zCICS

Supplied Transactions
v11

Automated Software Tools Corporation.

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1) CEBR

Browse Temporary Storage Queues.

A new implementation of this transaction combines the old CEBR with CEMT I TSQ.

The Temporary Storage queues are continuously updated/deleted, and therefore show only the state at the moment of request.

A fixed state environment for testing CEBR may be obtained by running the test transaction BED9.

Input formats:
CEBR   Invokes the queue names display.
CEBR qname   qname is case sensitive.
                        If found, goes to the data display.
CEBR X'..'   The hex characters are not case sensitive.
                        A maximum of 16 hex characters are processed.
                        If found, goes to the data display.
        If the qname is not found, goes to the queue names display.

There are two displays:
a) The queue names display
    All current queue names are displayed with the number of items in each queue at that moment.

    There is only room for the 1st 60 queue names.

    PF2 switches the queue name format cyclically, EBCDIC/ASCII/HEX
    In hex mode, only the first eight bytes are shown.
    The current mode is shown top right.

    CLEAR will terminate CEBR

    Select a queue name with the cursor and press ENTER to go to the data display.

    Undisplayable characters are shown by an @-sign.

b) The data display
    The 1st entry will show data items 1-16 or fewer starting from the 1st byte.

    Undisplayable characters are shown by an @-sign.

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Paging functions are usually by the PF keys shown at the bottom of the screen. These keys are dynamic, only those shown are active.

PF keys:
- PF1 -- Displays available commands, these are explained later. Any AID key returns to the data display.

- PF2 -- PF2 switches the data format cyclically, EBCDIC/ASCII/HEX The current mode is shown top right. The queue name is also converted and in hex mode only the 1st eight bytes are shown.

- PF3 -- Either terminates CEBR or returns to the queue names display.

- PF4 -- 1st data item after ** TOP **

- PF5 -- Even if the ** BOTTOM ** line is on the screen, PF5 will always display that line and as much preceding data as is possible.

- PF7/PF8   -- Scroll forward or back 8 items.

- PF9/PF12 -- Scroll right or left 72 bytes if the mode is EBCDIC or ASCII. In hex mode, scrolling is 36 bytes.

- PF10/PF11 --   Scroll forward or back 16 items.

Top line:
- REC n of n

   Shows the current item and maximum items.

- COL n of n

   Shows the current data position and the maximum available on the current display.

   If the data is of variable length, the display may show (e.g.) column 37 of 13. This may look odd, but indicates that a preset position and scroll forward or backward has displayed data that is too short for the preset position. Corrected by PF12 or a Column command.

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Commands:
    Typed after ENTER COMMAND ===>
    The minimum characters typed are indicated by upper case.
    In general, bad syntax causes the command to be ignored.
    There must be a space between parameters.

    Top   -- same as PF4
    Bottom   -- same as PF5
    Line n..n   -- Start from item number n..n
    Column n..n   -- Show data from position n..n
    Find   -- Not yet implemented

    Queue   -- Return to the queue names display
    Queue qname -- qname is case sensitive
                 -- Display data from qname
    Queue X'..'   -- The hex characters are not case sensitive
                 -- A maximum of 16 hex characters are processed
   Any syntax error here returns to the queue names display.

    PURGE   -- Must be upper case, deletes the TS queue.

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2)   CEDF

Intercept EXEC CICS commands and display associated parameters.

Currently only two-terminal working is supported, therefore a minimum of two terminals must be active before CEDF may be invoked.

For all the instructions below, DON0 is used as the termid receiving the intercepts and DON1 as the termid running the user transaction.
Any two termids may be used in your environment.

EXEC CICS commands and CEDF...
    All commands are intercepted by default.
    If a CEDF intercept is not wanted for an EXEC CICS command then add the parameter NOEDF.
    If no CEDF intercepts are wanted for a program or module then code NOEDF as a parameter on the CALL MZ390.

Starting and operating CEDF...
    On DON0, CTRL+C (clear), then enter CEDF DON1.
    See the message 'EDF REQUEST SENT TO DON1'
    Switch to DON1 (ALT+TAB) to see the message 'THIS TERMINAL: EDF MODE ON'
    On DON1, CTRL+C (clear) and type your transid.

    There should be an immediate switch to DON0 to display the program initiation screen.

    Tracing through the EXEC CICS commands...
        Just press ENTER.
        See Special intercepts later

 Actions available for each intercept...
    a) For some commands there may be too many parameters to fit on one screen. In these cases the paging keys will appear.

    b) Where there are parameters that may have valid values in EBCDIC, ASCII or HEX then the PF2 key is displayed to switch modes.
        The current mode is displayed on Line 1.

    c) For all intercepts PF5 can be used to display the DSA (Working Storage). Paging is available as required as well as PF2 to switch the character display between EBCDIC and ASCII.
        PF2 in this display does not affect the mode of the intercept display.
        Pressing ENTER will return you to the last display.

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Special intercepts...
   a) Conversational mode
      EXEC CICS RECEIVE will display the message 'AFTER ENTER
      ACTION REQUIRED ON TERMINAL'.
      Press ENTER on DON0, then switch to DON1, enter some data
      and/or press the appropriate key for the transaction.
      A switch to DON0 will automatically occur to intercept the RECEIVE.

   b) EXEC CICS RETURN TRANSID(....)
      On DON0 the message 'TASK TERMINATION:TRANSID …. SET'.
      CEDF is still active, switch to DON1, enter some data and/or press
      the appropriate key for the transaction.
      A switch to DON0 will automatically occur to start the pseudo-
      conversational transaction.

   c) EXEC CICS RETURN at the lowest level
      On DON0 the message 'TASK TERMINATION:NO TRANSID SET'
      The task has terminated but CEDF is still active.
      On DON1 another transid may be entered to continue the intercepts.

   d) EXEC CICS RETURN at a higher level
      On DON0 the message 'PROGRAM TERMINATION:LEVEL nn'
      Continue to press ENTER as this is a RETURN from a LINK and
      the transaction will continue.

Turning CEDF off...
   a) During normal interception press PF3 and the transaction on DON1
      will complete as normal.

   b) At TASK TERMINATION...
      Clear the screen and enter CEDF DON1,OFF
      No message is sent to DON1 in case it corrupts any current map
      but normal operation can continue on DON1.

Redisplay Mode...
   There is no 'save screen' facility in zCICS as all intercepts are saved.

Redisplay Mode...on and off...
   PF12 invokes Redisplay Mode with the display fields appearing at the
   top right and the navigation PF keys displayed.

   Pressing ENTER at any stage will return you to Intercept Mode so that
   further use of ENTER will step through your programs.

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Redisplay Mode...Navigation...
> You can move back and forth using the navigation keys, or type a
> display number at the top. The display numbers start at 000 for the
> current intercept and increase negatively. The number on the far right is
> the number of saved intercepts. eg. 000/009 means you are viewing
> the first of nine intercepts numbered -000 through -008.
> Typing a high number like 999 will take you to the earliest intercept.

Redisplay Mode...Working Storage...
> During Redisplay Mode you can press PF5 to display Working Storage.
> It's important to note that this is the DSA as it existed when the intercept
> was done and not the current DSA.

Redisplay Mode...Paging...
> Some commands like EXEC CICS ASSIGN may have too many
> parameters to display on one screen. When this happens in Redisplay
> Mode, PF12:PAGING KEYS is activated and you can switch the keyset
> if you need to page the command up and down, and then PF12 again to
> return to Redisplay navigation.

Forthcoming features...
> Stop conditions.
> Dump display of FROM/INTO/SET etc. data areas.
> Abend intercept and abend task.
> Parameter/DSA modification.

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3) CEMT

Conversational Mode

If any syntax error occurs then CEMT is switched into conversational mode and the principle parameters can be cursor selected from the screen.

You cannot retype the command here, cursor selection or CLEAR are the only options.

The cursor may be placed anywhere on the selection line.

Note that CEMT I FI when selected defaults to CEMT I FI ALL and any syntax error on CEMT S FI does not enter conversational mode but executes CEMT I FI ALL.

The following INQUIRE commands have a single screen response with no page forward/back implemented. Only the minimum abbreviations are shown. The full text may also be typed, e.g. CEMT INQUIRE TERMINAL

CEMT I ENQ   Displays the QEA (ENQ) chain

CEMT I FI   Displays the files in the FCT.
                  Changes may be made to multiple files.
                  Cursor select a file for a full display.
                  Click here for a detailed description.

CEMT I TER   Displays the state of all terminals.

CEMT I TRA   Displays the PCT.
                  Currently limited to 42 transactions.

CEMT I SYS   Displays the Z390CICS.INI file.
                  JAR_PATH and CICS_PATH are no longer INI parameters so they are extracted from their environment variables

CEMT S FI   Changes the status of one or more files.
                  Click here for a detailed description

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Operational commands:

CEMT S TER OUT   Shuts down the terminal (Z390KCP).

CEMT P SHU   Shut down the server if no active tasks.
                  When all active tasks are closed the server is shut down and zCICS ends.

CEMT P SHU IMM   Shut down the server immediately.

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CEMT INQUIRE FILE detailed description

Multiple parameters may be specified.
When conflicts occur the rightmost parameter takes precedence.

The capitalized part of each parameter is the minimum accepted.

If the file specification is omitted then ALI is the default.
The file specification can immediately follow FI or can be a separate parameter.

File specification:
    a) As a single filename e.g. (MYFILE)
    b) As multiple filenames e.g. (MYFILE1,MYFILE2)
    c) Wild cards can be used e.g. (+Y++)
        This means all 4-character filenames with Y as the 2nd
    d) Ending generic e.g. (+Y*)
        This means all filenames of at least 2 character with Y as the 2nd

    Floating generic e.g. (*AB*) is not supported.

Additional selection parameters:
    OPen CLosed ENabled DIsabled UNenabled
    REad NORead UPdate NOUpdate ADd NOAdd
    BRowse NOBrowse DElete NODelete

Extension:
    FiXed   Variable
    Note the abbreviation for fixed is FX to avoid conflict with FILE.

When ENTER is pressed all files that meet the parameter criteria are displayed.

From the multiple file list screen you can do one of the following:
    a) Amend the command line to change the parameters or to go to a different
:   CEMT function. Any other changes on the screen will be discarded and the
       cursor position ignored.

    b) Cursor select a file to go to the detailed display.

    c) Overtype any of the green fields to change the file(s) status and press
       ENTER. Only the first character of each field is checked.

      All successful amendments will change to white.
      If an error was encountered, no more file changes will be processed and an
      error message will be displayed on line 23.

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From the detailed display you can overtype any of the green fields to change the file(s) status and press ENTER. Only the first character of each field is checked.

All successful amendments will change to white.
If an error was encountered, an error message will be displayed on line 23.

Press PF3 to return to the multiple file display.

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CEMT SET FILE detailed description

Multiple parameters may be specified.
When conflicts occur the rightmost parameter takes precedence.

The capitalized part of each parameter is the minimum accepted.

The file specification is mandatory, a SYNTAX ERROR message is displayed if missing.
The file specification can immediately follow FI or can be a separate parameter.

File specification:
  a) As a single filename e.g. (MYFILE)
  b) As multiple filenames e.g. (MYFILE1,MYFILE2)
  c) Wild cards can be used e.g. (+Y++)
     This means all 4-character filenames with Y as the 2nd
  d) Ending generic e.g. (+Y*)
     This means all filenames of at least 2 character with Y as the 2nd

  Floating generic e.g. (*AB*) is not supported.

Change parameters:
   OPen CLosed ENabled DIsabled
   REad NORead UPdate NOUpdate ADd NOAdd
   BRowse NOBrowse DElete NODelete

When ENTER is pressed all files that meet the file specification are changed
by the parameters specified.

The SET is now changed to INQUIRE and the command re-issued to display the
multiple file list screen.

All successful amendments are shown in white.
If an error was encountered, no more file changes will be processed and an
error message will be displayed on line 23.

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Change Summary

June 10, 2011
Added notes about syntax errors on CEMT I/S FILE
Added CEDF Redisplay Mode and extra hyperlinks

November 1, 2010
CEMT section re-arranged
New sections on CEMT INQUIRE/SET FILE
New section on CEDF

August 1, 2009
Non-display characters are now @-signs.
Update to CEMT I FIL...detailed info via cursor select

February 21, 2009
Extended CEMT I TRA

June 27, 2008
Added CEMT conversational mode.
Added CEMT I ENQ

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Credits

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