



```

FFFFFFFFF 000000 RRRRRRRR RRRRRRRR EEEEEEEEE AAAAAA DDDDDDD SSSSSSS NN NN
FFFFFFFFF 000000 RRRRRRRR RRRRRRRR EEEEEEEEE AAAAAA DDDDDDD SSSSSSS NN NN
FF 00 00 RR RR RR RR EE AA AA DD DD SS NN NN
FF 00 00 RR RR RR RR EE AA AA DD DD SS NN NN
FF 00 00 RR RR RR RR EE AA AA DD DD SS NN NN
FFFFFFFF 00 00 RRRRRRRR RRRRRRRR EEEEEEEE AA AA DD DD SSSSSS NN NN
FFFFFFFF 00 00 RRRRRRRR RRRRRRRR EEEEEEEE AA AA DD DD SSSSSS NN NN
FF 00 00 RR RR RR RR EE AAAAAAAAAA DD DD SS NN NNNN
FF 00 00 RR RR RR RR EE AAAAAAAAAA DD DD SS NN NNNN
FF 00 00 RR RR RR RR EE AA AA DD DD SS NN NN
FF 00 00 RR RR RR RR EE AA AA DD DD SS NN NN
FF 000000 RR RR RR RR EEEEEEEEE AA AA DDDDDDD SSSSSSS NN NN
FF 000000 RR RR RR RR EEEEEEEEE AA AA DDDDDDD SSSSSSS NN NN

```

```

LL IIIIII SSSSSSS
LL IIIIII SSSSSSS
LL II SS
LL II SS
LL II SS
LL II SSSSSS
LL II SSSSSS
LL II SS
LL II SS
LL II SS
LL IIIIII SSSSSSS
LLLLLLLLL IIIIII SSSSSSS
LLLLLLLLL IIIIII SSSSSSS

```

(2) 57  
(3) 89

DECLARATIONS  
FOR\$READ\_SN - READ sequential NAMELIST

\*\*



```
0000 1 .TITLE FOR$READ_SN - FORTRAN READ Sequential NAMELIST
0000 2 .IDENT /1-001/ ; File: FORREADSN.MAR, Edit: SBL1001
0000 3
0000 4
0000 5 :*****
0000 6 :*
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0000 24 :*
0000 25 :*
0000 26 :*****
0000 27 :
0000 28 :
0000 29 :++
0000 30 : FACILITY: FORTRAN Language Support
0000 31 :
0000 32 : ABSTRACT:
0000 33 :
0000 34 : This module contains FOR$READ_SN, the user interface to the FORTRAN
0000 35 : I/O Run-Time Library which begins a READ NAMELIST statement.
0000 36 :
0000 37 : ENVIRONMENT: Runs at any access mode, AST Reentrant
0000 38 :
0000 39 : MAINTENANCE NOTE:
0000 40 : The transfer vector (RTLVECTOR+ALLGBL) must have the following:
0000 41 :
0000 42 : .TRANSFER FOR$READ_SN
0000 43 : .MASK FOR$$IO_BEG
0000 44 : JMP FOR$READ_SN+2
0000 45 :
0000 46 : This puts the correct mask in entry vector, that is FOR$$IO_BEG entry mask.
0000 47 : Furthermore this module must only use R0 and R1
0000 48 : since any other register might not be in the entry mask for FOR$$IO_BEG.
0000 49 :
0000 50 : AUTHOR: Steven B. Lionel, CREATION DATE: 21-July-1980
0000 51 :
0000 52 : MODIFIED BY:
0000 53 :
0000 54 : 1-001 - Original. SBL 21-July-1980
0000 55 :--
```

```
0000 57      .SBTTL  DECLARATIONS
0000 58      :
0000 59      : LIBRARY MACRO CALLS:
0000 60      :
0000 61      $ISBDEF          ; Intra-statement block definitions
0000 62      :
0000 63      : EXTERNAL DECLARATIONS:
0000 64      :
0000 65      .DSABL  GBL          ; Force all external symbols to be declared
0000 66      .EXTRN  FOR$$IO  BEG    ; Common initialization routine
0000 67      .EXTRN  FOR$$UDF_RNO, FOR$$UDF_RN9 ; To pull in weak references
0000 68      .EXTRN  FOR$$REC_RSN0, FOR$$REC_RSN1 ; To pull in weak references
0000 69      :
0000 70      :
0000 71      : MACROS:
0000 72      :
0000 73      :     NONE
0000 74      :
0000 75      : EQUATED SYMBOLS:
0000 76      :
0000 77      :     NONE
0000 78      :
0000 79      : OWN STORAGE:
0000 80      :
0000 81      :     NONE
0000 82      :
0000 83      : PSECT DECLARATIONS:
0000 84      :
00000000 85      .PSECT  _FOR$CODE PIC, USR, CON, REL, LCL, SHR, -
0000 86      EXE, RD, NOWRT, LONG
0000 87
```



```

0000 89      .SBTTL  FOR$READ_SN - READ sequential NAMELIST
0000 90      :++
0000 91      : FUNCTIONAL DESCRIPTION:
0000 92      :
0000 93      :       This routine begins a FORTRAN READ NAMELIST statement.
0000 94      :
0000 95      : CALLING SEQUENCE:
0000 96      :
0000 97      :       CALL FOR$READ_SN (unit.rl.v, namelist.rlu.ra [, err_eql.j.r [, end_eql.j.r]])
0000 98      :
0000 99      : FORMAL PARAMETERS:
0000 100     :
0000 101     :       unit           - logical unit number
0000 102     :       namelist       - address of namelist descriptor block (see below)
0000 103     :       err_eql        - address of instruction to branch to if an error occurs
0000 104     :       end_eql        - address of instruction to branch to if an end-of-file
0000 105     :                   is found
0000 106     :
0000 107     : IMPLICIT INPUTS:
0000 108     :
0000 109     :       NONE
0000 110     :
0000 111     : IMPLICIT OUTPUTS:
0000 112     :
0000 113     :       NONE
0000 114     :
0000 115     : COMPLETION STATUS:
0000 116     :
0000 117     :       NONE
0000 118     :
0000 119     : SIDE EFFECTS:
0000 120     :
0000 121     :       One READ NAMELIST statement will be executed.
0000 122     :
0000 123     :--
0000 124     :
0000 125     FOR$READ_SN::
0000 126     .MASK  FOR$$IO_BEG
50 14 0000' 0002 127     MOVZBL #ISB$K ST TY RSN, R0      ; Move statement type
00000002'GF 17 0005 128     JMP      G^FOR$$IO_BEG+2      ; Jump to FOR$$IO_BEG
000B 129
000B 130     .END                                     ; End of module FOR$READ_SN
  
```

```

FOR$$IO_BEG          ***** X 00
FOR$$REC_RSNO       ***** X 00
FOR$$REC_RSN1       ***** X 00
FOR$$UDF_RNO        ***** X 00
FOR$$UDF_RN9        ***** X 00
FOR$READ_SN         00000000 RG 01
ISB$K_ST_TY_RSN    = 00000014
    
```

-----  
 ! Psect synopsis !  
 -----

PSECT name	Allocation	PSECT No.	Attributes
ABS	00000000 ( 0.)	00 ( 0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
_FOR\$CODE	0000000B ( 11.)	01 ( 1.)	PIC USR CON REL LCL SHR EXE RD NOWRT NOVEC LONG

-----  
 ! Performance indicators !  
 -----

Phase	Page faults	CPU Time	Elapsed Time
Initialization	31	00:00:00.05	00:00:00.90
Command processing	119	00:00:00.61	00:00:04.58
Pass 1	122	00:00:01.09	00:00:04.06
Symbol table sort	0	00:00:00.19	00:00:01.01
Pass 2	37	00:00:00.37	00:00:02.83
Symbol table output	2	00:00:00.01	00:00:00.01
Psect synopsis output	2	00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	315	00:00:02.34	00:00:13.55

The working set limit was 1050 pages.  
 5740 bytes (12 pages) of virtual memory were used to buffer the intermediate code.  
 There were 10 pages of symbol table space allocated to hold 168 non-local and 0 local symbols.  
 130 source lines were read in Pass 1, producing 8 object records in Pass 2.  
 8 pages of virtual memory were used to define 1 macro.

-----  
 ! Macro library statistics !  
 -----

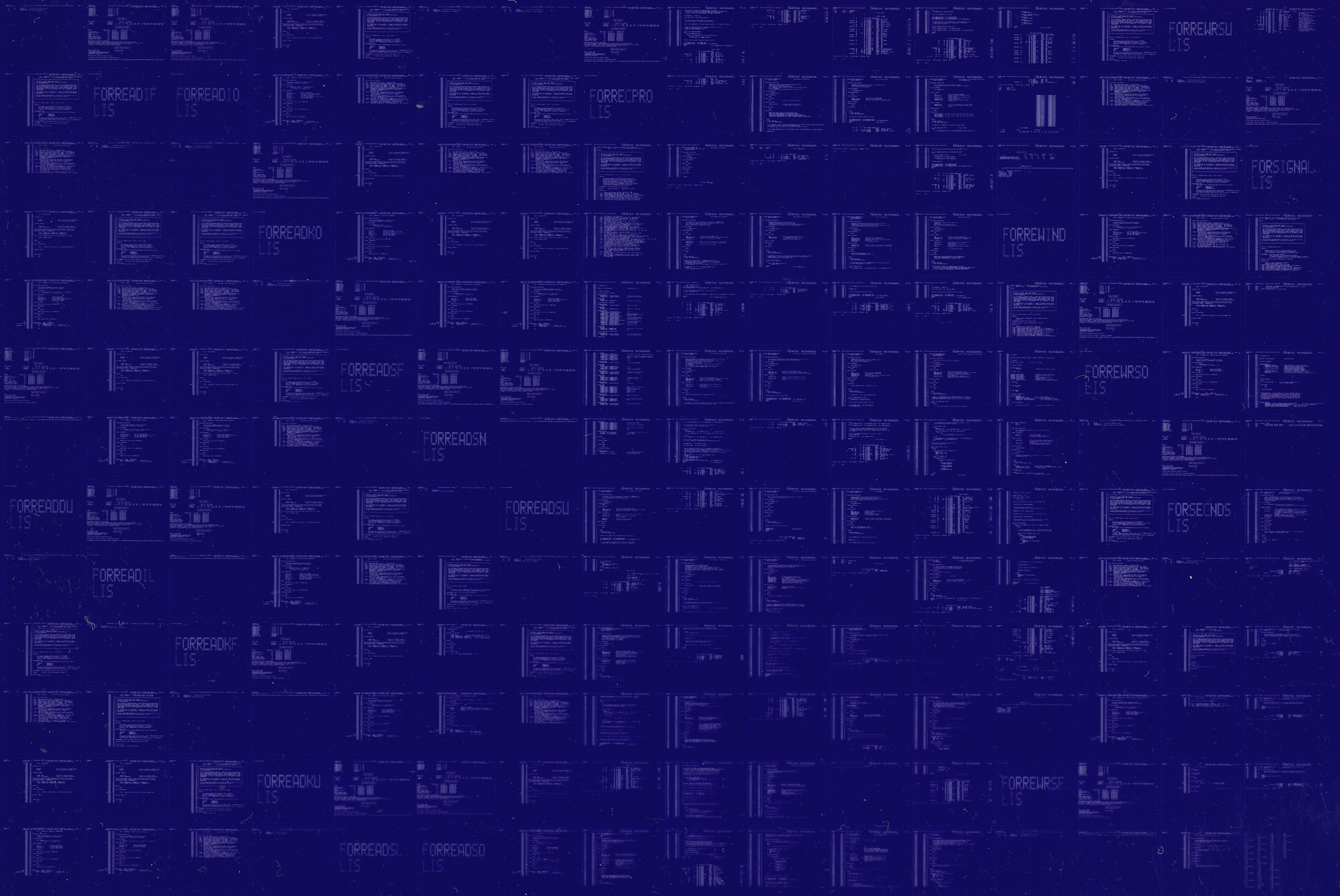
Macro library name	Macros defined
_\$255\$DUA28:[FORRTL.OBJ]FORRTL.MLB;1	1
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	0
TOTALS (all libraries)	1

164 GETS were required to define 1 macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL,TRACEBACK)/LIS=LIS\$:FORREADSN/OBJ=OBJ\$:FORREADSN MSRC\$:FORREADSN/UPDATE=(ENH\$:FORREADSN)+LI





FORREWSU  
LIS

FORREADIF  
LIS

FORREADIO  
LIS

FORREC PRO  
LIS

FOR SIGNAL  
LIS

FORREADKO  
LIS

FORREWIND  
LIS

FORREADSF  
LIS

FORREWSO  
LIS

FORREADSN  
LIS

FORSECNDS  
LIS

FORREADDU  
LIS

FORREADSU  
LIS

FORREADIL  
LIS

FORREADKF  
LIS

FORREADKU  
LIS

FORREWSF  
LIS

FORREADSL  
LIS

FORREADSO  
LIS