



```

FFFFFFFFF 000000 RRRRRRRR AAAAAA SSSSSSSS SSSSSSSS 000000 CCCCCCCC
FFFFFFFFF 000000 RRRRRRRR AAAAAA SSSSSSSS SSSSSSSS 000000 CCCCCCCC
FF          00      00 RR      RR AA      AA SS          SS          00      00 CC
FF          00      00 RR      RR AA      AA SS          SS          00      00 CC
FF          00      00 RR      RR AA      AA SS          SS          00      00 CC
FF          00      00 RR      RR AA      AA SS          SS          00      00 CC
FFFFFFFFF 00      00 RRRRRRRR AA      AA SSSSSS SSSSSS 00      00 CC
FFFFFFFFF 00      00 RRRRRRRR AA      AA SSSSSS SSSSSS 00      00 CC
FF          00      00 RR RR      AAAAAAAAAA SS          SS          00      00 CC
FF          00      00 RR RR      AAAAAAAAAA SS          SS          00      00 CC
FF          00      00 RR RR      AA      AA SS          SS          00      00 CC
FF          00      00 RR RR      AA      AA SS          SS          00      00 CC
FF          00      00 RR RR      AA      AA SS          SS          00      00 CC
FF          000000 RR      RR AA      AA SSSSSSSS SSSSSSSS 000000 CCCCCCCC
FF          000000 RR      RR AA      AA SSSSSSSS SSSSSSSS 000000 CCCCCCCC

```

```

LL          111111 SSSSSSSS
LL          111111 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
LLLLLLLLLL 111111 SSSSSSSS
LLLLLLLLLL 111111 SSSSSSSS

```

```

1 0001 0 MODULE FOR$$ASSOC (%TITLE'Update FORTRAN associated variable'
2 0002 0 IDENT = '1-003' ! File name: FORASSOC.B32 Edit: SBL1003
3 0003 0 ) =
4 0004 1 BEGIN
5 0005 1
6 0006 1
7 0007 1 *****
8 0008 1 *
9 0009 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *
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26 0026 1 *
27 0027 1 *
28 0028 1 *****
29 0029 1
30 0030 1 **
31 0031 1 FACILITY. FORTRAN Support Library - not user callable
32 0032 1
33 0033 1 ABSTRACT:
34 0034 1
35 0035 1 This module contains routine FOR$$ASSOC: store record
36 0036 1 number from the LUB into the users (optional) associated variable.
37 0037 1
38 0038 1 ENVIRONMENT: User access mode; AST level or not.
39 0039 1
40 0040 1 AUTHOR: Jonathan M. Taylor; CREATION DATE: 8-JUL-77
41 0041 1
42 0042 1 MODIFIED BY:
43 0043 1
44 0044 1 Jonathan M. Taylor, 8-JUL-77 : VERSION 0
45 0045 1 0-1 - original
46 0046 1 0-2 - Make GTR comparison unsigned JMT 2-OCT-77
47 0047 1 0-3 - Modified to get rid of routine FOR$$DIR_CHKNUM, now done at
48 0048 1 IOBEG time. Module name changed from FOR$$DIR_ACC. JMT 16-OCT-77
49 0049 1 0-4 - Global register CCB. JMT 8-Apr-78
50 0050 1 0-05 - Change REQUIRE files for VAX system build. DGP 28-Apr-78
51 0051 1 0-06 - Change file name to FORASSOC.B32, and change the names of the
52 0052 1 REQUIRE files similarly. JBS 14-NOV-78
53 0053 1 1-001 - Update version number and copyright notice. JBS 16-NOV-78
54 0054 1 1-002 - Change REQUIRE file names from FOR... to OTS... JBS 06-DEC-78
55 0055 1 1-003 - Use prologue file. SBL 24-Jun-1983
56 0056 1 --

```

```
58 0057 1 |  
59 0058 1 | PROLOGUE FILE:  
60 0059 1 |  
61 0060 1 |  
62 0061 1 | REQUIRE 'RTLIN:FORPROLOG';           ! FOR$ definitions  
63 0127 1 |  
64 0128 1 |  
65 0129 1 | TABLE OF CONTENTS  
66 0130 1 |  
67 0131 1 |  
68 0132 1 | FORWARD ROUTINE  
69 0133 1 |  
70 0134 1 |     FOR$$ASSOC: CALL_CCB NOVALUE;     ! Store users associated variable  
71 0135 1 |  
72 0136 1 |  
73 0137 1 | MACROS:  
74 0138 1 |  
75 0139 1 |     NONE  
76 0140 1 |  
77 0141 1 |  
78 0142 1 | EQUATED SYMBOLS:  
79 0143 1 |  
80 0144 1 |     NONE  
81 0145 1 |  
82 0146 1 |  
83 0147 1 | OWN STORAGE  
84 0148 1 |  
85 0149 1 |     NONE  
86 0150 1 |  
87 0151 1 |  
88 0152 1 | EXTERNAL REFERENCES:  
89 0153 1 |
```

```
91 0154 1 %SBTTL'Store users associated variable'
92 0155 1 GLOBAL ROUTINE FOR$$ASSOC
93 0156 1 : CALL_CCB NOVALUE =
94 0157 1
95 0158 1 +-+
96 0159 1 FUNCTIONAL DESCRIPTION:
97 0160 1
98 0161 1     If an associated variable is present, store the
99 0162 1     logical record number from the LUB into it.
100 0163 1
101 0164 1 FORMAL PARAMETERS:
102 0165 1
103 0166 1 IMPLICIT INPUTS:
104 0167 1
105 0168 1     OTSSA_CUR_LUB           Pointer to current logical unit
106 0169 1                       block (LUB) used to setup LUB
107 0170 1                       base pointer.
108 0171 1     LUBSA_ASSOC_VAR        Address of assoc. var. or zero if none
109 0172 1     LUB$V_ASS_VAR_L        TRUE iff assoc. var. is a longword value
110 0173 1     LUB$L_RECNO          Current record number
111 0174 1
112 0175 1 IMPLICIT OUTPUTS:
113 0176 1
114 0177 1     assoc. var.             Updated associated variable (if present)
115 0178 1
116 0179 1 ROUTINE VALUE:
117 0180 1
118 0181 1     NONE
119 0182 1
120 0183 1 SIDE EFFECTS:
121 0184 1
122 0185 1     NONE
123 0186 1 --
124 0187 1
125 0188 2 BEGIN
126 0189 2
127 0190 2 EXTERNAL REGISTER
128 0191 2     CCB: REF $FOR$CCB_DECL;
129 0192 2
130 0193 2 +-+
131 0194 2     If an associated variable is used with this file, store the
132 0195 2     record number into it.
133 0196 2 -
134 0197 2
135 0198 2 IF .CCB[LUBSA_ASSOC_VAR] NEQA 0
136 0199 2 THEN
137 0200 2
138 0201 2     BEGIN
139 0202 2     +-+
140 0203 2     If associated variable is a longword, store 32-bits
141 0204 2     -
142 0205 2
143 0206 2     IF .CCB[LUB$V_ASS_VAR_L]
144 0207 2     THEN
145 0208 2     .CCB[LUBSA_ASSOC_VAR] = .CCB[LUB$L_LOG_RECNO]
146 0209 2     ELSE
147 0210 2
```

```

: 148      0211      3
: 149      0212      3
: 150      0213      3
: 151      0214      3
: 152      0215      3
: 153      0216      3
: 154      0217      3
: 155      0218      2
: 156      0219      1

```

|\*  
Else store 16-bits
 (.CCB[LUB\$A\_ASSOC\_VAR])<0,16,0> = .CCB[LUB\$L\_LOG\_RECNO];  
 END;  
 RETURN;  
 END; ! end of routine

.TITLE FOR\$\$ASSOC Update FORTRAN associated variable  
.IDENT \1-003\

.PSECT \_FOR\$CODE,NOWRT, SHR, PIC,2

				0000 00000	.ENTRY FOR\$\$ASSOC, Save nothing	: 0155
	50	DC	AB	D0 00002	MOVL -36(CCB), R0	: 0198
			0E	13 00006	BEQL 2\$	: 0205
05	FD	AB	04	E1 00008	BBC #4, -3(CCB), 1\$	: 0215
	60	E0	AB	D0 0000D	MOVL -32(CCB), (R0)	: 0219
			04	00011	RET	
	60	E0	AB	B0 00012 1\$:	MOVW -32(CCB), (R0)	
			04	00016 2\$:	RET	

: Routine Size: 23 bytes, Routine Base: \_FOR\$CODE + 0000

```

: 157      0220      1
: 158      0221      1 END ! END OF MODULE
: 159      0222      0 ELUDOM

```

PSECT SUMMARY

Name	Bytes	Attributes
_FOR\$CODE	23	NOVEC,NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics

File	Symbols		Percent	Pages Mapped	Processing Time
	Total	Loaded			
_\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	0	0	581	00:01.0
_\$255\$DUA28:[FORRTL.OBJ]FORLIB.L32;1	711	178	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=LISS$:FORASSOC/OBJ=OBJ$:FORASSOC MSRC$:FORASSOC/UPDATE=(ENH$:FORASSOC)  
: Size:          23 code + 0 data bytes  
: Run Time:      00:04.4  
: Elapsed Time: 00:16.1  
: Lines/CPU Min: 3006  
: Lexemes/CPU-Min: 5864  
: Memory Used:  66 pages  
: Compilation Complete
```

COMR50WD  
LIS

FORDATEDS  
LIS

FORDECOMO  
LIS

FORB  
LIS

COMSETST  
LIS

FORASSOC  
LIS

FORCLOSEF  
LIS

FORDATE  
LIS

FORCLOSE  
LIS

FORDECOMP  
LIS

FORDELETE  
LIS

COMRAD50  
LIS

COMUSEREX  
LIS

FORBITOPS  
LIS

FORDEFINE  
LIS

FORBACKSP  
LIS

FORDISPA  
LIS

FORCUTR  
LIS