


```

LL      IIIIII  BBBB8888  MM      MM      AAAAAA  TTTTTTTTTT  CCCCCCCC  HH      HH
LL      IIIIII  88888888  MM      MM      AAAAAA  TTTTTTTTTT  CCCCCCCC  HH      HH
LL      II      88      88  MMMM  MMMM  AA      AA  TT      TT  CC      CC  HH      HH
LL      II      88      88  MMMM  MMMM  AA      AA  TT      TT  CC      CC  HH      HH
LL      II      88      88  MM  MM  MM  AA      AA  TT      TT  CC      CC  HH      HH
LL      II      88888888  MM      MM  AA      AA  TT      TT  CC      CC  HHHHHHHHHH
LL      II      88888888  MM      MM  AA      AA  TT      TT  CC      CC  HHHHHHHHHH
LL      II      88      88  MM      MM  AAAAAAAAAA  TT      TT  CC      CC  HH      HH
LL      II      88      88  MM      MM  AAAAAAAAAA  TT      TT  CC      CC  HH      HH
LL      II      88      88  MM      MM  AA      AA  TT      TT  CC      CC  HH      HH
LL      II      88      88  MM      MM  AA      AA  TT      TT  CC      CC  HH      HH
LLLLLLLLLLLL  IIIIII  88888888  MM      MM  AA      AA  TT      TT  CCCCCCCC  HH      HH
LLLLLLLLLLLL  IIIIII  88888888  MM      MM  AA      AA  TT      TT  CCCCCCCC  HH      HH

```

```

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
LLLLLLLLLLLL  IIIIII  SSSSSSSS
LLLLLLLLLLLL  IIIIII  SSSSSSSS

```

```

1 0001 0 MODULE LIBSMATCH_COND (%TITLE'Library Match Condition Value List'
2 0002 0 IDENT = '1-003', ! File: LIBMATCH.B32 (Conflicts with LIBSMATCHC.MAR)
3 0003 0 LINKAGE(FORTRAN) ! Edit: SBL1003
4 0004 0 ) =
5 0005 1 BEGIN
6 0006 1
7 0007 1
8 0008 1 *****
9 0009 1 *
10 0010 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *
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27 0027 1 *
28 0028 1 *
29 0029 1 *****
30 0030 1
31 0031 1
32 0032 1 **
33 0033 1 FACILITY: General Utility Library
34 0034 1
35 0035 1 ABSTRACT:
36 0036 1
37 0037 1 Check for a match between the condition value addressed by the
38 0038 1 first parameter and the condition value addressed by the subsequent
39 0039 1 parameters. Each parameter is the address of a condition value.
40 0040 1 Only the pertinent fields are checked within the condition value.
41 0041 1
42 0042 1 ENVIRONMENT: User Mode - AST re-entrant
43 0043 1
44 0044 1 AUTHOR: Donald G. Petersen, CREATION DATE: 30-Nov-1977
45 0045 1
46 0046 1 MODIFIED BY:
47 0047 1
48 0048 1 Donald G. Petersen, 30-Nov-1977: VERSION 0
49 0049 1 0-1 - original
50 0050 1 0-2 - RETURN I - 1 DGP 05-DEC-77
51 0051 1 0-3 - add . (dot) operator to COND VAL DGP 05-DEC-77
52 0052 1 0-04 - Change to STARLET library. DGP 20-Apr-78
53 0053 1 0-05 - Change REQUIRE files for VAX system build. DGP 28-Apr-78
54 0054 1 0-06 - Change STARLET to RTLSTARLE to avoid conflicts. DGP 1-May-78
55 0055 1 0-07 - Add check for facility specific bit. TNH 17-June-78
56 0056 1 0-10 - Change file name to LIBMATCHC.B32, and change the name
57 0057 1 of the REQUIRE file similarly. JBS 14-NOV-78

```

:	58	0058	1	:	0-011	-	Change the file name to LIBMATCH.B32 to avoid conflict with
:	59	0059	1	:			LIBMATCHC.MAR (match characters) when producing object
:	60	0060	1	:			files. JBS 15-NOV-78
:	61	0061	1	:	1-001	-	Change the version number to 1 and update
:	62	0062	1	:			the copyright notice. JBS 16-NOV-78
:	63	0063	1	:	1-002	-	Declare ACTUALCOUNT, ACTUALPARAMETER and NULLPARAMETER
:	64	0064	1	:			for the new BLISS compiler. JBS 22-NOV-78
:	65	0065	1	:	1-003	-	Use prologue file. SBL 24-June-1983
:	66	0066	1	:	--		

LI
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-8
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MA

```
68 0067 1 |
69 0068 1 | PROLOGUE FILE:
70 0069 1 |
71 0070 1 |
72 0071 1 | REQUIRE 'RTLIN:LIBPROLOG';           ! LIBS definitions
73 0142 1 |
74 0143 1 |
75 0144 1 | TABLE OF CONTENTS:
76 0145 1 |
77 0146 1 |
78 0147 1 | FORWARD ROUTINE
79 0148 1 |     LIBSMATCH_COND;           ! The routine which performs the comparisons.
80 0149 1 |
81 0150 1 |
82 0151 1 | MACROS:
83 0152 1 |
84 0153 1 |     NONE
85 0154 1 |
86 0155 1 | EQUATED SYMBOLS:
87 0156 1 |
88 0157 1 |     NONE
89 0158 1 |
90 0159 1 | OWN STORAGE:
91 0160 1 |
92 0161 1 |     NONE
93 0162 1 |
94 0163 1 | EXTERNAL REFERENCES:
95 0164 1 |
96 0165 1 |     NONE
```

```
98 0166 1 GLOBAL ROUTINE LIBSMATCH_COND ( : Routine which compares condition values
99 0167 1     COND_VAL, : Adr. of desired condition value
100 0168 1     COND_VAL_1) : Adr. of condition value to compare
101 0169 1 =
102 0170 1 +-
103 0171 1 FUNCTIONAL DESCRIPTION:
104 0172 1
105 0173 1 This routine will take a portion (STSSV COND_ID) of the condition value pointed
106 0174 1 to by the first parameter and compare it to the same portion of the condition
107 0175 1 value pointed to by the second through nth parameters.
108 0176 1 If the facility specific bit (STSSV FAC_SP) is set, the facility
109 0177 1 number (STSSV FAC_NO), the facility specific bit, and the message
110 0178 1 code (STSSV CODE) are included in the compare (STSSV COND_ID).
111 0179 1 Otherwise, only the facility specific bit and the code are included (STSSV MSG_NO).
112 0180 1 The routine returns a 0 if
113 0181 1 a match is not found, a 1 if the second parameter matches, a 2 if the third
114 0182 1 parameter matches and so on. A check is made for null parameter entries in the
115 0183 1 parameter list although the index is still incremented.
116 0184 1
117 0185 1 FORMAL PARAMETERS:
118 0186 1
119 0187 1     cond_val.rlc.r           Adr. of desired value
120 0188 1     (cond_val_i.rlc.r)     Adr. of value to compare
121 0189 1
122 0190 1 IMPLICIT INPUTS:
123 0191 1
124 0192 1     NONE
125 0193 1
126 0194 1 IMPLICIT OUTPUTS:
127 0195 1
128 0196 1     NONE
129 0197 1
130 0198 1 ROUTINE VALUE:
131 0199 1
132 0200 1     index.wlu.v
133 0201 1     0, if no match found
134 0202 1     i, for match between the 1st and (i+1)th parameter
135 0203 1
136 0204 1 SIDE EFFECTS:
137 0205 1
138 0206 1     NONE
139 0207 1
140 0208 1 --
141 0209 1
142 0210 1 +-
143 0211 1 Check for a null parameter each iteration.
144 0212 1 If not a null parameter then compare the 1st and (i+1)th parameters
145 0213 1 If no match is found by the time all parameters are exhausted then return a 0.
146 0214 1 --
147 0215 1
```

```

149 0216 2 BEGIN
150 0217 2
151 0218 2 BUILTIN ACTUALCOUNT, ACTUALPARAMETER, NULLPARAMETER;
152 0219 2
153 0220 2 IF .BLOCK[COND_VAL, STSSV_FAC SP; , BYTE]
154 0221 2 THEN ! Facility specific bit set
155 0222 2 BEGIN
156 0223 2 INCR I FROM 2 TO ACTUALCOUNT() DO
157 0224 2 IF NOT NULLPARAMETER(.I)
158 0225 2 THEN
159 0226 2 IF .BLOCK[COND_VAL, STSSV_COND_ID; , BYTE] EQLU .BLOCK[ACTUALPARAMETER(.I), STSSV_COND_ID;
160 0227 2 THEN
161 0228 2 RETURN .I - 1
162 0229 2 END
163 0230 2
164 0231 2 ELSE ! Facility specific bit not set
165 0232 2
166 0233 2 BEGIN
167 0234 2
168 0235 2 INCR I FROM 2 TO ACTUALCOUNT() DO
169 0236 2 IF NOT NULLPARAMETER(.I)
170 0237 2 THEN
171 0238 2 IF .BLOCK[COND_VAL, STSSV_MSG_NO; , BYTE] EQLU .BLOCK[ACTUALPARAMETER(.I), STSSV_MSG_NO; ,
172 0239 2 THEN
173 0240 2 RETURN .I - 1
174 0241 2 END;
175 0242 2
176 0243 2 RETURN 0
177 0244 2 END;

```

```

.TITLE LIBSMATCH_COND Library Match Condition Value Li
st
.IDENT \1-003\

```

```

.PSECT _LIB$CODE, NOWRT, SHR, PIC, 2

```

				000C 00000	.ENTRY LIBSMATCH_COND, Save R2,R3	: 0166
			04	BC B5 00002	TSTW @COND_VAL	: 0220
				2B 18 00005	BGEQ 3\$	
		52		6C 9A 00007	MOVZBL (AP), R2	: 0223
		50		01 D0 0000A	MOVL #1, I	
				1D 11 0000D	BRB 2\$	
50	6C	08		00 ED 0000F 1\$:	CMPZV #0, #8, (AP), I	: 0224
				16 19 00014	BLSS 2\$	
			6C40	D5 00016	TSTL (AP)[I]	
				11 13 00019	BEQL 2\$	
		51	6C40	D0 0001B	MOVL (AP)[I], R1	: 0226
53	61	19		03 EF 0001F	EXTZV #3, #25, (R1), R3	
53	04 BC	19		03 ED 00024	CMPZV #3, #25, @COND_VAL, R3	
				2A 13 0002A	BEQL 5\$	
	DF	50		52 F3 0002C 2\$:	AOBLEQ R2, I, 1\$: 0224
				30 11 00030	BRB 7\$: 0222
		52		6C 9A 00032 3\$:	MOVZBL (AP), R2	: 0235
		50		01 D0 00035	MOVL #1, I	

50	6C	08	24	11	00038	BRB	6\$		
			00	ED	0003A	4\$:	CMPZV	#0, #8, (AP), I	: 0236
			1D	19	0003F		BLSS	6\$: :
			6C40	D5	00041		TSTL	(AP)[I]	: :
			18	13	00044		BEQL	6\$: :
		51	6C40	D0	00046		MOVL	(AP)[I], R1	: 0238
	53	61	04	BC	AD 0004A		XORW3	@COND VAL, (R1), R3	: :
	FFF8	8F		53	B3 0004F		BITW	R3, #85528	: :
				08	12 00054		BNEQ	6\$: :
		51	FF	A0	9E 00056	5\$:	MOVAB	-1(R0), R1	: 0240
		50		51	D0 0005A		MOVL	R1, R0	: :
				04	0005D		RET		: :
	D8	50		52	F3 0005E	6\$:	AOBLEQ	R2, I, 4\$: 0236
				50	D4 00062	7\$:	CLRL	R0	: 0243
				04	00064		RET		: 0244

: Routine Size: 101 bytes, Routine Base: _LIB\$CODE + 0000

: 178 0245 1 END
: 179 0246 0 ELUDOM

PSECT SUMMARY

Name	Bytes	Attributes
_LIB\$CODE	101	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(2)

Library Statistics

File	-----		-----		Pages Mapped	Processing Time
	Total	Symbols Loaded	Percent			
_\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	3	0		581	00:00.7
_\$255\$DUA28:[LIBRTL.OBJ]RTLLIB.L32;1	36	0	0		8	00:00.1

COMMAND QUALIFIERS

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

: Size: 101 code + 0 data bytes
: Run Time: 00:03.0
: Elapsed Time: 00:18.3

: Lines/CPU Min: 4871
: Lexemes/CPU-Min: 14415
: Memory Used: 58 pages
: Compilation Complete

