


```

1 0001 0 MODULE COBSCALL (
2 0002 0 IDENT = '1-010' ! file: COBCALL.B32 EDIT:LB1010
3 0003 0 ) =
4 0004 1 BEGIN
5 0005 1
6 0006 1
7 0007 1
8 0008 1
9 0009 1
10 0010 1 *
11 0011 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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28 0028 1 *
29 0029 1 *
30 0030 1 ++
31 0031 1 FACILITY: COBOL SUPPORT
32 0032 1
33 0033 1 ABSTRACT: This procedure fetches the address of the routine entry
34 0034 1 point that is associated with the name that is passed
35 0035 1 to it via the "DESC" parameter. If the corresponding
36 0036 1 address of the routine is not found, then this procedure
37 0037 1 returns a value of zero to the calling program.
38 0038 1
39 0039 1 ENVIRONMENT: Vax-11 User Mode
40 0040 1 NOTE: This module cannot be in a shareable library
41 0041 1
42 0042 1 AUTHOR: MLJ , CREATION DATE: 10-APR-1979
43 0043 1
44 0044 1 MODIFIED BY:
45 0045 1
46 0046 1 1-001 - Original. MLJ 10-APR-1979
47 0047 1 1-002 - Added boilerplate and comments. RKR 18-JULY-1979
48 0048 1 1-003 - Declare psects via library macro. RKR 23-AUG-1979
49 0049 1 1-004 - Fetch COBDEF from RTLIN rather than LIB$. RKR 18-SEPT-79
50 0050 1 1-005 - Signal error COB$_ROUNOTLIN if COB$$FIND_NAME fails.
51 0051 1 RKR 2-OCT-79
52 0052 1 1-006 - Undo rev. 5, not desired action. RKR 04-OCT-79
53 0053 1 1-007 - Cosmetic changes. RKR 18-OCT-79
54 0054 1 1-008 - Signal if name not found. 21-OCT-79
55 0055 1 1-009 - Remove all signalling actions, -- let compiled-code caller
56 0056 1 do the signalling. RKR 29-OCT-79
57 0057 1 1-010 - Added functional description, abstract, comments and cosmetic

```

COBSCALL
1-010

M 9
16-Sep-1984 00:00:39
14-Sep-1984 12:10:23

VAX-11 Bliss-32 V4.0-742
[COBRTL.SRC]COBCALL.B32;1

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(1)

| | | | | | | |
|---|----|------|---|-----|----------|--------------|
| : | 58 | 0058 | 1 | ! | changes. | LB 02-MAR-81 |
| : | 59 | 0059 | 1 | ! | | |
| : | 60 | 0060 | 1 | !-- | | |

```

: 62      0061  1  !+
: 63      0062  1  !+ SWITCHES
: 64      0063  1  !-
: 65      0064  1
: 66      0065  1  SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
: 67      0066  1
: 68      0067  1  !+
: 69      0068  1  !+ LINKAGES
: 70      0069  1
: 71      0070  1  !-
: 72      0071  1  !-
: 73      0072  1
: 74      0073  1  !+
: 75      0074  1  !+ TABLE OF CONTENTS:
: 76      0075  1  !-
: 77      0076  1  FORWARD ROUTINE
: 78      0077  1
: 79      0078  1  COB$CALL ;
: 80      0079  1
: 81      0080  1  !+
: 82      0081  1  !+ INCLUDE FILES
: 83      0082  1  !-
: 84      0083  1
: 85      0084  1  REQUIRE 'RTLIN:RTLPSECT' ;           ! Macros for declaring psects
: 86      0179  1  REQUIRE 'RTLIN:COBDEF' ;           ! COBOL specific RTL macros and literals
: 87      0621  1
: 88      0622  1
: 89      0623  1  !+
: 90      0624  1  !+ MACROS
: 91      0625  1  !-
: 92      0626  1  !-
: 93      0627  1
: 94      0628  1  !+
: 95      0629  1  !+ EQUATED SYMBOLS
: 96      0630  1  !-
: 97      0631  1  !-
: 98      0632  1
: 99      0633  1  !+
: 100     0634  1  !+ PSECT DECLARATIONS:
: 101     0635  1  !-
: 102     0636  1
: 103     0637  1  DECLARE_PSECTS (COB) ;           ! Psects for COB$ facility
: 104     0638  1
: 105     0639  1  !+
: 106     0640  1  !+ EXTERNAL REFERENCES
: 107     0641  1  !-
: 108     0642  1
: 109     0643  1  EXTERNAL ROUTINE
: 110     0644  1  !\find routine name match in list
: 111     0645  1  !/of local and global program names
: 112     0646  1  COB$$FIND_NAME : ADDRESSING_MODE (GENERAL) ;

```

```

114 0647 1 GLOBAL ROUTINE COB$CALL(DESC,LLIST)=
115 0648 1
116 0649 1
117 0650 1 !++
118 0651 1 FUNCTIONAL DESCRIPTION:
119 0652 1 This routine passes control to routine COB$$FIND_NAME which will
120 0653 1 search through the list of local program names to find a match to
121 0654 1 the parameter "DESC". If no match is found, it searches through
122 0655 1 the list of global program names (designated by the COB$GZ_NAMES_2
123 0656 1 structure). If a match is found, then COB$CALL will return the
124 0657 1 address of the routine entry point; otherwise, it returns a value
125 0658 1 of zero.
126 0659 1
127 0660 1 CALLING SEQUENCE:
128 0661 1
129 0662 1 COB$CALL (desc.rt.ds, llist.rr.r)
130 0663 1
131 0664 1 FORMAL PARAMETERS:
132 0665 1
133 0666 1 DESC.rt.ds Address of descriptor for name
134 0667 1
135 0668 1 LLIST.rr.r Pointer to a counted list of accessible local programs
136 0669 1
137 0670 1 IMPLICIT INPUTS:
138 0671 1
139 0672 1 NONE
140 0673 1
141 0674 1 IMPLICIT OUTPUTS:
142 0675 1
143 0676 1 NONE
144 0677 1
145 0678 1 ROUTINE VALUE:
146 0679 1
147 0680 1 Address of desired routine's entry point, else 0 if not found
148 0681 1
149 0682 1 COMPLETION CODES:
150 0683 1
151 0684 1 NONE
152 0685 1
153 0686 1 SIDE EFFECTS:
154 0687 1
155 0688 1 NONE
156 0689 1
157 0690 1 --
158 0691 1
159 0692 2 BEGIN
160 0693 2
161 0694 2 LOCAL
162 0695 2 P: REF BLOCK [, BYTE];
163 0696 2
164 0697 2 BUILTIN
165 0698 2 AP,
166 0699 2 CALLG;
167 0700 2
168 0701 2 P = CALLG (.AP,COB$$FIND_NAME); ! Find a match for program name
169 0702 2 IF .P NEQ 0 ! If NEQ 0, then match found
170 0703 2 THEN

```

COB\$CALL
1-010

C 10
16-Sep-1984 00:00:39 VAX-11 BLISS-32 V4.0-742
14-Sep-1984 12:10:23 [COBRTL.SRC]COB\$CALL.B32;1

```
: 171      0704  2      P = .P[COB$A_NAM_ENTRY] ;
: 172      0705  2      RETURN .P
: 173      0706  2
: 174      0707  1      END;
```

```
! \Fetch addr of routine entry
! point and return it to
! /the calling program
! End of routine COB$CALL
```

```
.TITLE COB$CALL
.IDENT \1-010\
.EXTRN COB$$FIND_NAME
.PSECT _COB$CODE,NOWRT, SHR, PIC,2
```

```
00000000G 00      0000 0000
                  6C  FA 00002
                  50  D5 00009
                  04  13 0000B
                  50      08  A0  D0 0000D
                  04 00011 1$:
```

```
.ENTRY COB$CALL, Save nothing
CALLG (AP), COB$$FIND_NAME
TSTL P
BEQL 1$
MOVL 8(P), P
RET
```

```
: 0647
: 0701
: 0702
:
: 0704
: 0707
```

; Routine Size: 18 bytes, Routine Base: _COB\$CODE + 0000

```
: 175      0708  1 END
: 176      0709  0 ELUDOM
```

! End of module COB\$CALL

PSECT SUMMARY

```
Name          Bytes          Attributes
_COB$CODE     18 NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)
```

COMMAND QUALIFIERS

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

```
: Size:      18 code + 0 data bytes
: Run Time:   00:02.3
: Elapsed Time: 00:08.9
: Lines/CPU Min: 18823
: Lexemes/CPU-Min: 40911
: Memory Used: 38 pages
: Compilation Complete
```

