

Product	Name C-COMPILER for ND-500	Reg. no. 210761B	Category STPR
Reason	X New product		
Documen- tation	Title C-COMPILER ND-100/500 User Manual	ND-no. 60.214.01	
Purpose	Compiler for the programming language C		
Prerequi- sites	Computer Type	Floating format	Op. system Version
	ND-500		SIN III VSX >=J
	Minimum mass storage resources for installation		
	User	Userspace	Number of files
	<Any>	200 pages on	3 files
	<C-Include>	50 pages on	13 files
	SYSTEM	40 pages on	2 files
	Minimum permanent mass storage resources		
	User	Userspace	Number of files
	<domain user>	200 pages on	3 files
	<C-Include>	50 pages on	13 files
	SYSTEM	35 pages on	2 files
		Reg. no. for Source 210848B	
File no.	File Name	Type	T Containing
205553B	INSTALL-1DA-B<rev>	MODE	I Install. of CC-500
208751B	INSTALL-1DB-B<rev>	MODE	I Install. of C-Include
208752B	INSTALL-1SB-B<rev>	MODE	I Install. of CC-500.
208753B	INSTALL-1SA-B<rev>	MODE	I Install. of HEADER/LIB
208754B	INSTALL-2S-B<rev>	MODE	I Install. of C-Include
208755B	INSTALL-3S-B<rev>	MODE	I Install. of C-Include
208756B	CC-HEADER-A-B<rev>	NRF	I C-Predefinitions
208757B	CC-LIBRARY-A-B<rev>	NRF	I C-Runtime System
208758B	CC-500-B<rev>	LINK	I C-Compiler
208759B	CC-500-B<rev>	PSEG	I C-Compiler
208760B	CC-500-B<rev>	DSEG	I C-Compiler
205554B	CAT-B<rev>	C	I C-Include-file
205558B	500-CTYPE-B<rev>	H	I C-Include-file
205556B	500-ERRNO-B<rev>	H	I C-Include-file
205557B	500-FCNTL-B<rev>	H	I C-Include-file
208761B	500-IOCNTL-B<rev>	H	I C-Include-file
205564B	500-MATH-B<rev>	H	I C-Include-file
208762B	500-NAN-B<rev>	H	I C-Include-file
205560B	500-MEMORY-B<rev>	H	I C-Include-file
205561B	500-SETJMP-B<rev>	H	I C-Include-file
205559B	500-STDIO-B<rev>	H	I C-Include-file
205562B	500-STRING-B<rev>	H	I C-Include-file
208763B	500-VALUES-B<rev>	H	I C-Include-file
205563B	500-VARARGS-B<rev>	H	I C-Include-file

Note:<rev> is to be replaced by current revision level.

This version is the first official version of this product.

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1 ERROR CORRECTION.

- 1) The following errors have been corrected:
- 2) Floating point constants were compiled wrong in several ways.
- 3) Missing #endif's were not reported.
- 4) Programs containing large structures, over 8k byte, could not be compiled in debug mode.
- 5) sscanf() could sometimes fail.
- 6) Random access write's after the end of a file could sometimes be mishandled.
- 7) Invalid debug is corrected.

2 CHANGES / ADDITION.

- 1) To use command lines longer than are allowed by SINTRAN-III, there exists a possibility to put text from a file into the command line. This is done by writing @filename on the command line when starting a c-program.
- 2) A new library function tused() that executes the SINTRAN monitor call with the same name, tused() returns -1 on error.

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3 INSTALLATION PROCEDURE

Installation procedure for double density diskettes.

Log in as user SYSTEM, create the user <C-Include> with 50 pages if it doesn't already exist, and perform the following commands:

```
@ENTER-DIRECTORY 210761B<rev>-XX-01D,FLOPPY-DEVICE-<device>,<unit>...  
@MODE (210761B:FLOPPY-USER)INSTALL-1DA-B:MODE...
```

Enter <C-Include> and perform:

```
@MODE (210761B:FLOPPY-USER)INSTALL-1DB-B:MODE...  
@RELEASE-DIRECTORY 210761B<rev>-XX-01D
```

Installation procedure for single density diskettes.

Log in as user SYSTEM and create a new user <directory:dummy-user> with 250 pages and the user <C-Include> with 50 pages, if it doesn't already exist. Perform the following commands:

```
@ENTER-DIRECTORY 210761B<rev>-XX-01S,FLOPPY-DEVICE-<device>,<unit>...  
@MODE (210761B:FLOPPY-USER)INSTALL-1SA-B:MODE...
```

Enter <Dummy-user> and perform:

```
@MODE (210761B:FLOPPY-USER)INSTALL-1SB-B:MODE...  
@RELEASE-DIRECTORY 210761B<rev>-XX-01S  
@ENTER-DIRECTORY 210761B<rev>-XX-02S,FLOPPY-DEVICE-<device>,<unit>...  
@MODE (210761B:FLOPPY-USER)INSTALL-2S-B:MODE...  
@ND LINK-LOADER  
N11:RENAME-DEFAULT (<directory:dummy-user>)  
N11:EXIT  
@RELEASE-DIRECTORY 210761B<rev>-XX-02S
```

Enter <C-Include> and perform:

```
@ENTER-DIRECTORY 210761B<rev>-XX-03S,FLOPPY-DEVICE-<device>,<unit>...  
@MODE (210761B:FLOPPY-USER)INSTALL-3S-B:MODE...  
@RELEASE-DIRECTORY 210761B<rev>-XX-03S
```

Now the compiler is created on the user <dummy-user>. The compiler may be copied to a <domain-user> with the command COPY-DOMAIN in the Linkage-Loader.

ND SOFTWARE LIBRARY DISKETTE

Containing : C-COMPILER for ND-500

Directory Name : 210761B00-XX-010

User Name : FLOPPY-USER

Nr	File name	Type	T	File access:			Pages	Bytes
				Public	Friend	Own		
0	DESCRIPTION-FILE	DESC	I	R	R	RWACD	12	22527
1	INSTALL-1DA-B00	MODE	I	R	R	RWACD	2	620
2	INSTALL-1DB-B00	MODE	I	R	R	RWACD	3	2049
3	CC-HEADER-A-B00	NRF	I	R	R	RWACD	2	534
4	CC-LIBRARY-A-B00	NRF	I	R	R	RWACD	28	53319
5	CC-500-B00	LINK	I	R	R	RWACD	13	23872
6	CC-500-B00	PSEG	I	R	R	RWACD	62	123167
7	CC-500-B00	DSEG	I	R	R	RWACD	132	266656
8	CAT-B00	C	I	R	R	RWACD	2	850
9	500-CTYPE-B00	H	I	R	R	RWACD	2	851
10	500-ERRNO-B00	H	I	R	R	RWACD	2	1733
11	500-FCNTL-B00	H	I	R	R	RWACD	2	1066
12	500-IOCNTL-B00	H	I	R	R	RWACD	2	574
13	500-MATH-B00	H	I	R	R	RWACD	2	505
14	500-MEMORY-B00	H	I	R	R	RWACD	2	126
15	500-NAN-B00	H	I	R	R	RWACD	2	379
16	500-SETJMP-B00	H	I	R	R	RWACD	2	308
17	500-STDIO-B00	H	I	R	R	RWACD	2	1819
18	500-STRING-B00	H	I	R	R	RWACD	2	382
19	500-VALUES-B00	H	I	R	R	RWACD	3	3940
20	500-VARARGS-B00	H	I	R	R	RWACD	2	442

21 files using 281 pages. 610 pages reserved out of 610 pages.