

Date 88.08.03

Norsk Data A.S
PROGRAM DESCRIPTION

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Product	Name	Reg. no.	Category
	LED-DEBUGGER for ND-500/5000	211157B	STPR
Reason	. New product X Change/Addition	X Error Correction . Different Environment	
Documentation	Title	Reg. no.	
	LED User Guide	60.266.2 EN	
	Symbolic Debugger User Guide	60.158.5 EN	
Purpose	Source Symbolic Debugger		
Prerequisites	Computer	Type	Op. system Version
	ND-500/5000	CX	SIN III VS K Work mode 312B Patch file 6034B
	Minimum permanent mass storage resources		
	User	Userspace	Number of files
	SYSTEM	377 pages	3
			ND-no. for Source 250213B
File Name	Type	Containing	
DEBUGGER-LED-B<rev>	PSEG	Program part	
DEBUGGER-LED-B<rev>	DSEG	Data part	
UPK-IF	DEFS	Definition of LEDCALL services	

1 NOTE:

<rev> is to be replaced by the current revision of the DIRECTORY or FILE. The revision level is found on the preceding "ND SOFTWARE LIBRARY DISKETTE" pages.

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2 INSTALLATION PROCEDURE

Use the SINTRAN command, COPY-FILE, to copy the file DEBUGGER-LED-B<rev>:PSEG and the file DEBUGGER-LED-B<rev>:DSEG to user SYSTEM.

@COPY-FILE "DEBUGGER-LED-B<rev>:PSEG" (211157:F-U)DEBUGGER-LED-B:PSEG
@COPY-FILE "DEBUGGER-LED-B<rev>:DESG" (211157:F-U)DEBUGGER-LED-B:DSEG

3 ADDITIONS

- Auxiliary Process Control: provides a multi process environment. By pressing FUNC CTRL+@ a process is connected to current region. Communication with the process is switched on and off with CTRL+@.
- Compiler Messages Mapping: maps compiler messages onto source files. By pressing SHIFT+EXECUTE while positioned in a region with compiler messages, files with warnings and errors are read into LED. Pressing EXECUTE after reading files will step through faulty lines.
- Speed optimization of the "look-up" algorithm. When debugging large systems, debug info size larger than 1000 pages searching through the debug tables for a specified item was sometimes slow.
- User Programmable Keys (LEDCALL services): it is now possible to define own editing functions. A set of routines as interface towards LED's regions allows one to write programs that manipulates the regions. The programs are loaded at run time and can be bound to any desired key. Use the home commands Bind-to-key and Kill-binding.
- Browsing function: lower levels of program structures can be hidden. By pressing (... repeatedly, more and more lower levels will be hidden, pressing ...) reverses the process.
- New command, Read-All-Files <file name>, will read all files listed in the file specified as argument.
- New command, Rename-Region <old name> <new name>, renames existing region.

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- New command, Delete-Region <region name>, deletes specified region.
- New command, Compare-Area (<ignore case>) (<ignore space>), compares marked area with equal size area starting at current position in region.
- New command, Write-Modified-Files.
- Current position in a region can be stored by pressing SHIFT+F3, and by pressing F3 switch between new position and stored.
- Size of marked area can be changed using MARK. Pressing MARK above or below marked area extends it to current position, pressing MARK inside marked area decrements the size.
- Quoting argument to commands get-string, get-pattern and substitute, disables language mode during search. Quoting can be done with ' or ".
- Read, write, get-string, get-pattern, substitute and pretty-print operations can be aborted by pressing Cancel.
- Indentation, pretty print and browsing for C and Fortran.
- Some commands have changed name: Read to Read-File, Write to Write-File, Update to Update-File, Move to Move-To, Value to Value-Of, Sort to Sort-Lines and Global-Mode to Global-Search (<yes/no>).
- Only the keys s,y and n are accepted as reply when using manual check in substitute, apart from Cancel key and Func @.
- The window mode command field, key, has been removed, use <> key to change size of window.
- New window mode commands, << and >> key, rotates between all windows, regardless of size.

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- Preparations for support of ADA for ND-500/500 compiler are also included.
- Now possible to read and write temporary files in Main region.

4 ERROR CORRECTION

- Problems due to window size 1 by 1 are corrected.
- Marked area has higher priority than global mode when substituting.
- FORTRAN comment header conforms to FORTRAN standard for comments.
- COBOL comment header corrected.
- Comments are skipped in Get-String and Substitute if language is COBOL.
- Cancel during substitute with global mode on now aborts properly.
- SINTRAN error "No more page available for this user" is now handled properly.
- Using the command Set-Preferences, LED no longer tries to save settings on other users, i.e user System.
- If all lines in a region were modified, Write was unacceptably slow.

ND SOFTWARE LIBRARY DISKETTE

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Containing :
LED-DEBUGGER for ND-500/5000

Directory Name :
211157B03-XX-01D

User Name : FLOPPY-USER

No	File name	Type T	Public	Friend	Own	Pages	Bytes
0	DEBUGGER-LED-B03	PSEG I	R	R	RWACD	173	351588
1	DEBUGGER-LED-B03	DSEG I	R	R	RWACD	200	502097
2	UPK-IF	DEFS I	R	R	RWACD	4	4770
3	files using 377 pages. 610 pages reserved out of 610 pages.						