

NORD SOFTWARE LIBRARY DISKETTE

CONTAINING : PLANC FOR ND-100

DIRECTORY NAME : ND-10309A
USER NAME : FLOPPY-USER

FILE 0 : (ND-10309A:FLOPPY-USER)PLANC-100-A:BPUN:1
FILE 1 : (ND-10309A:FLOPPY-USER)PLANC-1BANK-A:BRF:1
FILE 2 : (ND-10309A:FLOPPY-USER)PLANC-2BANK-A:BRF:1

24 FEBRUARY 1982

PRODUCT	NAME	ND-NUMBER	CATEGORY
	PLANC for ND-100	10309A	P
		ND-NUMBER FOR SOURCE	
		10370A	
ISSUED	DATE 82.02.19	BY (INITIALS)	GAH
COMPUTERS	X 10 ! 12 ! 50 ! X 100!	500!	
INSTR.SET	48 BIT FL.!	32 BIT FL.!	COMMERCIAL!
OP.SYSTEM	X SIN III VS!	SIN III RT!	ALONE
DOCUMENTATION	TITLE: Planc Reference Manual	NUMBER: 60.117.03	
PURPOSE	PLANC-100 Compiler		
PROGRAMS (FILES)	PROG.NUMB. NAME	TYPE CONTAINING	
	203452A PLANC-100	BPUN PLANC-100 Compiler	
	203453A PLANC-1BANK	BRF 1 BANK RUNTIME SYSTEM	
	203454A PLANC-2BANK	BRF 2 BANK RUNTIME SYSTEM	

LOADING/OPERATING PROCEDURE, USE

The PLANC compiler consists of the following files:

```

PLANC-100-A:BPUN      SA=0 , RA=1 ; The compiler
PLANC-1BANK-A:BRF    ; Runtime system 1 bank
PLANC-2BANK-A:BRF    ; Runtime system 2 bank

```

Enter the directory on the floppy and copy all the files to user SYSTEM.

Dump the compiler as a reentrant subsystem, using the SINTRAN command:

```
@DUMP-REENTRANT PLANC-100,0,1,<input-file>
```

The PLANC-100 compiler must have a terminal background segment of 128k Words. The background segment size can be changed by the SINTRAN command:

```
@CHANGE-BACKGROUND-SEGMENT-SIZE <terminal number> , 128
```

Note:

The PLANC-100 can not be restarted with @CONTINUE

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THE FOLLOWING LIST CONTAINS A SUMMARY OF SYNTACTICAL RESTRICTIONS IN THE PLANC-100-A VERSION.

- 1) The list expression in the FOR statement can not be an element of a SET ARRAY.
- 2) A statement containing a MACRO call, an INLINE routine call or a \$INCLUDE command, must be terminated by carriage return.
- 3) The IND standard routine can not have as parameter a routine pointer which qualifies a routine with an in-value.
- 4) The ON OVERFLOW statement does not handle integer unsigned values.
- 5) It is impossible to export a family of routines, where the routine-name is equal to the name of a PLANC predefined standard routine or a PLANC operator.
- 6) No error message is given if there is any inconsistency between the routine modifiers in a routine predeclaration and the routine declaration.
- 7) The actual parameters of a macro can not be enclosed in the double quote character.
- 8) The compiler does not check for multiple predeclarations of a variable.
- 9) No error message is given if the standard routine ADDR is used with a local-/inline routine as parameter.
- 10) The standard routines MININDEX, MAXINDEX and IN can not be applied on the parameters within a routine with the STANDARD modifier. The compiler does not give any error messages.
- 11) The following type declaration is illegal, and the compiler does not give any error message:


```

      TYPE A=RECORD .....ENDRECORD
      TYPE B=A           % illegal type declaration.
      
```
- 12) The access modifiers of a formal parameter type are not relevant when declaring routines with equal names. Example:


```

      A. ROUTINE VOID, VOID(INTEGER ): RUT?
      B. ROUTINE VOID, VOID(INTEGER WRITE): RUT?
      
```

 The compiler can not distinguish between declaration A. and B.

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- 13) The lower bound value of the integer array in the <NEW data-type IN integer array> standard routine, must be zero if the DISPOSE standard routine is applied on the following types: INTEGER4, REAL, REAL8 and RECORD ARRAY.
- 14) The \$COMPILE command and the <source file> must be separated with at least one space.
- 15) If the operators AND, OR, XOR or NOT are used in a variable initiation statement, then the entire expression must be enclosed in parentheses.
- 16) It is illegal to declare a family of routines with the INLINE modifier.
- 17) There is an error in example 1.1 in the PLANC Reference Manual. Substitute the first line, MODULE mod, with MODULE mud.