



```

BBBBBBBBB  PPPPPPP  AAAAAA  SSSSSSS  EEEEEEEEE  TTTTTTTTT  PPPPPPP  RRRRRRR  IIIIII
BBBBBBBBB  PPPPPPP  AAAAAA  SSSSSSS  EEEEEEEEE  TTTTTTTTT  PPPPPPP  RRRRRRR  IIIIII
BB      BB  PP      PP  AA      AA  SS      SS      EE      EE      TT      TT      PP      PP  RR      RR  II
BB      BB  PP      PP  AA      AA  SS      SS      EE      EE      TT      TT      PP      PP  RR      RR  II
BB      BB  PP      PP  AA      AA  SS      SS      EE      EE      TT      TT      PP      PP  RR      RR  II
BB      BB  PP      PP  AA      AA  SS      SS      EE      EE      TT      TT      PP      PP  RR      RR  II
BBBBBBBBB  PPPPPPP  AAAAAA  SSSSSSS  EEEEEEEEE  TTTTTTTTT  PPPPPPP  RRRRRRR  IIIIII
BBBBBBBBB  PPPPPPP  AAAAAA  SSSSSSS  EEEEEEEEE  TTTTTTTTT  PPPPPPP  RRRRRRR  IIIIII
BB      BB  PP      PP  AAAAAAAAAA  SS      SS      EE      EE      TT      TT      PP      PP  RR      RR  II
BB      BB  PP      PP  AAAAAAAAAA  SS      SS      EE      EE      TT      TT      PP      PP  RR      RR  II
BB      BB  PP      PP  AA      AA  SS      SS      EE      EE      TT      TT      PP      PP  RR      RR  II
BB      BB  PP      PP  AA      AA  SS      SS      EE      EE      TT      TT      PP      PP  RR      RR  II
BBBBBBBBB  PP      AA      AA  SSSSSSS  EEEEEEEEE  TT      TT      PP      PP  RR      RR  IIIIII
BBBBBBBBB  PP      AA      AA  SSSSSSS  EEEEEEEEE  TT      TT      PP      PP  RR      RR  IIIIII

```

```

LL      IIIIII  SSSSSSS
LL      IIIIII  SSSSSSS
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
LLLLLLLLL  IIIIII  SSSSSSS
LLLLLLLLL  IIIIII  SSSSSSS

```

```
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:BPAFQBDEF';  
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$set_pri (firqb) : NOVALUE = ! Change job priority
: 104      0409 1
: 105      0410 1
: 106      0411 1  !++
: 107      0412 1  FUNCTIONAL DESCRIPTION:
: 108      0413 1
: 109      0414 1      If change-indicator in firqb isn't set, then return is made. Otherwise
: 110      0415 1      the process identification is fetched and the new priority is set.
: 111      0416 1      The input priority (RSTS-priority) is converted to VAX-priority in
: 112      0417 1      the following way :
: 113      0418 1      Only the last 5 bits of the RSTS priority is used which is equivalent
: 114      0419 1      of a division by 8. 16 is added to this value which gives priorities
: 115      0420 1      in the range of 0 through 31.
: 116      0421 1  FORMAL PARAMETERS:
: 117      0422 1
: 118      0423 1      firqb = firqb-address
: 119      0424 1
: 120      0425 1  IMPLICIT INPUTS:
: 121      0426 1
: 122      0427 1      firqb [fqb$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  
14-Sep-1984 11:56:53

VAX-11 Bliss-32 V4.0-742  
[BASRTL.SRC]BPASET.PRI.B32;1

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(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	
				6E	10 C0 00013	
				7E	7C 00016	
				04	FB 00018	
				50	E8 0001F	
				50	DD 00022	
				01	FB 00024	
				04	0002B 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

BPASSET\_PRI  
1-003

F 2  
16-Sep-1984 01:40:00  
14-Sep-1984 11:56:53

VAX-11 Bliss-32 V4.0-742  
[BASRTL.SPC]BPASETPRI.B32;1

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(3)

COMMAND QUALIFIERS

```
:  
:      BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LISS:BPASETPRI/OBJ=OBJ$:BPASETPRI MSRCS: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
```

