


```

GGGGGGGG  EEEEEEEEEE  TTTTTTTTTT  QQQQQQ  SSSSSSSS
GGGGGGGG  EEEEEEEEEE  TTTTTTTTTT  QQQQQQ  SSSSSSSS
GG          EE          TT          QQ          SS
GG          EE          TT          QQ          SS
GG          EE          TT          QQ          SS
GG          EE          TT          QQ          SS
GG          EEEEEEEE  TT          QQ          SS
GG          EEEEEEEE  TT          QQ          SS
GG          EE          TT          QQ          SS
GG          EE          TT          QQ          SS
GG          EE          TT          QQ          SS
GG          EE          TT          QQ          SS
GGGGGG  EEEEEEEEEE  TT          QQ          SS
GGGGGG  EEEEEEEEEE  TT          QQ          SS

```

```

LL          IIIIIII  SSSSSSSS
LL          IIIIIII  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 IIIIIII  SSSSSSSS
LLLLLLLLLL IIIIIII  SSSSSSSS

```



```

1 0001 0 MODULE getqs ( 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: Isolates a string delimited by ' ' or ' '.
34 0034 1
35 0035 1 ENVIRONMENT: Transportable
36 0036 1
37 0037 1 AUTHOR: R.W.Friday CREATION DATE: May, 1978
38 0038 1
39 0039 1

```

GETQS
V04-000

Revision History

K 5
16-Sep-1984 00:41:08
14-Sep-1984 13:06:34

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[RUNOFF.SRC]GETQS.BLI;1 Page 2 (2)

:	41	0040	1	XSBTTL 'Revision History'
:	42	0041	1	
:	43	0042	1	MODIFIED BY:
:	44	0043	1	
:	45	0044	1	003 RER00003 Ron Randall 07-Mar-1983
:	46	0045	1	Global edit of all modules. Updated module names, idents,
:	47	0046	1	copyright dates. Changed require files to BLISS library.
:	48	0047	1	
:	49	0048	1	--
:	50	0049	1	

GLB
V04-

Module Level Declarations

```
52 0050 1 %SBTTL 'Module Level Declarations'
53 0051 1
54 0052 1
55 0053 1 : TABLE OF CONTENTS:
56 0054 1
57 0055 1 : INCLUDE FILES:
58 0056 1
59 0057 1 LIBRARY 'NXPORT:XPORT'; : XPORT Library
60 0058 1 REQUIRE 'REQ:RNODEF'; : RUNOFF variant definitions
61 0189 1
62 U 0190 1 %IF DSRPLUS %THEN
63 U 0191 1 LIBRARY 'REQ:DPLLIB'; : DSRPLUS BLISS Library
64 0192 1 %ELSE
65 0193 1 LIBRARY 'REQ:DSRLIB'; : DSR BLISS Library
66 0194 1 %FI
67 0195 1
68 0196 1
69 0197 1 : EXTERNAL REFERENCES:
70 0198 1
71 0199 1 EXTERNAL LITERAL
72 0200 1 RINTES : UNSIGNED (8);
73 0201 1
74 0202 1 EXTERNAL
75 0203 1 IRA : FIXED_STRING,
76 0204 1 KHAR;
77 0205 1
```

```

79 0206 1 GLOBAL ROUTINE GETQS (OUTPUT) =
80 0207 1
81 0208 1  +-+
82 0209 1  FUNCTIONAL DESCRIPTION:
83 0210 1
84 0211 1      GETQS expects the next input character to be either a '"'
85 0212 1      or a '''''. It collects all characters up through the
86 0213 1      matching '"' or '''' and returns them in OUTPUT.
87 0214 1
88 0215 1  FORMAL PARAMETERS:
89 0216 1
90 0217 1      The results are returned in OUTPUT.
91 0218 1
92 0219 1  IMPLICIT INPUTS:      None
93 0220 1
94 0221 1  IMPLICIT OUTPUTS:    None
95 0222 1
96 0223 1  ROUTINE VALUE:
97 0224 1  COMPLETION CODES:
98 0225 1
99 0226 1      See GETQSC.REQ for a list of completion codes.
100 0227 1
101 0228 1  -- SIDE EFFECTS:      None
102 0229 1  --
103 0230 1
104 0231 2  BEGIN
105 0232 2  LOCAL
106 0233 2  TERMINATOR;
107 0234 2
108 0235 2  MAP
109 0236 2  OUTPUT : REF FIXED_STRING;
110 0237 2
111 0238 2  IF .KHAR EQL RINTES
112 0239 2  THEN                                     !Nothing on line.
113 0240 2  RETURN GETQS_NONE;
114 0241 2
115 0242 3  TERMINATOR = (SELECTONE .KHAR OF
116 0243 3  SET
117 0244 3  [%C'''' , %C''] : .KHAR;
118 0245 3  [OTHERWISE] : RETURN GETQS_NONE;
119 0246 2  TES);
120 0247 2
121 0248 2  FS_INIT (OUTPUT);
122 0249 2  KCNS ();                                     !Skip over the initial delimiter.
123 0250 2
124 0251 2  WHILE .KHAR NEQ RINTES
125 0252 2  AND .KHAR NEQ .TERMINATOR DO
126 0253 3  BEGIN
127 0254 3
128 0255 3  IF .FS_LENGTH (OUTPUT) EQL .FS_MAXSIZE (OUTPUT)
129 0256 3  THEN
130 0257 4  BEGIN                                     !Skip extra characters.
131 0258 4
132 0259 4  WHILE .KHAR NEQ RINTES
133 0260 4  AND (.KHAR NEQ .TERMINATOR) DO
134 0261 4  KCNS ();
135 0262 4

```

```

136 0263 4          IF .KHAR EQL .TERMINATOR
137 0264 4          THEN
138 0265 4          KCNS ();
139 0266 4
140 0267 4          RETURN GETQS_TOO_LONG;
141 0268 4          END;
142 0269 3
143 0270 3          FS WCHAR (OUTPUT, .KHAR);
144 0271 3          KCNS ();
145 0272 2          END;
146 0273 2
147 0274 2          IF .KHAR NEQ RINTES
148 0275 2          THEN
149 0276 2          KCNS ()
150 0277 2          ELSE
151 0278 2          RETURN GETQS_BAD;
152 0279 2
153 0280 2          !Reset pointer to start of result, so user can do a simple
154 0281 2          !series of fs_rchar's to process it.
155 0282 2          FS_NEXT (OUTPUT) = .FS_START (OUTPUT);
156 0283 2          RETURN GETQS_NORMAL
157 0284 1          END;

```

!Get next character.

!Skip delimiter, unless it's end of record.

!Trailing terminator missing.

!End of GETQS

.TITLE GETQS
.IDENT \V04-000\

.EXTRN RINTES, IRA, KHAR

.PSECT \$CODE\$,NOWRT,2

			001C 00000	.ENTRY GETQS, Save R2,R3,R4	: 0206
54	00G	8F	9A 00002	MOVZBL #RINTES, R4	
53	00000000G	EF	9E 00006	MOVAB KHAR, R3	
52	00000000G	EF	9E 00000	MOVAB IRA+12, R2	
50		63	D0 00014	MOVL KHAR, R0	: 0238
54		50	D1 00017	C MPL R0, R4	
		0A	13 0001A	BEQL 1\$	
22		50	D1 0001C	C MPL R0, #34	: 0244
		09	13 0001F	BEQL 2\$	
27		50	D1 00021	C MPI R0, #39	
		04	13 00024	BEQL 2\$	
50		03	D0 00026	MOVL #3, R0	: 0245
		04	00029	RET	
51	04	AC	D0 0002A	MOVL OUTPUT, R1	: 0248
	0C	A1	D4 0002E	CLRL 12(R1)	
61	10	A1	9E 00031	MOVAB 16(R1), (R1)	
04	A1	61	D0 00035	MOVL (R1), 4(R1)	
		63	11 00039	BRB 11\$: 0249
63	F8	B2	9A 0003B	MOVZBL @IRA+4, KHAR	
	F8	A2	D6 0003F	INCL IRA+4	
		62	D7 00042	DECL IRA+12	
54		63	D1 00044	C MPL KHAR, R4	: 0251
		61	13 00047	BEQL 12\$	
50		63	D1 00049	C MPL KHAR, TERMINATOR	: 0252
		5C	13 0004C	BEQL 12\$	
08	A1	0C	A1 D1 0004E	C MPL 12(R1), 8(R1)	: 0255

		3F	12	00053		BNEQ	10\$		
	54	63	D1	00055	5\$:	CMPL	KHAR, R4		0259
		1C	13	00058		BEQL	7\$		
	50	63	D1	0005A		CMPL	KHAR, TERMINATOR		0260
		17	13	0005D		BEQL	7\$		
		62	D5	0005F		TSTL	IRA+12		0261
		08	14	00061		BGTR	6\$		
	63	54	9A	00063		MOVZBL	R4, KHAR		
	62	01	CE	00066		MNEGL	#1, IRA+12		
		EA	11	00069		BRB	5\$		
	63	F8	B2	9A	0006B	6\$:	MOVZBL	@IRA+4, KHAR	
		F8	A2	D6	0006F		INCL	IRA+4	
		62	D7	00072		DECL	IRA+12		
		DF	11	00074		BRB	5\$		
	50	63	D1	00076	7\$:	CMPL	KHAR, TERMINATOR		0263
		15	12	00079		BNEQ	9\$		
		62	D5	0007B		TSTL	IRA+12		0265
		08	14	0007D		BGTR	8\$		
	63	54	9A	0007F		MOVZBL	R4, KHAR		
	62	01	CE	00082		MNEGL	#1, IRA+12		
		09	11	00085		BRB	9\$		
	63	F8	B2	9A	00087	8\$:	MOVZBL	@IRA+4, KHAR	
		F8	A2	D6	0008B		INCL	IRA+4	
		62	D7	0008E		DECL	IRA+12		
	50	02	D0	00090	9\$:	MOVL	#2, R0		0267
		04	04	00093		RET			
04	B1	63	90	00094	10\$:	MOVB	KHAR, @4(R1)		0270
		04	A1	D6	00098		INCL	4(R1)	
		0C	A1	D6	0009B		INCL	12(R1)	
		62	D5	0009E	11\$:	TSTL	IRA+12		0271
		99	14	000A0		BGTR	3\$		
	63	54	9A	000A2		MOVZBL	R4, KHAR		
	62	01	CE	000A5		MNEGL	#1, IRA+12		
		9A	11	000A8		BRB	4\$		
	54	63	D1	000AA	12\$:	CMPL	KHAR, R4		0274
		17	13	000AD		BEQL	14\$		
		62	D5	000AF		TSTL	IRA+12		0276
		08	14	000B1		BGTR	13\$		
	63	54	9A	000B3		MOVZBL	R4, KHAR		
	62	01	CE	000B6		MNEGL	#1, IRA+12		
		0F	11	000B9		BRB	15\$		
	63	F8	B2	9A	000BB	13\$:	MOVZBL	@IRA+4, KHAR	
		F8	A2	D6	000BF		INCL	IRA+4	
		62	D7	000C2		DECL	IRA+12		
		04	11	000C4		BRB	15\$		
	50	01	D0	000C6	14\$:	MOVL	#1, R0		0278
		04	04	000C9		RET			
04	A1	61	D0	000CA	15\$:	MOVL	(R1), 4(R1)		0282
		50	D4	000CE		CLRL	R0		0283
		04	04	000D0		RET			0284

: Routine Size: 209 bytes, Routine Base: \$CODE\$ + 0000

: 158 0285 1
: 159 0286 1 END
: 160 0287 0 ELUDOM

!End of module

000
000

000
000

000
000

PSECT SUMMARY

Name	Bytes	Attributes
\$CODE\$	209	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	17	1	86	00:00.3

COMMAND QUALIFIERS

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

Size: 209 code + 0 data bytes
 Run Time: 00:05.9
 Elapsed Time: 00:14.8
 Lines/CPU Min: 2898
 Lexemes/CPU-Min: 19767
 Memory Used: 77 pages
 Compilation Complete

