                                   *
*   Configuration Options associated with this member:              *
*                                                                   *
*      SECURITY=NO                                                  *
*      SECURE-COMMANDS=YES                                          *
*      COMMAND-MEMBER=$CMD                                          *
*      COMMAND-MESSAGES=YES                                         *
*                                                                   *
*      *** Warning ***                                              *
*                                                                   *
*      Until external logon and command security has been           *
*      established, the configuration options should be set as follows: *
*      SECURITY=NO                                                  *
*      SECURE-COMMANDS=NO                                           *
*      COMMAND-MEMBER=$CMD                                          *
*      COMMAND-MESSAGES=YES                                         *
*                                                                   *
*   By adding a command to this table, the default options of that  *
*   command can be overridden.                                       *
*                                                                   *
*   Define only 1 command per line, followed by its options.        *
*                                                                   *
*   Options:                                                        *
*                                                                   *
*        SECURITY           - External security                     *
*        NOSECURE           - No external security                  *
*        NOLIST             - Do not display command on any menus   *
*        DISABLE            - Disable use of command                *
*        SORTARG argument   - Default command sort argument         *
*                                                                   *
*                                                                   *
*   The following list of commands is only a suggested list of      *
*   commands that should be secured.                                *
*                                                                   *
*********************************************************************
ALTER     SECURITY
CAPTURE   SECURITY
CEMT      SECURITY
CONFIG    SECURITY
DELETEQ   SECURITY CONFIRM
FREEZE    SECURITY CONFIRM
GENTABLE  SECURITY
SECURITY  SECURITY
SEGMENT   SECURITY
SETLOGON  SECURITY
TRANKILL  SECURITY CONFIRM
VSE       SECURITY
JOBS      SORTARG ID
```

Modifying Command Options Override Members

WARNING! *Until external logon and command security have been established, the configuration options should remain set to the default values established by $CMD.P.*

You can modify your command options override members by adding or deleting commands and command options. Specify only a single command per line, followed by its options.

The following options can be specified:

Option	Description
SECURITY	Apply external security for the command. A list of commands for which security is recommended is given in the member $CMD.P. **Note:** If you use CA-ALERT to provide security, you do not need to maintain $CMD.P. For additional information, see the chapter titled "Security."
NOSECURE	Do not apply external security for the command. **Note:** If you use CA-ALERT to provide security, you do not need to maintain $CMD.P. For additional information, see the chapter titled "Security."
NOLIST	Do not display command on any menus.
DISABLE	Disable use of the command.
SORTARG *value*	Set the default command sort argument to the specified value.
MENU *menuname*	Assigns the command to appear on the menu specified by *menuname*.

Chapter

21

XMONITOR Variables

The global monitoring variables you specify determine the global monitoring data Unicenter CA-Explore for CICS collects. This chapter explains how to specify variables in Unicenter CA-Explore for CICS global monitor table members.

Note: This chapter discusses the uses of Unicenter CA-Explore for CICS with CICS Version 2.3 (CICS 2.3) and CICS Transaction Server Version 1.1 (TS 1.1). Unless a distinction is noted, the information applies to both versions.

Identifying the Data to Be Collected

The type of data Unicenter CA-Explore for CICS collects for display on the XMONITOR panel is determined by the values of the variables in global monitor table members in the Unicenter CA-Explore for CICS product library.

You can specify the data Unicenter CA-Explore for CICS collects by modifying these members. By creating multiple global monitor table members, you can have Unicenter CA-Explore for CICS collect different data for each CICS partition.

You can display collected data on the XMONITOR panel, which includes summary information about the status of all partitions monitored by Unicenter CA-Explore for CICS. The XMONITOR panel is described in the chapter titled "/PROBLEM Menu Options."

All variables that can be specified in global monitor table members are listed in the appendix "Variables."

Using One Global Monitor Table Member for All CICS Partitions

The member $XMON.P is the default global monitor table member. This table member can be shared by all CICS partitions.

All partitions for which you do not create a specific global monitor table member use the settings specified in $XMON.P.

Creating Global Monitor Table Members for Multiple CICS Partitions

You can create separate global monitor table members for each partition to collect different data for each partition. Any partition for which you do not create a separate table member uses the member $XMON.P.

To create separate table members, take the following steps:

Step	Action
1	Copy and rename $XMON.P to create a new member in the Unicenter CA-Explore for CICS product library. How you should name the new member depends on whether you have a separate configuration table member for each partition. If you have a separate configuration table member for each partition, give the global monitor table member any name. The name must be specified by the XMONITOR-MEMBER option in the configuration table member for that partition. If you have a single configuration table member that defines options for all partitions, set the XMONITOR-MEMBER configuration option to *name*??, and name the global monitor table member *nameid*. *name* must be the same in both places, and *id* is the ID of the partition to which the global monitor table member applies. For example, if XMONITOR-MEMBER=$XMON??, then the name of the global monitor table member for partition M4 must be $XMONM4.P.
2	Set the global monitor data collection definitions for the partition. See the next section, Modifying Global Monitor Table Members, for information about modifying these definitions.
3	Save the new member. The new global monitor data collection definitions will take effect when Unicenter CA-Explore for CICS is reinitialized.

The Unicenter CA-Explore for CICS product library member $XMON.P, shown below, is the default global monitor table:

```
*------------------------------------------------------------------------*
*                                                                        *
*                        Unicenter CA"Explore                              *
*                                                                        *
*                      Extended Condition Monitor                        *
*                                                                        *
*------------------------------------------------------------------------*
*Name... Resource Resource   Command.......................
RESPTIME *        *          RESPTIME
CPU%     $SYSTEM$ *          JOBS
CPU%JOB3 $SYSTEM$ *          TASKS
DSA%     $SYSTEM$ *          DSA
GETVIS24 $SYSTEM$ *          GETVIS24
GETVIS31 $SYSTEM$ *          GETVIS31
TRANCPU  $SYSTEM$ *          TASKS
TRANFILE $SYSTEM$ *          SYSDATA ANALYSIS
TRANLIFE $SYSTEM$ *          SYSDATA ANALYSIS
TRANPROG $SYSTEM$ *          SYSDATA ANALYSIS
TRANSUSP $SYSTEM$ *          SYSDATA ANALYSIS
TRANTERM $SYSTEM$ *          SYSDATA ANALYSIS
TRANWAIT $SYSTEM$ *          SYSDATA ANALYSIS
```

Modifying Global Monitor Table Members

Follow the steps below to specify the global monitor data you want Unicenter CA-Explore for CICS to collect.

Step	Action
1	In the Name field, specify the variable corresponding to the data you want Unicenter CA-Explore for CICS to collect. If the variable is not a system variable, you must also specify it in the variable status collection table member $VSTAT, as explained in the chapter titled "Specifying Variable Status Data Collection." See the appendix "Variables" for descriptions of all variables.
2	If you want data to be collected for all resources, leave the Resource fields blank. If you want data to be collected for a specific resource, enter the resource's identifier in the Resource fields, as follows: ■ For system variables, specify $SYSTEM$ in the first Resource field. ■ For other types of variables, specify a transaction ID in the first Resource field. In the second Resource field, specify a resource to which monitoring is to be limited. This field can be a terminal ID, a filename, or other resource, depending on the variable. You can include generic characters in the string, as explained in the chapter titled "Using Unicenter CA-Explore Performance Management for CICS."
3	In the Command field, specify the command to be executed when the variable is cursor-selected on the XMONITOR Detail panel. Cursor-selecting a variable on the XMONITOR Detail panel automatically executes the command and displays its associated panel.

Overhead Considerations

The number of variables you specify in global monitor table members affects the amount of overhead and storage required by Unicenter CA-Explore for CICS. You should not specify all valid variables in a global monitor table member.

Chapter

22 Security

You can provide security for Unicenter CA-Explore for CICS in the following ways:

- You can use the Unicenter CA-Explore for CICS internal security table members to control access to Unicenter CA-Explore for CICS and command privileges.
- If you are using *e*Trust CA-Top Secret and CICS 2.3or TS 1.1, you can use *e*Trust CA-Top Secret to define and maintain all security.

This chapter explains how to define internal security using Unicenter CA-Explore for CICS security table members. It also explains how to define external security via *e*Trust CA-Top Secret when using CICS 2.3, and *e*Trust CA-Top Secret in CICS Transaction Server 1.1.

Note: This chapter discusses the uses of Unicenter CA-Explore for CICS with CICS Version 2.3 (CICS 2.3) and CICS Transaction Server Version 1.1 (TS 1.1). Unless a distinction is noted, the information applies to both versions.

Defining Internal Security

The security parameters you specify in internal security table members define the following types of privileges:

- **Access to Unicenter CA-Explore for CICS**—You can specify the IDs of users who can access Unicenter CA-Explore for CICS, and define passwords these users must enter to access Unicenter CA-Explore for CICS.
- **Command access privileges**—You can specify which commands Unicenter CA-Explore for CICS users can execute.

The following configuration options must be set to YES for internal security to be enforced:

- SECURE-COMMANDS=
- SECURITY=

In addition, the SECURE-MEMBER= configuration option must be set to the name of the Unicenter CA-Explore for CICS residence member containing the security parameters to be enforced.

Any command secured using the procedures described in this chapter must also be defined in member $CMD.P in the Unicenter CA-Explore for CICS product library using the SECURITY parameter. See the chapter titled "Command Options Overrides" for information about modifying $CMD.P.

Using Internal Security Table Members

Internal security for Unicenter CA-Explore for CICS is determined by the parameters you define in internal security table members in the Unicenter CA-Explore for CICS product library.

You can define user IDs, passwords, and command access privileges by modifying these members. By creating multiple internal security table members, you can have Unicenter CA-Explore for CICS enforce different security for each CICS partition.

The member $SCTY.P is the default internal security table member. This table member can be shared by all CICS partitions.

All partitions for which you do not create a specific internal security table member use the settings specified in $SCTY.P.

You can create separate internal security table members for each partition to enforce different security for each partition. Any partition for which you do not create a separate table member uses the member $SCTY.P.

To create separate table members, take the following steps:

Step	Action
1	Copy and rename $SCTY.P to create a new member in the Unicenter CA-Explore for CICS product library. How you should name the new member depends on whether you have a separate configuration table member for each partition. If you have a separate configuration table member for each partition, give the internal security table member any name. The name must be specified by the SECURE-MEMBER option in the configuration table member for that partition. If you have a single configuration table member that defines options for all partitions, set the SECURE-MEMBER configuration option to *name*?? and name the internal security table member *nameid*. *name* must be the same in both places, and *id* is the ID of the partition to which the internal security table member applies. For example, if SECURE-MEMBER=$SCTY??, then the name of the internal security table member for partition A4 must be $SCTYA4.P
2	Set the internal security parameters for the partition. See the section Modifying Internal Security Table Members for information about modifying these parameters.
3	Save the new member. The new internal security parameters will take effect when Unicenter CA-Explore for CICS is reinitialized.

Sample Internal Security Table Member

The Unicenter CA-Explore for CICS product library member $SCTY.P, shown below, is the default internal security table:

```
*------------------------------------------------------------------------*
*                                                                        *
*                         Unicenter CA-Explore                               *
*                                                                        *
*                          Security Table                                *
*                                                                        *
*   This security table member is only used when running CA-EXPLORE      *
*   for CICS internal security.  The configuration options must be       *
*   as follows to run internal security:                                 *
*                                                                        *
*      SECURE-COMMANDS=YES                                               *
*      SECURE-MODULE=ECDISCTY                                            *
*      SECURITY=YES                                                      *
*      SECURITY-MEMBER=$SCTY                                             *
*                                                                        *
*------------------------------------------------------------------------*
*   Parameter 01 - Type      - USER    - Userid, Password entry          *
*   Parameter 02 - Jobname   - Jobname                                   *
*   Parameter 03 - Userid    - Userid                                    *
*   Parameter 04 - Password  - Password                                  *
*   Parameter 05 - Access    - Access  - Yes, None                       *
*                                                                        *
*------------------------------------------------------------------------*
*TYPE    JOBNAME   USERID    PASSWORD   ACCESS
USER     *         USER0001  PASS0001   Yes
USER     *         USER0002  PASS0002   Yes
USER     *         USER0003  PASS0003   Yes
USER     *         USER0004  PASS0004   None
*------------------------------------------------------------------------*
*   Parameter 01 - Type      - COMMAND - Command authorization entry     *
*   Parameter 02 - Jobname   - Jobname                                   *
*   Parameter 03 - Userid    - Userid                                    *
*   Parameter 04 - Command   - Command name                              *
*   Parameter 05 - Access    - Access  - Yes, None                       *
*                                                                        *
*------------------------------------------------------------------------*
*TYPE    JOBNAME   USERID     COMMAND   ACCESS
COMMAND  *         USER0001   *         Yes
COMMAND  *         USER0002   CONFIG    Yes
COMMAND  *         USER0003   *         Yes
COMMAND  *         USER0003   CONFIG    None
```

Modifying Internal Security Table Members

You can specify parameters to define the following two types of access:

- Access to Unicenter CA-Explore for CICS
- Command access privileges

You can include generic characters in some parameters in internal security members, as explained in the chapter titled "Using Unicenter CA-Explore Performance Management for CICS."

Parameters in which you can use generic characters are identified in the following sections.

When there are two or more contradictory security definitions, the Unicenter CA-Explore for CICS internal security function always enforces the most specific security definition.

For example, the following definitions allow USER0001 to execute all Unicenter CA-Explore for CICS commands except for the CONFIG command, and allow all users except USER0003 to execute the ALTER command:

```
*TYPE    JOBNAME   USERID     COMMAND   ACCESS
COMMAND  *         USER0001   *         Yes
COMMAND  *         USER0001   CONFIG    None
COMMAND  *         *          ALTER     Yes
COMMAND  *         USER0003   ALTER     None
```

Defining Access to Unicenter CA-Explore for CICS

Take the following steps to define users who can access Unicenter CA-Explore for CICS:

Step	Action
1	In the TYPE field, enter **USER**.
2	In the JOBNAME field, enter the jobname of the partition for which you are defining access. The jobname must be specified in the Unicenter CA-Explore for CICS product library member $MIT. You can use generic characters in the JOBNAME field.
3	In the USERID field, specify the ID of the user for whom you are defining access to Unicenter CA-Explore for CICS.
4	In the PASSWORD field, specify the password the user must enter to access Unicenter CA-Explore for CICS.
5	In the ACCESS field, specify one of the following: Yes — Allow the user to access Unicenter CA-Explore for CICS. None — Do not allow the user to access Unicenter CA-Explore for CICS.

Defining Command Access Privileges

Follow the steps below to define Unicenter CA-Explore for CICS command access privileges:

Step	Action
1	In the TYPE field, enter **COMMAND**.
2	In the JOBNAME field, enter the jobname of the partition for which you are defining access. The jobname must be specified in the Unicenter CA-Explore for CICS product library member $MIT. You can include generic characters in the JOBNAME field.
3	In the USERID field, specify the ID of the user for whom you are defining command access. You can include generic characters in the USERID field.
4	In the COMMAND field, specify the command for which you are defining access privileges. You can include generic characters in the COMMAND field.
5	In the ACCESS field, allows the user to specify one of the following: Yes — Execute the command specified in the COMMAND field. None — Do not execute the command specified in the COMMAND field.

Defining External Security via eTrust CA-Top Secret

If you are using *e*Trust CA-Top Secret for CICS 2.3 or TS 1.1, you can move all security definition and maintenance from Unicenter CA-Explore for CICS to *e*Trust CA-Top Secret, including the validation of logons to Unicenter CA-Explore for CICS from outside of CICS.

*e*Trust CA-Top Secret performs the following security functions:

- Validates signon to Unicenter CA-Explore for CICS from external sources such as VTAM, FAQS, and Unicenter CA-Explore for VSE
- Controls the use of the following Unicenter CA-Explore for CICS commands:
  - ALTER
  - CAPTURE
  - CEMT
  - CONFIG
  - DELETEQ
  - FREEZE
  - GENTABLE
  - SECURITY
  - SEGMENT
  - SETLOGON
- Optionally, controls the use of other Unicenter CA-Explore for CICS commands that you identify

To provide security for a Unicenter CA-Explore for CICS command via *e*Trust CA-Top Secret, follow these steps:

Step 1 **Define the CA-Explore/CICS facility.**

The Unicenter CA-Explore for CICS partition functions as a *facility* in *e*Trust CA-Top Secret. The FACILITY definition is used to define specific execution environments for Unicenter CA-Explore for CICS, such as identifying the product as a multi-user partition, and preventing abends due to a single user security violation.

The following example shows the commands required to define the Unicenter CA-Explore for CICS facility. These commands should be added to your TSS PARM file:

```
+------------------------------------------------------------+
*   FACILITY(USERx=NAME=EXPCMAST)                            *
*   FACILITY(EXPCMAST=ID=xx)                                 *
*   FACILITY(EXPCMAST=PGM=pgmname)                           *
*   FACILITY(EXPCMAST=MULTIUSER,MODE=IMPL,NOABEND,RES)       *
+------------------------------------------------------------+
```

Where:

User*x* — Specifies the predefined dummy facility that you will reconfigure for Unicenter CA-Explore for CICS. Replace *x* with a number from 0 to 221.

For values over 99, see the chapter titled "How to Add a New Facility" in the *e*Trust CA-Top Secret *User Guide* for the corresponding two-character alphanumeric code.

EXPCMAST — Is the name you will give to the Unicenter CA-Explore for CICS facility. This is an arbitrary name, and any other name of up to eight characters is valid. If you choose another name, the subsequent examples must be adjusted accordingly.

ID=*x* — Is a one- or two-character alphanumeric value that represents the facility for reporting purposes. This value is predefined in the Facilities Matrix table, and corresponds to the USER*x* definition. As examples, for USER1 use ID=1, for USER99 use ID=99.

For values over 99, see the chapter titled "How to Add a New Facility" in the *e*Trust CA-Top Secret *User Guide* for the corresponding two-character alphanumeric code.

User*x*	Specifies the predefined dummy facility that you will reconfigure for Unicenter CA-Explore for CICS. Replace *x* with a number from 0 to 221. For values over 99, see the chapter titled "How to Add a New Facility" in the *e*Trust CA-Top Secret *User Guide* for the corresponding two-character alphanumeric code.
PGM=*pgmname*	Defines the program name. This will be ECTIGEN if you are running TS 1.1, or ECDIGEN if you are only running CICS 2.3.
MODE=IMPL	Defines the security mode.
MULTIUSER	Identifies the Unicenter CA-Explore for CICS partition as a multi-user address space.
NOABEND	Specifies that the Unicenter CA-Explore for CICS partition does not abend if one user causes a security violation.

Step 2 **Define the CA-Explore/CICS ACID.**

The following TSS CREATE command will create an ACID for the Unicenter CA-Explore for CICS partition and associate this ACID with the facility you created in the previous step:

```
+-------------------------------------------------------------+
*   TSS CREATE(EXPC) NAME('CA-Explore/CICS') FAC(STC,BATCH)- *
*   TYPE(USER) PASS(NOPW) DEPT(deptname) MASTFAC(EXPCMAST)   *
+-------------------------------------------------------------+
```

Where:

EXPC	Is the name you will give to the Unicenter CA-Explore for CICS ACID. This is an arbitrary name, and any other name of up to eight characters is valid. If you choose another name, the subsequent examples must be adjusted accordingly.
NAME	Associates the ACID with a name for further identification.
FAC(STC,BATCH)	Allows access to the facilities BATCH and STC.

TYPE(USER)	EXPC is defined as a USER ACID.
PASS(NOPW)	Indicates that the Unicenter CA-Explore for CICS ACID does not require a password.
DEPT(*deptname*)	Assigns the EXPC ACID to an owning department.
MASTFAC(EXPCMAST)	Identifies the Master facility for the Unicenter CA-Explore for CICS online ACID. This is the facility ID you defined previously.

Once you have defined the ACID, you can add it to the //ID statement in the JCL for your Unicenter CA-Explore for CICS Master partition, as in this example:

```
//ID USER=EXPC
```

Step 3 **Define the Unicenter CA-Explore for CICS resource class.**

Unicenter CA-Explore for CICS commands can be secured using the resource class EXPCCMD. The following command will add the EXPCCMD resource class to the *e*Trust CA-Top Secret Resource Descriptor table:

```
+-------------------------------------------------------------+
*TSS ADD(RDT) RESCLASS(EXPCCMD) RESCODE(xx)-                  *
*    ACLST(READ WRITE)                                       *
+-------------------------------------------------------------+
```

Where:

RESCLASS(EXPCCMD)	Defines the new resource class. This must be EXPCCMD.
RESCODE(*xx*)	Adds the two-digit hexadecimal code in the range of 01 and 3F. Choose a code you have not previously used.
ACLST(READ WRITE)	Defines the available access levels.

Step 4 **Secure Unicenter CA-Explore for CICS resources.**

Once the EXPCCMD resource class has been defined, you can begin to add the resources you wish to protect to your *e*Trust CA-Top Secret database. For example:

```
+-------------------------------------------------------------+
*   TSS ADD(deptname) EXPCCMD(/CONFIG)                        *
*   TSS ADD(deptname) EXPCCMD(CONFIG)                         *
*   TSS ADD(deptname) EXPCCMD(CAPTURE)                        *
+-------------------------------------------------------------+
```

Where:

EXPCCMD(/CONFIG)	Protects the Unicenter CA-Explore for CICS Configuration menu.
EXPCCMD(CONFIG)	Protects the Unicenter CA-Explore for CICS Configuration panel.
EXPCCMD(CAPTURE)	Protects the Unicenter CA-Explore for CICS CAPTURE command.

Step 5 **Grant permissions to access Unicenter CA-Explore for CICS resources.**

Before users can access Unicenter CA-Explore for CICS, they must first be authorized to access the facility you defined earlier. The following command is required for each Unicenter CA-Explore for CICS user:

```
+-------------------------------------------------------------+
*   TSS ADD(username) FAC(EXPCMAST)                           *
+-------------------------------------------------------------+
```

Where:

FAC(EXPCMAST)	Is the name you gave to the Unicenter CA-Explore for CICS facility.

You can then grant resource authorizations to individual users or profiles, as shown in the following example:

```
+-------------------------------------------------------------+
*   TSS PERMIT(user) EXPCCMD(/CONFIG) ACCESS(READ)            *  (1)
*   TSS PERMIT(user) EXPCCMD(CONFIG) ACCESS(READ)             *  (2)
*   TSS PERMIT(user) EXPCCMD(CAPTURE) ACCESS(READ)            *  (3)
+-------------------------------------------------------------+
```

Where:

(1) Allows the user to access the Unicenter CA-Explore for CICS Configuration menu.

(2) Allows the user to access the Unicenter CA-Explore for CICS Configuration panel.

(3) Allows the user to issue the Unicenter CA-Explore for CICS CAPTURE command.

Chapter

23 Partition Monitoring

This chapter explains how to specify which partitions Unicenter CA-Explore for CICS is to monitor in the monitor initialization table (member $MIT of the Unicenter CA-Explore for CICS product library).

Note: This chapter discusses the uses of Unicenter CA-Explore for CICS with CICS Version 2.3 (CICS 2.3) and CICS Transaction Server Version 1.1 (TS 1.1). Unless a distinction is noted, the information applies to both versions.

Using Monitoring Commands

Once you have specified partitions in the monitor initialization table, you can monitor a specific partition online using the following commands, which are described in the chapter titled "Function Commands."

Command	Description
SYSTEM	Displays the SYSTEM panel, from which you can select a partition to monitor.
MONITOR	Selects a specified partition to monitor without terminating other logical monitoring sessions.
SWITCH	Terminates the monitoring session from which the command is issued and switches to a session monitoring the specified partition.
ADDSESS	Starts additional logical sessions in which partitions can be monitored.

MIT Requirements

- There can be only one monitor initialization table member.
- The monitor initialization table must be named $MIT and reside in the Unicenter CA-Explore for CICS product library.

Modifying the Monitor Initialization Table

The dedicated partition in which the Unicenter CA-Explore for CICS online interface and logging programs run is called the master logging partition. Each CICS partition that Unicenter CA-Explore for CICS monitors is referred to as a CICS partition. CICS partitions pass data to the master logging partition, which logs the data to the archive and flashback files.

Follow the steps below to specify the partitions you want Unicenter CA-Explore for CICS to monitor:

Step	Action
1	Access the monitor initialization table, which is contained in the member $MIT.P in the Unicenter CA-Explore for CICS product library. Do **not** change the name of the monitor initialization table.
2	Using the following format, add a line to the MIT that identifies the master logging partition: `master_jobname id master_jobname` Replace the parameters in this line as follows: *master_jobname* — Specify the Unicenter CA-Explore for CICS jobname as it appears on the DOS jobcard. *id* — Specify a two-character partition ID. You can use any characters as long as the ID is unique. Example: The sample MIT on the next page identifies EXPDCICS as the master logging partition with a partition ID of M1. EXPDVTAM is specified as the VTAM application ID with which the online interface is to be accessed.

Step	Action
3	For each CICS partition that you want Unicenter CA-Explore for CICS to monitor, add a line to the MIT using the following format: *cics_jobname id master_jobname* Replace the parameters in this line as follows: *cics_jobname* — Specify the CICS jobname. *id* — Specify a two-character partition ID. You can use any characters as long as the ID is unique. *master_jobname* — Specify the master logging partition Unicenter CA-Explore for CICS jobname to be associated with this CICS partition. Example: The sample MIT below identifies three CICS partitions: CICSPROD, CICSTEST, and CICSICCF, with partition IDs of P1, T1, and I1, respectively. EXPDCICS is specified as the master logging partition to be associated with each of the three CICS partitions.

The following is a sample monitor initialization table:

```
*                    Monitor Initialization Table                          *
*                                                                          *
*   The Monitor Initialization Table member MUST be named $MIT.            *
*                                                                          *
*   Parameter 01 - Jobname   - Jobname associated to a partition           *
*                              Unicenter CA-Explore Master Logging jobname *
*                              CICS jobname                                *
*                                                                          *
*   Parameter 02 - Partitionid  - Unique 2 character partition id          *
*                                                                          *
*   Parameter 03 - Master    - Jobname of Master Logging entry             *
*                              This entry is responsible for logging       *
*                              all data collection for this entry.         *
*                              If this entry is a Master Logging           *
*                              entry, enter the same jobname as in         *
*                              parameter 1.                                *
*                                                                          *
*                                                                          *
*   Parameters 1, 2, and 3 are required.                                   *
*                                                                          *
*--------------------------------------------------------------------------*
EXPDCICS   M1    EXPDCICS      EXPDVTAM
CICSPROD   P1    EXPDCICS
CICSTEST   T1    EXPDCICS
CICSICCF   I1    EXPDCICS
```

Chapter

24 Monitor Exit Interface

This chapter explains the MEI, and the interface macro XMEXPC, which provides the interface to the Unicenter CA-Explore for CICS monitor exit.

Note: This chapter discusses the uses of Unicenter CA-Explore for CICS with CICS Version 2.3 (CICS 2.3) and CICS Transaction Server Version 1.1 (TS 1.1). Unless a distinction is noted, the information applies to both versions.

About the MEI

The Unicenter CA-Explore for CICS Monitor Exit Interface (MEI) lets you customize your applications to pass information to Unicenter CA-Explore for CICS. Adding interface calls to existing packages running in CICS provides more data collection information about the transaction. Information passed to Unicenter CA-Explore for CICS is collected for individual transactions.

The MEI lets you perform the following functions:

- Identify umbrella transaction names.
- Set program usage information.
- Identify the start of any event to be timed.
- Identify the end of any event to be timed.
- Store data in the requested field.

XMEXPC, a macro used as the interface to the monitor exit, is provided with Unicenter CA-Explore for CICS and is described in the remainder of this chapter.

Sample exits for the following applications are supplied on the distribution tape:

The Sample Exit For This Application	Is Found In Member
DATACOMM	DCCTXPR.A
NATURAL	NATCICS.A
SAP	MEISAP*.A
SUPRA/SQL	EXPCEXIT.A

Using the XMEXPC Interface Macro

The XMEXPC macro is provided with Unicenter CA-Explore for CICS. The XMEXPC macro provides an interface to the Unicenter CA-Explore for CICS monitor exit. Add the XMEXPC macro to your existing packages to perform the functions described in the section Functions of the XMEXPC Macro.

The XMEXPC Macro Template

The following template for the XMEXPC macro shows the parameters that can be used with XMEXPC:

```
....+....1....+....2....+....3....+....4....+....5....+....6.
label    XMEXPC FUNC=,
                REQUEST=,
                TRAN=,
                TYPE=,
                PROGRAM=,
                EVENT=,
                RSCE=,
                WORK=,
                REG=14,
                OK=,
                WARNING=,
                ERROR=
```

XMEXPC Macro Parameters

The parameters of the XMEXPC macro have the following functions:

Parameter	Description
Label	Any valid assembler label.
FUNC=	Function of the macro call. Functions are described in the Functions of the XMEXPC Macro section.
REQUEST=	Request code.
TRAN=	Umbrella transaction name.
TYPE=	Umbrella transaction type.
PROGRAM=	Program name.
EVENT=	Event name.
RSCE=	Resource name.
WORK=	Work area. Work area can be reused if multiple MEI calls are being made. An inline work area is generated if you specify WORK=*. Using an inline work area will force the program to be non-reentrant.
REG=	Work register used to initialize the parameter list.
OK=	Branch label if return code equals 0.
WARNING=	Branch label if return code is 4.
ERROR=	Branch label if return code is not equal to 0.

Registers Used by XMEXPC

The XMEXPC macro uses the following registers:

Register	Function
R1	Parameter list
R13	72-byte register save area, provided with CICS command-level programming
R14	Return address
R15	Branch register and return code

Functions of the XMEXPC Macro

The XMEXPC macro has the following functions, which are described further on the following pages:

This Function	Calls The MEI To
UMBRELLA_NAME	Provide the performance collection manager an umbrella transaction name and optionally an umbrella type to associate with the transaction.
PROGRAM_USAGE	Provide the performance collection manager the name of a program that is being used. This function provides the ability to track program usage within other products, such as fourth-generation products.
START_CLOCK	Request the performance collection manager to start the timing of an event or function. After the timed event or function is complete, a STOP_CLOCK function call must be issued. The START-CLOCK function can be nested.
STOP_CLOCK	Request the performance collection manager to stop the timing of an event or function. Each STOP_CLOCK function must be preceded by a START-CLOCK function call.
SET_FIELD	Provide the performance collection manager with data to be stored in the requested field.

UMBRELLA_NAME Function

The following is a template of the XMEXPC macro UMBRELLA_NAME function code. Add this code to a package to provide the Unicenter CA-Explore for CICS performance collection manager an umbrella transaction name and optionally an umbrella type to associate with the transaction.

```
....+....1....+....2....+....3....+....4....+....5....+....6.
label    XMEXPC FUNC=UMBRELLA_NAME,
                TRAN=umbtran,
                TYPE=umbtype,
                WORK=workarea,
                OK=label_ok,
                WARNING=label_warning,
                ERROR=label_error

umbtran  DC    CL8'TRANABCD'
umbtype  DC    CL8'TYPETEST'
workarea DC    XL32'00'
```

Parameter Descriptions

Parameter	Description	Required?
TRAN=	Replace *umbtran* with a field containing an eight-character umbrella transaction name.	Yes
TYPE=	Replace *umbtype* with a field containing an eight-character umbrella transaction type.	No
WORK=	Replace *workarea* with the name of the work area to be used. Specify 32 bytes, full-word aligned. If you specify WORK=*, an inline work area is generated. Using an inline work area will force the program to be non-reentrant.	Yes
OK=	Replace *label_ok* with the branch label to be used if the return code equals 0.	No
WARNING=	Replace *label_warning* with the branch label to be used if the return code equals 4.	No
ERROR=	Replace *label_error* with the branch label to be used if the return code is not equal to 0.	No

PROGRAM_USAGE Function

The following is a template of the XMEXPC macro PROGRAM_USAGE function code. Add this code to a package to provide the Unicenter CA-Explore for CICS performance collection manager the name of a program that is being used. This function provides the ability to track program usage within other products such as fourth-generation products.

```
....+....1....+....2....+....3....+....4....+....5....+....6.
label    XMEXPC FUNC=PROGRAM_USAGE,
                PROGRAM=pgmname,
                WORK=workarea,
                OK=label_ok,
                WARNING=label_warning,
                ERROR=label_error
pgmname  DC     CL8'PROGABCD'
workarea DC     XL32'00'
```

Parameter Descriptions

Parameter	Description	Required?
PROGRAM=	Replace *pgmname* with a field containing an eight-character program name.	Yes
WORK=	Replace *workarea* with the name of the work area to be used. Specify 32 bytes, full-word aligned. If you specify WORK=*, an inline work area is generated. Using an inline work area will force the program to be non-reentrant.	Yes
OK=	Replace *label_ok* with the branch label to be used if the return code equals 0.	No
WARNING=	Replace *label_warning* with the branch label to be used if the return code equals 4.	No
ERROR=	Replace *label_error* with the branch label to be used if the return code is not equal to 0.	No

START_CLOCK Function

The following is a template of the XMEXPC macro START_CLOCK function code. Add this code to a package to request that the Unicenter CA-Explore for CICS performance collection manager start the timing of an event or function. After the timed event or function is complete, a STOP_CLOCK function call must be issued.

```
....+....1....+....2....+....3....+....4....+....5....+....6.
label    XMEXPC FUNC=START_CLOCK,
                REQUEST=reqcode,
                EVENT=event,
                WORK=workarea,
                OK=label_ok,
                WARNING=label_warning,
                ERROR=label_error
reqcode  DC    F'1'
event    DC    CL8'EVENT001'
workarea DC    XL32'00'
```

Parameter Descriptions

Parameter	Description	Required?
REQUEST=	Replace *reqcode* with one of the request codes described below.	No
EVENT=	Replace *event* with a field containing an eight-character event name.	Yes
WORK=	Replace *workarea* with the name of the work area to be used. Specify 32 bytes, full-word aligned. If you specify WORK=*, an inline work area is generated. Using an inline work area will force the program to be non-reentrant.	Yes
OK=	Replace *label_ok* with the branch label to be used if the return code equals 0.	No
WARNING=	Replace *label_warning* with the branch label to be used if the return code equals 4.	No
ERROR=	Replace *label_error* with the branch label to be used if the return code is not equal to 0.	No

Request Codes

Use one of the following request codes with the START_CLOCK macro code:

Fullword Code	Symbolic Code	Description
=F'1'	UPDATE	Increment the UPDATE counter.
=F'2'	READ	Increment the READ counter.
=F'3'	READUPD	Increment the READUPD counter.
=F'4'	ADD	Increment the ADD counter.
=F'5'	DELETE	Increment the DELETE counter.
=F'6'	BROWSE	Increment the BROWSE counter.

STOP_CLOCK Function

The following is a template of the XMEXPC macro STOP_CLOCK function code. Add this code to a package to request that the Unicenter CA-Explore for CICS performance collection manager stop the timing of an event or function. The STOP_CLOCK function must be preceded by a START_CLOCK function call.

```
....+....1....+....2....+....3....+....4....+....5....+....6.
label    XMEXPC FUNC=STOP_CLOCK,
                EVENT=event,
                WORK=workarea,
                OK=label_ok,
                WARNING=label_warning,
                ERROR=label_error
event    DC    CL8'EVENT001'
workarea DC    XL32'00'
```

Parameter Descriptions

Parameter	Description	Required?
EVENT=	Replace *event* with a field containing an eight-character event name. The event name must be the same as the event name used in the START_CLOCK function call corresponding to this STOP_CLOCK function call.	Yes
WORK=	Replace *workarea* with the name of the work area to be used. Specify 32 bytes, full-word aligned. If you specify WORK=*, an inline work area is generated. Using an inline work area will force the program to be non-reentrant.	Yes
OK=	Replace *label_ok* with the branch label to be used if the return code equals 0.	No
WARNING=	Replace *label_warning* with the branch label to be used if the return code equals 4.	No
ERROR=	Replace *label_error* with the branch label to be used if the return code is not equal to 0.	No

SET_FIELD Function

The following is a template of the XMEXPC macro SET_FIELD function code. Add this code to a package to provide the Unicenter CA-Explore for CICS performance collection manager with data to be stored in the specified field.

```
....+....1....+....2....+....3....+....4....+....5....+....6.
label    XMEXPC FUNC=SET_FIELD,
                REQUEST=setfreq,
                RSCE=field,
                WORK=workarea,
                OK=label_ok,
                WARNING=label_warning,
                ERROR=label_error
setfreq  DC    F'1'
field    DC    CL8'ABCDEFGH'
workarea DC    XL32'00'
```

Parameter Descriptions

Parameter	Description	Required?
REQUEST=	Replace *setfreq* with one of the request codes described below.	Yes
RSCE=	Replace *field* with a resource name. See the description of request codes below for the field length.	Yes
WORK=	Replace *workarea* with the name of the work area to be used. Specify 32 bytes, full-word aligned. If you specify WORK=*, an inline work area is generated. Using an inline work area will force the program to be non-reentrant.	Yes
OK=	Replace *label_ok* with the branch label to be used if the return code equals 0.	No
WARNING=	Replace *label_warning* with the branch label to be used if the return code equals 4.	No
ERROR=	Replace *label_error* with the branch label to be used if the return code is not equal to 0.	No

Request Codes

Use one of the following request codes with the SET_FIELD macro code:

Fullword Code	Symbolic Code	Field Length	Description
=F'1'	USERID	8	User ID field
=F'2'	OPID	3	Operator ID field
=F'3'	UMBTRAN	8	Umbrella transaction name
=F'4'	TERMINAL	4	CICS terminal name
=F'5'	VTAMLU	8	VTAM LU name
=F'6'	UMBTYPE	8	Umbrella transaction type

Sample Monitor Exit Interface

The following is a sample XMEXPC macro interface call. This sample macro is provided in member EXPDMEI.A in the Unicenter CA-Explore for CICS product library.

```
....+....1....+....2....+....3....+....4....+....5....+....6....+....7....+....8
*ASM XOPTS(SP)
         TITLE 'UNICENTER CA-EXPLORE - Umbrella example program'
DFHEISTG DSECT
EXPCWORK DS    XL32
         EJECT
EXAMPLE  DFHEIENT CODEREG=R11,EIBREG=R5
*================================================================*
*        Set umbrella name and type using UMBRELLA_NAME          *
*================================================================*
         XMEXPC FUNC=UMBRELLA_NAME,TRAN=TRANNAME,TYPE=TRANTYPE,        X
               WORK=EXPCWORK
*================================================================*
*        Set CICS terminal name                                  *
*================================================================*
         XMEXPC FUNC=SET_FIELD,REQUEST=TERMINAL,RSCE=TERMNAME,         X
               WORK=EXPCWORK
*================================================================*
*        Set program usage                                       *
*================================================================*
         XMEXPC FUNC=PROGRAM_USAGE,PROGRAM=PROGNAME,                   X
               WORK=EXPCWORK
*================================================================*
*        Time the event of writing a temp storage queue          *
*================================================================*
         XMEXPC FUNC=START_CLOCK,                                      X
               REQUEST=ADD,                                            X
               EVENT=EVENT,                                            X
               WORK=EXPCWORK
         SPACE ,
         EXEC CICS WRITEQ TS QUEUE(QNAME) FROM(TEMPNAME) LENGTH(8)
               ITEM(1) MAIN
         SPACE ,
         XMEXPC FUNC=STOP_CLOCK,                                       X
               EVENT=EVENT,                                            X
               WORK=EXPCWORK
         SPACE ,
         EXEC CICS RETURN
*================================================================*
*                                                                *
*================================================================*
         DS    0D
TRANNAME DC    CL8'TRAN0001'
TRANTYPE DC    CL8'EXPLORE '
TERMNAME DC    CL4'TRM1'
PROGNAME DC    CL8'PROG0001'
QNAME    DC    CL8'QNAME001'
EVENT    DC    CL8'ADDTSQ  '
TEMPNAME DC    CL8'*------*'
         END
```

Appendix

A

Variables

You can use the variables described in this appendix to:

- Define data to be collected and displayed on the VSTATUS panel.
- Define thresholds.
- Define plot displays.
- Specify data to be displayed on historical flashback panels.
- Display status information on the XMONITOR Detail panel.

This appendix describes the variables you can use to tailor Unicenter CA-Explore for CICS for your system.

Note: This appendix discusses the uses of Unicenter CA-Explore for CICS with CICS Version 2.3 (CICS 2.3) and CICS Transaction Server Version 1.1 (TS 1.1). Unless a distinction is noted, the information applies to both versions.

Looking at Variable Types

Type	Description
Count	Average number of occurrences per interval
Time	Average time per interval
Count	Number of occurrences per interval you have defined, or number of occurrences for the entire period since monitoring started
Rate	Count per second
Percent	Current percentage

System Variables

System variables can be used as system thresholds. The following table describes the Unicenter CA-Explore for CICS system variables. **Yes** in the **Unicenter CA-Explore for VSE Required?** column indicates the variable is valid only when Unicenter CA-Explore for VSE is also running.

Variable	Type	Description	Unicenter CA-Explore for VSE Required?
AUXTCNT v	Count	Unicenter CA-Explore for CICS auxiliary trace count	No
CDSA	Count	CICS DSA CURRENT PAGES USED	No
CDSA%	Percent	CICS DSA CURRENT PERCENT USED	No
CPU%	Percent	System - CPU percent busy	Yes
CPU%JOB	Percent	Percentage of CPU used by the job	No
CPURATE	Time	CPU rate per second	No
DASDIO	Time	Average DASD I/O service time	Yes
DISKIO	Count	Partition total disk I/O	Yes
DSA-01	Count	Current pages used in DSA subpool 01	No
DSA-02	Count	Current pages used in DSA subpool 02	No
DSA-04	Count	Current pages used in DSA subpool 04	No
DSA-05	Count	Current pages used in DSA subpool 05	No
DSA-06	Count	Current Pages used in DSA subpool 06	No
DSA-07	Count	Current pages used in DSA subpool 07	No
DSA-08	Count	Current pages used in DSA subpool 08	No

Variable	Type	Description	Unicenter CA-Explore for VSE Required?
DSA%	Percent	Dynamic storage area percent used	No
DSA24%	Percent	Dynamic storage area in 24 byte area percent used. CICS TS only	No
DSA31%	Percent	Dynamic storage area in 31 byte area percent used. CICS TS only	No
DSACOMP	Count	Number of dynamic storage area compressions	No Valid only if using CICS 2.3.
DSAFULL	Percent	Percentage of dynamic storage area used	No
ECDSA	Count	EXTENDED CDSA CURRENT PAGES USED	No
ECDSA%	Percent	EXTENDED CDSA CURRENT PERCENT USED	No
ERDSA	Count	EXTENDED RDSA CURRENT PAGES USED	No
ERDSA%	Percent	EXTENDED RDSA CURRENT PERCENT USED	No
ESDSA	Count	EXTENDED SDSA CURRENT PAGES USED	No
ESDSA%	Percent	EXTENDED SDSA CURRENT PERCENT USED	No
EUDSA	Count	EXTENDED UDSA CURRENT PAGES USED	No
EUDSA%	Percent	EXTENDED UDSA CURRENT PERCENT USED	No

Variable	Type	Description	Unicenter CA-Explore for VSE Required?
EXPCARC	Percent	Percentage of the Unicenter CA-Explore for CICS archive file that is full	No
GETVIS	Count	GETVIS available, in kilobytes	No
GETVIS24	Count	GETVIS available below the 16M line, in kilobytes	No
GETV24%	Percent	Percent of 24-bit GETVIS in use	No
GETVIS31	Count	GETVIS available above the 16M line, in kilobytes	No
GETV31%	Percent	Percent of 31-bit GETVIS in use	No
IORATE	Rate	I/O rate per second	No
LTAFREE	Count	Number of partition LTA frees	Yes
LTALOAD	Count	Number of partition LTA loads	Yes
MXTTASK	Count	Number of times at CICS MAX TASK condition	No
OTHERIO	Count	Total number of unclassified I/Os for the partition	Yes
PAGEIN	Count	Partition page-in count	Yes
PAGEOUT	Count	Partition page-out count	Yes
PAGFAULT	Count	Number of page faults for the partition	Yes
PSUBPOOL	Count	Partition GETVIS for the subpool, in kilobytes	No
RDSA	Count	READ-ONLY DSA CURRENT PAGES USED	No
RDSA%	Percent	READ-ONLY DSA CURRENT PERCENT USED	No

Variable	Type	Description	Unicenter CA-Explore for VSE Required?
SDSA	Count	SHARED DSA CURRENT PAGES USED	No
SDSA%	Percent	SHARED DSA CURRENT PERCENT USED	No
SOS	Count	Number of times at short-on-storage condition	No
SPURGE	Count	Number of times at stall purge condition	No
STORCUSH	Count	Number of times storage cushion released	No
TAPEIO	Count	Number of tape I/Os for the partition	Yes
TRANCPU	Time	Average CPU time of a transaction	No
TRANDLI	Time	Average DL/I time of a transaction	No
TRANEXPC	Time	Average EXPC time of a transaction	No
TRANFILE	Time	Average file I/O time of a transaction	No
TRANLIFE	Time	Average lifetime of a transaction	No
TRANPROG	Time	Average program time of a transaction	No
TRANRATE	Rate	Number of transactions per second	No
TRANRSCE	Time	Average resource time of a transaction	No
TRANSOS	Time	Average storage suspend time of a transaction	No
TRANSUSP	Time	Average suspend time of a transaction	No

Variable	Type	Description	Unicenter CA-Explore for VSE Required?
TRANTERM	Time	Average terminal I/O time of a transaction	No
TRANWAIT	Time	Average wait time of a transaction	No
TRANWTR	Time	Average waiting-to-run time of a transaction	No
TSUMCNT	Count	Transaction summary - count	No
TSUMCPU	Time	Transaction summary - CPUTIME	No
TSUMFILE	Time	Transaction summary - file time	No
TSUMLIFE	Time	Transaction summary - lifetime	No
TSUMRATE	Count	Transaction summary - rate per minute	No
TSUMRESP	Time	Transaction summary - response time	No
TSUMWTR	Time	Transaction summary - wait-to-run time	No
UDSA	Count	USER DSA CURRENT PAGES USED	No
UDSA%	Percent	USER DSA CURRENT PERCENT USED	No
VMPFAULT	Count	Number of VM pseudo page faults for the partition	Yes
VSAMFILE	Count	VSAM ACB count	No
VSAMLSR	Count	VSAM OPEN LSR ACB count	No
VSAMOPEN	Count	VSAM OPEN ACB count	No
VSECPUT	Time	System - CPU timer interval duration	Yes
VSECPUW	Time	System - CPU wait time	Yes

Variable	Type	Description	Unicenter CA-Explore for VSE Required?
VSEDISK	Count	System - Disk I/Os issued	Yes
VSEPAGF	Count	System - Page faults	Yes
VSEPAGIN	Count	System - Page-in SIOs	Yes
VSEPAGO	Count	System - Page-out SIOs	Yes
VSERPAVL	Count	System - Real page frames available	Yes
VSERPUSD	Count	System - Real pages used	Yes
VSESIO	Count	System - Total SIOs issued	Yes
VSESVC	Count	System - SVCs issued	Yes
VSEVMPF	Count	VM pseudo page faults	Yes

Transaction Variables

Transaction variables can be used as end-of-task thresholds or as dynamic thresholds. The following table describes the Unicenter CA-Explore for CICS transaction variables:

Variable	Type	Description
ABENDS	Count	Abend count
ATTACH	Count	Attaches
BMSWAIT	Count	BMS waits
BYTESR	Count	Bytes read
BYTESW	Count	Bytes written
CICSWAIT	Count	CICS waits
CMDLERRS	Count	Command level request errors
CMDLREQS	Count	Command level requests
CMDLTIME	Time	Command level request time
CMDUSE	Count	Command level use
CPUTIME	Time	CPU time

Variable	Type	Description
DCPWAIT	Count	DCP waits
DCTUSE	Count	Transient data used
DELAY	Time	ARTM delay time
DEQUEUE	Count	Dequeues
DETACH	Count	Detaches
DISPATCH	Count	Dispatches
DLIDEL	Count	DL/I DELETE requests
DLIGHN	Count	DL/I GET HOLD NEXT requests
DLIGHNP	Count	CL/I GET HOLD NEXT in parent requests
DLIGHU	Count	DL/I GET HOLD FOR UPDATE requests
DLIGN	Count	DL/I GET NEXT requests
DLIGNP	Count	DL/I GET NEXT in parent requests
DLIGU	Count	DL/I GET unique requests
DLIIONS	Count	DL/I I/O requests not satisfied
DLIISRT	Count	DL/I INSERT requests
DLIITIME	Time	DL/I I/O time
DLIREPL	Count	DL/I REPLACE requests
DLIREQS	Count	DL/I requests
DLIRTIME	Time	DL/I request time
DLITIME	Time	DL/I time
DLIUSE	Count	DL/I files used
DLIWAIT	Count	DL/I waits
EIPWAIT	Count	EIP waits
ENQUEUE	Count	Enqueues
EXPCTIME	Time	Unicenter CA-Explore for CICS collection time
FCPWAIT	Count	FCP waits
FILEADDS	Count	FILE INSERT requests
FILEAMCT	Count	File access method requests
FILEBRWS	Count	FILE BROWSE requests
FILEBUFW	Time	File buffer wait time

Variable	Type	Description
FILEDEL	Count	File delete requests
FILEDTBL	Count	File data table requests
FILEIOTM	Time	File I/O time
FILEPSTR	Count	File waits on pseudo strings
FILEPSUW	Time	File pseudo string wait time
FILEREAD	Count	File read requests
FILEREQS	Count	File requests
FILERUPD	Count	File read for update requests
FILESPLT	Count	File CI/CA splits
FILESSTR	Count	File waits on shared strings
FILESTRW	Time	File string wait time
FILETIME	Time	File request time
FILEUPD	Count	File write requests
FILEUSE	Count	Files used
FILEWBUF	Count	File waits on buffers
FILEWCIS	Count	File waits on CI/CA splits
FILEWEXC	Count	File waits on exclusive control
FILEWSTR	Count	File waits on strings
FREEMAIN	Count	FREEMAINs
GETMAIN	Count	GETMAINs
ICPWAIT	Count	ICP waits
IOTIME	Time	I/O time
IRCREADS	Count	Inter-region communications reads
IRCREQS	Count	Inter-region communications requests
IRCTIME	Time	Inter-region communications request time
IRCWRITE	Count	Inter-region communications writes
ISCREQS	Count	Intersystem communications requests
ISCTIME	Time	Intersystem communications request time
JCPWAIT	Count	JCP waits
JRNLREQS	Count	Journal requests

Variable	Type	Description
JRNLTIME	Time	Journal request time
JRNLUSE	Count	Journals used
LIFETIME	Time	Transaction lifetime
MONXTIME	Time	Unicenter CA-Explore for CICS monitor exit time
MROWAIT	Count	MRO waits
MULTWAIT	Count	Multiple waits
OPERPRI	Count	Operator priority
PCPWAIT	Count	PCP waits
PGMTIME	Time	Program time
PRIORITY	Count	Task priority
PROGFTCH	Count	Program fetches
PROGREQS	Count	Program requests
PROGTIME	Time	Program request time
PROGUSE	Count	Programs used
READS	Count	Reads
RESPHIGH	Time	Maximum terminal response time
RESPTIME	Time	Average terminal response time
RESPTOT	Time	Total terminal response time
RESUME	Count	Resumes
RSCEREQS	Count	Exit resource requests
RSCERTIM	Time	Exit resource request time
RSCETIME	Time	Resource time
RSCEUSE	Count	Exit resources used
SCPWAIT	Count	SCP waits
SHRCOUNT	Count	Share count
SOSWAIT	Count	Short-on-storage waits
SQLERRS	Count	Number of DB2 errors
SQLLHELD	Count	Number of DB2 links allocated
SQLLWAIT	Count	Number of DB2 wait for links

Variable	Type	Description
SQLREQS	Count	Number of DB2 requests
STGCURR	Count	Current storage usage
STGHCUR	Count	High water mark of current storage
STGHIGH	Count	High water mark of storage requests
STGVIOL	Count	Storage violations
STORAGE	Count	Total bytes of storage
STORSUSP	Time	Storage suspend time
STORUSE	Count	Storage types used
SUSPEND	Count	Suspends
SUSPTIME	Time	Suspend time
SYSWAIT	Count	System waits
TARGET	Time	ARTM target time
TCPWAIT	Count	TCP waits
TDATREAD	Count	Transient data read
TDATREQS	Count	Transient data requests
TDATTIME	Time	Transient data request time
TDATWRIT	Count	Transient data writes
TDPWAIT	Count	TDP waits
TEMPIWCT	Count	Temporary storage I/O wait count
TEMPIWTM	Time	Temporary storage I/O wait time
TEMPPUTA	Count	Temporary storage PUT AUX requests
TEMPPUTM	Count	Temporary storage PUT MAIN requests
TEMPPUTQ	Count	Temporary storage PUTQ requests
TEMPREAD	Count	Temporary storage READ requests
TEMPREQS	Count	Temporary storage requests
TEMPRTIM	Time	Temporary storage request time
TEMPRTOT	Count	Temporary storage total bytes read
TEMPSTIM	Time	Temporary storage suspend time
TEMPSUCT	Count	Temporary storage suspend count
TEMPUSE	Count	Temporary storage used

Variable	Type	Description
TEMPWTOT	Count	Temporary storage total bytes written
TERMPRI	Count	Terminal priority
TERMTIME	Time	Terminal I/O time
THRSUSE	Count	Thresholds triggered
TMGRREQS	Count	Table manager request time
TMSGTIME	Time	Table manager request time
TRANPRI	Count	Transaction priority
TRANUSE	Count	Number of transactions
TRPWAIT	Count	TRP waits
TSPWAIT	Count	TSP waits
UEXITUSE	Count	User exits used
USERREQS	Count	User exit requests
USERTIME	Time	User exit request time
WAITREQS	Count	Extended wait requests
WAITRTIM	Time	Extended wait request time
WAITS	Count	Single waits
WAITTIME	Time	Wait time
WRITES	Count	Writes
WTRTIME	Time	Waiting-to-run time
WTSWAIT	Count	Write waits
XSECREQS	Count	External security requests
XSECTIME	Time	External security request time
XSECUSE	Count	External security calls

Appendix

B Commands

This appendix provides an alphabetical reference of all Unicenter CA-Explore for CICS commands.

Note: This appendix discusses the uses of Unicenter CA-Explore for CICS with CICS Version 2.3 (CICS 2.3) and CICS Transaction Server Version 1.1 (TS 1.1). Unless a distinction is noted, the information applies to both versions.

Table of Commands

The following table lists all commands that can be issued to Unicenter CA-Explore for CICS. (Commands are also shown on the COMMANDS panel.)

Command	Default Submenu or Subsystem	Function
ABENDs	/PROBLEM	Displays Program Check Abend Trace Table information.
ACTIVITY	/STATUS	Displays transaction activity and response time.
ADDSESS	FUNCTION	Adds a logical session.
AFCB	/DISPLAY	Displays the authorized function control block.
AID	/TABLES	Displays authorized initiate descriptor chain.
ALIGN	FUNCTION	Alters default alignment for virtual storage displays.
ALTER	FUNCTION	Activates or deactivates full panel ALTER mode.
ANALysis	/STATUS	Displays a summary of the time spent by CICS on various resources.

Command	Default Submenu or Subsystem	Function
ARTM	/CONFIG	Displays automated response time management information.
ATTRIB	/CONFIG	Displays user-defined screen attributes.
AUTO	FUNCTION	Activates or deactivates automatic redisplay mode.
AUTOTIME	FUNCTION	Specifies the number of seconds to delay for panel redisplay.
AUXstor	/STORAGE	Displays temporary storage auxiliary statistics.
BWZ	FUNCTION	Controls whether data fields that contain zeroes are displayed as blanks.
CAPS	FUNCTION	Turns uppercase translation on or off.
CAPTURE	FUNCTION	Activates or deactivates the capture facility.
CEMT	FUNCTION	Sends CEMT commands to be processed.
CLRSTACK	FUNCTION	Clears the display stack.
CMDList	/CONFIG	Creates, displays, deletes, or updates command lists.
CMDMENU	FUNCTION	Assigns a command to appear on the menu you specify.
COLOr	FUNCTION	Turns color and extended highlighting modes on or off.
COMMANDs	/HELP	Lists commands available in Unicenter CA-Explore for CICS.
COMMAREA	/TABLES	Displays information about CICS communication areas.
CONFig	/CONFIG	Displays and updates Unicenter CA-Explore for CICS configuration options.
CONSole	/VSE	Displays the VSE system console.
CSA	/DISPLAY	Displays the CICS common system area.
CWA	/DISPLAY	Displays the CICS common work area.

Command	Default Submenu or Subsystem	Function
DATATbl	/FILES	Displays data table statistics.
DCEMT	/UTILITY	Displays CEMT responses.
DCMPROD	/CAPROD	Displays CA's Data Center Management products.
DCT	/DISPLAY	Sets the current display address to the specified DCT entry.
DELETEQ	FUNCTION	Deletes a temporary storage queue.
DGENTBL	/UTILITY	Displays GENTABLE responses (CICS 2.3 only).
DISPCHAR	/CA-EXPLORE	Displays character sets.
DISplay	/DISPLAY	Displays the contents of virtual storage at a specified address.
DLIBuff	/DBASE	Displays DL/I buffers.
DLIDBD	/DBASE	Displays DL/I DBD directory entries.
DLIPSB	/DBASE	Displays DL/I PSB directory entries.
DLISTATs	/DBASE	Displays DL/I resource statistics.
DLITasks	/DBASE	Displays DL/I tasks.
DSA	/STORAGE	Displays information about the dynamic storage areas.
DSAPAGE	/DISPLAY	Sets the current display address to top of specified DSA page.
DYNClass	/VSE	Displays VSE dynamic class characteristics.
EPB	/TABLES	Displays exit program block information.
EQUate	FUNCTION	Defines a symbol that can be entered on a storage display panel to display storage at the address defined for the symbol.
EVSE	/CAPROD	Accesses Unicenter CA-Explore for VSE.
EXIT	FUNCTION	Exits Unicenter CA-Explore for CICS and returns to your home environment.

Command	Default Submenu or Subsystem	Function
EXPCMODs	/CA-EXPLORE	Lists all Unicenter CA-Explore for CICS modules.
FAQE	/STORAGE	Displays free area queue element information (CICS 2.3 only).
FCT	/DISPLAY	Sets the current display address to the specified FCT entry.
FILES	/FILES	Displays File Control Table entries.
FLSHBack	/HISTORY	Displays flashback information on transactions.
FREEZE	FUNCTION	Temporarily stops the execution of CICS.
GENTABLE	FUNCTION	Dynamically allocates CICS table entries (CICS 2.3 only).
GETVIS24	/STORAGE	Displays a map of allocated and unallocated GETVIS storage below the 16M line.
GETVIS31	/STORAGE	Displays a map of allocated and unallocated GETVIS storage above the 16M line.
GLOBAL	/PROBLEM	Displays global system information.
HARDCopy	FUNCTION	Prints hard copies of panels.
HELP	None	Displays help information.
HILight	FUNCTION	Turns the extended highlighting mode on or off.
ICE	/TABLES	Displays the interval control element chain.
IDUMP	FUNCTION	Dumps storage information you specify.
JOBs	/VSE	Displays job partitions.
JOURNAL	/TABLES	Displays journal statistics.
LAST	/DISPLAY	Sets the current address to the last address displayed.

Command	Default Submenu or Subsystem	Function
LISTMAPs	/STORAGE	Displays a list of maps loaded by Unicenter CA-Explore for CICS at initialization.
LOADLIST	/VSE	Displays a list of loaded modules.
LOGON	None	Allows you to log on to Unicenter CA-Explore for CICS.
LSRBuff	/FILES	Displays information about LSR buffer usage.
LSRPool	/FILES	Displays the LSR pool performance ratings.
LSRSTats	/FILES	Displays LSR pool resource statistics.
LSRSTRng	/FILES	Displays information about LSR string usage.
MAP	/STORAGE	Displays information about control block mapping.
MAP1	/DISPLAY	Displays the CICS page allocation map MAP1 (CICS 2.3 only).
MAP2	/DISPLAY	Displays the CICS page allocation map MAP2 (CICS 2.3 only).
MAPUTIL	FUNCTION	Dynamically loads or deletes map definitions.
MAPVse	/STORAGE	Displays VSE region map information.
MESSAGEs	/HELP	Displays Unicenter CA-Explore for CICS terminal messages.
MIXED	FUNCTION	Turns uppercase translation off, allowing mixed case displays.
MONITOR	None	Monitor a Unicenter CA-Explore for CICS region.
MONO	FUNCTION	Sets display mode to monochrome.
MRO	/TABLES	Displays multi-region operation information.
MSCROLL	FUNCTION	Alters the default memory scroll value.

Command	Default Submenu or Subsystem	Function
MXT	/STATUS	Displays maximum task values.
OPFLA	/DISPLAY	Displays the CICS optional features list.
OPTIONS	/CONFIG	Lists all options and their settings.
PAM	/DISPLAY	Displays the CICS page allocation map (CICS 2.3 only).
PCT	/DISPLAY	Sets the current display address to the specified PCT entry (CICS 2.3 only).
PERFDATA	/EXPLORE	Displays performance data collection information.
PFKEYS	FUNCTION	Turns F-key display lines on or off.
PFT	/DISPLAY	Sets the current display address to the specified profile entry.
PLOT	/HISTORY	Displays multiple comparison plots.
PLOTBAR	FUNCTION	Sets the default plot bar style.
PLOTList	/CONFIG	Displays a menu of all predefined plot lists.
POP	FUNCTION	Pops top display address from the stack.
PPT	/DISPLAY	Sets the current display address to the specified PPT entry.
PPTPROG	/DISPLAY	Displays the specified CICS PPT program.
PRINT	FUNCTION	Prints panels.
PRODUCTs	/VSE	Displays a list of products defined to the system.
PROFILE	/CONFIG	Displays user profile information.
PROGrams	/TABLES	Displays Program Processing Table information.
PURGEAID	FUNCTION	Purges Authorized Initiate Descriptor (AID).
PURGEICE	FUNCTION	Purges Interval Control Element (ICE).
PUSH	FUNCTION	Pushes current display address onto the stack.

Command	Default Submenu or Subsystem	Function
QEAS	/PROBLEM	Displays a resource enqueued by a task.
REPLAY	/HISTORY	Redisplays captured panels.
RESPTime	/STATUS	Displays terminal response time information.
RESUME	FUNCTION	Issues a resume for a CICS transaction (CICS 2.3 only).
REVIew	/HISTORY	Displays a daily summary of CICS statistics.
SATISFY	FUNCTION	Notifies FAQS/ASO or FAQS/PCS that conditions have been met to satisfy an event.
SCALE	FUNCTION	Turns display of the scale line on or off.
SCREEN	FUNCTION	Sets panel size.
SCROLL	FUNCTION	Sets the default scrolling value.
SEGMENT	FUNCTION	Segments output to the SYSLST file.
SESSions	/EXPLORE	Creates a Unicenter CA-Explore for CICS terminal session.
SIT	/DISPLAY	Displays the System Initialization Table.
SNAP	FUNCTION	Snap dumps bytes of virtual storage.
SORT	FUNCTION	Sorts the data being displayed.
SQLLINKs	/DBASE	Displays DB2 link information.
STACK	/DISPLAY	Displays addresses on the stack.
SUBPools	/STORAGE	Displays information about partition GETVIS subpools.
SUBTasks	/VSE	Displays subtask information by TCB.
SUSPEND	FUNCTION	Suspends a CICS transaction (CICS 2.3 only).
SVALIST	/VSE	Displays a list of the modules loaded in the SVA.
SWITCH	FUNCTION	Selects a Unicenter CA-Explore for CICS region for monitoring.

Command	Default Submenu or Subsystem	Function
SYMBOLs	/DISPLAY	Displays the defined symbols and their addresses and regions.
SYSDATA	/HISTORY	Displays summary system information or detailed information on a specific jobname.
SYSLST	FUNCTION	Writes text to the SYSLST file.
SYSTEM	/STATUS	Displays information on regions defined in the monitor information table.
TABLEs	/STORAGE	Displays the number of entries in each CICS table and the amount of storage allocated for each table
TASks	/STATUS	Displays information about active and suspended transactions.
TCT	/DISPLAY	Displays the Terminal Control Table.
TCTSE	/DISPLAY	Sets the current display address to the specified system entry in the TCT.
TCTTE	/DISPLAY	Sets the current display address to the specified terminal entry in the TCT.
TDATA	/TABLES	Displays transient dataset activity.
TEMPstor	/STORAGE	Displays temporary storage statistics.
TERMs	/TABLES	Displays information from the Terminal Control Table.
THREShol	/CONFIG	Displays threshold information.
TIDlist	/VSE	Displays information about VSE task IDs.
TMDIR	/TABLES	Displays table manager directory entry information.
TOPICs	/HELP	Displays Unicenter CA-Explore for CICS help topics.
TRACEHdr	/DISPLAY	Displays the CICS Trace Table header (CICS 2.3 only).
TRANKILL	FUNCTION	Cancels a CICS transaction.

Command	Default Submenu or Subsystem	Function
TRANs	/TABLES	Displays information from the Program Control Table.
TRTable	/PROBLEM	Displays the previous 512 CICS trace entries in CICS 2.3 or the latest trace buffers in TS 1.1.
TSQStats	/STORAGE	Displays temporary storage queue statistics.
TSQueues	/STORAGE	Displays temporary storage queues.
TSUMmary	/STATUS	Displays transaction summary information.
UMBRella	/CONFIG	Displays the umbrella transactions.
USERS	/CA-EXPLORE	Displays information about Unicenter CA-Explore for CICS users.
VARiable	/HELP	Displays information about Unicenter CA-Explore for CICS variables.
VSAM	/FILES	Displays VSAM performance statistics.
VSAMSTAT	/FILES	Displays VSAM interval statistics.
VSE	FUNCTION	Issues VSE console commands.
VSTATus	/STATUS	Displays real-time variable values.
XMONitor	/PROBLEM	Displays a summary of the condition of all systems.

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