

zCICS

History v8



Automated Software Tools Corporation.

zCICS History

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zCICS History

Introduction

This is only a brief summary; please refer to the Application Programming Guide and the System Programmers Guide for the details.

The Ship Date is the date the package is given to Don; there may be a delay before he can include it in a PTF or Release.

History

V8

Enhancements and changes...

FILEERTB...added RPL feedback code X'000800C4'

Add the DUMP parameter to all ABEND macros

Added INQUIRE FILE

HANDLE/IGNORE new condition...END

Added ASSIGN and test transaction ASGN

CEMT I FIL now uses INQUIRE FILE and you can now cursor select a file for an expanded display.

Z390COMP (Sequential output comparator) has been improved to display an error message and print the buffers when an error occurs.

Maintenance...

DFHMDI wasn't generating MAPNAME.I and MAPNAME.O correctly for MODE=IN or MODE=OUT assembler maps.

DFHMDF wasn't generating a dummy length field for MODE=OUT assembler maps leading to abends or corrupted output.

The linkage mechanism for XCTL has been changed and DFHEIPRM eliminated. Although XCTL worked ok, if an abend occurred in an XCTL'd-to program, recursive abends were likely.

zCOBOL enhancements have brought out several minor bugs in zCICS COBOL maps and programs which are now fixed.

Test transaction IC02 stopped working owing to changes in TESTBED1 to support CWA testing. The transaction was revised.

Z390KCPR.BAT had the NOTIME parameter added.

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V7 February 21, 2009 V1.5.00

Rebranding

Z390/CICS is now known as zCICS

Maintenance...

BMS...

Mods made to macros and EXEC CICS SEND/RECEIVE to support COBOL maps.

Added PICIN/PICOUT support for COBOL maps.

Revised all EXEC CICS commands to make them base-free, a requirement for COBOL support.

Changes to LINK, XCTL and DFHEIENT to enter all programs with GR1 pointing to A(EIB,COMMAREA). A requirement for COBOL support.

DFHEIGBL has been withdrawn and the code placed in DFHEIENT.

HANDLE ABEND LABEL wasn't correctly restoring registers or properly cleaning up if the LABEL was at a higher link-level than the abending program.

FORMATIME wasn't returning the correct date.

FREEMAIN DATA() corrected.

Improvement to all commands accepting indirect adcons.

Enhancements and changes...

BMS...

DFHMSD LANG=COBOL will generate a COBOL map structure as mapset.CPZ

The BAT file for SYSPARM(MAP) generation needs the ALLOW parameter to enable the IMG file to be created correctly.

EXEC CICS ADDRESS COMMAREA() CWA() EIB() added

New INI parm CWASIZE=nnnnnnn
Displayed in CEMT I SYS

CEMT I TRA extended from 17 to 42 transactions.

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zCOBOL support

BMS LANG=COBOL already listed above

SET supports ADDRESS OF label

LENGTH and FLENGTH support LENGTH OF label

EXEC CICS SEND MAP supports SET()

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V6 November 24, 2008 V1.4.04

Maintenance...

FORMATTIME bug fixed, gave incorrect date in leap years
Minor XCTL bug fixed, copied COMMAREA unnecessarily

Z390KCP bug fixed, in complex situations COMMAREA is being freed causing recursive abends. Not related to XCTL bug.

Z390CEBR not sending task number resulting in bad QNAMES log message.

Z390CEMT had minor bug which sometimes prevented the terminal prefix from being displayed in CEMT I TER.

Z390CICS not setting the TRACE_Z390CICS parameter properly.

Eliminated GR2 as an internal register. It is now available as a base register but is not recommended as it may be modified by some instructions.

A label is now allowed on EXEC CICS statements.
e.g. MYLABEL EXEC CICS READ ...

DFHEIGBL includes EQUREGS and therefore not needed in programs.

EXEC CICS HANDLE/IGNORE CONDITION now supports
DSIDERR=FILENOTFOUND

EXEC CICS WRITEQ TS NOHANDLE not working owing to missing restore of GR15.

EXEC CICS WRITEQ TS supports ITEM without REWRITE for compatibility.

EXEC CICS READQ TS with SET was using LENGTH as an input field incorrectly.

EXEC CICS GETMAIN not supporting NOHANDLE properly.

DFHALL.BAT amended so that GBL and LCL modules are no longer link-edited.

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BMS...

DFHMSD...

Support for TIOAPFX=YES
Support and discard TERM=

DFHMDI...

Bug--AGO .GOON15 should be .GOON05
Extra error checking for LINE/COLUMN and MAP01 corrected.
Support for TIOAPFX=YES
Support and discard JUSTIFY=

DFHMDF...

Support for fields that wrap row or screen.

INITIAL now supports strings that contain doubled quotes or ampersands.

LCL1804 (SEND MAP)...

Obscure bug that may not generate a cursor location when in simulation mode.

Bug fixed which may allow X'00' to be included in a data stream.

Support for fields that wrap row or screen.

EXEC CICS SEND MAP now supports FROM() and LENGTH() parms and MAP may now be a label.

EXEC CICS RECEIVE MAP now supports INTO() and MAP may now be a label.

DFHNULL added to DFHAID.CPY

Interval Control...

HANDLE/IGNORE extra conditions

TERMIDERR, IOERR, TRANSIDERR, ENDDATA, ENVDEFERR

Task Control...

HANDLE/IGNORE extra condition...ENQBUSY

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Internal reconstruction...

This was started in CICS V5; all EXEC CICS commands now invoke an external LCLhhhh module. The list can be found in zCICS Diagnosis Reference.

As a result some changes were made to the Application program structure:
DFHEIFCP and DFHEITSP removed from EISTG.
DFHEIGBL now only contains EIB and TCTTE structures.
Coding reconstructed for LINK, XCTL and RETURN.

DFHEIRET withdrawn, now incorporated into LCL0E08 (RETURN).
This means you must end a zCICS program with EXEC CICS RETURN.

Enhancements and changes...

All EXEC CICS commands now support RESP, RESP2 and NOHANDLE.
Added TRACE(G) to Z390KCP trace options (storage).

Additional code added to BMS to prevent PICIN/PICOUT generating truncated data when too much data is input. MAPFAIL/8 is raised.

EIBDS is now supported
Support for EXEC CICS START, RETRIEVE and CANCEL
Support for IMMEDIATE on EXEC CICS RETURN
Support for EXEC CICS ENQ/DEQ
CEMT I ENQ added.

zCICS History

V5 June 27, 2008 V1.4.02

Maintenance...

- RPI833: All macros now changed for HLASM compatibility.
 - RPI837: Add NOTIME parameter to Z390CICS to prevent S422 abend for terminals.
 - RPI844: Use of TROT now needs aligned tables.
Z390CEBR and Z390COMP needed amending.
 - RPI845: Recode ESTAE routines in Z390KCP to use new SDWA
 - RPI946: Amend a few programs to eliminate the generation of 6's for uninitialized fields.
- TESTBED3: Bug fixed, final lines not displayed.
Rebuilt the sequential terminal streams for BED1.
- Z390KCP : Bug fixed, CLEAR key not passed to pseudo-conversational task.
- Bug fixed, abend ASRA after RETURN COMMAREA received may lead to recursive abends owing to multiple FREEMAINS of the COMMAREA.

Enhancements and changes...

- CEMT conversational mode implemented.
 - DFHFCT and DFHPCT have protection against missing TYPE=FINAL.
 - Z390CICS future-proofed with a new modular design.
Global managed functions now in GBLxxxx modules
- Sequential terminal support improved:
Only the SEQ_TERM parameter needs to be amended.
Added TRACE option to set parms for trace data collection.
- HANDLE/IGNORE extra conditions
MAPFAIL, INVMPSZ, OVERFLOW
- New LCLxxxx modules to handle EXEC CICS processing.
This conversion is not complete.

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New Features...

Basic Mapping Support

Macros DFHMSD, DFHMDI, DFHMDF.

EXEC CICS SEND MAP

EXEC CICS RECEIVE MAP

EXEC CICS SEND CONTROL

New Doc...

zCICS Basic Mapping Support.

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V4 January 18, 2008 V1.3.08h

File control commands now support all fixed and variable VSAM datasets for all applicable read and browse functions.

Interval Control

ASKTIME, DELAY and FORMATTIME supported

Dump Control

DUMP TRANSACTION

Enhancements and changes...

HANDLE/IGNORE extra conditions

ILLOGIC, EXPIRED

Z390KCP amended to cater for conditions that default to ignore.

INI parm DATE_FORMAT changed to single byte:

K=DMY (UK format)

S=MDY (US format)

R=YMD (Reverse format)

This is also reflected in CEMT I SYS

Implementation of new LOG() parameter.

When the INI parameter TRACE_LOCAL=YES is specified, the ERR, LOG and TRE files are prefixed with the terminal id and not Z390KCP.

Sequential Terminal support

Enables regression testing of all transactions.

See the documentation about this major new feature...

zCICS Sequential Terminal Support

Bug fixes...

Abends may occur if INI parm LOCAL_TERMINALS=0

EIBRSRCE was being used in abend messages, but this may not contain the program name. New field EIBPROG fixes this.

Minor error in DFHHCBLK, 5 fullwords reserved for ILLOGIC instead of one.

Other...

Programs RTZCICSn are no longer supplied and are now classified 'internal use only'.

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V3 October 1st, 2007 V1.3.08

Improvements to the shutdown process.

Changes to remote terminal start procedure.

Z390KCPL to launch multiple remotes

Z390KCPR to launch one remote, used for test/trace

Z390CICS.INI ...

JAR_PATH= and CICS_PATH= are withdrawn. The paths are extracted from the environment variables JARPATH and CICSPATH.

New parm, DATE_FORMAT=UK or US

Bug fix...

EXEC CICS IGNORE not acquiring handle block.

Enhancements and changes...

RECEIVE INTO(EIBAID) no longer supported

Receive into your own area, EIBAID and EIBCPOSN will be automatically extracted.

HANDLE/IGNORE extra conditions...

QIDERR, ITEMERR, FILENOTFOUND, NOTFND, DUPREC, DUPKEY, NOSPACE, NOTOPEN, ENDFILE, DISABLED

CEMT I SYS ...

Terminal numbers were in error, display enhanced.

JAR_PATH and CICS_PATH are displayed from the environment variables.

DFHALLV.BAT to rebuild the test VSAM catalog and files.

Added support for...

DELETEQ TS

READQ TS

WRITEQ TS

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File control commands are for VSAM ESDS read-only...

READ
STARTBR
READNEXT
READPREV
RESETBR
ENDBR

Added facilities...

CEBR transaction, a hybrid of CEMT I TSQ and CEBR.
Extensive improvements.

CEMT I FIL

Documentation...

CEMT and CEBR are now moved to zCICS Supplied Transactions.

New document - zCICS VSAM Guide.

zCICS History

V2 June 25, 2007 V1.3.05

Corrections to setting of EIBAID and EIBCPOSN.
Maintain EIBRSRCE (program name).
Clear prefix section of DSA, possibility of abends.
Support of multiple base registers for code and DSA...
See ZCICSAPP doc.
Local terminals may not start...thanks to Don for a temporary fix.
Command Prompt pathname not externalized.
Fixed by extra INI parm CICS_PATH...see ZCICSSYS doc.
Added DFHAID.CPY...BAT files may need SYSCPY amended if used.

Enhancements and changes...

EXEC CICS RECEIVE
... supports NOHANDLE
... default INTO(EIBAID) has been withdrawn,
recode to EXEC CICS RECEIVE INTO(EIBAID) LENGTH(ONE)

...
ONE DC H'1'

Abend handling now properly implemented.
COMMAREA() now supports indirect addressing.
SEND FROM() now supports indirect addressing.
Added SHUT DOWN status to CEMT I TER.
CEMT now accepts full wording for commands, i.e. CEMT SET TERMINAL
OUT, but only the minimum number of characters of each parameter
will be tested.
CEMT P SHU and CEMT P SHU IMM are fully implemented, there are
some issues, see ZCICSSYS for details.
Added INI parameter INITIAL_TRANSID to fire a transaction when terminal
is started. New LOGO transid.
Added dummy DFHPCTUS.CPY for users to add their own PCT entries.
INI parms JAR_PATH and CICS_PATH now support preset environment
variables as %...%

Added support for...

ABEND
FREEMAIN
GETMAIN
HANDLE AID
HANDLE ABEND
HANDLE/IGNORE CONDITION
only ERROR, INVREQ, LENGERR, PGMIDERR supported
PUSH HANDLE
POP HANDLE
RELEASE

zCICS History

V1 May 1, 2007 V1.3.03b

Provides assembly support for CICS programs.

Includes most parameters associated with the following EXEC CICS commands...

LINK, LOAD, RECEIVE, RETURN, SEND, XCTL

Some basic CEMT functions.

Trademarks

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Credits

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