



```

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 II SS
LLLLLLLLLL IIIIII SSSSSSS
LLLLLLLLLL 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_RN0, 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
```



```

FOR$IO_BEG          ***** X 00
FOR$REC_RSN0       ***** X 00
FOR$REC_RSN1       ***** X 00
FOR$UDF_RN0        ***** 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



This image displays a grid of 144 small screenshots, arranged in 12 rows and 12 columns. Each screenshot shows a VAX/VMS command-line interface with a specific 'FORRE' command and its corresponding output. The commands are as follows:

- Row 1: FORREWSU LIS
- Row 2: FORREADIF LIS, FORREADIO LIS, FORRECPR LIS
- Row 3: FORSIGNAL LIS
- Row 4: FORREADKO LIS, FORREWIND LIS
- Row 5: FORREADSF LIS, FORREWSO LIS
- Row 6: FORREADSN LIS
- Row 7: FORREADDU LIS, FORREADSU LIS, FORSECNDS LIS
- Row 8: FORREADIL LIS
- Row 9: FORREADKF LIS
- Row 10: FORREADKU LIS, FORREWSF LIS
- Row 11: FORREADSL LIS, FORREADSO LIS

The output for each command typically includes system status information, file names, and various numerical values, presented in a structured, tabular format.