


```

FFFFFFFFF 000000 RRRRRRRR RRRRRRRR AAAAAA BBBB8888
FFFFFFFFF 000000 RRRRRRRR RRRRRRRR AAAAAA BBBB8888
FF        00      00 RR      RR RR      RR AA      AA BB      BB
FF        00      00 RR      RR RR      RR AA      AA BB      BB
FF        00      00 RR      RR RR      RR AA      AA BB      BB
FF        00      00 RR      RR RR      RR AA      AA BB      BB
FFFFFFFFF 00      00 RRRRRRRR RRRRRRRR AA      AA BBBB8888
FFFFFFFFF 00      00 RRRRRRRR RRRRRRRR AA      AA BBBB8888
FF        00      00 RR  RR  RR  RR  AA      AA AAAAAAAAAA BB      BB
FF        00      00 RR  RR  RR  RR  AA      AA AAAAAAAAAA BB      BB
FF        00      00 RR  RR  RR  RR  AA      AA BB      BB
FF        00      00 RR  RR  RR  RR  AA      AA BB      BB
FF        00      00 RR  RR  RR  RR  AA      AA BB      BB
FF        000000 RR      RR RR      RR AA      AA BBBB8888
FF        000000 RR      RR RR      RR AA      AA BBBB8888

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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
LL        II      SS
LLLLLLLLL IIIIII SSSSSSSS
LLLLLLLLL IIIIII SSSSSSSS

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```

0001 0 %TITLE 'FOR$RAB - Return pointer to RAB of unit'
0002 0 MODULE FOR$RAB (
0003 0 IDENT = '1-002' ! File: FORRAB.B32 Edit: SBL1002
0004 0 ) =
0005 1 BEGIN
0006 1
0007 1 *****
0008 1 *
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0025 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL. *
0026 1 *
0027 1 *
0028 1 *****
0029 1
0030 1
0031 1 ++
0032 1 FACILITY: FORTRAN Language Support
0033 1
0034 1 ABSTRACT:
0035 1
0036 1 This module contains a procedure which returns a pointer to
0037 1 the RAB of a unit.
0038 1
0039 1 ENVIRONMENT: User mode - AST reentrant
0040 1
0041 1 AUTHOR: Steven B. Lionel, CREATION DATE: 13-Jan-1982
0042 1
0043 1 MODIFIED BY:
0044 1
0045 1 1-001 - Original. SBL 13-Jan-1982
0046 1 1-002 - Use prologue file. SBL 1-Nov-1982
0047 1 --
0048 1

```

```
: 50      0049 1 %SBTTL 'Declarations'  
: 51      0050 1 |  
: 52      0051 1 | PROLOGUE FILE:  
: 53      0052 1 |  
: 54      0053 1 |  
: 55      0054 1 REQUIRE 'RTLIN:FORPROLOG';           ! FOR$ definitions  
: 56      0120 1 |  
: 57      0121 1 |  
: 58      0122 1 | TABLE OF CONTENTS:  
: 59      0123 1 |  
: 60      0124 1 |  
: 61      0125 1 FORWARD ROUTINE  
: 62      0126 1   FOR$RAB;                               ! Return pointer to RAB  
: 63      0127 1 |  
: 64      0128 1 |  
: 65      0129 1 | MACROS:  
: 66      0130 1 |  
: 67      0131 1 |     NONE  
: 68      0132 1 |  
: 69      0133 1 | EQUATED SYMBOLS:  
: 70      0134 1 |  
: 71      0135 1 |     NONE  
: 72      0136 1 |  
: 73      0137 1 | FIELDS:  
: 74      0138 1 |  
: 75      0139 1 |     NONE  
: 76      0140 1 |  
: 77      0141 1 | OWN STORAGE:  
: 78      0142 1 |  
: 79      0143 1 |     NONE  
: 80      0144 1 |  
: 81      0145 1 | EXTERNAL REFERENCES:  
: 82      0146 1 |  
: 83      0147 1 |  
: 84      0148 1 EXTERNAL ROUTINE  
: 85      0149 1   FOR$$CB_FETCH: CALL CCB NOVALUE,       ! Get CCB of unit  
: 86      0150 1   FOR$$ERR_OPECLO: NOVALUE;              ! Error handler
```

```

: 88      0151 1 %SBTTL 'FOR$RAB - Return pointer to RAB of unit'
: 89      0152 1 GLOBAL ROUTINE FOR$RAB (
: 90      0153 1     LUN: REF VECTOR [, LONG]           ! Unit to return RAB of
: 91      0154 1     ) =
: 92      0155 1
: 93      0156 1 !++
: 94      0157 1 !FUNCTIONAL DESCRIPTION:
: 95      0158 1
: 96      0159 1     This procedure returns as its function value a pointer to
: 97      0160 1     the RAB of a FORTRAN LUN.
: 98      0161 1
: 99      0162 1 !CALLING SEQUENCE:
: 100     0163 1
: 101     0164 1     RAB-pointer.wa.v = FOR$RAB (LUN.rl.r)
: 102     0165 1
: 103     0166 1 !FORMAL PARAMETERS:
: 104     0167 1
: 105     0168 1     LUN - The logical unit number for which the address of the
: 106     0169 1     RAB is to be returned. Passed by reference.
: 107     0170 1
: 108     0171 1 !IMPLICIT INPUTS:
: 109     0172 1
: 110     0173 1     NONE
: 111     0174 1
: 112     0175 1 !IMPLICIT OUTPUTS:
: 113     0176 1
: 114     0177 1     NONE
: 115     0178 1
: 116     0179 1 !ROUTINE VALUE:
: 117     0180 1
: 118     0181 1     The address of the RAB for the unit, or zero if the unit is not
: 119     0182 1     a FORTRAN unit.
: 120     0183 1
: 121     0184 1 !SIDE EFFECTS:
: 122     0185 1
: 123     0186 1     NONE
: 124     0187 1
: 125     0188 1 !--
: 126     0189 1
: 127     0190 2     BEGIN
: 128     0191 2
: 129     0192 2     LOCAL
: 130     0193 2         UNWIND_ACTION: VOLATILE;
: 131     0194 2
: 132     0195 2     GLOBAL REGISTER
: 133     0196 2         CCB = 11: REF $FOR$CCB_DECL;
: 134     0197 2
: 135     0198 2     !+
: 136     0199 2     ! Enable error handler. Specify no operation on an unwind.
: 137     0200 2     !-
: 138     0201 2
: 139     0202 2     ENABLE FOR$$ERR_OPECLO (UNWIND ACTION);
: 140     0203 2     UNWIND_ACTION = FOR$K_UNWINDNOP;
: 141     0204 2
: 142     0205 2     !+
: 143     0206 2     ! Call FOR$$CB_FETCH to get the CCB of the LUN. It will signal
: 144     0207 2     ! an error if the LUN is invalid, and will place a zero in CCB if
```

FOR\$RAB
1-002

FOR\$RAB - Return pointer to RAB of unit
FOR\$RAB - Return pointer to RAB of unit

H 15
16-Sep-1984 00:41:58
14-Sep-1984 12:32:22

VAX-11 Bliss-32 V4.0-742
[FORRTL.SRC]FORRAB.B32;1

Page 4
(3)

```

: 145      0208 2      ! the unit is not owned by FORTRAN.
: 146      0209 2      !-
: 147      0210 2      !-
: 148      0211 2      FOR$$CB_FETCH (.LUN [0]);
: 149      0212 2      !-
: 150      0213 2      RETURN .CCB;
: 151      0214 2      !-
: 152      0215 1      END;

```

```

! RAB address is CCB address
! End of routine FOR$RAB

```

```

.TITLE FOR$RAB FOR$RAB - Return pointer to RAB of unit
.IDENT \1-002\
.EXTRN FOR$$CB_FETCH, FOR$$ERR_OPECLO
.PSECT _FOR$CODE,NOWRT, SHR, PIC,2

```

```

                                0800 00000
                                7E D4 00002
                                6D 0012 CF DE 00004
                                6E 01 D0 00009
                                04 BC DD 0000C
00000000G 00 01 FB 0000F
                                5B D0 00016
                                04 00019
                                0000 0001A 1$:
                                50 08 AC D0 0001C
                                50 04 A0 D0 00020
                                FC A0 9F 00024
                                01 DD 00027
                                5E DD 00029
00000000G 7E 04 AC 7D 0002B
                                03 FB 0002F
                                04 00036

```

```

.ENTRY FOR$RAB, Save R11
CLRL UNWIND_ACTION
MOVAL 1$, (FP)
MOVL #1, UNWIND_ACTION
PUSHL @LUN
CALLS #1, FOR$$CB_FETCH
MOVL CCB, R0
RET
.WORD Save nothing
MOVL 8(AP), R0
MOVL 4(R0), R0
PUSHAB UNWIND_ACTION
PUSHL #1
PUSHL SP
MOVQ 4(AP), -(SP)
CALLS #3, FOR$$ERR_OPECLO
RET

```

```

: 0152
: 0190
: 0203
: 0211
: 0213
: 0215
: 0190
:
:
:

```

; Routine Size: 55 bytes, Routine Base: _FOR\$CODE + 0000

; 153 0216 1 !<BLF/PAGE>

FOR\$RAB
1-002

FOR\$RAB - Return pointer to RAB of unit
FOR\$RAB - Return pointer to RAB of unit

I 15
16-Sep-1984 00:41:58
14-Sep-1984 12:32:22

VAX-11 BlISS-32 V4.0-742
[FORRTL.SRC]FORRAB.B32;1

Page 5
(4)

: 155 0217 1 END
: 156 0218 1
: 157 0219 0 ELUDOM

! End of module FOR\$RAB

PSECT SUMMARY

Name	Bytes	Attributes
_FOR\$CODE	55	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(2)

Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	0	0	581	00:01.1
_\$255\$DUA28:[FORRTL.OBJ]FORLIB.L32;1	711	179	25	52	00:00.6
_\$255\$DUA28:[FORRTL.OBJ]RTLLIB.L32;1	36	0	0	8	00:00.1

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/NOTRACE/LIS=LIS\$:FORRAB/OBJ=OBJ\$:FORRAB MSRC\$:FORRAB/UPDATE=(ENH\$:FORRAB)

: Size: 55 code + 0 data bytes
: Run Time: 00:04.4
: Elapsed Time: 00:13.8
: Lines/CPU Min: 2979
: Lexemes/CPU-Min: 4136
: Memory Used: 63 pages
: Compilation Complete

[Screenshot 1]	[Screenshot 2]	[Screenshot 3]	[Screenshot 4]	[Screenshot 5]	[Screenshot 6]	[Screenshot 7]	[Screenshot 8]	[Screenshot 9]	[Screenshot 10]	[Screenshot 11]	[Screenshot 12]
[Screenshot 13]	[Screenshot 14]	[Screenshot 15]	[Screenshot 16]	[Screenshot 17]	[Screenshot 18]	[Screenshot 19]	[Screenshot 20]	[Screenshot 21]	[Screenshot 22]	[Screenshot 23]	[Screenshot 24]
[Screenshot 25]	[Screenshot 26]	[Screenshot 27]	[Screenshot 28]	[Screenshot 29]	[Screenshot 30]	[Screenshot 31]	[Screenshot 32]	[Screenshot 33]	[Screenshot 34]	[Screenshot 35]	[Screenshot 36]
[Screenshot 37]	[Screenshot 38]	[Screenshot 39]	[Screenshot 40]	[Screenshot 41]	[Screenshot 42]	[Screenshot 43]	[Screenshot 44]	[Screenshot 45]	[Screenshot 46]	[Screenshot 47]	[Screenshot 48]
[Screenshot 49]	[Screenshot 50]	[Screenshot 51]	[Screenshot 52]	[Screenshot 53]	[Screenshot 54]	[Screenshot 55]	[Screenshot 56]	[Screenshot 57]	[Screenshot 58]	[Screenshot 59]	[Screenshot 60]
[Screenshot 61]	[Screenshot 62]	[Screenshot 63]	[Screenshot 64]	[Screenshot 65]	[Screenshot 66]	[Screenshot 67]	[Screenshot 68]	[Screenshot 69]	[Screenshot 70]	[Screenshot 71]	[Screenshot 72]
[Screenshot 73]	[Screenshot 74]	[Screenshot 75]	[Screenshot 76]	[Screenshot 77]	[Screenshot 78]	[Screenshot 79]	[Screenshot 80]	[Screenshot 81]	[Screenshot 82]	[Screenshot 83]	[Screenshot 84]
[Screenshot 85]	[Screenshot 86]	[Screenshot 87]	[Screenshot 88]	[Screenshot 89]	[Screenshot 90]	[Screenshot 91]	[Screenshot 92]	[Screenshot 93]	[Screenshot 94]	[Screenshot 95]	[Screenshot 96]
[Screenshot 97]	[Screenshot 98]	[Screenshot 99]	[Screenshot 100]	[Screenshot 101]	[Screenshot 102]	[Screenshot 103]	[Screenshot 104]	[Screenshot 105]	[Screenshot 106]	[Screenshot 107]	[Screenshot 108]
[Screenshot 109]	[Screenshot 110]	[Screenshot 111]	[Screenshot 112]	[Screenshot 113]	[Screenshot 114]	[Screenshot 115]	[Screenshot 116]	[Screenshot 117]	[Screenshot 118]	[Screenshot 119]	[Screenshot 120]