


```

TTTTTTTTT1  PPPPPPP  RRRRRRRR  000000  BBBB8888  FEEEEEEEE
TTTTTTTTT1  PPPPPPP  RRRRRRRR  000000  BBBB8888  FEEEEEEEE
TT          PP      PP  RR      RR  00      00  BB      BB  FF
TT          PP      PP  RR      RR  00      00  BB      BB  FF
TT          PP      PP  RR      RR  00      00  BB      BB  FF
TT          PP      PP  RR      RR  00      00  BB      BB  FF
TT          PPPPPPP  RRRRRRRR  00      00  BBBB8888  FEEEEEEEE
TT          PPPPPPP  RRRRRRRR  00      00  BBBB8888  FEEEEEEEE
TT          PP      RR  RR      RR  00      00  BB      BB  FF
TT          PP      RR  RR      RR  00      00  BB      BB  FF
TT          PP      RR  RR      RR  00      00  BB      BB  FF
TT          PP      RR  RR      RR  00      00  BB      BB  FF
TT          PP      RR  RR      RR  000000  BBBB8888  FEEEEEEEE
TT          PP      RR  RR      RR  000000  BBBB8888  FEEEEEEEE

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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

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```

0001 0 MODULE TPROBE (
0002 0     IDENT = 'V04-000'
P 0003 0 %BLISS32[
0004 0     ADDRESSING_MODE(EXTERNAL=LONG_RELATIVE, NONEXTERNAL=LONG_RELATIVE)
0005 0     ]
0006 0     ) =
0007 1 BEGIN
0008 1
0009 1 *****
0010 1 *
0011 1 *   COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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0027 1 *   SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0028 1 *
0029 1 *
0030 1 *****
0031 1
0032 1 +-
0033 1 FACILITY:      DSR (Digital Standard RUNOFF) / DSRPLUS
0034 1
0035 1 ABSTRACT: Checks to see if a keyword matches an entry.
0036 1
0037 1
0038 1 ENVIRONMENT: Transportable
0039 1
0040 1 AUTHOR: R.W.Friday      CREATION DATE: May, 1978
0041 1

```

TPROBE
V04-000

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

Page 2
(2)

UNPI
V04

Revision History

..	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	!--


```

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 to 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_les]       :     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

```

: LI
: MI
: CC

Module Level Declarations

```

144 0271      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_les]      : 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_les]      : RETURN try_above;
182 0309      [ch_gtr]      : RETURN try_below;
183 0310      TES;
184 0311
185 0312      END;
186 0313      TES          !No semicolon -- avoid compiler compalint.
187 0314
188 0315      END;          !End of TPROBE

```

```

.TITLE TPROBE
.IDENT \V04-000\

```

```

.PSECT $CODE$,NOWRT,2

```

```

56      08      AC      DO      00002
54      0C      AC      DO      00006

```

```

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

```

```

: 0214
: 0250
:

```

Module Level Declarations

Module	Level	Declaration	Address	Code	Label	Instruction	Address	Page	
	00	B4	56	D1	0000A	CMP	R6, @0(R4)		
			24	12	0000E	BNEQ	3\$		
		50	64	D0	00010	MOVL	(R4), R0	0255	
		55	01	D0	00013	MOVL	#1, R5		
04	A0	04	56	29	00016	CMPC3	R6, @KEY, 4(R0)		
			03	1A	0001C	BGTRU	1\$		
		55	01	D9	0001E	SBWC	#1, R5		
		50	55	D0	00021	1\$: MOVL	R5, R		
	02	FFFFFFFF	50	CF	00024	CASEL	R, #-1, #2	0261	
	0071		006D		0002C	2\$: .WORD	12\$-2\$,- 11\$-2\$,- 13\$-2\$		
			61	11	00032	BRB	11\$		
			2E	15	00034	3\$: BLEQ	7\$	0265	
		51	00	84	D0	00036	MOVL	@0(R4), SIZ	0271
		50	64	D0	0003A	MOVL	(R4), R0	0272	
		55	01	D0	0003D	MOVL	#1, R5		
04	A0	04	51	29	00040	CMPC3	SIZ, @KEY, 4(R0)		
			03	1A	00046	BGTRU	4\$		
		55	01	D9	00048	SBWC	#1, R5		
		50	55	D0	0004B	4\$: MOVL	R5, R		
	02	FFFFFFFF	50	CF	0004E	CASEL	R, #-1, #2	0283	
	0047		0043		00056	5\$: .WORD	12\$-5\$,- 6\$-5\$,- 13\$-5\$		
			01	E0	0005C	6\$: BBS	#1, 9(R4), 13\$	0277	
		3C	50	D4	00061	CLRL	R0	0281	
				04	00063	RET		0283	
			3A	18	00064	7\$: BGEQ	14\$	0288	
		50	64	D0	00066	MOVL	(R4), R0	0293	
		55	01	D0	00069	MOVL	#1, R5		
04	A0	04	56	29	0006C	CMPC3	R6, @KEY, 4(R0)		
			03	1A	00072	BGTRU	8\$		
		55	01	D9	00074	SBWC	#1, R5		
		50	55	D0	00077	8\$: MOVL	R5, R		
	02	FFFFFFFF	50	CF	0007A	CASEL	R, #-1, #2	0310	
	001B		0017		00082	9\$: .WORD	12\$-9\$,- 10\$-9\$,- 13\$-9\$		
			01	E0	00088	10\$: BBS	#1, 9(R4), 12\$	0298	
56	08	0C A4	08	00	ED	0008D	CMPZV	#0, #8, 8(R4), R6	0302
				04	14	00093	BGTR	12\$	
		50	01	D0	00095	11\$: MOVL	#1, R0	0304	
				04	00098	RET			
		50	02	D0	00099	12\$: MOVL	#2, R0	0310	
				04	0009C	RET			
		50	03	D0	0009D	13\$: 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
SCODES	161	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,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

