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P 0001 0 MODULE layout ( IDENT = 'V04-000'
0002 0      %BLISS32[, 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:      Processes the .LAYOUT command.
0034 1
0035 1 ENVIRONMENT:   Transportable
0036 1
0037 1 AUTHOR:       R.W.Friday      CREATION DATE: April, 1979
0038 1
0039 1

```

Revision History

:	41	0040	1	%SBTTL 'Revision History'
:	42	0041	1	
:	43	0042	1	MODIFIED BY:
:	44	0043	1	
:	45	0044	1	005 RER00005 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	

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  
.. 72      0200 1     HCT : HCT DEFINITION,  
.. 73      0201 1     IRA : FIXED STRING,  
.. 74      0202 1     NUMPRM : NUMPRM DEFINE,  
.. 75      0203 1     PHAN : PHAN_DEFINITION;  
.. 76      0204 1  
.. 77      0205 1 EXTERNAL LITERAL      !Error messages  
.. 78      0206 1     RNFIM;  
.. 79      0207 1  
.. 80      0208 1 EXTERNAL ROUTINE  
.. 81      0209 1     ERMA,  
.. 82      0210 1     GE NUM,  
.. 83      0211 1     SKPSEP;  
.. 84      0212 1
```

```

: 86 0213 1 GLOBAL ROUTINE LAYOUT (HANDLER_CODE) : NOVALUE =
: 87 0214 1
: 88 0215 1 !++
: 89 0216 1 FUNCTIONAL DESCRIPTION:
: 90 0217 1
: 91 0218 1     See the ABSTRACT, above
: 92 0219 1
: 93 0220 1 FORMAL PARAMETERS:
: 94 0221 1
: 95 0222 1     HANDLER_CODE is a dummy, used only for conformance with other routines.
: 96 0223 1
: 97 0224 1 IMPLICIT INPUTS:      None
: 98 0225 1
: 99 0226 1 IMPLICIT OUTPUTS:     None
100 0227 1
101 0228 1 ROUTINE VALUE:
102 0229 1 COMPLETION CODES:      None
103 0230 1
104 0231 1 SIDE EFFECTS:          None
105 0232 1 !--
106 0233 1
107 0234 2 BEGIN
108 0235 2
109 0236 2 !If user said .LAYOUT without any number, set up for standard layout.
110 0237 2 !Ditto if user said .LAYOUT 0
111 0238 2 !Ditto if he input some crocky number.
112 0239 2 IF .NUM_LENGTH EQL 0 !Nothing specified
113 0240 2 OR (.NUM_VALUE EQL 0) !.LAYOUT 0
114 0241 2 THEN
115 0242 2 BEGIN
116 0243 2 !The standard layout starts with the next page, at the latest.
117 0244 2 HCT_LAYOUT NP = LAYOUT_STANDARD;
118 0245 2 HCT_LAYOUTN NP = 0;
119 0246 2
120 0247 2 !Change layout immediately if at top of first page.
121 0248 2 IF .PHAN_TOP_FIRST
122 0249 2 THEN
123 0250 2 BEGIN
124 0251 2 HCT_LAYOUT = LAYOUT_STANDARD;
125 0252 2 HCT_LAYOUTN = 0;
126 0253 2 END;
127 0254 2
128 0255 2 RETURN;
129 0256 2 END;
130 0257 2
131 0258 2 !See if user said .LAYOUT 1,n or .LAYOUT 2,n or .LAYOUT 3,n
132 0259 2 IF .NUM_VALUE GTR 3
133 0260 2 OR (.NUM_VALUE LSS 0)
134 0261 2 THEN
135 0262 2 !Illegal layout specified.
136 0263 2 BEGIN
137 0264 2 ERMA (RNFINM, FALSE);
138 0265 2 RETURN;
139 0266 2 END;
140 0267 2
141 0268 2 !User did say .LAYOUT 1 ..... so process it.
: 142 0269 2 HCT_LAYOUT NP = .NUM_VALUE; !Page layout encoding number is given directly by the user.
```

```

: 143 0270 2 !Now, skip either a comma and/or spaces to get the second parameter.
: 144 0271 2 SKPSEP (IRA);
: 145 0272 2 !Now, attempt to get the second parameter, if supplied.
: 146 0273 2 NUM_RESULT = GETNUM (IRA, NUM_VALUE, NUM_SIGN, NUM_LENGTH);
: 147 0274 2
: 148 0275 2 !Do some preliminary validation
: 149 0276 2 IF NOT .NUM_RESULT
: 150 0277 2 THEN
: 151 0278 2 !Erroneous number
: 152 0279 2 BEGIN
: 153 0280 2 HCT_LAYOUTN_NP = 1;
: 154 0281 2 RETURN;
: 155 0282 2 END;
: 156 0283 2
: 157 0284 2 IF .NUM_VALUE LEQ 0
: 158 0285 2 THEN
: 159 0286 2 ! Zero or a negative number not allowed
: 160 0287 2 BEGIN
: 161 0288 2 ERMA (RNFINM, FALSE);
: 162 0289 2 HCT_LAYOUTN_NP = 1;
: 163 0290 2 RETURN;
: 164 0291 2 END
: 165 0292 2 ELSE
: 166 0293 2 HCT_LAYOUTN_NP = .NUM_VALUE;
: 167 0294 2
: 168 0295 2 !If at the top of the first page,
: 169 0296 2 !the new layout takes effect immediately.
: 170 0297 2 IF .PHAN_TOP_FIRST
: 171 0298 2 THEN
: 172 0299 2 BEGIN
: 173 0300 2 HCT_LAYOUTN = .HCT_LAYOUTN_NP;
: 174 0301 2 HCT_LAYOUT = .HCT_LAYOUT_NP;
: 175 0302 2 END;
: 176 0303 2
: 177 0304 1 END; !End of LAYOUT

```

```

.TITLE LAYOUT
.IDENT \V04-000\

.EXTRN HCT, IRA, NUMPRM
.EXTRN PHAN, RNFINM, ERMA
.EXTRN GETNUM, SKPSEP

```

```

.PSECT $CODE$,NOWRT,2

```

```

00FC 0000
57 00000000G EF 9E 00002
56 00000000G EF 9E 00009
55 00000000G 8F D0 00010
54 00000000G EF 9E 00017
53 00000000G EF 9E 0001E
52 00000000G EF 9E 00025
08 A2 D5 0002C
04 13 0002F
62 D5 00031
09 12 00033

```

```

.ENTRY LAYOUT, Save R2,R3,R4,R5,R6,R7
MOVAB IRA, R7
MOVAB ERMA, R6
MOVL #RNFINM, R5
MOVAB PHAN+24, R4
MOVAB HCT+36, R3
MOVAB NUMPRM+4, R2
TSTL NUMPRM+12
BEQL 1$
TSTL NUMPRM+4
BNEQ 2$

```

```

: 0213
:
:
: 0239
:
: 0240
:

```

Module Level Declarations

			63	7C	00035	1\$:	CLRQ	HCT+36	: 0244
	56		64	E9	00037		BLBC	PHAN+24, 7\$: 0248
		F8	A3	7C	0003A		CLRQ	HCT+28	: 0251
				04	0003D		RET		: 0242
	03		62	D1	0003E	2\$:	CMPL	NUMPRM+4, #3	: 0259
			04	14	00041		BGTR	3\$: 0260
			62	D5	00043		TSTL	NUMPRM+4	: 0264
			08	18	00045		BGEQ	4\$: 0264
			7E	D4	00047	3\$:	CLRL	-(SP)	: 0264
			55	DD	00049		PUSHL	R5	: 0263
	66		02	FB	0004B		CALLS	#2, ERMA	: 0269
				04	0004E		RET		: 0271
	63		62	D0	0004F	4\$:	MOVL	NUMPRM+4, HCT+36	: 0273
			57	DD	00052		PUSHL	R7	: 0273
00000000G	EF		01	FB	00054		CALLS	#1, SKPSEP	: 0276
		08	A2	9F	0005B		PUSHAB	NUMPRM+12	: 0284
		04	A2	9F	0005E		PUSHAB	NUMPRM+8	: 0288
			52	DD	00061		PUSHL	R2	: 0289
			57	DD	00063		PUSHL	R7	: 0287
00000000G	EF		04	FB	00065		CALLS	#4, GETNUM	: 0293
	FC		50	D0	0006C		MOVL	R0, NUMPRM	: 0297
		FC	A2	E9	00070		BLBC	NUMPRM, 5\$: 0301
			62	D0	00074		MOVL	NUMPRM+4, R0	: 0304
			0C	14	00077		BGTR	6\$: 0288
			7E	D4	00079		CLRL	-(SP)	: 0289
			55	DD	0007B		PUSHL	R5	: 0287
	66		02	FB	0007D		CALLS	#2, ERMA	: 0293
04	A3		01	D0	00080	5\$:	MOVL	#1, HCT+40	: 0297
				04	00084		RET		: 0301
04	A3		50	D0	00085	6\$:	MOVL	R0, HCT+40	: 0304
	04		64	E9	00089		BLBC	PHAN+24, 7\$: 0289
F8	A3		63	7D	0008C		MOVQ	HCT+36, HCT+28	: 0287
			04	00090	7\$:	RET			: 0293

: Routine Size: 145 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\$	145	NOVEC,NOWRT, RD, EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Library Statistics

LAYOUT
V04-000

Module Level Declarations

L 15
16-Sep-1984 00:47:42
14-Sep-1984 13:06:49

VAX-11 Bliss-32 V4.0-742
[RUNOFF.SRC]LAYOUT.BLI;1

Page 7
(4)

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	16	1	86	00:00.3

COMMAND QUALIFIERS

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

: Size: 145 code + 0 data bytes
: Run Time: 00:04.5
: Elapsed Time: 00:14.2
: Lines/CPU Min: 4102
: Lexemes/CPU-Min: 16904
: Memory Used: 48 pages
: Compilation Complete

