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0001 0 %TITLE 'Get one character'
0002 0 MODULE getone ( IDENT = 'v04-000'
P 0003 0 %BLISS32[, ADDRESSING_MODE (EXTERNAL = LONG_RELATIVE,
0004 0 NONEXTERNAL = LONG_RELATIVE)]
0005 0 ) =
0006 1 BEGIN
0007 1
0008 1 *****
0009 1 *
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0027 1 *
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0029 1 *****
0030 1
0031 1 **
0032 1 FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS
0033 1
0034 1 ABSTRACT: Get one character, applying flag recognition.
0035 1
0036 1 ENVIRONMENT: Transportable
0037 1
0038 1 AUTHOR: R.W.Friday CREATION DATE: May, 1978
0039 1
0040 1

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: 42 0041 1 %SBTTL 'Revision History'
: 43 0042 1
: 44 0043 1   MODIFIED BY:
: 45 0044 1
: 46 0045 1   011   REM00011   Ray Marshall   17-November-1983
: 47 0046 1   Modified the external definition of ATABLE to use the new
: 48 0047 1   macro ATABLE_DEFINITION defined in ATCODE.REQ.
: 49 0048 1
: 50 0049 1   010   RER00010   Ron Randall   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   --
: 55 0054 1
```

```

: 57      0055 1 %SBTTL 'Module Level Declarations'
: 58      0056 1
: 59      0057 1
: 60      0058 1 : TABLE OF CONTENTS:
: 61      0059 1
: 62      0060 1 : INCLUDE FILES:
: 63      0061 1
: 64      0062 1 LIBRARY 'NXPORT:XPORT';           ! XPORT Library
: 65      0063 1 REQUIRE 'REQ:RNODEF';           ! RUNOFF variant definitions
: 66      0194 1
: 67      U 0195 1 %IF DSRPLUS %THEN
: 68      U 0196 1 LIBRARY 'REQ:DPLLIB';           ! DSRPLUS BLISS Library
: 69      0197 1 %ELSE
: 70      0198 1 LIBRARY 'REQ:DSRLIB';           ! DSR BLISS Library
: 71      0199 1 %FI
: 72      0200 1
: 73      0201 1
: 74      0202 1 : EXTERNAL RE'ERENCES:
: 75      0203 1
: 76      0204 1 EXTERNAL LITERAL
: 77      0205 1   RINTES : UNSIGNED (8);
: 78      0206 1
: 79      0207 1 EXTERNAL
: 80      0208 1   atable : atable_definition, ! Action table. Used to identify what type of
: 81      0209 1   ! action is to be taken on encountering any
: 82      0210 1   ! given character.
: 83      0211 1   FLGT : FLAG_TABLE [FLAG_COUNT],
: 84      0212 1   IRA : FIXED_STRING,
: 85      0213 1   KHAR,
: 86      0214 1   SCA : SCA_DEFINITION;
: 87      0215 1
: 88      0216 1 EXTERNAL ROUTINE
: 89      0217 1   FNDFLG,
: 90      0218 1   RSKIPS;
: 91      0219 1

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93 0220 1 GLOBAL ROUTINE GETONE (ACCEPTABLE,ALTERNATE) =
94 0221 1
95 0222 1
96 0223 1  +-+
97 0224 1  FUNCTIONAL DESCRIPTION:
98 0225 1      Skip spaces and tabs until a different character is found.
99 0226 1  If that character is <CONTROL flag>, or RINTES (i.e., end of record),
100 0227 1  or a semicolon, return a zero (null character). If the character
101 0228 1  is the accept (quote) flag, apply the flag against the next
102 0229 1  character. If the character is the flag already in effect for this
103 0230 1  flag operation or a special cased ALTERNATE, take it without complaining.
104 0231 1  If the character is any other flag, then return the negative of the
105 0232 1  character's value so that the caller (OFT) may complain with RNFFAU
106 0233 1  (flag already in use).
107 0234 1
108 0235 1  FORMAL PARAMETERS:
109 0236 1
110 0237 1      ACCEPTABLE is the value of the flag character for the current
111 0238 1      .FLAGS or .NO FLAGS command.
112 0239 1
113 0240 1      ALTERNATE is the value of the flag character for an alternately
114 0241 1      acceptable flag.
115 0242 1
116 0243 1  IMPLICIT INPUTS:      None
117 0244 1
118 0245 1  IMPLICIT OUTPUTS:     None
119 0246 1
120 0247 1  ROUTINE VALUE:
121 0248 1  COMPLETION CODES:
122 0249 1
123 0250 1      The routine returns the value of the character supplied; or zero if
124 0251 1      the character was not a flag; or -1*<character-value> if the character
125 0252 1      was the same character as that used for another flag. The negative
126 0253 1      return value represents an error condition that the caller (OFT) has
127 0254 1      the responsibility of reporting.
128 0255 1
129 0256 1  SIDE EFFECTS:          None
130 0257 1  --
131 0258 1
132 0259 2  BEGIN
133 0260 2  RSKIPS (IRA);          !Skip spaces and tabs.
134 0261 2
135 0262 2  IF .KHAR EQL RINTES
136 0263 2  THEN
137 0264 2  RETURN 0;          !End of record.
138 0265 2
139 0266 2  IF .KHAR EQL .FLGT [CON_FLAG, FLAG_CHARACTER]
140 0267 2  THEN
141 0268 2  !<CONTROL flag>
142 0269 2  RETURN 0;          !Start of a new command.
143 0270 2
144 0271 2  IF .ATABLE [.KHAR] EQL A_FLAG
145 0272 2  THEN
146 0273 2  !Character is a flag. Do it.
147 0274 3  BEGIN
148 0275 3  LOCAL
149 0276 3  WHICH_FLAG;

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```
150 0277 3
151 0278 3
152 0279 3
153 0280 3
154 0281 3
155 0282 3
156 0283 3
157 0284 4
158 0285 4
159 0286 4
160 0287 4
161 0288 4
162 0289 4
163 0290 4
164 0291 4
165 0292 4
166 0293 4
167 0294 4
168 0295 4
169 0296 4
170 0297 4
171 0298 4
172 0299 4
173 0300 4
174 0301 4
175 0302 4
176 0303 4
177 0304 4
178 0305 4
179 0306 5
180 0307 5
181 0308 5
182 0309 5
183 0310 5
184 0311 5
185 0312 5
186 0313 4
187 0314 4
188 0315 3
189 0316 3
190 0317 3
191 0318 4
192 0319 4
193 0320 4
194 0321 4
195 0322 4
196 0323 4
197 0324 4
198 0325 3
199 0326 3
200 0327 3
201 0328 4
202 0329 4
203 0330 4
204 0331 4
205 0332 4
206 0333 4

WHICH_FLAG = FNDFLG (.KHAR);           !Identify the flag.

CASE WHICH_FLAG FROM 0 TO FLAG_COUNT + 1 OF
SET
  [QUO FLAG] :
  BEGIN
  !<QUOTE flag>
  LOCAL
  HOLD_QUO;
  HOLD_QUO = .KHAR;
  KCNS ();                               !Get next character

  IF .KHAR EQL RINTES
  THEN

    IF .WHICH_FLAG EQL .ACCEPTABLE OR
    .WHICH_FLAG EQL .ALTERNATE
    ! User is redefining <QUOTE flag> to itself or an
    ! acceptable alternate (if there is such a thing). Let him.
    THEN
    RETURN .HOLD_QUO
    ! User is trying to define some other flag to the
    ! <QUOTE flag>. Let OFT complain.
    ELSE
    RETURN -.HOLD_QUO

  ELSE
  BEGIN
  LOCAL
  HOLD_KHAR;

  HOLD_KHAR = .KHAR;
  KCNS ();
  RETURN .HOLD_KHAR;
  END;

  END;

[FLAG_COUNT + 1] :
BEGIN
LOCAL
HOLD_CHAR;

HOLD_CHAR = .KHAR;
KCNS ();
RETURN .HOLD_CHAR;
END;

[INRANGE] :
BEGIN
LOCAL
HOLD_CHAR;

HOLD_CHAR = .KHAR;
KCNS ();
```


GETONE
V04-000

Get one character
Module Level Declarations

M 4
16-Sep-1984 00:40:20 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 13:06:33 [RUNOFF.SRC]GETONE.BLI;1

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(4)

51		51	CE 000D3	MNEGL	HOLD CHAR, R1
50		51	D0 000D6 14\$:	MOVL	R1, R0
			04 000D9	RET	
38		64	D1 000DA 15\$:	CMPL	KHAR, #59
			18 13 000DD	BEQL	17\$
50		64	D0 000DF	MOVL	KHAR, HOLD_KHAR
			63 D5 000E2	TSTL	IRA+12
			07 14 000E4	BGTR	16\$
64		55	9A 000E6	MOVZBL	R5, KHAR
63		01	CE 000E9	MNEGL	#1, IRA+12
			04 000EC	RET	
64	F8	B3	9A 000ED 16\$:	MOVZBL	@IRA+4, KHAR
	F8	A3	D6 000F1	INCL	IRA+4
			63 D7 000F4	DECL	IRA+12
			04 000F6	RET	
		50	D4 000F7 17\$:	CLRL	R0
			04 000F9	RET	

: 0342
: 0328
: 0350
: 0358
: 0359
: 0360
: 0362

: Routine Size: 250 bytes, Routine Base: \$CODE\$ + 0000

: 236 0363 1
: 237 0364 1 END
: 238 0365 0 ELUDOM

!End of module

PSECT SUMMARY

Name	Bytes	Attributes
\$CODE\$	250	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:[RJNOFF.SRC]DSRLIB.L32;1	1248	17	1	86	00:00.2

COMMAND QUALIFIERS

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

