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```
LL      IIIIII  BBBB BBBB  RRRRRRRR  UU      UU  NN  NN  PPPPPPPP  RRRRRRRR  000000
LL      IIIIII  BBBB BBBB  RRRRRRRR  UU      UU  NN  NN  PPPPPPPP  RRRRRRRR  000000
LL      II      BB      BB  RR      RR  UU      UU  NN  NN  PP      PP  RR      RR  00      00
LL      II      BB      BB  RR      RR  UU      UU  NN  NN  PP      PP  RR      RR  00      00
LL      II      BB      BB  RR      RR  UU      UU  NN  NN  PP      PP  RR      RR  00      00
LL      II      BB      BB  RR      RR  UU      UU  NN  NN  PP      PP  RR      RR  00      00
LL      II      BB      BB  RR      RR  UU      UU  NN  NN  PP      PP  RR      RR  00      00
LL      II      BB      BB  RR      RR  UU      UU  NN  NN  PP      PP  RR      RR  00      00
LL      II      BB      BB  RR      RR  UU      UU  NN  NN  PP      PP  RR      RR  00      00
LL      II      BB      BB  RR      RR  UU      UU  NN  NN  PP      PP  RR      RR  00      00
LLLLLLLLLLLL IIIIII  BBBB BBBB  RRRRRRRR  UU      UU  NN  NN  PPPPPPPP  RRRRRRRR  000000
LLLLLLLLLLLL IIIIII  BBBB BBBB  RRRRRRRR  UU      UU  NN  NN  PPPPPPPP  RRRRRRRR  000000
```

```
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
LLLLLLLLLLLL IIIIII  SSSSSSSS
LLLLLLLLLLLL IIIIII  SSSSSSSS
```



```
1 0001 0 MODULE LIB$RUN_PROGRAM ( ! RUN another program
2 0002 0 IDENT = '1-008' ! File: LIBRUNPRO.B32 Edit: SBL1008
3 0003 0
4 0004 0 ) =
5 0005 1 BEGIN
6 0006 1
7 0007 1 *****
8 0008 1 *
9 0009 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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25 0025 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
26 0026 1 *
27 0027 1 *
28 0028 1 *****
29 0029 1
30 0030 1
31 0031 1 ++
32 0032 1 FACILITY: General library
33 0033 1
34 0034 1 ABSTRACT:
35 0035 1
36 0036 1 This module causes the current program to end and another
37 0037 1 program to be run in its place.
38 0038 1
39 0039 1 ENVIRONMENT: VAX-11 User Mode
40 0040 1
41 0041 1 AUTHOR: John Sauter, CREATION DATE: 13-NOV-1979
42 0042 1
43 0043 1 MODIFIED BY:
44 0044 1
45 0045 1 1-001 - Original. JBS 15-NOV-1979
46 0046 1 1-002 - Correct entry point name. JBS 27-NOV-1979
47 0047 1 1-003 - Change STR$ codes to LIB$. JBS 22-JAN-1980
48 0048 1 1-004 - Restrict image name string to 132 bytes, since that's all that
49 0049 1 DCL can handle. SBL 27-Jan-1981
50 0050 1 1-005 - Remove use of process common, AST disabling, which are
51 0051 1 unnecessary. SBL 27-Jan-1981
52 0052 1 1-006 - Enhance to recognize additional classes of string descriptors
53 0053 1 by invoking LIB$ANALYZE_SDESC_R3 to extract length and
54 0054 1 address of 1st data byte from descriptor. RKR 27-MAY-1981.
55 0055 1 1-007 - Redirect jsb's from LIB$ANALYZE_SDESC_R3 to
56 0056 1 LIB$ANALYZE_SDESC_R2. RKR 18-NOV-1981.
57 0057 1 1-008 - Use CLIK_SRVDESC. Report LIB$_NOCLI and LIB$_UNECLIERR errors.
```

```
: 58      0058 1 !  
: 59      0059 1 !--  
: 60      0060 1  
: 61      0061 1 !<BLF/PAGE>  
Return an error if the file doesn't exist.  SBL 18-Dec-1981
```

```
63 0062 1 |
64 0063 1 | SWITCHES:
65 0064 1 |
66 0065 1 |
67 0066 1 | SWITCHES ADDRESSING_MODE
68 0067 1 | (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
69 0068 1 |
70 0069 1 |
71 0070 1 | LINKAGES:
72 0071 1 |
73 0072 1 | REQUIRE 'RTLIN:STRLNK'; ! Linkage for LIB$ANALYZE_SDESC_R2
74 0257 1 |
75 0258 1 | TABLE OF CONTENTS:
76 0259 1 |
77 0260 1 |
78 0261 1 | FORWARD ROUTINE
79 0262 1 | LIB$RUN_PROGRAM; ! End this program and start another
80 0263 1 |
81 0264 1 |
82 0265 1 | INCLUDE FILES:
83 0266 1 |
84 0267 1 |
85 0268 1 | REQUIRE 'RTLIN:RTLPSECT'; ! Macros for defining PSECTS
86 0363 1 |
87 0364 1 | LIBRARY 'RTLSTARLE'; ! System symbols
88 0365 1 |
89 0366 1 | REQUIRE 'RTLML:CLIMSG'; ! CLI$_ messages
90 0646 1 |
91 0647 1 |
92 0648 1 | MACROS:
93 0649 1 |
94 0650 1 | NONE
95 0651 1 |
96 0652 1 | EQUATED SYMBOLS:
97 0653 1 |
98 0654 1 | NONE
99 0655 1 |
100 0656 1 | PSECTS:
101 0657 1 |
102 0658 1 | DECLARE_PSECTS (LIB); ! Declare psepts for LIB$ facility
103 0659 1 |
104 0660 1 | OWN STORAGE:
105 0661 1 |
106 0662 1 | NONE
107 0663 1 |
108 0664 1 | EXTERNAL REFERENCES:
109 0665 1 |
110 0666 1 |
111 0667 1 | EXTERNAL ROUTINE
112 0668 1 | LIB$ANALYZE_SDESC_R2 : LIB$ANALYZE_SDESC_JSB_LINK, ! Extract length
113 0669 1 | ! and address of
114 0670 1 | ! 1st data byte
115 0671 1 | ! from descriptor
116 0672 1 | SYSSCLI; ! Call the command language interpreter
117 0673 1 |
118 0674 1 | !+
119 0675 1 | ! The following are the error codes used in this module.
```


LIB\$RUN_PROGRAM
1-008

L 10
16-Sep-1984 01:13:04 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:39:22 [LIBRTL.SRC]LIBRUNPRO.B32;1

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```
: 120      0676 1  !-
: 121      0677 1
: 122      0678 1  EXTERNAL LITERAL
: 123      0679 1      LIB$NOCLI,
: 124      0680 1      LIB$UNECLERR,
: 125      0681 1      LIB$INVARG;
: 126      0682 1
```

```
! No CLI to perform function
! Unexpected CLI error
! Invalid argument
```

**F

```
128 0683 1 GLOBAL ROUTINE LIB$RUN_PROGRAM (      ! RUN another program
129 0684 1
130 0685 1     PGM_NAME                ! Name of program to RUN
131 0686 1
132 0687 1     ) =
133 0688 1
134 0689 1 ++
135 0690 1 FUNCTIONAL DESCRIPTION:
136 0691 1
137 0692 1     Stop running this program and start running another.
138 0693 1
139 0694 1 CALLING SEQUENCE:
140 0695 1
141 0696 1     status.wlc.v = LIB$RUN_PROGRAM (PGM_NAME.rt.dx)
142 0697 1
143 0698 1 FORMAL PARAMETERS:
144 0699 1
145 0700 1     PGM_NAME.rt.dx  The name of the program to be run in place of
146 0701 1                   this one.
147 0702 1                   It may not be longer than 132 characters.
148 0703 1
149 0704 1 IMPLICIT INPUTS:
150 0705 1
151 0706 1     NONE
152 0707 1
153 0708 1 IMPLICIT OUTPUTS:
154 0709 1
155 0710 1     NONE
156 0711 1
157 0712 1 COMPLETION CODES:
158 0713 1
159 0714 1     LIB$NOCLI      No CLI present to perform function
160 0715 1     LIB$UNECLIERR Unexpected CLI error
161 0716 1     LIB$INVARG    Invalid argument
162 0717 1     RMSS_XXX      RMS error status
163 0718 1
164 0719 1 SIDE EFFECTS:
165 0720 1
166 0721 1     Does not normally return to its caller.
167 0722 1
168 0723 1 --
169 0724 1
170 0725 2 BEGIN
171 0726 2
172 0727 2 MAP
173 0728 2     PGM_NAME : REF BLOCK [8, BYTE];
174 0729 2
175 0730 2 LOCAL
176 0731 2     RET_STATUS : BLOCK [4, BYTE],           ! Status returned
177 0732 2     CLI_REQ_BLOCK : BLOCK [CLISK_SRVDISC, BYTE], ! CLI service
178 0733 2                                           ! block
179 0734 2     DESC_ADDR : REF BLOCK [8, BYTE],      ! Pointer to descriptor
180 0735 2                                           ! in req block
181 0736 2     PGM_NAME_LEN,                          ! Length of the
182 0737 2                                           ! program name provided.
183 0738 2     PGM_NAME_ADDR;                          ! Address of 1st data
184 0739 2                                           ! byte
```

```
185 0740 2
186 0741 2
187 0742 2 + Extract length and address of 1st data byte of parameter. If we
188 0743 2 fail, return status returned by LIB$ANALYZE_SDESC_R2.
189 0744 2 -
190 0745 2 RET_STATUS = LIB$ANALYZE_SDESC_R2 ( .PGM_NAME ;
191 0746 2 PGM_NAME_LEN, PGM_NAME_ADDR ) ;
192 0747 2
193 0748 2 IF NOT .RET_STATUS THEN RETURN (.RET_STATUS) ;
194 0749 2
195 0750 2 +
196 0751 2 Don't allow too long a name.
197 0752 2 -
198 0753 2 IF (.PGM_NAME_LEN GTRU 132) THEN RETURN (LIB$_INVARG);
199 0754 2
200 0755 2 +
201 0756 2 Initialize CLI command request block.
202 0757 2 -
203 0758 2 CH$FILL (0, CLISK_SRVDESC, CLI_REQ_BLOCK);
204 0759 2 CLI_REQ_BLOCK [CLISB_RQTYPE] = CLISK_CLISERV; ! Request a service.
205 0760 2 CLI_REQ_BLOCK [CLISW_SERVCD] = CLISK_CHAIN; ! Service is "CHAIN"
206 0761 2 DESC_ADDR = CLI_REQ_BLOCK [CLISQ_RQDESC];
207 0762 2
208 0763 2 +
209 0764 2 Fill in the descriptor
210 0765 2 -
211 0766 2 DESC_ADDR [DSCSW_LENGTH] = .PGM_NAME_LEN;
212 0767 2 DESC_ADDR [DSCSA_POINTER] = .PGM_NAME_ADDR;
213 0768 2
214 0769 2 RET_STATUS = SYSS$CLI (CLI_REQ_BLOCK);
215 0770 2
216 0771 2 IF NOT .RET_STATUS
217 0772 2 THEN
218 0773 2 BEGIN
219 0774 2 IF .RET_STATUS [STSSV_FAC_NO] EQL CLIS_FACILITY
220 0775 2 THEN
221 0776 2 BEGIN
222 0777 2 IF .RET_STATUS EQLU CLIS_INVREQTYP
223 0778 2 THEN
224 0779 2 RETURN LIB$_NOCLI
225 0780 2 ELSE
226 0781 2 RETURN LIB$_UNECLIERR;
227 0782 2 END
228 0783 2 ELSE
229 0784 2 RETURN .RET_STATUS;
230 0785 2 END;
231 0786 2
232 0787 2 +
233 0788 2 Now, to get the chain to take effect, we must exit.
234 0789 2 -
235 0790 2 $EXIT (CODE = SSS_NORMAL);
236 0791 2 +
237 0792 2 Its not likely that we'll get back from a call to $EXIT, but BLISS
238 0793 2 doesn't know that, so it insists that we return a value.
239 0794 2 -
240 0795 2
241 0796 2
```



```
; 242      0797  2  RETURN (0);  
; 243      0798  1  END;
```

! end of LIB\$RUN_PROGRAM

```
.TITLE LIB$RUN_PROGRAM  
.IDENT \1-008\
```

```
.EXTRN LIB$ANALYZE_SDESC_R2  
.EXTRN SYSSCLI, LIB$NOCLI  
.EXTRN LIB$UNECLIERR, LIB$_INVARG  
.EXTRN SYS$EXIT
```

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

```
.ENTRY LIB$RUN_PROGRAM, Save R2,R3,R4,R5,R6,R7,R8
```

```
MOVAB -84(SP), SP ; 0683  
MOVL PGM_NAME, R0 ; 0745  
JSB LIB$ANALYZE_SDESC_R2  
MOVQ R0, RET_STATUS  
MOVL R2, R8  
BLBC RET_STATUS, 3$ ; 0748  
CMPL PGM_NAME_LEN, #132 ; 0753  
BLEQU 1$  
MOVL #LIB$_INVARG, R0  
RET  
MOVC5 #0, (SP), #0, #84, CLI_REQ_BLOCK ; 0758  
  
MOVB #5, CLI_REQ_BLOCK ; 0759  
MOVW #4, CLI_REQ_BLOCK+1 ; 0760  
MOVAB CLI_REQ_BLOCK+8, DESC_ADDR ; 0761  
MOVW PGM_NAME_LEN, (DESC_ADDR) ; 0766  
MOVL PGM_NAME_ADDR, 4(DESC_ADDR) ; 0767  
PUSHL SP ; 0769  
CALLS #1, SYSSCLI  
MOVL R0, RET_STATUS  
BLBS RET_STATUS, 4$ ; 0771  
CMPZV #16, #12, RET_STATUS, #3 ; 0774  
BNEQ 3$  
CMPL RET_STATUS, #231458 ; 0777  
BNEQ 2$  
MOVL #LIB$_NOCLI, R0 ; 0781  
RET  
MOVL #LIB$_UNECLIERR, R0 ; 0784  
RET  
MOVL RET_STATUS, R0  
RET  
PUSHL #1 ; 0790  
CALLS #1, SYS$EXIT  
CLRL R0 ; 0797  
RET ; 0798
```

```
01FC 00000  
5E AC AE 9E 00002  
50 04 AC D0 00006  
00000000G 00 16 0000A  
56 50 7D 00010  
58 52 D0 00013  
5A 56 E9 00016  
00000084 8F 57 D1 00019  
00000000G 08 1B 00020  
50 8F D0 00022  
04 00029  
0054 8F 00 6E 00 2C 0002A 1$:  
6E 00031  
01 6E 05 90 00032  
AE 04 B0 00035  
50 08 AE 9E 00039  
60 57 B0 0003D  
04 A0 58 D0 00040  
00000000G 00 5E DD 00044  
56 50 D0 0004D  
24 56 E8 00050  
03 5C 10 ED 00053  
56 19 12 00058  
00038822 8F 56 D1 0005A  
08 12 00061  
50 00000000G 8F D0 00063  
04 0006A  
50 00000000G 8F D0 0006B 2$:  
04 00072  
50 56 D0 00073 3$:  
04 00076  
00000000G 00 01 DD 00077 4$:  
01 FB 00079  
50 D4 00080  
04 00082
```

; Routine Size: 131 bytes, Routine Base: _LIB\$CODE + 0000

```
; 244      0799  1  
; 245      0800  1 END  
; 246      0801  1
```

! end of module LIB\$RUN_PROGRAM

; 247 0802 0 ELUDOM

PSECT SUMMARY

Name	Bytes	Attributes
_LIB\$CODE	131	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	16	0	581	00:00.8

COMMAND QUALIFIERS

; BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LIS\$:LIBRUNPRO/OBJ=OBJ\$:LIBRUNPRO MSRC\$:LIBRUNPRO/UPDATE=(ENH\$:LIBRUNPRO
;); Size: 131 code + 0 data bytes
; Run Time: 00:09.8
; Elapsed Time: 00:39.3
; Lines/CPU Min: 4910
; Lexemes/CPU-Min: 96244
; Memory Used: 103 pages
; Compilation Complete

0209 AH-BT13A-SE
VAX/VMS V4.0

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