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UPDATE DOCUMENT, DX10 TIFORM, RELEASE 3.3.0-990												
TEXAS INSTRUMENTS INCORPORATED DATA SYSTEMS GROUP						drawing number 2239950-9901						
						REV. ** SHEET 1 OF 8						

SECTION 1

PURPOSE AND SCOPE

This document contains information about the operational differences between the 3.3 and 3.0 releases of TIFORM.

CAUTION

The TIFORM 3.3 Executor will execute TIFORM 3.0 object files. However, a form which has been compiled by the TIFORM 3.3 compiler will cause that form file to be incompatible with the TIFORM 2.1 Executor. Also, the application interface to TIFORM 3.0 is compatible with the TIFORM 3.3 Executor. However, the TIFORM 3.0 and 3.3 interfaces do not execute with the TIFORM 2.1 Executor.

SECTION 2

CHANGES IN TIFORM 3.3

2.1 INTRODUCTION

TIFORM 3.3 presents few changes from TIFORM 3.0. Several outstanding problems have been fixed in TIFORM 3.3 and the internal structure of the Executor has changed. The Executor executes considerably faster because it does not reference the internal stack as often as the previous version of the Executor.

The following paragraphs describe each major change.

2.2 DOCUMENTATION

The TIFORM Reference Manual released with 3.3 describes both the DNOS and DX10 versions of TIFORM 3.3. Several chapters have been reorganized and new material added. The major changes are:

- * Section 2 describes Form Execution. The previous manual contained this information in Section 6.
- * Section 3 has been reorganized so that FDL statements are presented in alphabetical order.
- * The ISGE tutorial in Section 4 describes how to perform the exercise from a 931 keyboard instead of a 911 keyboard. Appendix A of the TIFORM Release Information describes the differences in operation when performing the tutorial from a 911 keyboard.
- * Section 5 now presents the interface calls for each supported language together. For instance, the paragraph describing the Open Form routine demonstrates the call for each high level language including FORTRAN.
- * Section 6 contains an expanded description of how to link TIFORM applications.
- * Section 7 contains an expanded description of the Form Tester Utility.
- * Appendix A contains the standard Keycap Cross-Reference that describes the differences between keyboards.

* Appendix G contains a Quick Reference to ISGE.

2.3 ISGE

There are only two minor changes. References to the TIFORM release level are updated to 3.3. Also, when defining a Field Mask, ISGE no longer prompts you for the blinking field attribute (BL:). This was never a valid attribute for field masks.

2.4 INSTALLATION

The object installation process has been simplified. Two SCI command procedures are provided for installing the TIFORM object (ITIFORM) and patching the object (PTIFORM). You should always apply patches before verifying the installation.

SECTION 3

Software Trouble Reports Fixed

The following list of Software Trouble Reports are closed with the 3.3 release of TIFORM.

- STR #09320 TIFORM 3.3 does not support decompiling form segments.
- STR #10924 The TIFORM Reference Manual describes FORTRAN application calls for the TIFORM Executor.
- STR #11319 The FDL compiler listings reflect the current release level, 3.3.
- STR #11322 The Executor correctly handles a zero-length indexed read.
- STR #12139 The documentation correctly lists the part number and revision as an optional FDL statement.
- STR #12746 The FDL compiler builds the correct FDT for forms using the SAME AS ... EXCEPT FOR statement.
- STR #12747 The Executor now correctly handles an edit set specification to turn off the display in the current field.
- STR #12748 The Executor now reports terminal access errors from the OS to the application. The Executor no longer retries the operation indefinitely when disconnect and terminal time-out errors are reported.
- STR #12750 The installation batchstream for the Tax Demonstration package executes correctly.
- STR #12753 The reverse video attribute is not supported.
- STR #12755 The operation of control mode 8 is now correctly documented.
- STR #12758 The Print key task of the Executor properly builds the QUEUE file.
- STR #12762 The Executor now correctly handles an ordered group read where there are no readable items.

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- STR #12763 The Executor can handle 2.0 segments.
- STR #13243 The Executor now performs final validation where the field also specifies a pre-entry conditional attribute.
- STR #13245 The Print key task of the Executor now releases all LUNOs when it completes execution.
- STR #13246 The initialization of the PRB output buffer now resides in the DSEG portion of the Executor (the task dependent data area). Therefore, the Executor can handle several users concurrently.
- STR #13247 The FDL compiler now releases the LUNOs assigned to the temporary object files after the overlays have been installed.
- STR #13248 The FDL compiler now correctly interprets the SAME AS ... EXECPT for statement.
- STR #13250 The Executor does not force a zero into an empty right-justified field.
- STR #13251 The Executor does not delete blanks embedded in a right-justified alphanumeric field.
- STR #13284 The listing file for the object installation command procedure contains an error count at the end.
- STR #13433 The FDL documentation has been corrected to show that the edit set specification is not valid outside of the context of an IF statement.
- STR #13506 The XISGE command procedure now sets the \$ISGE\$R synonym correctly after normal termination.
- STR #13560 The Executor can read an external variable without aborting.
- STR #13620 Same as STR #13433.
- STR #13752 The Print key task of the Executor correctly builds the queue file.
- STR #13753 The Print key task of the Executor now traps and returns error messages.
- STR #13754 Same as STR # 13752.
- STR #13760 The documentation now demonstrates how to link FORTRAN 78 applications with the TIFORM high

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level interface.

STR #13865 The FDL compiler generates listings when DUMMY is specified as the object output pathname and the DELSEG option is specified.

STR #13919 The Executor can read a group that consists of only one external variable.

STR #13969 The Print key task of the Executor can correctly handle the DX10 LP\$x neo-spooler designation. This minimizes the wait time for the user and ensures that the image is directed to the designated device.

STR #13994 The Executor does not reread a segment when a non-abort function key is used to terminate a read.

STR #14375 The Executor handles conditional attribute specifications without generating erroneous errors during final validation.

STR #14560 Same as STR #13994.

STR #14563 The Print key task of the Executor no longer kills the Executor.

STR #14648 Same as STR #14663.

STR #14649 The Print key task of the Executor now traps and returns errors.

STR #14738 ISGE now correctly interprets row and column specifications.

STR #14739 Same as STR #14738.

STR #14745 The documentation now includes the FDL compiler diagnostic message "MASK SEGMENT MUST IMMEDIATELY PRECEDE FIELD SEGMENT."

STR #14746 The release information document now states explicitly that FDL source used to compile 2.1 form segments can be used without any changes to compile 3.0 (and 3.3) segments.

STR #14756 The Executor can now read external variables.

STR #14900 The Executor now correctly interprets the SAME AS statement.

STR #14901 Same as STR #14900.

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- STR #14902 The Executor now reopens the group correctly after a final validation error.
- STR #14903 The Executor no longer reads an item twice when the item appears twice in a group.
- STR #14904 Same as STR #14902.
- STR #15245 The Print key task of the Executor can access the DX10 S\$PRINT queue more than once without error.
- STR #15289 The Print key task of the Executor correctly handles the TIFORM print specifications located in the TERMINAL file.
- STR #15745 When compiling a form with an ARRAY(1,0) statement, the FDL compiler no longer hangs the system with the fault light flashing. Really.
- STR #16315 The Executor now correctly handles both terminal time-out and disconnect errors reported from the operating system.
- STR #16713 The Executor now releases memory when a form is closed. An optional patch is available to suppress this feature.