

[illegible]


```
0001 0 MODULE lit ( IDENT = 'V04-000'
P 0002 0 %BLISS32C, ADDRESSING_MODE (EXTERNAL = LONG_RELATIVE,
0003 0 NONEXTERNAL = LONG_RELATIVE)
0004 0 ) =
0005 1 BEGIN
0006 1
0007 1 *****
0008 1 *
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0026 1 *
0027 1 *
0028 1 *****
0029 1
0030 1 ++
0031 1 FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS
0032 1
0033 1 ABSTRACT:
0034 1
0035 1 Processes the .LITERAL and .END LITERAL commands, as well
0036 1 as the text within the literal.
0037 1
0038 1 ENVIRONMENT: Transportable
0039 1
0040 1 AUTHOR: R.W.Friday CREATION DATE: June, 1978
0041 1
0042 1
```


LIT
V04-000

Revision History

B 1
16-Sep-1984 00:48:45
14-Sep-1984 13:06:53

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[RUNOFF.SRC]LIT.BLI;1 Page 2
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:	44	0043	1	%SBTTL 'Revision History'
:	45	0044	1	
:	46	0045	1	MODIFIED BY:
:	47	0046	1	
:	48	0047	1	003 RER00003 Ron Randall 07-Mar-1983
:	49	0048	1	Global edit of all modules. Updated module names, idents,
:	50	0049	1	copyright dates. Changed require files to BLISS library.
:	51	0050	1	
:	52	0051	1	--
:	53	0052	1	

LIT
V04-000

Module Level Declarations

C 1
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14-Sep-1984 13:06:53

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```

: 55      0053 1 %SBTTL 'Module Level Declarations'
: 56      0054 1
: 57      0055 1
: 58      0056 1 | TABLE OF CONTENTS:
: 59      0057 1
: 60      0058 1 | INCLUDE FILES:
: 61      0059 1
: 62      0060 1 LIBRARY 'NXPORT:XPORT';      ! XPORT Library
: 63      0061 1 REQUIRE 'REQ:RNODEF';      ! RUNOFF variant definitions
: 64      0192 1
: 65      U 0193 1 %IF DSRPLUS %THEN
: 66      U 0194 1 LIBRARY 'REQ:DPLLIB';      ! DSRPLUS BLISS Library
: 67      0195 1 %ELSE
: 68      0196 1 LIBRARY 'REQ:DSRLIB';      ! DSR BLISS Library
: 69      0197 1 %FI
: 70      0198 1
: 71      0199 1
: 72      0200 1 | EXTERNAL REFERENCES:
: 73      0201 1
: 74      0202 1 EXTERNAL
: 75      0203 1     GCA : GCA DEFINITION,
: 76      0204 1     IRA : FIXED STRING,
: 77      0205 1     NUMPRM : NUMPRM DEFINE,
: 78      0206 1     SCA : SCA DEFINITION,
: 79      0207 1     SCALIT : VECTOR [SCA_CASE_SIZE];
: 80      0208 1
: 81      0209 1 EXTERNAL LITERAL
: 82      0210 1     RNFELD,
: 83      0211 1     RNFINM,
: 84      0212 1     RNFLDE;
: 85      0213 1
: 86      0214 1 EXTERNAL ROUTINE
: 87      0215 1     ERMA,
: 88      0216 1     ERMB,
: 89      0217 1     OFT,
: 90      0218 1     STKFRM;

```

! Error messages

LIT
V04-000

Module Level Declarations

D 1
16-Sep-1984 00:48:45
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```

92 0219 1 GLOBAL ROUTINE LIT (HANDLER_CODE) : NOVALUE =
93 0220 1
94 0221 1 ++
95 0222 1 FUNCTIONAL DESCRIPTION:
96 0223 1
97 0224 1 See the ABSTRACT, above.
98 0225 1
99 0226 1 FORMAL PARAMETERS:
100 0227 1
101 0228 1 If HANDLER_CODE is zero, process text instead of commands.
102 0229 1
103 0230 1 IMPLICIT INPUTS:
104 0231 1
105 0232 1 NUMPRM contains a number, as processed by GETNUM.
106 0233 1
107 0234 1 IMPLICIT OUTPUTS: None
108 0235 1
109 0236 1 ROUTINE VALUE:
110 0237 1 COMPLETION CODES: None
111 0238 1
112 0239 1 SIDE EFFECTS: None
113 0240 1 --
114 0241 1
115 0242 2 BEGIN
116 0243 2
117 0244 2 SELECTONE .HANDLER_CODE OF
118 0245 2 SET
119 0246 2
120 0247 2 [0] :
121 0248 3 BEGIN !Count text inside a literal.
122 0249 3
123 0250 3 LOCAL
124 0251 3 KOUNT;
125 0252 3
126 0253 3 IF .GCA_CLIT
127 0254 3 THEN
128 0255 3
129 0256 3 IF .GCA_LIT_COUNT LEQ 0
130 0257 3 THEN
131 0258 4 BEGIN !Literal count is wrong (too big)
132 0259 4 ERMB (RNFLDE, FALSE);
133 0260 4 GCA_LITERAL = FALSE; !Turn off literal mode
134 0261 4 STKFRM (-1); !Restore previous settings
135 0262 4 OFT (.GCA_LIT_FLAG, 0); !Restore flag status
136 0263 4
137 0264 4 INCR I FROM 0 TO SCA_CASE_SIZE - 1 DO
138 0265 4 SCA [I] = .SCALIT [I]; !Restore case rules.
139 0266 4
140 0267 4 END
141 0268 3 ELSE
142 0269 3 GCA_LIT_COUNT = .GCA_LIT_COUNT - 1;
143 0270 3
144 0271 2 END;
145 0272 2
146 0273 2 [H_LITERAL] :
147 0274 3 BEGIN
148 0275 3 GCA_LITERAL = TRUE; !Turn on literal mode.
```


LIT
V04-000

Module Level Declarations

E 1
16-Sep-1984 00:48:45
14-Sep-1984 13:06:53

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```

149      0276      3      GCA_CLIT = FALSE;                !Assume not a counted literal
150      0277      3      GCA_LIT_COUNT = 0;
151      0278      3      !Remember current flag recognition status.
152      0279      3      GCA_LIT_FLAG = .GCA_FLAG_CMD;
153      0280      3      !Turn off flags
154      0281      3      !Save current status
155      0282      3      STKFRM (0);
156      0283      3      OFT (H_NO_FLAGS_ALL, 0);
157      0284      3      !Turn off filling and justifying
158      0285      3      SCA_FILL = FALSE;
159      0286      3      SCA_JUSTIFY = FALSE;
160      0287      3      SCA_RM = 150;
161      0288      3      SCA_KER = TRUE;
162      0289      3
163      0290      3      !Save case rules.
164      0291      3      INCR I FROM 0 TO SCA_CASE_SIZE - 1 DO SCALIT [I] = .SCA [I];
165      0292      3
166      0293      3      INCR I FROM 0 TO SCA_CASE_SIZE - 1 DO SCA[I] = 0;
167      0294      3
168      0295      3      !Validate the count, if given. If the count
169      0296      3      !is erroneous, the intended counted literal is
170      0297      3      !handled like an uncounted literal instead.
171      0298      3
172      0299      3      IF NOT .NUM_RESULT
173      0300      3      THEN
174      0301      3          RETURN;
175      0302      3
176      0303      3      IF .NUM_LENGTH NEQ 0
177      0304      3      THEN
178      0305      4          BEGIN                                !It's a counted literal
179      0306      4
180      0307      4          IF .NUM_VALUE LEQ 0
181      0308      4          THEN
182      0309      5              BEGIN
183      0310      5                  ERMA (RNFINM, FALSE);
184      0311      5                  RETURN;
185      0312      4                  END;
186      0313      4
187      0314      4          GCA_CLIT = TRUE;
188      0315      4          GCA_LIT_COUNT = .NUM_VALUE;
189      0316      3          END;
190      0317      3
191      0318      2      END;
192      0319      2
193      0320      2      [H_END_LITERAL] :
194      0321      3      BEGIN
195      0322      3
196      0323      3      IF NOT .GCA_LITERAL
197      0324      3      THEN
198      0325      4          BEGIN                                !.END LITERAL out of context
199      0326      4
200      0327      4          IF .GCA_CLIT
201      0328      4          THEN
202      0329      5              BEGIN                                !Left over from mis-counted literal
203      0330      5                  GCA_CLIT = FALSE;
204      0331      5                  RETURN;
205      0332      4              END;
```



```

0333 4
0334 4
0335 4
0336 4
0337 3
0338 4
0339 4
0340 4
0341 4
0342 4
0343 4
0344 4
0345 4
0346 4
0347 4
0348 3
0349 2
0350 2
0351 1

```

ERMA (RNFELD, FALSE);
 RETURN;
 END
 ELSE
 BEGIN
 GCA_LITERAL = FALSE;
 !Restore flag rules, filling, and justifying
 OFT (.GCA_LIT_FLAG, 0);
 !Restore previous status
 STKFRM (-1);
 INCR I FROM 0 TO SCA_CASE_SIZE - 1 DO
 SCA [.I] = .SCALIT [.I];
 !Restore case rules.
 END;
 END;
 TES;
 END;

!.END LITERAL in proper context
 !Turn off literal mode.

!End of LIT

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

```
.EXTRN  GCA, IRA, NUMPRM
.EXTRN  SCA, SCALIT, RNFELD
.EXTRN  RNFINM, RNFLDE, ERMA
.EXTRN  ERMB, OFT, STKFRM
```

.PSECT \$CODES,NOWRT,2

```
.ENTRY LIT, Save_R2,R3,R4,R5,R6,R7
```

```

MOVAB    SCALIT, R7
MOVAB    OFT, R6
MOVAB    STKFRM, R5
MOVAB    NUMPRM+4, R4
MOVAB    SCA, R3
MOVAB    GCA+144, R2
MOVL     HANDLER_CODE, R0
BNEQ     4$,
BLBS     GCA+144, 1$
RET

```

REI
TSTL
BGTR

GCA+56
38

CLRL -(SP)
PUSHL #RNFLDE
CALLS #2, ERMB
CLRL GCA+80
MNEGL #1, -(SP)
CALLS #1, STKFRM
CLRL -(SP)

PUSHL GCA+72
CALLS #2, OF T

```
CALLS WE, OPT
CLRL I
MOVL SCALIT[I], SCA[I]
```

MOBILE
#24, 1, 2\$

: 0219

0244

: 0247

: 0253

: 0256

: 0259

0260

: 0261

: 0262

0264

: 0265

: 0256

		A8	A2	D7	00067	3\$:	DECL	GCA+56	:	0269
				04	0006A		RET		:	0256
00000070	8F		50	D1	0006B	4\$:	CMPL	R0, #112	:	0273
			5F	12	00072		BNEQ	8\$	:	
	C0	A2	01	D0	00074		MOVL	#1, GCA+80	:	0275
			62	D4	00078		CLRL	GCA+144	:	0276
		A8	A2	D4	0007A		CLRL	GCA+56	:	0277
	B8	A2	F4	D0	0007D		MOVL	@GCA+132, GCA+72	:	0279
			7E	D4	00082		CLRL	-(SP)	:	0282
	65		01	FB	00084		CALLS	#1, STKFRM	:	
			7E	D4	00087		CLRL	-(SP)	:	0283
	7E	7C	8F	9A	00089		MOVZBL	#124, -(SP)	:	
	66		02	FB	0008D		CALLS	#2, OFT	:	
		68	B3	D4	00090		CLRL	@SCA+104	:	0285
		64	B3	D4	00093		CLRL	@SCA+100	:	0286
78	B3	96	8F	9A	00096		MOVZBL	#150, @SCA+120	:	0287
0084	D3		01	D0	0009B		MOVL	#1, @SCA+132	:	0288
			50	D4	000A0		CLRL	I	:	0291
	6740		6340	D0	000A2	5\$:	MOVL	SCA[I], SCALIT[I]	:	
F7	50		18	F3	000A7		AOBLEQ	#24, I, 5\$	:	
			50	D4	000AB		CLRL	I	:	0293
			6340	D4	000AD	6\$:	CLRL	SCA[I]	:	
F9	50		18	F3	000B0		AOBLEQ	#24, I, 6\$	:	
	56		A4	E9	000B4		BLBC	NUMPRM, 13\$	:	0299
		FC	A4	D5	000B8		TSTL	NUMPRM+12	:	0303
		08	51	13	000BB		BEQL	13\$	:	
			64	D5	000BD		TSTL	NUMPRM+4	:	0307
			0A	14	000BF		BGTR	7\$	:	
			7E	D4	000C1		CLRL	-(SP)	:	0310
		00000000G	8F	DD	000C3		PUSHL	#RNF INM	:	
			1F	11	000C9		BRB	10\$	:	
	62		01	D0	000CB	7\$:	MOVL	#1, GCA+144	:	0314
A8	A2		64	D0	000CE		MOVL	NUMPRM+4, GCA+56	:	0315
			04	000D2			RET		:	0244
	3C		50	D1	000D3	8\$:	CMPL	R0, #60	:	0320
			36	12	000D6		BNEQ	13\$	:	
	16		A2	E8	000D8		BLBS	GCA+80, 11\$	:	0323
	03	C0	62	E9	000DC		BLBC	GCA+144, 9\$	:	0327
			62	D4	000DF		CLRL	GCA+144	:	0330
			04	000E1			RET		:	0329
			7E	D4	000E2	9\$:	CLRL	-(SP)	:	0334
		00000000G	8F	DD	000E4		PUSHL	#RNFELD	:	
00000000G	EF		02	FB	000EA	10\$:	CALLS	#2, ERMA	:	
			04	000F1			RET		:	0325
		C0	A2	D4	000F2	11\$:	CLRL	GCA+80	:	0339
			7E	D4	000F5		CLRL	-(SP)	:	0341
		B8	A2	DD	000F7		PUSHL	GCA+72	:	
	66		02	FB	000FA		CALLS	#2, OFT	:	
	7E		01	CE	000FD		MNEGL	#1, -(SP)	:	0343
	65		01	FB	00100		CALLS	#1, STKFRM	:	
			50	D4	00103		CLRL	I	:	0345
	6340		6740	D0	00105	12\$:	MOVL	SCALIT[I], SCA[I]	:	0346
F7	50		18	F3	0010A		AOBLEQ	#24, I, 12\$	:	
			04	0010E	13\$:		RET		:	0351

; Routine Size: 271 bytes, Routine Base: \$CODE\$ + 0000

LIT
V04-000

Module Level Declarations

H 1
16-Sep-1984 00:48:45
14-Sep-1984 13:06:53

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[RUNOFF.SRC]LIT.BLI;1 Page 8 (4)

: 225 0352 1
: 226 0353 1 END
: 227 0354 0 ELUDOM

!End of module

PSECT SUMMARY

: Name Bytes Attributes
: \$CODE\$ 271 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	24	1	86	00:00.3

COMMAND QUALIFIERS

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

: Size: 271 code + 0 data bytes
: Run Time: 00:06.4
: Elapsed Time: 00:26.3
: Lines/CPU Min: 3344
: Lexemes/CPU-Min: 15703
: Memory Used: 75 pages
: Compilation Complete

0342

AH-BT13A-SE
 VAX/VMS V4.0

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0343

AH-BT13A-SE
VAX/VMS V4.0

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