


```

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LLLLLLLLLLL IIIII
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```



```
1 0001 0 MODULE TPROBE (
2 0002 0 IDENT = 'V04-000'
3 P 0003 0 %BLISS32[
4 P 0004 0 ADDRESSING_MODE(EXTERNAL=LONG_RELATIVE, NONEXTERNAL=LONG_RELATIVE)
5 0005 0 ]
6 0006 0 ) =
7 0007 1 BEGIN
8 0008 1
9 0009 1 *****
10 0010 1 *
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28 0028 1 *
29 0029 1 *
30 0030 1 *****
31 0031 1
32 0032 1 ++
33 0033 1 FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS
34 0034 1
35 0035 1 ABSTRACT: Checks to see if a keyword matches an entry.
36 0036 1
37 0037 1
38 0038 1 ENVIRONMENT: Transportable
39 0039 1
40 0040 1 AUTHOR: R.W.Friday CREATION DATE: May, 1978
41 0041 1
```

TPROBE
V04-000

Revision History

L 2
16-Sep-1984 01:55:55
14-Sep-1984 13:08:23

VAX-11 Bliss-32 V4.0-742
[RUNOFF.SRC]TPROBE.BLI;1

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(2)

:	43	0042	1	%SBTTL 'Revision History'		
:	44	0043	1			
:	45	0044	1	MODIFIED BY:		
:	46	0045	1			
:	47	0046	1	004	KAD00004	Keith Dawson 17-Mar-1983
:	48	0047	1		Fixed module name (was TPROB, now TPROBE).	
:	49	0048	1			
:	50	0049	1	003	KAD00003	Keith Dawson 07-Mar-1983
:	51	0050	1		Global edit of all modules. Updated module names, idents,	
:	52	0051	1		copyright dates. Changed require files to BLISS library.	
:	53	0052	1			
:	54	0053	1	--		

UNP
V04

T PROBE
V04-000

Module Level Declarations

M 2
16-Sep-1984 01:55:55
14-Sep-1984 13:08:23

```
VAX-11 Bliss-32 V4.0-742
[ RUNOFF.SRC ] TPROBE.BLI;1
```

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```

56      0054 1 %SBTTL 'Module Level Declarations'
57      0055 1
58      0056 1
59      0057 1 | TABLE OF CONTENTS:
60      0058 1 |
61      0059 1 |
62      0060 1 | INCLUDE FILES:
63      0061 1 |
64      0062 1
65      0063 1 LIBRARY 'NXPORT:XPORT';           ! XPORT Library
66      0064 1 REQUIRE 'REQ:RNODEF';           ! RUNOFF variant definitions
67      0195 1
68      U 0196 1 %IF DSRPLUS %THEN
69      U 0197 1 LIBRARY 'REQ:DPLLIB';           ! DSRPLUS BLISS Library
70      0198 1 %ELSE
71      0199 1 LIBRARY 'REQ:DSRLIB';           ! DSR BLISS Library
72      0200 1 %FI
73      0201 1
74      0202 1 |
75      0203 1 | EQUATED SYMBOLS:
76      0204 1 |
77      0205 1
78      0206 1 LITERAL
79      0207 1     ch_equal = 0,
80      0208 1     ch_lss = -1,
81      0209 1     ch_gtr = 1;
82      0210 1
83      0211 1 |
84      0212 1 | OWN STORAGE:
85      0213 1 |

```

UNPI
V04.

: R

S R E L

```
87 0214 1 GLOBAL ROUTINE tprobe (KEY, SIZE, ITEM) =
88 0215 1
89 0216 1 ++
90 0217 1 FUNCTIONAL DESCRIPTION:
91 0218 1
92 0219 1 Checks to see if 'key' is described by 'item'. If not, returns a
93 0220 1 condition code indicating how the search is to proceed. This
94 0221 1 routine is called only from FIND.
95 0222 1
96 0223 1 FORMAL PARAMETERS:
97 0224 1
98 0225 1 'Key' is the keyword to be checked. 'Size' is the length
99 0226 1 of the keyword. 'Item' is the entry in the keyword table against
100 0227 1 which 'key' is checked.
101 0228 1
102 0229 1 IMPLICIT INPUTS: None
103 0230 1
104 0231 1 IMPLICIT OUTPUTS: None
105 0232 1
106 0233 1 ROUTINE VALUE:
107 0234 1 COMPLETION CODES:
108 0235 1
109 0236 1 See TPROB.REQ for the completion codes.
110 0237 1
111 0238 1 SIDE EFFECTS: None
112 0239 1
113 0240 1 --
114 0241 1
115 0242 2 BEGIN
116 0243 2
117 0244 2 MAP
118 0245 2 item : REF VECTOR;
119 0246 2
120 0247 2 SELECTONE true OF
121 0248 2 SET
122 0249 2
123 0250 2 [.size EQL .item_length (item)] :
124 0251 2
125 0252 2 BEGIN
126 0253 2 LOCAL
127 0254 2 r;
128 0255 2 r = CH$COMPARE (.size, .key, .size, CH$PTR (p_word (item)));
129 0256 2
130 0257 2 CASE .r FROM -1 TO 1 OF
131 0258 2 SET
132 0259 2 [ch_equal] : RETURN found;
133 0260 2 [ch_lss] : RETURN try_above;
134 0261 2 [ch_gtr] : RETURN try_below;
135 0262 2 TES;
136 0263 2 END;
137 0264 2
138 0265 2 [.size GTR .item_length (item)] :
139 0266 2 BEGIN
140 0267 2 LOCAL
141 0268 2 r;
142 0269 2 siz;
143 0270 2
```



```

: 144      0271      3      siz = .item_length (item);
: 145      0272      r = CH$COMPARE (.siz, .key, .siz, CH$PTR (p_word (item)));
: 146      0273
: 147      0274      CASE .r FROM -1 TO 1 OF
: 148      0275      SET
: 149      0276      [ch_equal] :
: 150      0277      IF .kwitem_abbreviation (item)
: 151      0278      THEN
: 152      0279      RETURN try_below
: 153      0280      ELSE
: 154      0281      RETURN give_up;
: 155      0282      [ch_lss]      :      RETURN try_above;
: 156      0283      [ch_gtr]      :      RETURN try_below;
: 157      0284      TES;
: 158      0285
: 159      0286      END;
: 160      0287
: 161      0288      [.size LSS .item_length (item)] :
: 162      0289      BEGIN
: 163      0290      LOCAL
: 164      0291      r;
: 165      0292
: 166      0293      r = CH$COMPARE (.size, .key, .size, CH$PTR (p_word (item)));
: 167      0294
: 168      0295      CASE .r FROM -1 TO 1 OF
: 169      0296      SET
: 170      0297      [ch_equal] :
: 171      0298      IF .kwitem_abbreviation (item)
: 172      0299      THEN
: 173      0300      RETURN try_above
: 174      0301      ELSE
: 175      0302      IF .size GEQ .kwitem_minimum_match (item)
: 176      0303      THEN
: 177      0304      RETURN found
: 178      0305      ELSE
: 179      0306      RETURN try_above;
: 180      0307
: 181      0308      [ch_lss]      :      RETURN try_above;
: 182      0309
: 183      0310      [ch_gtr]      :      RETURN try_below;
: 184      0311      TES;
: 185      0312      END;
: 186      0313      TES      !No semicolon -- avoid compiler compalint.
: 187      0314
: 188      0315      1      END;      !End of TPROBE
```

```

      .TITLE  TPROBE
      .IDENT  \V04-000\
```

```

      .PSECT  $CODE$,NOWRT,2
```

```

      56      08      AC      DO      00000
      54      0C      AC      DO      00006
```

```

      .ENTRY  TPROBE, Save R2,R3,R4,R5,R6
      MOVL    SIZE, R6
      MOVL    ITEM, R4
```

```

: 0214
: 0250
:
```


00	B4	56	D1	0000A	CMPL	R6, @0(R4)	
	50	24	12	0000E	BNEQ	3\$	
	55	64	D0	00010	MOVL	(R4), R0	0255
04	A0	04	01	00013	MOVL	#1, R5	
	BC	56	29	00016	CMPC3	R6, @KEY, 4(R0)	
	55	03	1A	0001C	BGTRU	1\$	
	50	01	D9	0001E	SBWC	#1, R5	
02	FFFFFFF	55	D0	00021	MOVL	R5, R	
0071	0069	50	CF	00024	CASEL	R, #-1, #2	0261
		006D		0002C	.WORD	12\$-2\$,-	
						11\$-2\$,-	
						13\$-2\$	
		61	11	00032	BRB	11\$	
	51	2E	15	00034	BLEQ	7\$	0265
	50	00	B4	00036	MOVL	@0(R4), SIZ	0271
	55	64	D0	0003A	MOVL	(R4), R0	0272
04	A0	04	01	0003D	MOVL	#1, R5	
	BC	51	29	00040	CMPC3	SIZ, @KEY, 4(R0)	
	55	03	1A	00046	BGTRU	4\$	
	50	01	D9	00048	SBWC	#1, R5	
02	FFFFFFF	55	D0	0004B	MOVL	R5, R	
0047	0006	50	CF	0004E	CASEL	R, #-1, #2	0283
		0043		00056	.WORD	12\$-5\$,-	
						6\$-5\$,-	
						13\$-5\$	
3C	09	01	E0	0005C	BBS	#1, 9(R4), 13\$	0277
	A4	50	D4	00061	CLRL	R0	0281
			04	00063	RET		0283
	50	3A	18	00064	BGEQ	14\$	0288
	55	64	D0	00066	MOVL	(R4), R0	0293
04	A0	04	01	00069	MOVL	#1, R5	
	BC	56	29	0006C	CMPC3	R6, @KEY, 4(R0)	
	55	03	1A	00072	BGTRU	8\$	
	50	01	D9	00074	SBWC	#1, R5	
02	FFFFFFF	55	D0	00077	MOVL	R5, R	
001B	0006	50	CF	0007A	CASEL	R, #-1, #2	0310
		0017		00082	.WORD	12\$-9\$,-	
						10\$-9\$,-	
						13\$-9\$	
56	08	01	E0	00088	BBS	#1, 9(R4), 12\$	0298
	A4	00	ED	0008D	CMPZV	#0, #8, 8(R4), R6	0302
	08	04	14	00093	BGTR	12\$	
	50	01	D0	00095	MOVL	#1, R0	0304
	50		04	00098	RET		
	50	02	D0	00099	MOVL	#2, R0	0310
			04	0009C	RET		
		03	D0	0009D	MOVL	#3, R0	
		04	000A0	14\$:	RET		0315

; Routine Size: 161 bytes, Routine Base: \$CODE\$ + 0000

; 189 0316 1
; 190 0317 1 END
; 191 0318 0 ELUDOM

!End of module

PSECT SUMMARY

Name	Bytes	Attributes
\$CODES	161	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPI,ALIGN(2)

Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]XPORT.L32;1	590	0	0	252	00:00.1
_\$255\$DUA28:[RUNOFF.SRC]DSRLIB.L32;1	1248	9	0	86	00:00.3

COMMAND QUALIFIERS

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

Size: 161 code + 0 data bytes
Run Time: 00:04.7
Elapsed Time: 00:16.2
Lines/CPU Min: 4059
Lexemes/CPU-Min: 16480
Memory Used: 60 pages
Compilation Complete

0350 AH-BT13A-SE
VAX/VMS V4.0

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