


```

BBBBBBBBB PPPPPPP AAAA AA WW WW AAAA KK KK EEEEEEEEE UU UU PPPPPPP
BBBBBBBBB PPPPPPP AAAA AA WW WW AAAA KK KK EEEEEEEEE UU UU PPPPPPP
BB BB PP PP AA AA WW WW AA AA KK KK EE PP PP
BB BB PP PP AA AA WW WW AA AA KK KK EE PP PP
BB BB PP PP AA AA WW WW AA AA KK KK EE PP PP
BBBBBBBBB PPPPPPP AA AA WW WW AA AA KKKKKK EEEEEEE UU UU PPPPPPP
BBBBBBBBB PPPPPPP AA AA WW WW AA AA KKKKKK EEEEEEE UU UU PPPPPPP
BB BB PP AAAAAAAAAA WW WW WW AAAAAAAAAA KK KK EE UU UU PP
BB BB PP AAAAAAAAAA WW WW WW AAAAAAAAAA KK KK EE UU UU PP
BB BB PP AA AA WWW WWW AA AA KK KK EE UU UU PP
BB BB PP AA AA WWW WWW AA AA KK KK EE UU UU PP
BBBBBBBBB PP AA AA WW WW AA AA KK KK EEEEEEEEE UUUUUUUUU PP
BBBBBBBBB PP AA AA WW WW AA AA KK KK EEEEEEEEE UUUUUUUUU PP

```

....
....
....
....

```

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
LLLLLLLLLLL IIIIII SSSSSSS
LLLLLLLLLLL IIIIII SSSSSSS

```

```
1 0001 0 |
2 0002 0 | <blf/width:80>
3 0003 0 |
4 0004 0 | MODULE bpa$wakeup (           ! This module wakes up a process
5 0005 0 |             IDENT = '1-125'   ! File: BPAWAKEUP.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
12 0012 1 | *  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
13 0013 1 | *  ALL RIGHTS RESERVED.
14 0014 1 | *
15 0015 1 | *  THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
16 0016 1 | *  ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
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18 0018 1 | *  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
19 0019 1 | *  OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
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21 0021 1 | *
22 0022 1 | *  THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
23 0023 1 | *  AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
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25 0025 1 | *
26 0026 1 | *  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
27 0027 1 | *  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
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: BASIC-PLUS AME
38 0038 1 |
39 0039 1 | ABSTRACT:
40 0040 1 |
41 0041 1 |     This module activates a process that has placed itself in a state
42 0042 1 |     of hibernation and removes all scheduled wakeup requests for the
43 0043 1 |     process from the timer queue.
44 0044 1 |
45 0045 1 | ENVIRONMENT: Native mode VAX processor, User mode.
46 0046 1 |
47 0047 1 | AUTHOR: V.Eriksson (CAP) , CREATION DATE: 29-Mar-79
48 0048 1 |
49 0049 1 | MODIFIED BY:
50 0050 1 |
51 0051 1 |     VERSION X1
52 0052 1 |
53 0053 1 |     124 - New Module
54 0054 1 |     1-125 - Remove the reference to the REQUIRE file, and replace it with the
55 0055 1 |     DISPATCH_PSECTS macro and STARLET.L32. JBS 27-SEP-1979
56 0056 1 |
57 0057 1 | --
```

BPASWAKEUP
1-125

N 4
16-Sep-1984 01:41:42
14-Sep-1984 11:56:54

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

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(1)

: 58
: 59
: 60
0058 1
0059 1 !
0060 1 !<blf/page>

```
.. 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 | TABLE OF CONTENTS:  
70 0069 1 |  
71 0070 1 |  
72 0071 1 | FORWARD ROUTINE  
73 0072 1 |     bpa$wakeup;           ! Wakes up a process  
74 0073 1 |  
75 0074 1 |  
76 0075 1 | INCLUDE FILES:  
77 0076 1 |  
78 0077 1 |  
79 0078 1 | REQUIRE 'RTLIN:RTLPSECT';   ! Define the DECLARE_PSECTS macro  
80 0173 1 |  
81 0174 1 | LIBRARY 'RTLSTARLE';       ! System symbols  
82 0175 1 |  
83 0176 1 |  
84 0177 1 | MACROS:  
85 0178 1 |  
86 0179 1 |     NONE  
87 0180 1 |  
88 0181 1 | EQUATED SYMBOLS:  
89 0182 1 |  
90 0183 1 |     NONE  
91 0184 1 |  
92 0185 1 | PSECTS:  
93 0186 1 |  
94 0187 1 | declare_psects (bpa);      ! Declare psects for the BPAS facility  
95 0188 1 |  
96 0189 1 | OWN STORAGE:  
97 0190 1 |  
98 0191 1 |     NONE  
99 0192 1 |  
100 0193 1 | EXTERNAL REFERENCES:  
101 0194 1 |  
102 0195 1 |     NONE  
103 0196 1 |  
104 0197 1 |  
105 0198 1 |
```

```

: 107      0199 1 GLOBAL ROUTINE bpa$wakeup =                ! Wakes up a process
: 108      0200 1
: 109      0201 1
: 110      0202 1  +-+
: 111      0203 1  FUNCTIONAL DESCRIPTION:
: 112      0204 1      The system services $wake and $canwak are called to activate the
: 113      0205 1      caller and to remove all scheduled wakeup requests for the caller
: 114      0206 1      from the timer queue.
: 115      0207 1
: 116      0208 1  FORMAL PARAMETERS:
: 117      0209 1
: 118      0210 1      NONE
: 119      0211 1
: 120      0212 1  IMPLICIT INPUTS:
: 121      0213 1
: 122      0214 1      NONE
: 123      0215 1
: 124      0216 1  IMPLICIT OUTPUTS:
: 125      0217 1
: 126      0218 1      NONE
: 127      0219 1
: 128      0220 1  ROUTINE VALUE:
: 129      0221 1
: 130      0222 1      success - 1
: 131      0223 1      failure - ??
: 132      0224 1
: 133      0225 1  SIDE EFFECTS:
: 134      0226 1
: 135      0227 1      Cancels any wakeups scheduled for the process and
: 136      0228 1      wakes the process
: 137      0229 1
: 138      0230 1  --
: 139      0231 1
: 140      0232 1  BEGIN
: 141      0233 1
: 142      0234 1  LOCAL
: 143      0235 1      sts;                ! Status received by $wake and $canwak
: 144      0236 1
: 145      0237 1  IF NOT (sts = $wake ()) THEN RETURN SIGNAL (.sts);
: 146      0238 1
: 147      0239 1  IF NOT (sts = $canwak ()) THEN RETURN SIGNAL (.sts);
: 148      0240 1
: 149      0241 1  RETURN 1;
: 150      0242 1  END;                ! End of bpa$wakeup

```

```

.TITLE BPASWAKEUP
.IDENT \1-125\

.EXTRN SYSSWAKE, SYSSCANWAK

.PSECT _BPASCODE, NOWRT, SHR, PIC, 2

.ENTRY BPASWAKEUP, Save R2
      CLRQ  -(SP)
      CALLS #2, SYSSWAKE
      MOVL  R0, STS

```

```

00000000G 00      0004 0000
              7E 7C 00002
              02 FB 00004
              50 D0 0000B

```

```

: 0199
: 0237
:

```

BPASWAKEUP
1-125

D 5
16-Sep-1984 01:41:42
14-Sep-1984 11:56:54

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

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	0F	52	E9	0000E	BLBC	STS, 1\$	
		7E	7C	00011	CLRQ	-(SP)	0239
00000000G	00	02	FB	00013	CALLS	#2, SYSSCANWAK	
	52	50	DO	0001A	MOVL	R0, STS	
	0A	52	E8	0001D	BLBS	STS, 2\$	
00000000G	00	52	DD	00020	PUSHL	STS	
		01	FB	00022	CALLS	#1, LIBSSIGNAL	
			04	00029	RET		
	50	01	DO	0002A	MOVL	#1, R0	0241
			04	0002D	RET		0242

; Routine Size: 46 bytes, Routine Base: _BPASCODE + 0000

: 151 0243 1
: 152 0244 1 !
: 153 0245 1 !<blf/page>

BPA\$WAKEUP
1-125

E 5
16-Sep-1984 01:41:42 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 11:56:54 [BASRTL.SRC]BPAWAKEUP.B32;1

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: 155 0246 1 END
: 156 0247 1
: 157 0248 0 ELUDOM

!End of module

.EXTRN LIB\$SIGNAL

PSECT SUMMARY

: Name Bytes Attributes
: _BPASCODE 46 NOVEC,NOVRT, 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 00:01.0

COMMAND QUALIFIERS

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

: Size: 46 code + 0 data bytes
: Run Time: 00:03.3
: Elapsed Time: 00:10.6
: Lines/CPU Min: 4455
: Lexemes/CPU-Min: 12718
: Memory Used: 41 pages
: Compilation Complete

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