


```

CCCCCCCC 000000 BBBB BBBB CCCCCCCC AAAAAA NN NN CCCCCCCC EEEEEEEEEE LL
CCCCCCCC 000000 BBBB BBBB CCCCCCCC AAAAAA NN NN CCCCCCCC EEEEEEEEEE LL
CC        00      00 BB      BB CC        AA      AA NN NN CC        EE          LL
CC        00      00 BB      BB CC        AA      AA NN NN CC        EE          LL
CC        00      00 BB      BB CC        AA      AA NNNN NN CC        EE          LL
CC        00      00 BB      BB CC        AA      AA NNNN NN CC        EE          LL
CC        00      00 BBBB BBBB CC        AA      AA NN NN NN NN CC        EEEEEEEE LL
CC        00      00 BBBB BBBB CC        AA      AA NN NN NN NN CC        EEEEEEEE LL
CC        00      00 BB      BB CC        AAAAAAAAAA NN NN NN NN CC        EE          LL
CC        00      00 BB      BB CC        AAAAAAAAAA NN NN NN NN CC        EE          LL
CC        00      00 BB      BB CC        AA      AA NN NN NN NN CC        EE          LL
CC        00      00 BB      BB CC        AA      AA NN NN NN NN CC        EE          LL
CC        00      00 BB      BB CC        AA      AA NN NN NN NN CC        EE          LL
CCCCCCCC 000000 BBBB BBBB CCCCCCCC AA      AA NN NN CCCCCCCC EEEEEEEEEE LLLLLLLLLL
CCCCCCCC 000000 BBBB BBBB CCCCCCCC AA      AA NN NN CCCCCCCC EEEEEEEEEE LLLLLLLLLL

```

```

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
LLLLLLLLLL IIIIII SSSSSSSS
LLLLLLLLLL IIIIII SSSSSSSS

```

```

1 0001 0 MODULE COB$CANCEL (
2 0002 0 IDENT = '1-014' ! FILE: COB$CANCEL.B32 EDIT:LB1014
3 0003 0 ) =
4 0004 1 BEGIN
5 0005 1
6 0006 1 *****
7 0007 1 *
8 0008 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *
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25 0025 1 *
26 0026 1 *
27 0027 1 *****
28 0028 1
29 0029 1 ++
30 0030 1 FACILITY: COBOL SUPPORT
31 0031 1
32 0032 1 ABSTRACT: This procedure closes all open files related to the program
33 0033 1 that is being cancelled, and restores any existing local
34 0034 1 storage to its initial values.
35 0035 1
36 0036 1 ENVIRONMENT: Vax-11 User Mode
37 0037 1
38 0038 1 AUTHOR: MLJ , CREATION DATE: 10-APR-1979
39 0039 1
40 0040 1 MODIFIED BY:
41 0041 1
42 0042 1 1-001 - Original. MLJ 10-APR-1979
43 0043 1 1-002 - Added boilerplate and comments. RKR 18-JULY-1979
44 0044 1 1-003 - Added allocation and deallocation of event flag (EF).
45 0045 1 RKR
46 0046 1 1-004 - Declare psects via macros. RKR 11-SEPT-79
47 0047 1 1-005 - Get image file definitons from 'RTLLIB'
48 0048 1 and psects from 'RTLIN:RTLPSECT' RKR 18-SEPT-79
49 0049 1 1-006 - Make it call COB$$RESTVA instead of SYSSRESTVA. RKR 24-SEPT-79
50 0050 1 1-007 - Signal COB$ NAMNOTLIN if COB$$FIND_NAME fails. RKR 2-OCT-79
51 0051 1 1-008 - Status check and cosmetic changes. RKR 18-OCT-79
52 0052 1 1-009 - Add code to close files that the subject routine has open
53 0053 1 at this point. RKR 19-OCT-79
54 0054 1 1-010 - Add error message on path where COB$$FINDNA returns a 0.
55 0055 1 RKR 21-OCT-79
56 0056 1 1-011 - Changed code for accessing FAB from RAB. Changed signalling
57 0057 1 behavior to signal only COB$_CANFAIL.
    
```

COBSCANCEL
1-014

F 10
16-Sep-1984 00:01:01
14-Sep-1984 12:10:24

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

Page 2
(1)

```
: 58      0058 1  | RKR 29-OCT-79
: 59      0059 1  | 1-012 - Added abstract, functional description and comments and made
: 60      0060 1  | some cosmetic changes. LB 02-MAR-81
: 61      0061 1  | 1-013 - Added EDIT field for checkin's audit trail. LB 29-JUL-81
: 62      0062 1  | 1-014 - Added LIB$STOP as external routine. LB 30-NOV-81
: 63      0063 1  |
: 64      0064 1  | --
: 65      0065 1  |
: 66      0066 1  | !<BLF/PAGE>
```

```

: 68      0067 1  !+
: 69      0068 1  ! SWITCHES
: 70      0069 1  !-
: 71      0070 1
: 72      0071 1  SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
: 73      0072 1
: 74      0073 1  !+
: 75      0074 1  ! LINKAGES
: 76      0075 1  !     -NONE
: 77      0076 1  !-
: 78      0077 1
: 79      0078 1  !+
: 80      0079 1  ! TABLE OF CONTENTS:
: 81      0080 1  !-
: 82      0081 1
: 83      0082 1  FORWARD ROUTINE
: 84      0083 1
: 85      0084 1  COBSCANCEL : NOVALUE ;
: 86      0085 1
: 87      0086 1  !+
: 88      0087 1  ! INCLUDE FILES
: 89      0088 1  !-
: 90      0089 1
: 91      0090 1  ! NOTE this module cannot be in sharable library.
: 92      0091 1
: 93      0092 1  REQUIRE 'RTLIN:RTLPSECT';           ! Macros for psects
: 94      0187 1  LIBRARY 'RTLLIB';             ! Image file definitions
: 95      0188 1  REQUIRE 'RTLIN:COBDEF';       ! COBOL specific RTL macros and literals
: 96      0630 1
: 97      0631 1  !+
: 98      0632 1  ! MACROS
: 99      0633 1  !     -NONE
:100     0634 1  !-
:101     0635 1
:102     0636 1  !+
:103     0637 1  ! EQUATED SYMBOLS
:104     0638 1  !     -NONE
:105     0639 1  !-
:106     0640 1
:107     0641 1  !+
:108     0642 1  ! PSECT DECLARATIONS:
:109     0643 1  !-
:110     0644 1
:111     0645 1  DECLARE_PSECTS (COB) ;           ! Declare psects for COB$ facility
:112     0646 1
:113     0647 1  !+
:114     0648 1  ! EXTERNAL REFERENCES
:115     0649 1  !-
:116     0650 1
:117     0651 1  EXTERNAL ROUTINE
:118     0652 1  LIB$STOP:NOVALUE,             ! Signal fatal error
:119     0653 1  COB$$FIND NAME : ADDRESSING_MODE (GENERAL) , ! Find match for routine name
:120     0654 1  LIB$GET EF: ADDRESSING_MODE (GENERAL) , ! Obtain an event flag
:121     0655 1  LIB$FREE EF: ADDRESSING_MODE (GENERAL) , ! Return an event flag
:122     0656 1  COB$$RESTVA : ADDRESSING_MODE (GENERAL) ; ! \Restore virtual addr
:123     0657 1  ! /from image file
:124     0658 1

```

COB\$CANCEL
1-014

H 10
16-Sep-1984 00:01:01
14-Sep-1984 12:10:24

VAX-11 Bliss-32 V4.0-742
[COBRTL.SRC]COB\$CANCEL.B32;1

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```
: 125      0659 1 EXTERNAL LITERAL
: 126      0660 1
: 127      0661 1      COB$_CANFAIL,
: 128      0662 1      COB$_FAIGET EF,
: 129      0663 1      COB$_FATINTERR ;
: 130      0664 1
: 131      0665 1 OWN
: 132      0666 1      CHANNEL:      WORD;
```

```
! CANCEL failed
! Failed to get an event flag
! Fatal internal error
```

```

134 0667 1 GLOBAL ROUTINE COB$CANCEL(DESC,LLIST): NOVALUE=
135 0668 1
136 0669 1
137 0670 1 !++
138 0671 1 ! FUNCTIONAL DESCRIPTION:
139 0672 1 ! This routine calls COB$$FIND_NAME to find the name of the program
140 0673 1 ! that is to be cancelled. If the entry is found, COB$CANCEL checks
141 0674 1 ! for open files so that they will be closed. It also checks if the
142 0675 1 ! routine has local storage, so it can restore it to its initial
143 0676 1 ! values.
144 0677 1
145 0678 1 ! CALLING SEQUENCE:
146 0679 1 !
147 0680 1 ! COB$CANCEL (desc.rt.ds, llist.rr.r)
148 0681 1
149 0682 1 ! FORMAL PARAMETERS:
150 0683 1 !
151 0684 1 ! DESC.rt.ds Address of descriptor for name
152 0685 1 !
153 0686 1 ! LLIST.rr.r Pointer to list of accessible local programs
154 0687 1
155 0688 1 ! IMPLICIT INPUTS:
156 0689 1 !
157 0690 1 ! NONE
158 0691 1
159 0692 1 ! IMPLICIT OUTPUTS:
160 0693 1 !
161 0694 1 ! NONE
162 0695 1
163 0696 1 ! ROUTINE VALUE:
164 0697 1 !
165 0698 1 ! NONE
166 0699 1
167 0700 1 ! COMPLETION CODES:
168 0701 1 !
169 0702 1 ! NONE
170 0703 1
171 0704 1 ! SIDE EFFECTS:
172 0705 1 !
173 0706 1 ! -Close any files that the CANCELED routine has open.
174 0707 1 ! -Restores any local storage
175 0708 1
176 0709 1 ! --
177 0710 1
178 0711 2 BEGIN
179 0712 2
180 0713 2 LOCAL
181 0714 2 EF ! Event flag to use with COB$RESTVA
182 0715 2 STATUS, ! Status returned by COB$RESTVA
183 0716 2 Q: REF VECTOR, ! Address of counted block of
184 0717 2 ! /RAB addresses
185 0718 2 RAB: REF BLOCK [,BYTE], ! A particular RAB address
186 0719 2 FAB: REF BLOCK [,BYTE], ! Its associated FAB address
187 0720 2 P: REF BLOCK[,BYTE]; ! Address of name table entry
188 0721 2
189 0722 2 BUILTIN
190 0723 2 CALLG,

```

```
191      0724      2      AP;
192      0725      2
193      0726      2      P = CALLG(.AP,COB$$FIND_NAME);      ! Find routine name match
194      0727      2
195      0728      2      IF .P NEQ 0      ! If NEQ 0, then match has been found
196      0729      2      THEN
197      0730      2      BEGIN      ! Entry found
198      0731      2
199      0732      2      !+
200      0733      2      ! Find out if he has any files open and if so, close them
201      0734      2      !-
202      0735      2
203      0736      2      Q = .P[COB$A_NAM_FILES] ;      ! Address of counted list of
204      0737      2      ! RAB address (if any)
205      0738      2
206      0739      2      IF .Q NEQA 0      ! If it points non-zero assume
207      0740      2      ! there are some
208      0741      3      THEN
209      0742      4      BEGIN      ! files exist case
210      0743      4      INCR I FROM 1 TO .Q[0] DO
211      0744      5      BEGIN      ! of closing loop
212      0745      5      RAB = .Q[I] ;      ! A RAB address
213      0746      5      IF .RAB[RAB$W_ISI] NEQ 0
214      0747      5      THEN
215      0748      6      BEGIN
216      0749      6      FAB = .RAB[RAB$L_FAB] ;      ! Its FAB address
217      0750      6      IF .FAB[FAB$W_IFI] NEQ 0      ! If open
218      0751      6      THEN $CLOSE (FAB = .FAB) ;      ! then close it
219      0752      5      END ;
220      0753      4      END ;      ! End of closing loop
221      0754      3      END ;
222      0755      3
223      0756      3      IF .P[COB$L_NAM_LLEN] NEQ 0      ! Length of local storage for module
224      0757      3      THEN
225      0758      4      BEGIN      ! It has local storage
226      0759      4      LOCAL
227      0760      4      INADR: VECTOR[2];
228      0761      4
229      0762      4      !+
230      0763      4      ! Restore is image space. Load addresses of beginning of local
231      0764      4      ! storage for the module and of end of local storage for module.
232      0765      4      !-
233      0766      4
234      0767      4      INADR[0] = .P[COB$A_NAM_LOCAL];
235      0768      4      INADR[1] = .P[COB$A_NAM_LOCAL] + .P[COB$L_NAM_LLEN] - 1;
236      0769      4
237      0770      4      !+
238      0771      4      ! Get an event flag number to use. If one was not obtained,
239      0772      4      ! then invoke SIGNAL_STOP indicating this condition.
240      0773      4      !-
241      0774      4
242      0775      4      IF ( NOT LIB$GET_EF (EF) ) THEN SIGNAL_STOP (COB$_FAIGET_EF) ;
243      0776      4
244      0777      4      !+
245      0778      4      ! Restore virtual addresses.
246      0779      4      !-
247      0780      4
```

```

: 248
: 249
: 250
: 251
: 252
: 253
: 254
: 255
: 256
: 257
: 258
: 259
: 260
: 261
: 262

```

```

0781 4      STATUS = COB$$RESTVA(INADR, .CHANNEL, .EF);
0782 4      IF NOT .STATUS THEN LIB$STOP(COB$ CANFAIL, 1,
0783 4          .DESC, .STATUS) ;
0784 4      !+
0785 4      ! Deallocate event flag number.
0786 4      !-
0787 4
0788 4      IF ( NOT LIB$FREE_EF (EF) ) THEN SIGNAL_STOP (COB$_FATINTERR) ;
0789 4      END;
0790 4      END
0791 4      ELSE
0792 4      BEGIN
0793 4      SIGNAL_STOP (COB$_CANFAIL, 1, .DESC );
0794 4      END ;
0795 1      END;

```

```

.TITLE COB$CANCEL
.IDENT \1-014\

.PSECT _COB$DATA,NOEXE, PIC,2

00000 CHANNEL:.BLKB 2

.EXTRN LIB$STOP, COB$$FIND_NAME
.EXTRN LIB$GET_EF, LIB$FREE_EF
.EXTRN COB$$RESTVA, COB$ CANFAIL
.EXTRN COB$_FAIGET_EF, COB$_FATINTERR
.EXTRN SYSS$CLOSE

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

```

```

01FC 00000
58 00000000G 8F D0 00002
57 00000000G 00 9E 00009
5E 00000000G 0C C2 00010
00 00000000G 6C FA 00013
52 00000000G 50 D0 0001A
03 12 0001D
008B 31 0001F
56 14 A2 D0 00022 1$:
23 13 00026
53 D4 00028
1B 11 0002A
54 02 6643 D0 0002C 2$:
A4 B5 00030
12 13 00033
55 3C A4 D0 00035
02 A5 B5 00039
09 13 0003C
55 DD 0003E
00000000G 00 01 FB 00040
E1 53 66 F3 00047 3$:
0C A2 D5 0004B 4$:
67 13 0004E
52 04 AE 10 A2 D0 00050
10 A2 C1 00055

```

```

.ENTRY COB$CANCEL, Save R2,R3,R4,R5,R6,R7,R8
MOVL #COB$ CANFAIL, R8
MOVAB LIB$STOP, R7
SUBL2 #12, SP
CALLG (AP), COB$$FIND_NAME
RO, P
BNEQ 1$
BRW 7$
MOVL 20(P), Q
BEQL 4$
CLRL I
BRB 3$
MOVL (Q)[I], RAB
TSTW 2(RAB)
BEQL 3$
MOVL 60(RAB), FAB
TSTW 2(FAB)
BEQL 3$
PUSHL FAB
CALLS #1, SYSS$CLOSE
AOBLEQ (Q), I, 2$
TSTL 12(P)
BEQL 8$
MOVL 16(P), INADR
ADDL3 12(P), 16(P), R2

```

```

: 0667
:
:
: 0726
:
: 0728
:
: 0736
: 0739
: 0743
:
: 0745
: 0746
:
: 0749
: 0750
:
: 0751
:
: 0743
: 0756
:
: 0767
: 0768

```

| | | | | | | | | |
|-----------|----|-----------|----|-------|-------|--------|-------------------|------|
| 08 | AE | FF | A2 | 9E | 0005B | MOVAB | -1(R2), INADR+4 | |
| | | | 5E | DD | 00060 | PUSHL | SP | 0775 |
| 00000000G | 00 | | 01 | FB | 00062 | CALLS | #1, LIB\$GET_EF | |
| | 09 | | 50 | E8 | 00069 | BLBS | RO, 5\$ | |
| | | 00000000G | 8F | DD | 0006C | PUSHL | #COB\$ FAIGET_EF | |
| | 67 | | 01 | FB | 00072 | CALLS | #1, LIB\$STOP | |
| | | | 6E | DD | 00075 | PUSHL | EF | 0781 |
| | 7E | 00000000' | EF | 3C | 00077 | MOVZWL | CHANNEL, -(SP) | |
| | | 0C | AE | 9F | 0007E | PUSHAB | INADR | |
| 00000000G | 00 | | 03 | FB | 00081 | CALLS | #3, COB\$\$RESTVA | 0782 |
| | 0C | | 50 | E8 | 00088 | BLBS | STATUS, 6\$ | 0783 |
| | | | 50 | DD | 0008B | PUSHL | STATUS | |
| | | 04 | AC | DD | 0008D | PUSHL | DESC | |
| | | | 01 | DD | 00090 | PUSHL | #1 | 0782 |
| | | | 58 | DD | 00092 | PUSHL | R8 | |
| | 67 | | 04 | FB | 00094 | CALLS | #4, LIB\$STOP | |
| | | | 5E | DD | 00097 | PUSHL | SP | 0788 |
| 00000000G | 00 | | 01 | FB | 00099 | CALLS | #1, LIB\$FREE_EF | |
| | 14 | | 50 | E8 | 000A0 | BLBS | RO, 8\$ | |
| | | 00000000G | 8F | DD | 000A3 | PUSHL | #COB\$ FATINTERR | |
| | 67 | | 01 | FB | 000A9 | CALLS | #1, LIB\$STOP | |
| | | | 04 | 000AC | | RET | | 0728 |
| | | 04 | AC | DD | 000AD | PUSHL | DESC | 0793 |
| | | | 01 | DD | 000B0 | PUSHL | #1 | |
| | | | 58 | DD | 000B2 | PUSHL | R8 | |
| | 67 | | 03 | FB | 000B4 | CALLS | #3, LIB\$STOP | |
| | | | 04 | 000B7 | | RET | | 0795 |

; Routine Size: 184 bytes, Routine Base: _COB\$CODE + 0000

```

: 264      0796 1 ROUTINE COB$$CANC_INIT: NOVALUE=
: 265      0797 1
: 266      0798 1
: 267      0799 1 ++
: 268      0800 1 FUNCTIONAL DESCRIPTION:
: 269      0801 1
: 270      0802 1 Called as LIB$INITIALIZE routine whenever the COB$CANCEL module is loaded,
: 271      0803 1 with the standard CLI activation argument list. It saves the channel
: 272      0804 1 number on which the image file is open in the OWN variable CHANNEL.
: 273      0805 1 This will be needed by the COB$CANCEL routine.
: 274      0806 1
: 275      0807 1
: 276      0808 1 FORMAL PARAMETERS:
: 277      0809 1
: 278      0810 1 NONE
: 279      0811 1
: 280      0812 1 IMPLICIT INPUTS:
: 281      0813 1
: 282      0814 1 NONE
: 283      0815 1
: 284      0816 1 IMPLICIT OUTPUTS:
: 285      0817 1
: 286      0818 1 NONE
: 287      0819 1
: 288      0820 1 ROUTINE VALUE:
: 289      0821 1
: 290      0822 1 NONE
: 291      0823 1
: 292      0824 1 COMPLETION CODES:
: 293      0825 1
: 294      0826 1 NONE
: 295      0827 1
: 296      0828 1 SIDE EFFECTS:
: 297      0829 1
: 298      0830 1 NONE
: 299      0831 1
: 300      0832 1 --
: 301      0833 1
: 302      0834 1
: 303      0835 2 BEGIN
: 304      0836 2 BUILTIN
: 305      0837 2 AP;
: 306      0838 2
: 307      0839 2 CHANNEL = .BLOCK[.BLOCK[.AP, CLISA_IMGFILED; , BYTE], IFDSW_CHAN; , BYTE];
: 308      0840 1 END;

```

```

                                0000 0000 COB$$CANC_INIT:
                                .WORD Save nothing           : 0796
                                MOVL  16(AP), R0              : 0839
                                MOVW  8(R0), CHANNEL          :
                                RET                             : 0840
00000000' 50      10  AC  D0 00002
              EF      08  A0  B0 00006
                                04 0000E

```

; Routine Size: 15 bytes, Routine Base: _COB\$CODE + 00B8

```

: 309      0841  1
: 310      0842  1
: 311      0843  1
: 312      0844  1  !+ The following is a contribution to LIB$INITIALIZE
: 313      0845  1  !-
: 314      0846  1
: 315      0847  1 PSECT
: 316      0848  1     OWN=          LIB$INITIALIZE
: 317      0849  1                      (ALIGN(2), NOPIC, CONCATENATE, GLOBAL,
: 318      0850  1                      NOSHARE, NOEXECUTE, READ, NOWRITE);
: 319      0851  1
: 320      0852  1
: 321      0853  1     OWN
: 322      0854  1     A:          INITIAL(COB$$CANC_INIT);
: 323      0855  1
: 324      0856  1
: 325      0857  1 EXTERNAL ROUTINE
: 326      0858  1     LIB$INITIALIZE;
: 327      0859  1
: 328      0860  1
: 329      0861  1 END
: 330      0862  0 ELUDOM

```

```

.PSECT LIB$INITIALIZE,NOWRT,NOEXE, GBL,2
00000000' 00000 A: .ADDRESS COB$$CANC_INIT
.EXTRN LIB$INITIALIZE
.EXTRN LIB$STOP

```

PSECT SUMMARY

| Name | Bytes | Attributes |
|-----------------|-------|--|
| COB\$DATA | 2 | NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, PIC, ALIGN(2) |
| COB\$CODE | 199 | NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(2) |
| LIB\$INITIALIZE | 4 | NOVEC, NOWRT, RD, NOEXE, NOSHR, GBL, REL, CON, NOPIC, ALIGN(2) |

Library Statistics

| File | Symbols | | Pages Mapped | Processing Time |
|---------------------------------|---------|----------------|--------------|-----------------|
| | Total | Loaded Percent | | |
| _\$255\$DUA28:[SYSLIB]LIB.L32;1 | 18619 | 9 0 | 1000 | 00:01.4 |

COMMAND QUALIFIERS

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

: Size: 199 code + 6 data bytes
: Run Time: 00:06.3
: Elapsed Time: 00:29.4
: Lines/CPU Min: 8248
: Lexemes/CPU-Min: 23933
: Memory Used: 110 pages
: Compilation Complete

