


```
1 0001 0 %TITLE 'Processes the .DISPLAY NUMBER, & .DISPLAY SUBPAGE'  
2 0002 0 MODULE DSPPAG ( IDENT = 'V04-000'  
3 P 0003 0 %BLISS32[  
4 P 0004 0 ADDRESSING_MODE(EXTERNAL=LONG_RELATIVE, NONEXTERNAL=LONG_RELATIVE)  
5 0005 0 ]  
6 0006 0 ) =  
7 0007 1 BEGIN  
8 0008 1  
9 0009 1 |  
10 0010 1 |*****  
11 0011 1 |*  
12 0012 1 |* COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *  
13 0013 1 |* DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS. *  
14 0014 1 |* ALL RIGHTS RESERVED. *  
15 0015 1 |*  
16 0016 1 |* THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED *  
17 0017 1 |* ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE *  
18 0018 1 |* INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER *  
19 0019 1 |* COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY *  
20 0020 1 |* OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY *  
21 0021 1 |* TRANSFERRED. *  
22 0022 1 |*  
23 0023 1 |* THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE *  
24 0024 1 |* AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT *  
25 0025 1 |* CORPORATION. *  
26 0026 1 |*  
27 0027 1 |* DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS *  
28 0028 1 |* SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL. *  
29 0029 1 |*  
30 0030 1 |*  
31 0031 1 |*****  
32 0032 1 |  
33 0033 1 |**  
34 0034 1 | FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS  
35 0035 1 |  
36 0036 1 | ABSTRACT: Processes the .DISPLAY APPENDIX, .DISPLAY CHAPTER, .DISPLAY NUMBER, and .DISPLAY SUBPAGE command  
37 0037 1 |  
38 0038 1 |  
39 0039 1 | ENVIRONMENT: Transportable  
40 0040 1 |  
41 0041 1 | AUTHOR: R.W.Friday CREATION DATE: May, 1979  
42 0042 1 |
```

```
.. 44 0043 1 %SBTTL 'Revision History'  
.. 45 0044 1  
.. 46 0045 1 : MODIFIED BY:  
.. 47 0046 1  
.. 48 0047 1 : 004 REM00004 Ray Marshall 27-April-1983  
.. 49 0048 1 : To decommit this routine's handling of the .DISPLAY APPENDIX and  
.. 50 0049 1 : .DISPLAY CHAPTER directives. They will hence forth be handled  
.. 51 0050 1 : by code DSPENT.BLI.  
.. 52 0051 1  
.. 53 0052 1 : 003 KFA00003 Ken Alden 07-Mar-1983  
.. 54 0053 1 : Global edit of all modules. Updated module names, idents,  
.. 55 0054 1 : copyright dates. Changed require files to BLISS library.  
.. 56 0055 1  
.. 57 0056 1 :--
```

```

59      0057 1 %SBTTL 'Module Level Declarations'
60      0058 1
61      0059 1 : TABLE OF CONTENTS:
62      0060 1
63      0061 1
64      0062 1
65      0063 1 : INCLUDE FILES:
66      0064 1
67      0065 1
68      0066 1 LIBRARY 'NXPORT:XPORT';           ! XPORT Library
69      0067 1 REQUIRE 'REQ:RNODEF';         ! RUNOFF variant definitions
70      0198 1
71      U 0199 1 %IF DSRPLUS %THEN
72      U 0200 1 LIBRARY 'REQ:DPLLIB';         ! DSRPLUS BLISS Library
73      0201 1 %ELSE
74      0202 1 LIBRARY 'REQ:DSRLIB';         ! DSR BLISS Library
75      0203 1 %FI
76      0204 1
77      0205 1
78      0206 1 : MACROS:
79      0207 1
80      0208 1 : Although the SET_DISPLAY macro has four parameters, it always
81      0209 1 : appears as if it's being called with just one. That's because
82      0210 1 : all the display names (e.g., SCT_PAGE_D) are really macros
83      0211 1 : defining fields, and they expand into a 'comma list' containing
84      0212 1 : four items.
85      0213 1 MACRO
86      M 0214 1     SET_DISPLAY (a,b,c,d) =
87      M 0215 1     BEGIN
88      M 0216 1     !The display characteristics take effect on the next
89      M 0217 1     !page, at the very latest. So that is always safe to set.
90      M 0218 1     NPAGEN [a,b,c,d] = .DISPLAY_CODE;
91      M 0219 1     !At the top of the first page this takes effect immediately, since nothing
92      M 0220 1     !has been output yet at all. However, at the top of any other pages you
93      M 0221 1     !have to be careful. If the user has given a .LAYOUT command that
94      M 0222 1     !causes the page number to be centered at the bottom, the page number
95      M 0223 1     !has not yet been output even if .PHAN_TOP_PAGE is set. In that case
96      M 0224 1     !you need to let NEWPAG finish the page and then it's ok to use the
97      M 0225 1     !display characteristics on the next page. On the other hand,
98      M 0226 1     !if you're in the middle of the page it's ok to set the display
99      M 0227 1     !characteristics immediately because the page number hasn't gone
100     M 0228 1     !out yet, unless you're doing the standard layout.
101     M 0229 1     !Perhaps another way of describing what's going on here is simply to
102     M 0230 1     !say that you can't let the display characteristics of the page number
103     M 0231 1     !get out of synch with what's appeared or not appeared so far.
104     M 0232 1     !Note that there is a very close coordination with the workings of
105     M 0233 1     !NEWPAG implied here.
106     M 0234 1     IF
107     M 0235 1     .PHAN_TOP_FIRST
108     M 0236 1     OR
109     M 0237 1     ( (NOT .PHAN_TOP_PAGE)
110     M 0238 1     AND (.HCT_LAYOUT NEQ LAYOUT_STANDARD) )
111     M 0239 1     THEN
112     M 0240 1     PAGEN [a,b,c,d] = .DISPLAY_CODE
113     M 0241 1     END
114     M 0242 1     %:
115     M 0243 1

```

```
116 0244 1 |
117 0245 1 | EQUATED SYMBOLS:
118 0246 1 |
119 0247 1 |
120 0248 1 |
121 0249 1 | OWN STORAGE:
122 0250 1 |
123 0251 1 |
124 0252 1 |
125 0253 1 | EXTERNAL REFERENCES:
126 0254 1 |
127 0255 1 | EXTERNAL
128 0256 1 |   HCT : HCT_DEFINITION,
129 0257 1 |   IRA : FIXED_STRING,
130 0258 1 |   PHAN : PHAN_DEFINITION,
131 0259 1 |   PAGEN : PAGE_DEFINITION,
132 0260 1 |   NPAGEN : PAGE_DEFINITION;
133 0261 1 |
134 0262 1 | EXTERNAL ROUTINE
135 0263 1 |   GETDD,
136 0264 1 |   RSKIPS;
```

```

138 0265 1 GLOBAL ROUTINE DSPPAG (HANDLER) : NOVALUE =      !
139 0266 1
140 0267 1 !++
141 0268 1 !FUNCTIONAL DESCRIPTION:
142 0269 1 !
143 0270 1 !     See the ABSTRACT for a general description.
144 0271 1 !
145 0272 1 !FORMAL PARAMETERS:
146 0273 1 !
147 0274 1 !     HANDLER indicates which command is to be processed.
148 0275 1 !
149 0276 1 !IMPLICIT INPUTS:
150 0277 1 !
151 0278 1 !     Very close coordination with the workings of NEWPAG is implied.
152 0279 1 !
153 0280 1 !IMPLICIT OUTPUTS:      None
154 0281 1 !
155 0282 1 !ROUTINE VALUE:
156 0283 1 !COMPLETION CODES:      None
157 0284 1 !
158 0285 1 !SIDE EFFECTS: None
159 0286 1 !
160 0287 1 !--
161 0288 1
162 0289 2     BEGIN
163 0290 2     LOCAL
164 0291 2         GETDD_RESULT,
165 0292 2         DISPLAY_CODE;
166 0293 2
167 0294 2     !Skip spaces and tabs before the display descriptor.
168 0295 2     RSKIPS (IRA);
169 0296 2
170 0297 2     !And now actually try to get the descriptor.
171 0298 2     GETDD_RESULT = GETDD (DISPLAY_CODE);
172 0299 2
173 0300 2     !Ignore an invalid descriptor
174 0301 2     IF .GETDD_RESULT EQL -1
175 0302 2     THEN
176 0303 2         RETURN;
177 0304 2
178 0305 2     !Distinguish between missing display code and one that
179 0306 2     !is given.
180 0307 2     IF .GETDD_RESULT EQL 0
181 0308 2     THEN
182 0309 2         !No display code supplied
183 0310 3         BEGIN
184 0311 3             !Supply the standard display as the default
185 0312 4             DISPLAY_CODE = (SELECTONE .HANDLER OF
186 0313 4                 SET
187 0314 4                 [H_DISPLAY_NUMBE] : TCONVRT_DEC_NOZ;
188 0315 4                 [H_DISPLAY_SUBPA] : TCONVRT_LET_UPP;
189 0316 3             TES );
190 0317 2         END;
191 0318 2
192 0319 2     SELECTONE .HANDLER OF
193 0320 2     SET
194 0321 2

```


04 0009C 8\$: RET ; 0326

; Routine Size: 157 bytes, Routine Base: \$CODE\$ + 0000

; 200 0327 1 END !End of module
 ; 201 0328 0 ELUDOM

PSECT SUMMARY

Name	Bytes	Attributes
\$CODE\$	157	NOVEC,NOWRT, RD, EXE,NOSHR, LCL, RFL, 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	16	1	86	00:00.3

COMMAND QUALIFIERS

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

; Size: 157 code + 0 data bytes
 ; Run Time: 00:04.0
 ; Elapsed Time: 00:12.7
 ; Lines/CPU Min: 4969
 ; Lexemes/CPU-Min: 14000
 ; Memory Used: 47 pages
 ; Compilation Complete

CONVLS LIS	DOFLG LIS	DSPHL LIS	DSPENT LIS	DSRLIB LIS
DOCASE LIS	DOCM LIS	DOOPTS LIS	DSPAG LIS	DLE LIS
...