





```

1 0001 0 MODULE gtabs ( IDENT = 'V04-000'
2 P 0002 0 %BLISS32[, ADDRESSING_MODE (EXTERNAL = LONG_RELATIVE,
3 0003 0 NONEXTERNAL = LONG_RELATIVE)]
4 0004 0 ) =
5 0005 1 BEGIN
6 0006 1
7 0007 1 *****
8 0008 1 *
9 0009 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *
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26 0026 1 *
27 0027 1 *
28 0028 1 *****
29 0029 1
30 0030 1 **
31 0031 1 FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS
32 0032 1
33 0033 1 ABSTRACT:
34 0034 1
35 0035 1 Collects and validates tabs when activated via a .TABS command.
36 0036 1
37 0037 1 ENVIRONMENT: Transportable
38 0038 1
39 0039 1 AUTHOR: R.W.Friday CREATION DATE: July, 1978
40 0040 1
41 0041 1

```

Revision History

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: 43 0042 1 %SBTTL 'Revision History'
: 44 0043 1
: 45 0044 1   MODIFIED BY:
: 46 0045 1
: 47 0046 1       003   RER00003   Ron Randall   07-Mar-1983
: 48 0047 1       Global edit of all modules. Updated module names, idents,
: 49 0048 1       copyright dates. Changed require files to BLISS library.
: 50 0049 1
: 51 0050 1   --
: 52 0051 1
```

Module Level Declarations

```
54 0052 1 %SBTTL 'Module Level Declarations'  
55 0053 1  
56 0054 1  
57 0055 1 : TABLE OF CONTENTS:  
58 0056 1 :  
59 0057 1 : INCLUDE FILES:  
60 0058 1 :  
61 0059 1 LIBRARY 'XPORT:XPORT'; : XPORT Library  
62 0060 1 REQUIRE 'REQ:RNODEF'; : RUNOFF variant definitions  
63 0191 1  
64 U 0192 1 %IF DSRPLUS %THEN  
65 U 0193 1 LIBRARY 'REQ:DPLLIB'; : DSRPLUS BLISS Library  
66 0194 1 %ELSE  
67 0195 1 LIBRARY 'REQ:DSRLIB'; : DSR BLISS Library  
68 0196 1 %FI  
69 0197 1  
70 0198 1 :  
71 0199 1 : EXTERNAL REFERENCES:  
72 0200 1 :  
73 0201 1 EXTERNAL  
74 0202 1 NMLST : NUMBER_LIST, :GLNM returns command parameters here  
75 0203 1 TTABLE : COUNTED_LIST; :Table of tab settings  
76 0204 1  
77 0205 1 EXTERNAL LITERAL :Error messages  
78 0206 1 RNFTMT;  
79 0207 1  
80 0208 1 EXTERNAL ROUTINE  
81 0209 1 ERMA,  
82 0210 1 GLNM;  
83 0211 1
```

```

85 0212 1 GLOBAL ROUTINE GTABS (HANDLER_CODE) : NOVALUE =
86 0213 1
87 0214 1
88 0215 1
89 0216 1
90 0217 1
91 0218 1
92 0219 1
93 0220 1
94 0221 1
95 0222 1
96 0223 1
97 0224 1
98 0225 1
99 0226 1
100 0227 1
101 0228 1
102 0229 1
103 0230 1
104 0231 1
105 0232 1
106 0233 1
107 0234 1
108 0235 1
109 0236 1
110 0237 1
111 0238 1
112 0239 1
113 0240 1
114 0241 1
115 0242 1
116 0243 1
117 0244 1
118 0245 1
119 0246 1
120 0247 1
121 0248 1
122 0249 1
123 0250 1
124 0251 1
125 0252 1
126 0253 2
127 0254 2
128 0255 2
129 0256 2
130 0257 2
131 0258 2
132 0259 2
133 0260 2
134 0261 2
135 0262 3
136 0263 3
137 0264 3
138 0265 2
139 0266 2
140 0267 2
141 0268 2

```

GLOBAL ROUTINE GTABS (HANDLER\_CODE) : NOVALUE =

++  
FUNCTIONAL DESCRIPTION:

GTABS calls GLNM to pick up a list of tab settings, and then validates them and sets up the new tab settings in TTABLE. In the normal case, the numbers are simply picked up, and become the new tab settings. However, there are the following special cases.

- 1) If no tab settings are given, the tab settings count (TTABLE[CL\_INDEX]) is set to zero to indicate that no tabs are to be expanded. However, the settings are left undisturbed, and can be recovered later.
- 2) If the user just specified a ',' instead of giving a value (i.e., NM\_NULL), the "old" tab stop setting is used as a parameter value instead. It undergoes the same validation that a normal setting would. In this way, tab settings "turned off", as described in 1) are recovered.

FORMAL PARAMETERS:

HANDLER\_CODE is not examined. It is passed to this routine for reasons of conformity only. It will always have the value H\_TAB\_STOPS.

IMPLICIT INPUTS:

The current setting of TTABLE is used as input.

IMPLICIT OUTPUTS: None

ROUTINE VALUE: None

COMPLETION CODES: None

SIDE EFFECTS: None

--

```

BEGIN
LOCAL
PREVIOUS_TAB,
TEMP;

GLNM (0);                !Request maximum number of tabs

IF .NMLST_COUNT EQL 0
THEN
BEGIN
TTABLE [CL_INDEX] = 0;    !Turn off all tabs
RETURN;
END;

IF .NMLST_COUNT GTR .TTABLE [CL_MAX_INDEX]
THEN

```

```

: 142      0269      3      BEGIN
: 143      0270      3      ERMA (RNFTMT, FALSE);           !Too many tab settings
: 144      0271      3      NMLST_COUNT = .TTABLE [CL_MAX_INDEX]; !Fix it up
: 145      0272      3      END;
: 146      0273      3
: 147      0274      3      PREVIOUS_TAB = 0;
: 148      0275      3
: 149      0276      3      INCR I FROM 1 TO .NMLST_COUNT DO
: 150      0277      3      BEGIN
: 151      0278      3
: 152      0279      3      IF .NMLST_DESCR (.I) EQL NM_BAD
: 153      0280      3      THEN
: 154      0281      3      TEMP = .TTABLE [.I]           !Use old value instead
: 155      0282      3      ELSE
: 156      0283      3
: 157      0284      3      IF .NMLST_DESCR (.I) EQL NM_NULL
: 158      0285      3      THEN
: 159      0286      3      TEMP = .TTABLE [.I]
: 160      0287      3      ELSE
: 161      0288      3
: 162      0289      3      IF .NMLST_DESCR (.I) EQL NM_UNSIGNED
: 163      0290      3      THEN
: 164      0291      3      TEMP = .NMLST_VALUE (.I)
: 165      0292      3      ELSE
: 166      0293      3      !A signed value to adjust this tab setting.
: 167      0294      3      TEMP = .TTABLE [.I] + .NMLST_VALUE (.I);
: 168      0295      3
: 169      0296      3      !At this point, TEMP contains the number that might become
: 170      0297      3      !the new tab setting.
: 171      0298      3      !The null case has been resolved by applying the 'old' setting.
: 172      0299      3      TTABLE [.I] = .TEMP;           !Tab setting is ok
: 173      0300      3      PREVIOUS_TAB = .TEMP;
: 174      0301      3      TTABLE [CL_INDEX] = .I;
: 175      0302      3      END;
: 176      0303      3
: 177      0304      3      END;

```

!End of GTABS

```

.TITLE  GTABS
.IDENT  \V04-000\

.EXTRN  NMLST, TTABLE, RNFTMT
.EXTRN  ERMA, GLNM

.PSECT  $CODE$,NOWRT,2

.ENTRY  GTABS, Save R2,R3,R4,R5
MOVAB   NMLST, R5
MOVAB   TTABLE+4, R4
CLRL    -(SP)
CALLS   #1, GLNM
MOVL    NMLST, R0
BNEQ    1$
CLRL    TTABLE+4
RET
CMPL    R0, TTABLE
BLEQ    2$

```

```

003C 0000
55 00000000G EF 9E 00002
54 00000000G EF 9E 00009
00000000G EF 7E D4 00010
50 EF 01 FB 00012
50 65 D0 00019
03 03 12 0001C
64 D4 0001E
04 04 00020
FC A4 50 D1 00021 1$:
13 15 00025

```

```

: 0212
:
: 0258
:
: 0260
:
: 0263
: 0262
: 0267
:

```

			7E	D4	00027		CLRL	-(SP)	:	0270
		00000000G	8F	DD	00029		PUSHL	#RNFTMT	:	
	00000000G	EF	02	FB	0002F		CALLS	#2, ERMA	:	
		65	FC	A4	D0 00036		MOVL	TTABLE, NMLST	:	0271
				53	D4 0003A	2\$:	CLRL	PREVIOUS_TAB	:	0274
				50	D4 0003C		CLRL	I	:	0276
				30	11 0003E		BRB	8\$	:	
	51	00A0	C540	D0	00040	3\$:	MOVL	NMLST+160[I], R1	:	0279
	04			51	D1 00046		CMPL	R1, #4	:	
				04	13 00049		BEQL	4\$	:	
				51	D5 0004B		TSTL	R1	:	0284
				06	12 0004D		BNEQ	5\$	:	
	52		6440	D0	0004F	4\$:	MOVL	TTABLE+4[I], TEMP	:	0286
				11	11 00053		BRB	7\$	:	
	01			51	D1 00055	5\$:	CMPL	R1, #1	:	0289
				06	12 00058		BNEQ	6\$	:	
	52		6540	D0	0005A		MOVL	NMLST[I], TEMP	:	0291
				06	11 0005E		BRB	7\$	:	
	52	6440	6540	C1	00060	6\$:	ADDL3	NMLST[I], TTABLE+4[I], TEMP	:	0294
		6440		52	D0 00066	7\$:	MOVL	TEMP, TTABLE+4[I]	:	0299
		53		52	D0 0006A		MOVL	TEMP, PREVIOUS_TAB	:	0300
		64		50	D0 0006D		MOVL	I, TTABLE+4	:	0301
	CC	50		65	F3 00070	8\$:	AOBLEQ	NMLST, I, 3\$	:	0276
				04	00074		RET		:	0304

: Routine Size: 117 bytes, Routine Base: \$CODE\$ + 0000

```

: 178      0305 1
: 179      0306 1 END           !End of module
: 180      0307 0 ELUDOM

```

PSECT SUMMARY

Name	Bytes	Attributes
\$CODE\$	117	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)

Library Statistics

File	Symbols		Percent	Pages Mapped	Processing Time
	Total	Loaded			
_\$255\$DUA28:[SYSLIB]XPORT.L32;1	590	0	0	252	00:00.1
_\$255\$DUA28:[RUNOFF.SRC]DSRLIB.L32;1	1248	14	1	86	00:00.3



COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LISS:GTABS/OBJ=OBJ\$:GTABS MSRCS:GTABS/UPDATE=(ENHS·GTABS)

: Size: 117 code + 0 data bytes  
: Run Time: 00:04.3  
: Elapsed Time: 00:15.8  
: Lines/CPU Min: 4244  
: Lexemes/CPU-Min: 17350  
: Memory Used: 51 pages  
: Compilation Complete

