


```

FFFFFFFFF 000000 RRRRRRRR WW WW RRRRRRRR IIIIII TTTTTTTTT SSSSSSSS NN NN
FFFFFFFFF 000000 RRRRRRRR WW WW RRRRRRRR IIIIII TTTTTTTTT SSSSSSSS NN NN
FF 00 00 RR RR WW WW RR RR II TT SS NN NN
FF 00 00 RR RR WW WW RR RR II TT SS NN NN
FF 00 00 RR RR WW WW RR RR II TT SS NNNN NN
FF 00 00 RR RR WW WW RR RR II TT SS NNNN NN
FFFFFFFFF 00 00 RRRRRRRR WW WW RRRRRRRR IIIIII TTTTTTTTT SSSSSS NN NN
FFFFFFFFF 00 00 RRRRRRRR WW WW RRRRRRRR IIIIII TTTTTTTTT SSSSSS NN NN
FF 00 00 RR RR WW WW WW RR RR II TT SS NN NN
FF 00 00 RR RR WW WW WW RR RR II TT SS NN NN
FF 00 00 RR RR WWW WWW RR RR II TT SS NN NN
FF 00 00 RR RR WWW WWW RR RR II TT SS NN NN
FF 000000 RR RR WW WW RR RR IIIIII TTTTTTTTT SSSSSSSS NN NN
FF 000000 RR RR WW WW RR RR IIIIII TTTTTTTTT SSSSSSSS NN NN

```

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LL IIIIII SSSSSSSS
LL IIIIII SSSSSSSS
LL II SS
LL II SS
LL II SS
LL II SS
LL II SSSSSS
LL II SSSSSS
LL II SS
LL II SS
LL II SS
LLLLLLLLLL IIIIII SSSSSSSS
LLLLLLLLLL IIIIII SSSSSSSS

```

FO
VI
M

(2) 59
(3) 91

DECLARATIONS
FOR\$WRITE_SN - Write sequential NAMELIST

```
0000 1 .TITLE FOR$WRITE_SN - FORTRAN WRITE Sequential NAMELIST
0000 2 .IDENT /1-002/ ; File: FORWRITSN.MAR, Edit: SBL1002
0000 3
0000 4
0000 5 :*****
0000 6 :*
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0000 24 :*
0000 25 :*
0000 26 :*****
0000 27 :
0000 28 :
0000 29 :++
0000 30 : FACILITY: FORTRAN Language Support
0000 31 :
0000 32 : ABSTRACT:
0000 33 :
0000 34 : This module contains FOR$WRITE_SN, the user interface to the FORTRAN
0000 35 : I/O Run-Time Library which begins a WRITE 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$WRITE_SN
0000 43 : .MASK FOR$$IO_BEG
0000 44 : JMP FOR$WRITE_SN+2
0000 45 :
0000 46 : This puts the correct mask in entry vector, that is FOR$$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 : 1-002 - Second colon after entry point name accidentally left off; replace.
0000 56 : SBL 11-Nov-1980
0000 57 :--
```

```
0000 59 .SBTTL DECLARATIONS
0000 60 :
0000 61 : LIBRARY MACRO CALLS:
0000 62 :
0000 63 $ISBDEF ; Intra-statement block definitions
0000 64 :
0000 65 : EXTERNAL DECLARATIONS:
0000 66 :
0000 67 .DSABL GBL ; Force all external symbols to be declared
0000 68 .EXTRN FOR$$IO_BEG ; Common initialization routine
0000 69 .EXTRN FOR$$UDF_WNO, FOR$$UDF_WN9 ; To pull in weak references
0000 70 .EXTRN FOR$$REC_WSN0, FOR$$REC_WSN1 ; To pull in weak references
0000 71 :
0000 72 :
0000 73 : MACROS:
0000 74 :
0000 75 : NONE
0000 76 :
0000 77 : EQUATED SYMBOLS:
0000 78 :
0000 79 : NONE
0000 80 :
0000 81 : OWN STORAGE:
0000 82 :
0000 83 : NONE
0000 84 :
0000 85 : PSECT DECLARATIONS:
0000 86 :
00000000 87 .PSECT _FOR$CODE PIC, USR, CON, REL, LCL, SHR, -
0000 88 EXE, RD, NOWRT, LONG
0000 89
```

```
0000 91 .SBTTL FOR$WRITE_SN - Write sequential NAMELIST
0000 92 :++
0000 93 : FUNCTIONAL DESCRIPTION:
0000 94 :
0000 95 :     This routine begins a FORTRAN WRITE NAMELIST statement.
0000 96 :
0000 97 : CALLING SEQUENCE:
0000 98 :
0000 99 :     CALL FOR$WRITE_SN (unit.rl.v, namelist.rlu.ra [, err_eql.j.r])
0000 100 :
0000 101 : FORMAL PARAMETERS:
0000 102 :
0000 103 :     unit           - logical unit number
0000 104 :     namelist       - address of namelist descriptor block (see below)
0000 105 :     err_eql        - address of instruction to branch to if an error occurs
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 WRITE NAMELIST statement will be executed.
0000 122 :
0000 123 :--
0000 124 :
0000 125 FOR$WRITE SN::
0000 126 .MASK FOR$$IO_BEG
50 13 0000' 0002 127 MOVZBL #ISB$K ST TY WSN, R0 ; Move statement type
00000002'GF 17 0005 128 JMP G^FOR$$IO_BEG+2 ; Jump to FOR$$IO_BEG
000B 129
000B 130 .END ; End of module FOR$WRITE_SN
```

```

FOR$$IO BEG          ***** X 00
FOR$$REC_WSNO       ***** X 00
FOR$$REC_WSN1       ***** X 00
FOR$$UDF_WNO        ***** X 00
FOR$$UDF_WN9        ***** X 00
FOR$WRITE_SN        00000000 RG 01
ISB&K_ST_TY_WSN    = 00000013
  
```

 ! 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	37	00:00:00.09	00:00:00.91
Command processing	121	00:00:00.50	00:00:04.09
Pass 1	122	00:00:01.13	00:00:04.89
Symbol table sort	0	00:00:00.17	00:00:00.47
Pass 2	38	00:00:00.39	00:00:01.81
Symbol table output	2	00:00:00.02	00:00:00.02
Psect synopsis output	2	00:00:00.02	00:00:00.08
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	324	00:00:02.32	00:00:12.27

The working set limit was 1050 pages.
 5742 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\$:FORWRITSN/OBJ=OBJ\$:FORWRITSN MSRC\$:FORWRITSN/UPDATE=(ENH\$:FORWRITSN)+LI

