

BBBBBBBBBBBB	AAAAAAAAA	SSSSSSSSSS	RRRRRRRRRR	TTTTTTTTTTTT	LLL
BBBBBBBBBBBB	AAAAAAAAA	SSSSSSSSSS	RRRRRRRRRR	TTTTTTTTTTTT	LLL
BBBBBBBBBBBB	AAAAAAAAA	SSSSSSSSSS	RRRRRRRRRR	TTTTTTTTTTTT	LLL
BBB	AAA	SSS	RRR	TTT	LLL
BBB	AAA	SSS	RRR	TTT	LLL
BBB	AAA	SSS	RRR	TTT	LLL
BBB	AAA	SSS	RRR	TTT	LLL
BBB	AAA	SSS	RRR	TTT	LLL
BBB	AAA	SSS	RRR	TTT	LLL
BBB	AAA	SSS	RRR	TTT	LLL
BBBBBBBBBBBB	AAA	SSSSSSSS	RRRRRRRRRR	TTT	LLL
BBBBBBBBBBBB	AAA	SSSSSSSS	RRRRRRRRRR	TTT	LLL
BBBBBBBBBBBB	AAA	SSSSSSSS	RRRRRRRRRR	TTT	LLL
BBB	AAAAAAAAAAAA	SSS	RRR	TTT	LLL
BBB	AAAAAAAAAAAA	SSS	RRR	TTT	LLL
BBB	AAAAAAAAAAAA	SSS	RRR	TTT	LLL
BBB	AAA	SSS	RRR	TTT	LLL
BBB	AAA	SSS	RRR	TTT	LLL
BBB	AAA	SSS	RRR	TTT	LLL
BBB	AAA	SSS	RRR	TTT	LLL
BBB	AAA	SSS	RRR	TTT	LLL
BBBBBBBBBBBB	AAA	SSSSSSSS	RRR	TTT	LLLLLLLLLLLLLLLL
BBBBBBBBBBBB	AAA	SSSSSSSS	RRR	TTT	LLLLLLLLLLLLLLLL
BBBBBBB	AAA	SSSSSSSS	RRR	TTT	LLLLLLLLLLLLLLLL

```

BBBBBBBB      PPPPPPP      AAAAAA      SSSSSSSS      EEEEEEEEEE      TTTTTTTTTT      PPPPPPPP      RRRRRRRR      IIIIII
BBBBBBBB      PPPPPPP      AAAAAA      SSSSSSSS      EEEEEEEEEE      TTTTTTTTTT      PPPPPPPP      RRRRRRRR      IIIIII
BB      BB      PP      PP      AA      AA      SS      EE      TT      PP      PP      RR      RR      II
BB      BB      PP      PP      AA      AA      SS      EE      TT      PP      PP      RR      RR      II
BB      BB      PP      PP      AA      AA      SS      EE      TT      PP      PP      RR      RR      II
BB      BB      PP      PP      AA      AA      SS      EE      TT      PP      PP      RR      RR      II
BBBBBBBB      PPPPPPP      AA      AA      SSSSSS      EEEEEEEE      TT      PPPPPPPP      RRRRRRRR      II
BBBBBBBB      PPPPPPP      AA      AA      SSSSSS      EEEEEEEE      TT      PPPPPPPP      RRRRRRRR      II
BB      BB      PP      AAAAAAAAAA      SS      EE      TT      PP      RR      RR      II
BB      BB      PP      AAAAAAAAAA      SS      EE      TT      PP      RR      RR      II
BB      BB      PP      AA      AA      SS      EE      TT      PP      RR      RR      II
BB      BB      PP      AA      AA      SS      EE      TT      PP      RR      RR      II
BBBBBBBB      PP      AA      AA      SSSSSSSS      EEEEEEEEEE      TT      PP      RR      RR      IIIIII
BBBBBBBB      PP      AA      AA      SSSSSSSS      EEEEEEEEEE      TT      PP      RR      RR      IIIIII

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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 !  
2 0002 0 !<blf/width:80>  
3 0003 0 !  
4 0004 0 MODULE bpa$set_pri ( ! Changes priority  
5 0005 0 IDENT = '1-003' ! File: BPASET PRI.B32  
6 0006 0 ) =  
7 0007 1 BEGIN  
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 !  
32 0032 1 !<blf/uppercase_key>  
33 0033 1 !<blf/lowercase_user>  
34 0034 1 !  
35 0035 1 !  
36 0036 1 !++  
37 0037 1 ! FACILITY: VAX-11 BASIC RTL SUPPORT  
38 0038 1 !  
39 0039 1 ! ABSTRACT:  
40 0040 1 !  
41 0041 1 ! This module emulates the RSTS SYS() call to set priority.  
42 0042 1 !  
43 0043 1 ! AUTHOR: V. Eriksson, CREATION DATE: 17-Aug-79  
44 0044 1 !  
45 0045 1 ! MODIFIED BY:  
46 0046 1 !  
47 0047 1 ! VERSION X01  
48 0048 1 !  
49 0049 1 ! 1-002 - Make this module conform to RTL conventions. JBS 02-DEC-1979  
50 0050 1 ! 1-003 - More of edit 002. JBS 04-DEC-1979  
51 0051 1 !--  
52 0052 1 !  
53 0053 1 !<blf/page>
```

```
55 0054 1 |
56 0055 1 | SWITCHES:
57 0056 1 |
58 0057 1 |
59 0058 1 SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
60 0059 1 |
61 0060 1 |
62 0061 1 | LINKAGES:
63 0062 1 |
64 0063 1 | NONE
65 0064 1 |
66 0065 1 | TABLE OF CONTENTS:
67 0066 1 |
68 0067 1 |
69 0068 1 FORWARD ROUTINE
70 0069 1 bpa$set_pri : NOVALUE; ! Change job priority
71 0070 1 |
72 0071 1 |
73 0072 1 | INCLUDE FILES:
74 0073 1 |
75 0074 1 |
76 0075 1 REQUIRE 'RTLIN:BPASTRUCT';
77 0166 1 |
78 0167 1 REQUIRE 'RTLIN:BPAFOBDEF';
79 0291 1 |
80 0292 1 LIBRARY 'RTLSTARLE';
81 0293 1 |
82 0294 1 REQUIRE 'RTLIN:RTLPSECT';
83 0389 1 |
84 0390 1 |
85 0391 1 | EQUATED SYMBOLS:
86 0392 1 |
87 0393 1 | NONE
88 0394 1 |
89 0395 1 | PSECTS:
90 0396 1 |
91 0397 1 declare_psects (bpa);
92 0398 1 |
93 0399 1 | OWN STORAGE:
94 0400 1 |
95 0401 1 | NONE
96 0402 1 |
97 0403 1 | EXTERNAL REFERENCES:
98 0404 1 |
99 0405 1 | NONE
100 0406 1 |
101 0407 1 |
```

```

103 0408 1 GLOBAL ROUTINE bpa$set_pri (firqb) : NOVALUE = ! Change job priority
104 0409 1
105 0410 1 !++
106 0411 1 FUNCTIONAL DESCRIPTION:
107 0412 1
108 0413 1     If change-indicator in firqb isn't set, then return is made. Otherwise
109 0414 1     the process identification is fetched and the new priority is set.
110 0415 1     The input priority (RSTS-priority) is converted to VAX-priority in
111 0416 1     the following way :
112 0417 1     Only the last 5 bits of the RSTS priority is used which is equivalent
113 0418 1     of a division by 8. 16 is added to this value which gives priorities
114 0419 1     in the range of 0 through 31.
115 0420 1
116 0421 1 FORMAL PARAMETERS:
117 0422 1
118 0423 1     firqb = firqb-address
119 0424 1
120 0425 1 IMPLICIT INPUTS:
121 0426 1
122 0427 1     firqb [fqb$b_pri_ind] : nonzero (indicates change of priority)
123 0428 1     firqb [fqb$v_priority] : new priority
124 0429 1
125 0430 1 IMPLICIT OUTPUTS:
126 0431 1
127 0432 1     NONE
128 0433 1
129 0434 1 ROUTINE VALUE:
130 0435 1
131 0436 1     NONE
132 0437 1
133 0438 1 SIDE EFFECTS:
134 0439 1
135 0440 1     NONE
136 0441 1
137 0442 1 --
138 0443 1
139 0444 2 BEGIN
140 0445 2
141 0446 2 MAP
142 0447 2     firqb : REF $fqb_def;           ! Defines firqb
143 0448 2
144 0449 2 LOCAL
145 0450 2     sts;                          ! Status from $setpri
146 0451 2
147 0452 2
148 0453 2 Check input.
149 0454 2
150 0455 2
151 0456 2 IF .firqb [fqb$b_pri_ind] EQLU 0 THEN RETURN;
152 0457 2
153 0458 2
154 0459 2 Convert RSTS-priority to VAX-priority and set the new priority.
155 0460 2
156 0461 2
157 0462 2 IF NOT (sts = $setpri (pri = .firqb [fqb$v_priority] + 16))
158 0463 2 THEN
159 0464 2     RETURN SIGNAL (.sts);

```

BPASSET_PRI
1-003

E 2
16-Sep-1984 01:40:00 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 11:56:53 [BASRTL.SRC]BPASET.PRI.B32;1

Page 4
(3)

: 160 0465 2
: 161 0466 1 END;

! End of bpa\$set_pri

.TITLE BPASSET_PRI
.IDENT \1-003\
.EXTRN SYS\$SETPRI
.PSECT _BPASCODE,NOWRT, SHR, PIC,2

				0000	00000
	50	04	AC	D0	00002
		05	A0	95	00006
			20	13	00009
			7E	D4	0000B
7E	06	A0	03	EE	0000D
			10	C0	00013
			7E	7C	00016
			04	FB	00018
	00000000G	00	50	E8	0001F
		09	50	DD	00022
	00000000G	00	01	FB	00024
			04	00	002B 1\$:

.ENTRY	BPASSET_PRI, Save nothing	: 0408
MOVL	FIRQB, R0	: 0456
TSTB	5(R0)	
BEQL	1\$	
CLRL	-(SP)	: 0462
EXTV	#3, #5, 6(R0), -(SP)	
ADDL2	#16, (SP)	
CLRQ	-(SP)	
CALLS	#4, SYS\$SETPRI	
BLBS	STS, 1\$	
PUSHL	STS	: 0464
CALLS	#1, LIB\$SIGNAL	
RET		: 0466

: Routine Size: 44 bytes, Routine Base: _BPASCODE + 0000

: 162 0467 1
: 163 0468 1 END
: 164 0469 1
: 165 0470 0 ELUDOM

! End of module bpa\$set_pri

.EXTRN LIB\$SIGNAL

PSECT SUMMARY

Name	Bytes	Attributes
_BPASCODE	44	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	3	0	581	00:01.1

COMMAND QUALIFIERS

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

: Size: 44 code + 0 data bytes
: Run Time: 00:05.1
: Elapsed Time: 00:13.7
: Lines/CPU Min: 5529
: Lexemes/CPU-Min: 25823
: Memory Used: 55 pages
: Compilation Complete

BPAMOUTUC LIS	BPASSDEAS LIS	BPAAWAKEUP LIS	BPASETPRI LIS	BOOTBLOCK MAP	STACONFIG MAP	SYSBOOT MAP
				BOOTS	BOOT58 MAP	
				CONFIGURE MAP	STANDCONF MAP	
					STASYSGEN MAP	