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UPDATE DOCUMENT, DX10 COBOL, RELEASE 3.5.0-990

TEXAS INSTRUMENTS INCORPORATED DATA SYSTEMS GROUP	drawing number 2239984-9901
	REV. ** SHEET 1 OF 6

SECTION 1

Changes

1.1 Differences Between COBOL 3.5.0 and COBOL 3.4.0

DX10 COBOL 3.5.0 is identical to DX10 COBOL 3.4.0 with exceptions noted below. Programs that have been compiled using COBOL 3.4.0 need not be recompiled under the new release. However, COBOL tasks must be relinked in order to use the new runtime.

1.2 Enhancements

The purpose of this release is to correct the known errors in both the compiler and runtime. There are no enhancements made for this release.

1.3 Release fixes

There were many System Trouble Reports (STR) removed from the database with this release. Some were associated with previous releases, some were user misunderstandings, and some were errors in the COBOL product. The following paragraphs contain the STR numbers along with a description of those fixed in this release.

1.3.1 Compiler fixes.

STR006409 - The compiler does not report an error when an incorrect index is given for a data name.

STR008422 - Compiler hangs at the end of processing the source file if an external subroutine and a data file have the same name.

STR009094 - The compiler sometimes generates an erroneous "PROGRAM OVERFLOW" error.

- STR011600 - The compiler loops on itself if it contains multiple subroutine calls using a common area for the pathname.
- STR013578 - Using the M (map) compiler option can cause the compiler to execute an infinite loop.
- STR014601 - Opening a KIF output with a record containing more than 2048 characters and an "OCCURS DEPENDING ON" will cause a 97,00 error on the first write.
- STR016416 - When compiling a program using the M option, the compiler hangs in a loop and will not terminate.

1.3.2 Runtime fixes.

- STR005843 - The runtime produces a 30,DF error if the I/O buffer space is exhausted.
- STR007251 - The LUNO must be released after an unsuccessful OPEN on a tape file.
- STR008099 - A READ PREVIOUS, REWRITE, READ PREVIOUS, and REWRITE on a KIF will cause a 99,B7 error.
- STR008431 - The runtime does not return an error when an OPEN EXTEND is done to a printer.
- STR009511 - A short synonym value read by C\$MAPS into a longer user field, sometimes returns an inapplicable and misleading error.
- STR009852 - Future releases will continue to return a 00 status for a "READ ... NEXT" statement on a KIF.
- STR011558 - Comparison of a string to NT, NL, or NLS format does not work properly.
- STR011941 - If a terminal has a line printer opened and another terminal attempts to open it, the second terminal will not be allowed access even after the first closes the printer.
- STR011957 - The \$\$CC synonym not set by a STOP <numeric literal> statement.

- STR012812 - Executing a program in background using ACCEPT and DISPLAY statements causes the loss of the function keys.
- STR013347 - A program may terminate with a task error >0B if RCOBOL is write protected, the program accesses a KIF, and the program does not contain declaratives.
- STR013465 - The 3.4.0 release returns an incorrect 30,3B error instead of the correct 99,3B for an OPEN WITH LOCK for a file already in use.
- STR013614 - The DEBUGGER does not allow modification on data items whose physical address is greater than >8000.
- STR013845 - The runtime will not open the SPOOLER as a file.
- STR014552 - The C\$CBID subroutine does not return a 58 error when an invalid task id is bid.
- STR014728 - The currency pointer for a KIF is changed if a record is deleted and another record is written, after the alternate key value has been decreased.
- STR014787 - Attempting a "READ ... NEXT" on a KIF after a REWRITE statement added a new last record causes a 30,BD error.
- STR014852 - The COBOL runtime causes a spacing error by padding odd length print lines with a NULL code.
- STR015625 - Attempting a "READ ... NEXT" on a KIF after a REWRITE statement added a new last record causes a 30,BD error.
- STR016083 - An execution of the C\$CBID can cause a >0027 system crash.
- STR017831 - A call to C\$GROF causes the runtime to loop.
- STR018531 - The \$\$CC synonym not set by a STOP <alphanumeric literal> statement.

1.3.3 Manual fixes.

- STR008095 - Correct documentation to state that all COBOL subroutine parameters MUST start on an even (word) boundary.
- STR013363 - Expand the explanation of the FLAG parameter in the C\$CBID subroutine.
- STR013435 - Emphasize that "SEQUENTIAL FILE LOGICAL RECORDS MUST BE AN EVEN LENGTH" in paragraph 2.7.1.1 of the programmer's guide.
- STR013436 - Include "FILE RECORD SIZE ERROR" in table B-1 and improve the description to include the odd record length problem.
- STR013856 - Change paragraph 2.7.3 of the Cobol Programmer's Guide on KIF characteristics to read: START on the first portion of a key is allowed.
- STR013866 - Clarify the condition of stop addresses in the DEBUGGER when a breakpoint is found.
- STR014123 - Clarify the message generated when a perform statement in an independent segment references a paragraph in another independent segment.
- STR014474 - Correct the explanation of the error message format in Appendix C of the COBOL Programmer's Guide and point out that error numbers are shown in hexadecimal.
- STR015333 - The description of C\$TMPF in the Programmer's Guide must state that the temporary characteristic is applied to only the NEXT file opened.
- STR015334 - Change the data types of the variables in the example in chapter 8 of the Programmer's Guide from COMP-4 to COMP-1.

SECTION 2

Miscellaneous Items

2.1 New installation procedure

With this release of COBOL, there is a special SCI command included as part of the installation disk. The purpose of this command, is to allow the user to install the language processor without setting the necessary synonyms. As it is executed, the INSTALL command will prompt the user for all of the data needed, and then execute the installation batchstream.

2.2 Object Installation Guide

Section 5 of the document PN930431-9701 *E has been deleted. The data contained in this section will be included in future releases of the COBOL Programmer's Guide.