

FILEID**CNTVMS

J 1

CCCCCCCC NN NN TTTTTTTTTT VV VV MM MM SSSSSSS
CCCCCCCC NN NN TTTTTTTTTT VV VV MM MM SSSSSSS
CC NN NN TT VV VV MMMM MMMM SS
CC NN NN TT VV VV MMMM MMMM SS
CC NNNN NN TT VV VV MM MM SS
CC NNNN NN TT VV VV MM MM SS
CC NN NN NN TT VV VV MM MM SSSSS
CC NN NN NN TT VV VV MM MM SSSSS
CC NN NNNN TT VV VV MM MM SS
CC NN NNNN TT VV VV MM MM SS
CC NN NN TT VV VV MM MM SS
CC NN NN TT VV VV MM MM SS
CCCCCCCC NN NN TT VV VV MM MM SSSSS
CCCCCCCC NN NN TT VV VV MM MM SSSSS

LL IIIII SSSSSSS
LL IIIII SSSSSSS
LL II SS SSSSS
LLLLLLLLL LIII SSSSSSS
LLLLLLLLL LIII SSSSSSS

CN
VO

```
1 0001 0 XTITLE 'CNTVMS - CONTENTS VMS command Line Interface'
2 0002 0 MODULE cntvms (IDENT = 'V04-000',
3 0003 0           ADDRESSING_MODE (EXTERNAL = LONG_RELATIVE, NONEXTERNAL = LONG_RELATIVE)
4 0004 0           ) =
5 0005 1 BEGIN
6 0006 1
7 0007 1
8 0008 1 ****
9 0009 1 *
10 0010 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
11 0011 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
12 0012 1 * ALL RIGHTS RESERVED.
13 0013 1 *
14 0014 1 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
15 0015 1 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
16 0016 1 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
17 0017 1 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
18 0018 1 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
19 0019 1 * TRANSFERRED.
20 0020 1 *
21 0021 1 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
22 0022 1 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
23 0023 1 * CORPORATION.
24 0024 1 *
25 0025 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
26 0026 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
27 0027 1 *
28 0028 1 *
29 0029 1 ****
30 0030 1
31 0031 1
32 0032 1 ++
33 0033 1 FACILITY:
34 0034 1 DSR (Digital Standard RUNOFF) /DSRPLUS DSRTOC/CONTENTS Utility
35 0035 1
36 0036 1 ABSTRACT:
37 0037 1 This module contains the command line interface for CONTENTS.
38 0038 1
39 0039 1 ENVIRONMENT: VAX/VMS User Mode
```

41 0040 1
42 0041 1 AUTHOR: JPK
43 0042 1
44 0043 1 CREATION DATE: April 1982
45 0044 1
46 0045 1 MODIFIED BY:
47 0046 1
48 0047 1 013 REM00013 Ray Marshall 13-Feb-1984
49 0048 1 Enabled /REQUIRE for DSRTOC.
50 0049 1
51 0050 1 012 KFA00012 29-Aug-1983
52 0051 1 Modified tms ==> TMS11.
53 0052 1
54 0053 1 011 JPK00012 27-May-1983
55 0054 1 Modified source modules to include REQ: in REQUIRE statements.
56 0055 1
57 0056 1 010 JPK00008 09-Mar-1983
58 0057 1 Modified CONTENTS and CAPTION to support new BRN formats,
59 0058 1 support SEND CONTENTS, /DOUBLE_SPACE, page numbered chapters,
60 0059 1 guarantee space after section number and to write new
61 0060 1 prologue and epilog for RUNOFF output.
62 0061 1 Modified FORMAT to quote only the RUNOFF flags used by CONTENTS.
63 0062 1 Modified CNTVMS to fix default for /DOUBLE_SPACE and do more
64 0063 1 value checking.
65 0064 1
66 0065 1 009 JPK00007 14-Feb-1983
67 0066 1 Global edit of all sources for CONTENTS/DSRTOC:
68 0067 1 - module names are now consistant with file names
69 0068 1 - copyright dates have been updated
70 0069 1 - facility names have been updated
71 0070 1 - revision history was updated to be consistant with DSR/DSRPLUS
72 0071 1
73 0072 1 008 JPK00006 14-Feb-1983
74 0073 1 Modified CNTVMS, CONTENTS, FORMAT and CNTVMSMSG to generate
75 0074 1 error messages for DSRTOC or CONTENTS depending on the
76 0075 1 compiletime variant for DSRPLUS (/VARIANT:8192)
77 0076 1
78 0077 1 007 JPK00004 11-Feb-1983
79 0078 1 Changed the global variable name INDENT to LINE_INDENT in
80 0079 1 modules CONTENTS, CAPTION, FORMAT and GBLDCL.
81 0080 1 Removed declarations of PDENTS in modules CNTVMS, CONTENTS,
82 0081 1 and CAPTION and replaced with a module wide BIND using the
83 0082 1 new name INDENTS.
84 0083 1 Changed handling of INDENTS [1]. It no longer represents the
85 0084 1 sum of the chapter and title indents.
86 0085 1
87 0086 1 006 JPK00003 11-Feb-1983
88 0087 1 Added condition handler to CNTVMS to set program exit status.
89 0088 1
90 0089 1 005 JPK00002 10-Feb-1983
91 0090 1 Merged in change KFA00002 to modules CNTVMS, CNTCLIDMP and
92 0091 1 CNTCLI.REQ. This change was done without reserving and
93 0092 1 replacing the files in the CMS library. This work involved
94 0093 1 replacing CONTENTSSG_LM_INDENT, CONTENTSSG_HL1_INDENT through
95 0094 1 CONTENTSSG_HL6_INDENT and CONTENTSSG_HLN_INDENT with
96 0095 1 CONTENTSSAG_HL_INDENT.
97 0096 1 CONTENTSSV_TEX was removed - it was no longer needed.

98 0097 1 | Changed /TMS to /FORMAT={DSR : TMS}.
99 0098 1 | Added code for /DOUBLE_SPACE.
100 0099 1 |
101 0100 1 | 004 RER00002 20-Jan-1983
102 0101 1 | Modified CNTVMS and CNTCLI.REQ to add new fields for new and
103 0102 1 | expanded qualifiers:
104 0103 1 | CONTENTSSV_TEX - for tex output,
105 0104 1 | CONTENTSSG_DOUBLE SPACE - for /DOUBLE_SPACE,
106 0105 1 | CONTENTSSG_HL2_INDENT through CONTENTSSG_HL6_INDENT for /INDENT.
107 0106 1 |
108 0107 1 | 003 RER00001 17-Dec-1982
109 0108 1 | Added code to CNTVMS to treat keyword NORUNNING in same way as
110 0109 1 | keyword STANDARD.
111 0110 1 | Changed header level default value from 99 to 6.
112 0111 1 | Deleted foreign-command code; CONTENTS is now called
113 0112 1 | as a subcommand of DSR.
114 0113 1 | Conditionalized code to compile for DSRPLUS if BLISS
115 0114 1 | /VARIANT = 8192 is used; otherwise, to compile for DSR.
116 0115 1 |
117 0116 1 | 002 KFA00002 14-Oct-1982
118 0117 1 | Modified CNTVMS, CONTENTS, CAPTION and CNTCLI.REQ to handle
119 0118 1 | new syntax for /INDENT qualifier. All indents are now
120 0119 1 | stored in the vector CMDBLK [CONTENTSSAG_HL_INDENT []],
121 0120 1 | where 0 = chapter indent, 1 = header level one indent, etc.
122 0121 1 |
123 0122 1 |--

125 0123 1 |
126 0124 1 | INCLUDE FILES:
127 0125 1 |
128 0126 1 |
129 0127 1 LIBRARY 'SYSSLIBRARY:STARLET';
130 0128 1 |
131 0129 1 LIBRARY 'SYSSLIBRARY:TPAMAC'; ! TPARSE macros
132 0130 1 |
133 0131 1 LIBRARY 'SYSSLIBRARY:XPORT';
134 0132 1 |
135 0133 1 SWITCHES LIST (REQUIRE);
136 0134 1 |
137 0135 1 REQUIRE 'REQ:CNTCLI'; ! Command line information block definition

R0136 1
R0137 1 Version: 'V04-000'
R0138 1
R0139 1 *****
R0140 1 *
R0141 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
R0142 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
R0143 1 * ALL RIGHTS RESERVED.
R0144 1 *
R0145 1 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
R0146 1 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
R0147 1 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
R0148 1 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
R0149 1 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
R0150 1 * TRANSFERRED.
R0151 1 *
R0152 1 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
R0153 1 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
R0154 1 * CORPORATION.
R0155 1 *
R0156 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
R0157 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
R0158 1 *
R0159 1 *
R0160 1 *
R0161 1 *
R0162 1 *
R0163 1 **
R0164 1 FACILITY:
R0165 1 DSR (Digital Standard RUNOFF) /DSRPLUS DSRTOC/CONTENTS Utility
R0166 1
R0167 1 ABSTRACT:
R0168 1 CONTENTS Command Line Data Structure Definitions
R0169 1
R0170 1 ENVIRONMENT: Transportable
R0171 1
R0172 1 AUTHOR: JPK
R0173 1
R0174 1 CREATION DATE: April 1982
R0175 1
R0176 1 MODIFIED BY:
R0177 1
R0178 1 005 JPK00007 14-Feb-1983
R0179 1 Global edit of all sources for CONTENTS/DSRTOC:
R0180 1 - module names are now consistant with file names
R0181 1 - copyright dates have been updated
R0182 1 - facility names have been updated
R0183 1 - revision history was updated to be consistant with DSR/DSRPLUS
R0184 1
R0185 1 004 JPK00002 10-Feb-1983
R0186 1 Merged in change KFA00002 to modules CNTVMS, CNTCLIDMP and
R0187 1 CNTCLI.REQ. This change was done without reserving and
R0188 1 replacing the files in the CMS Library. This work involved
R0189 1 replacing CONTENTSSG_LM_INDENT, CONTENTSSG_HL1_INDENT through
R0190 1 CONTENTSSG_HL6_INDENT and CONTENTSSG_HLN_INDENT with
R0191 1 CONTENTSSAG_HL_INDENT.
R0192 1 CONTENTSSV_TEX was removed - it was no longer needed.

R0193 1 | Changed /TMS to /FORMAT={DSR : TMS}.
R0194 1 | Added code for /DOUBLE_SPACE.
R0195 1 |
R0196 1 | 003 RER00002 20-Jan-1983
R0197 1 | Modified CNTVMS and CNTCLI.REQ to add new fields for new and
R0198 1 | expanded qualifiers:
R0199 1 | CONTENTSSV TEX - for tex output,
R0200 1 | CONTENTSSG_DOUBLE SPACE - for /DOUBLE SPACE,
R0201 1 | CONTENTSSG_HL2_INDENT through CONTENTSSG_HL6_INDENT for /INDENT.
R0202 1 |
R0203 1 | 002 KFA00002 14-Oct-1982
R0204 1 | Modified CNTVMS, CONTENTS, CAPTION and CNTCLI.REQ to handle
R0205 1 | new syntax for /INDENT qualifier. All indents are now
R0206 1 | stored in the vector CMDBLK [CONTENTSSAG_HL_INDENT []],
R0207 1 | where 0 = chapter indent, 1 = header level one indent, etc.
R0208 1 |--
R0209 1 |
R0210 1 |
R0211 1 |
R0212 1 | Contents command fields:
R0213 1 |
R0214 1 \$field contents_cmd_fields =
R0215 1 SET
R0216 1
R0217 1 contents\$v_options = [\$short_integer], ! Command option indicators:
R0218 1
R0219 1 \$overlay (contents\$v_options)
R0220 1
R0221 1 contents\$v_output = [\$bit], ! Generate output file
R0222 1 contents\$v_tms11 = [\$bit], ! Generate TMS11 output
R0223 1 contents\$v_require = [\$bit], ! Require file specified
R0224 1 contents\$v_standard_page = [\$bit], ! Use section type page numbers
R0225 1 contents\$v_include_sections = [\$bit], ! Include section numbers in entry
R0226 1 contents\$v_log = [\$bit], ! Generate /LOG message
R0227 1
R0228 1 \$continue
R0229 1
R0230 1 contents\$h_leader = [\$short_integer], ! Align to next fullword
R0231 1
R0232 1 \$overlay (contents\$h_leader)
R0233 1
R0234 1 contents\$c_leader_char = [\$string(1)], ! Leader dot character
R0235 1
R0236 1 \$continue
R0237 1
R0238 1 contents\$g_headers = [\$integer], ! Deepest header level to include
R0239 1 contents\$g_page_level = [\$integer], ! Deepest level to include page references
R0240 1 contents\$g_underline = [\$integer], ! Deepest level to include underlining
R0241 1 contents\$g_bold = [\$integer], ! Deepest level to include bolding
R0242 1 contents\$g_sections = [\$integer], ! Deepest level to include section numbers
R0243 1 contents\$g_page_width = [\$integer], ! Page width (for RUNOFF only)
R0244 1 contents\$g_double_space = [\$integer], ! Double space value
R0245 1 contents\$ag_hl_indent = [\$sub_block(7)], ! Left margin and HL 1-6 indents
R0246 1 contents\$t_input_file = [\$descriptor(dynamic)], ! Input file name descriptor
R0247 1 contents\$t_output_file = [\$descriptor(dynamic)], ! Output file name descriptor
R0248 1 contents\$t_require_file = [\$descriptor(dynamic)], ! Require file name descriptor
R0249 1 contents\$t_command_line = [\$descriptor(dynamic)] ! Copy of entire command line

CNTVMS
V04-000

CNTVMS - CONTENTS VMS command Line Interface

D 2
15-Sep-1984 23:58:21
15-Sep-1984 22:50:17

VAX-11 Bliss-32 v4.0-742
_S255\$DUA28:[RUNOFF.SRC]CNTCLI.REQ;1

Page 7
(1)

```
R0250 1
R0251 1      TES:
R0252 1
R0253 1      ! End of contents_cmd_fields
R0254 1
R0255 1      LITERAL
R0256 1      contents_cmd$k_length = $field_set_size;
R0257 1
R0258 1      MACRO
R0259 1      $contents_cmd = BLOCK [contents_cmd$k_length] FIELD (contents_cmd_fields) %;
R0260 1
R0261 1      |--   End of CNTCLI.REQ
R0262 1
```

CNTVMS
V04-000

CNTVMS - CONTENTS VMS command Line Interface

E 2
15-Sep-1984 23:58:21
14-Sep-1984 13:05:43

VAX-11 Bliss-32 V4.0-742
[RUNOFF.SRC]CNTVMS.B32;1

Page 8
(3)

: 138

0263 1
0264 1 REQUIRE 'REQ:CNTVMSREQ';

! VMS error messages

R0265 1
R0266 1 Version: 'V04-000'
R0267 1
R0268 1 *****
R0269 1 *
R0270 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
R0271 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
R0272 1 * ALL RIGHTS RESERVED.
R0273 1 *
R0274 1 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
R0275 1 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
R0276 1 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
R0277 1 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
R0278 1 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
R0279 1 * TRANSFERRED.
R0280 1 *
R0281 1 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
R0282 1 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
R0283 1 * CORPORATION.
R0284 1 *
R0285 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
R0286 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
R0287 1 *
R0288 1 *
R0289 1 * *****
R0290 1
R0291 1
R0292 1 ++
R0293 1 FACILITY:
R0294 1 DSR (Digital Standard RUNOFF) /DSRPLUS DSRTOC/CONTENTS Utility
R0295 1
R0296 1 ABSTRACT:
R0297 1 This file contains external references to the error message numbers
R0298 1 for DSRTOC/CONTENTS.
R0299 1
R0300 1 New messages must be defined in CNTVMSMSG.MSG and referenced here:
R0301 1 both in the MACRO section (for DSRTOC) and the EXTERNAL LITERAL
R0302 1 section (for CONTENTS)
R0303 1
R0304 1 ENVIRONMENT: VAX/VMS User Mode
R0305 1
R0306 1 AUTHOR: JPK
R0307 1
R0308 1 CREATION DATE: February 1983
R0309 1
R0310 1 MODIFIED BY:
R0311 1
R0312 1 002 JPK00009 24-Mar-1983
R0313 1 Modified CNTT20 to support new command line syntax.
R0314 1 Modified CONTENTS adding routines PROCESS PAGE,
R0315 1 PROCESS ENTITY INFO and PROCESS ENTITY TXT to remove
R0316 1 code from routine TOC so that CONTENTS will compile on TOPS-20
R0317 1 Modified CNTVMSREQ to remove conditional require of RNODEF.
R0318 1
R0319 1 --
R0320 1
R0321 1 REQUIRE 'REQ:RNODEF';

R0322 1
R0323 1 Version: 'V04-000'
R0324 1
R0325 1 *****
R0326 1 *
R0327 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
R0328 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
R0329 1 * ALL RIGHTS RESERVED.
R0330 1 *
R0331 1 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
R0332 1 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
R0333 1 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
R0334 1 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
R0335 1 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
R0336 1 * TRANSFERRED.
R0337 1 *
R0338 1 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
R0339 1 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
R0340 1 * CORPORATION.
R0341 1 *
R0342 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
R0343 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
R0344 1 *
R0345 1 *
R0346 1 *****
R0347 1
R0348 1
R0349 1 **
R0350 1 FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS
R0351 1
R0352 1 ABSTRACT:
R0353 1 Converts BLISS/VARIANT values into useful names.
R0354 1
R0355 1 ENVIRONMENT: Transportable BLISS
R0356 1
R0357 1 AUTHOR: Rich Friday
R0358 1
R0359 1 CREATION DATE: 1978
R0360 1
R0361 1 MODIFIED BY:
R0362 1
R0363 1 016 KAD00016 Ray Marshall 19-Mar-1984
R0364 1 Added GERMAN, FRENCH, & ITALIAN.
R0365 1
R0366 1 015 KAD00015 Keith Dawson 18-Apr-1983
R0367 1 Made the LN01 conditional the default for vanilla DSR --
R0368 1 its value is 0 (no variant supplied).
R0369 1
R0370 1 014 KAD00014 Keith Dawson 22-Mar-1983
R0371 1 Asserted the LN01 conditional when DSRPLUS is asserted.
R0372 1
R0373 1 013 KAD00013 Keith Dawson 20-Mar-1983
R0374 1 Removed all references to .BIX and .BTC files.
R0375 1
R0376 1 012 KAD00012 Keith Dawson 07-Mar-1983
R0377 1 Global edit of all modules. Updated module names, idents,
R0378 1 copyright dates. Changed require files to BLISS library.

```
R0379 1 |
R0380 1 |--+
R0381 1 |
R0382 1 |+++
R0383 1 |      D E F I N I T I O N   O F   / V A R I A N T   B I T S
R0384 1 |
R0385 1 |      The bit assignments are as follows:
R0386 1 |
R0387 1 |      Bit   Weight   Meaning
R0388 1 |-----+
R0389 1 |      --     0      If no /VARIANT is supplied (as for vanilla DSR),
R0390 1 |                  compile with LN01 support. LN01 support is also
R0391 1 |                  implied by the DSRPLUS variant.
R0392 1 |
R0393 1 |      0     1      CLEAR = Unassigned
R0394 1 |      SET   = Unassigned
R0395 1 |
R0396 1 |      1     2      CLEAR = Normal compile
R0397 1 |      SET   = Compile for DSRPLUS
R0398 1 |
R0399 1 |      4-6    16     CLEAR = English (American) version
R0400 1 |      SET   = 16 = German (Austrian)
R0401 1 |      32   = French
R0402 1 |      48   = Italian
R0403 1 |--
R0404 1 |
R0405 1 |-----+
R0406 1 |      This variable (LN01) controls whether or not to compile an LN01-flavored
R0407 1 |      DSR. It is asserted by default, and also whenever DSRPLUS is asserted.
R0408 1 |
R0409 1 |      Modules utilizing LN01 are:
R0410 1 |
R0411 1 |          DOOPTS NOUT
R0412 1 |
R0413 1 |          COMPILETIME
R0414 1 |          ln01 =
R0415 2 |          ( (%VARIANT EQL 0) OR %VARIANT/2 )
R0416 1 |          :
R0417 1 |
R0418 1 |-----+
R0419 1 |      This variable (DSRPLUS) controls compilation for the DSRPLUS program.
R0420 1 |
R0421 1 |      All modules utilize DSRPLUS.
R0422 1 |
R0423 1 |          COMPILETIME
R0424 1 |          dsrplus =
R0425 2 |          ( %VARIANT/2 )
R0426 1 |          :
R0427 1 |
R0428 1 |-----+
R0429 1 |      This variable (FLIP) controls compilation of FLIP features of DSRPLUS.
R0430 1 |      It assures that FLIP features are compiled only on VMS systems.
R0431 1 |
R0432 1 |      Modules utilizing FLIP are many and various.
R0433 1 |
R0434 1 |          COMPILETIME
R0435 1 |          flip =
```

CNTVMS
VO4-000

CNTVMS - CONTENTS VMS command Line Interface

I 2

15-Sep-1984 23:58:21
15-Sep-1984 22:54:08

VAX-11 Bliss-32 V4.0-742

\$255\$DUA28:[RUNOFF.SRC]RNODEF.REQ;1

Page 12
(1)

R0436 2 (%VARIANT/2 AND %BLISS(BLISS32))

R0437 1 ;

R0438 1

R0439 1 -----

R0440 1 4-6 16 CLEAR = English (American) version

R0441 1 SET = 16 = German (Austrian)

R0442 1 32 = French

R0443 1 48 = Italian

R0444 1 COMPILETIME

R0445 1 German = (%VARIANT/16 AND NOT %VARIANT/32 AND NOT %VARIANT/64) ;

R0446 1 COMPILETIME

R0447 1 French = (NOT %VARIANT/16 AND %VARIANT/32 AND NOT %VARIANT/64) ;

R0448 1 COMPILETIME

R0449 1 Italian = (%VARIANT/16 AND %VARIANT/32 AND NOT %VARIANT/64) ;

R0450 1 -----

R0451 1 ! End of RNODEF.REQ

```
R0452 1
R0453 1 %IF NOT DSRPLUS
R0454 1 %THEN
R0455 1
R0456 1 MACRO
R0457 1   CONTENTSS_BADVALUE = DSRTOCS_BADVALUE %,
R0458 1   CONTENTSS_OPENIN = DSRTOCS_OPENIN %,
R0459 1   CONTENTSS_OPENOUT = DSRTOCS_OPENOUT %,
R0460 1   CONTENTSS_VALERR = DSRTOCS_VALERR %,
R0461 1   CONTENTSS_CAPTIONS = DSRTOCS_CAPTIONS %,
R0462 1   CONTENTSS_CLOSEQUOT = DSRTOCS_CLOSEQUOT %,
R0463 1   CONTENTSS_CONFQUAL = DSRTOCS_CONFQUAL %,
R0464 1   CONTENTSS_CTRLCHAR = DSRTOCS_CTRLCHAR %,
R0465 1   CONTENTSS_EMPTYIN = DSRTOCS_EMPTYIN %,
R0466 1   CONTENTSS_IGNORED = DSRTOCS_IGNORED %,
R0467 1   CONTENTSS_INVINPUT = DSRTOCS_INVINPUT %,
R0468 1   CONTENTSS_INVRECORD = DSRTOCS_INVRECORD %,
R0469 1   CONTENTSS_OVERSTRK = DSRTOCS_OVERSTRK %,
R0470 1   CONTENTSS_COMPLETE = DSRTOCS_COMPLETE %,
R0471 1   CONTENTSS_CREATED = DSRTOCS_CREATED %,
R0472 1   CONTENTSS_IGNORENEW = DSRTOCS_IGNORENEW %,
R0473 1   CONTENTSS_IGNOREOLD = DSRTOCS_IGNOREOLD %,
R0474 1   CONTENTSS_PROCFILE = DSRTOCS_PROCFILE %,
R0475 1   CONTENTSS_TEXTD = DSRTOCS_TEXTD %,
R0476 1   CONTENTSS_TMS11 = DSRTOCS_TMS11 %,
R0477 1   CONTENTSS_IDENT = DSRTOCS_IDENT %;

R0478 1
R0479 1 %FI
R0480 1
R0481 1 EXTERNAL LITERAL
R0482 1   CONTENTSS_BADVALUE,          <'!AS' is an invalid keyword value>
R0483 1   CONTENTSS_OPENIN,           <error opening '!AS' for input>
R0484 1   CONTENTSS_OPENOUT,          <error opening '!AS' for output>
R0485 1   CONTENTSS_VALERR,          <specified value is out of legal range>
R0486 1   CONTENTSS_CAPTIONS,         <both ".HEADER x" and ".SEND TOC n" captions encountered>
R0487 1   CONTENTSS_CLOSEQUOT,        <the following line is missing a close quote>
R0488 1   CONTENTSS_CONFQUAL,         <conflicting qualifiers>
R0489 1   CONTENTSS_CTRLCHAR,         <the following line contains control characters - ignored>
R0490 1   CONTENTSS_EMPTYIN,          <empty input file '!AS'>
R0491 1   CONTENTSS_IGNORED,          <'!AS' ignored>
R0492 1   CONTENTSS_INVINPUT,         <invalid input file format in file '!AS'>
R0493 1   CONTENTSS_INVRECORD,        <invalid record type in file '!AS'>
R0494 1   CONTENTSS_OVERSTRK,         <the following line contains an overstrike sequence>
R0495 1   CONTENTSS_COMPLETE,         <processing complete '!AS'>
R0496 1   CONTENTSS_CREATED,          <'!AS' created>
R0497 1   CONTENTSS_IGNORENEW,        <".HEADER x" captions will be ignored>
R0498 1   CONTENTSS_IGNOREOLD,        <".SEND TOC n" captions will be ignored>
R0499 1   CONTENTSS_PROCFILE,         <processing file '!AS'>
R0500 1   CONTENTSS_TEXTD,            <!AD>
R0501 1   CONTENTSS_TMS11,            <output file full - continuing with file '!AS'>
R0502 1   CONTENTSS_IDENT;           <CONTENTS version !AD>
```

```
140      0504 1
141      0505 1 SWITCHES LIST (NOREQUIRE);
142      0506 1
143      0507 1
144      0508 1 TABLE OF CONTENTS:
145      0509 1
146      0510 1
147      0511 1 FORWARD ROUTINE
148      0512 1     cntcli,           ! Command line interface routine
149      0513 1     call_tparse,       Procedure to invoke TPARSE
150      0514 1     enter_page,       Action routine - enter page number display type
151      0515 1     condition_handler, Condition handler - sets termination status
152      0516 1     open_error;      File open error handler
153      0517 1
154      L 0518 1 %IF DSRPLUS
155      U 0519 1 %THEN
156      U 0520 1
157      U 0521 1 FORWARD ROUTINE
158      U 0522 1     enter_format,    ! Action routine - enter output format type
159      U 0523 1     enter_sect,      Action routine - enter section number display level
160      U 0524 1     enter_dot,       Action routine - enter leader dot character
161      U 0525 1     enter_hl_indent; Action routine - enter HL indent value
162      U 0526 1
163      U 0527 1 %FI
164      0528 1
165      0529 1
166      0530 1 TABLE OF CONTENTS:
167      0531 1
168      0532 1
169      0533 1 LITERAL
170      0534 1     true = 1;
171      0535 1     false = 0;
172      0536 1
173      0537 1
174      0538 1 TABLE OF CONTENTS:
175      0539 1
176      0540 1
177      0541 1 OWN
178      0542 1     qualifier_value,
179      0543 1     tmp_str : $str_descriptor (class = dynamic, string = (0, 0)),
180      0544 1     termination_status : INITIAL (sts$k_success);
181      0545 1
182      0546 1
183      0547 1 TABLE OF CONTENTS:
184      0548 1
185      0549 1
186      0550 1 EXTERNAL LITERAL          ! Status codes returned by cli$present ()
187      0551 1     cli$concat,
188      0552 1     cli$present,
189      0553 1     cli$defaulted,
190      0554 1     cli$negated,
191      0555 1     cli$absent;
192      0556 1
193      0557 1 EXTERNAL
194      0558 1     cmdblk : $contents_cmd, ! Command line information block
195      0559 1     cntvrl,           Length of version number string
196      0560 1     cntvrp;          ! CH$PTR to version number string
```

```
197 0561 1
198 0562 1 BIND
199 0563 1     indents = cmdblk [contents$ag_hl_indent] : VECTOR;
200 0564 1
201 0565 1 EXTERNAL ROUTINE
202 0566 1     cli$present : ADDRESSING_MODE (GENERAL),
203 0567 1     cli$get_value : ADDRESSING_MODE (GENERAL),
204 0568 1     lib$tparse : ADDRESSING_MODE (GENERAL),
205 0569 1     toc,
206 0570 1     tocfin;
207 0571 1
208 0572 1 + TPARSE state tables
209 0573 1 -
210 0574 1
211 0575 1
212 0576 1
213 0577 1 | Tables to parse a decimal number
214 0578 1
215 0579 1 $init_state (numb_state, numb_key);
216 P 0580 1 $state (
217 P 0581 1     (tpa$_decimal,
218 P 0582 1     (tpa$_eos,      tpa$_exit) ,
219 0583 1 );
220 P 0584 1 $state (
221 P 0585 1     (tpa$_eos,      tpa$_exit)
222 0586 1 );
223 0587 1
224 0588 1
225 0589 1 | Tables to parse /PAGE_NUMBERS values
226 0590 1
227 0591 1 $init_state (page_state, page_key);
228 P 0592 1 $state (
229 P 0593 1     ('RUNNING',    page_end,   enter_page,      . . .
230 P 0594 1     ('NORUNNING',  page_end,   enter_page,      . . .
231 P 0595 1
232 L 0596 1 %IF DSRPLUS
233 U 0597 1 %THEN
234 U 0598 1
235 U 0599 1     ('STANDARD',   page_end,   enter_page,      . . .
236 U 0600 1
237 P 0601 1 %FI
238 P 0602 1
239 P 0603 1     ('LEVEL')
240 P 0604 1
241 P 0605 1 $state (
242 P 0606 1     ('='),
243 P 0607 1     (':')
244 P 0608 1
245 P 0609 1 $state (
246 P 0610 1     (tpa$_decimal,  page_end,   . . .
247 P 0611 1     );
248 P 0612 1 $state (page_end,
249 P 0613 1     (tpa$_eos,      tpa$_exit)
250 P 0614 1
251 P 0615 1
252 L 0616 1 %IF DSRPLUS
253 U 0617 1 %THEN
```

```
: 254 U 0618 1
: 255 U 0619 1
: 256 U 0620 1 | Tables to parse /FORMAT values
: 257 U 0621 1
: 258 U 0622 1 $init_state (format_state, format_key);
: 259 U 0623 1 $state (
: 260 U 0624 1   ('DSR',
: 261 U 0625 1   ('TMS11',      ;      enter_format,    ;;
: 262 U 0626 1   );
: 263 U 0627 1 $state (
: 264 U 0528 1   (tpa$_eos,     tpa$_exit)
: 265 U 0629 1
: 266 U 0630 1
: 267 U 0631 1 | Tables to parse /INDENT values
: 268 U 0632 1
: 269 U 0633 1
: 270 U 0634 1 $init_state (ind_state, ind_key);
: 271 U 0635 1 $state (
: 272 U 0636 1   ('CHAPTER',
: 273 U 0637 1   ('TITLES',
: 274 U 0638 1   ('PROGRESSIVE',
: 275 U 0639 1   ('HL1',
: 276 U 0640 1   ('HL2',
: 277 U 0641 1   ('HL3',
: 278 U 0642 1   ('HL4',
: 279 U 0643 1   ('HL5',
: 280 U 0644 1   ('HL6',
: 281 U 0645 1
: 282 U 0646 1 $state (
: 283 U 0647 1   ('='),
: 284 U 0648 1   (':')
: 285 U 0649 1
: 286 U 0650 1 $state (
: 287 U 0651 1   (tpa$_decimal, .,      enter_hl_indent)
: 288 U 0652 1
: 289 U 0653 1 $state (
: 290 U 0654 1   (tpa$_eos,     tpa$_exit)
: 291 U 0655 1
: 292 U 0656 1
: 293 U 0657 1 | Tables to parse /SECTION_NUMBERS values
: 294 U 0658 1
: 295 U 0659 1
: 296 U 0660 1 $init_state (sect_state, sect_key);
: 297 U 0661 1 $state (
: 298 U 0662 1   ('AS INPUT',    sect_end,  enter_sect,    .,
: 299 U 0663 1   ('ALE',        sect_end,  enter_sect,    .,
: 300 U 0664 1   ('NONE',       sect_end,  enter_sect,    .,
: 301 U 0665 1   ('LEVEL')
: 302 U 0666 1
: 303 U 0667 1 $state (
: 304 U 0668 1   ('='),
: 305 U 0669 1   (':')
: 306 U 0670 1
: 307 U 0671 1 $state (
: 308 U 0672 1   (tpa$_decimal, sect_end,  enter_sect,    .,
: 309 U 0673 1
: 310 U 0674 1 $state(sect_end,
```

```
311      U 0675 1      (tpa$_eos,          tpa$_exit)
312      U 0676 1      );
313      U 0677 1
314      U 0678 1      :
315      U 0679 1      Tables to parse /LEADER_DOTS values
316      U 0680 1      :
317      U 0681 1      $init_state (dot_state, dot_key);
318      U 0682 1      $state (
319      U 0683 1      (tpa$_any,
320      U 0684 1      (tpa$_eos,          tpa$_exit)    enter_dot),
321      U 0685 1      );
322      U 0686 1      $state (
323      U 0687 1      (tpa$_eos,          tpa$_exit)
324      U 0688 1      );
325      U 0689 1
326      0690 1 XFI
```

```
328      0691 1 %SBTTL 'CNTCLI - CONTENTS VMS Command line interface'
329      0692 1 GLOBAL ROUTINE cntcli =
330      0693 1 ++
331      0694 1
332      0695 1 FUNCTIONAL DESCRIPTION:
333      0696 1
334      0697 1 This routine uses the VMS DCL CLE to obtain command
335      0698 1 line information that is, in turn, passed to the
336      0699 1 Table of Contents application in a transportable fashion.
337      0700 1
338      0701 1 FORMAL PARAMETERS:
339      0702 1
340      0703 1     None
341      0704 1
342      0705 1
343      0706 1
344      0707 1     The VMS command line
345      0708 1
346      0709 1
347      0710 1
348      0711 1     cmdblk - The command line information block is initialized
349      0712 1
350      0713 1
351      0714 1
352      0715 1
353      0716 1     termination_status      - Set by CONDITION_HANDLER ()
354      0717 1
355      0718 1
356      0719 1     None
357      0720 1
358      0721 1
359      0722 1     --
360      0723 1
361      0724 2
362      0725 2     BEGIN
363      0726 2
364      0727 2     ENABLE
365      0728 2         condition_handler;
366      0729 2
367      0730 2     LOCAL
368      0731 2         status;
369      0732 2     $str_desc_init (descriptor = cmdblk [contents$!_input_file], class = dynamic);
370      0733 2     $str_desc_init (descriptor = cmdblk [contents$!_output_file], class = dynamic);
371      0734 2     $str_desc_init (descriptor = cmdblk [contents$!_require_file], class = dynamic);
372      0735 2     $str_desc_init (descriptor = cmdblk [contents$!_command_line], class = dynamic);
373      0736 2
374      0737 2
375      0738 2     | Get a copy of the whole command line.
376      0739 2
377      0740 2     cli$get_value (%ASCII'$LINE', cmdblk [contents$!_command_line]);
378      0741 2
379      0742 2
380      0743 2     | /FORMAT = { DSR : TMS11 }
381      0744 2
382      0745 2     * W A R N I N G *
383      0746 2
384      0747 2     | This qualifier must be processed before any other qualifier.
```

```
: 385      0748 2 | Other qualifiers depend on the value of this qualifier.  
: 386      0749 2 |  
: 387      0750 2 |  
: 388      0751 2 | * W A R N I N G *  
: 389      0752 2 |  
: 390      0753 2 | cmdblk [contents$v_tms11] = false;  
: 391      L 0754 2 %IF DSRPLUS  
: 392      U 0755 2 %THEN  
: 393      U 0756 2  
: 394      U 0757 2 IF cli$present (%ASCID'FORMAT')  
: 395      U 0758 2 THEN  
: 396      U 0759 2 BEGIN  
: 397      U 0760 2 cli$get_value (%ASCID'FORMAT', tmp_str);  
: 398      U 0761 2  
: 399      U 0762 2 IF NOT call_tparse (tmp_str, format_state, format_key, false)  
: 400      U 0763 2 THEN  
: 401      U 0764 2 SIGNAL_STOP (contents$_badvalue, 1, tmp_str);  
: 402      U 0765 2  
: 403      U 0766 2 END;  
: 404      U 0767 2  
: 405      0768 2 %FI  
: 406      0769 2  
: 407      0770 2 | /LINE_WIDTH = n  
: 408      0771 2 |  
: 409      0772 2 | * W A R N I N G *  
: 410      0773 2 |  
: 411      0774 2 | This qualifier must be processed after /FORMAT before any other  
: 412      0775 2 | qualifier. It depends on the value of /FORMAT and other qualifiers  
: 413      0776 2 | depend on the value of this qualifier.  
: 414      0777 2 |  
: 415      0778 2 | * W A R N I N G *  
: 416      0779 2 |  
: 417      0780 2 |  
: 418      0781 2 | qualifier_value = 70;  
: 419      0782 2  
: 420      L 0783 2 %IF DSRPLUS  
: 421      U 0784 2 %THEN  
: 422      U 0785 2  
: 423      U 0786 2 IF .cmdblk [contents$v_tms11]  
: 424      U 0787 2 THEN  
: 425      U 0788 2 BEGIN  
: 426      U 0789 2  
: 427      U 0790 2 Generating TMS11 output.  
: 428      U 0791 2  
: 429      U 0792 2 IF cli$present (%ASCID'LINE_WIDTH')  
: 430      U 0793 2 THEN  
: 431      U 0794 2 SIGNAL (contents$_ignored, 1, %ASCID'LINE_WIDTH', contents$_confqual);  
: 432      U 0795 2  
: 433      U 0796 2  
: 434      U 0797 2  
: 435      U 0798 2  
: 436      U 0799 2  
: 437      U 0800 2  
: 438      U 0801 2  
: 439      U 0802 2  
: 440      U 0803 2  
: 441      U 0804 2  
| qualifier_value = -1;  
| END  
| ELSE  
| BEGIN  
| IF cli$present (%ASCID'LINE_WIDTH')  
| THEN  
| BEGIN  
| cli$get_value (%ASCID'LINE_WIDTH', tmp_str);
```

```
442 U 0805 2
443 U 0806 2
444 U 0807 2
445 U 0808 2
446 U 0809 2
447 U 0810 2
448 U 0811 2
449 U 0812 2
450 U 0813 2
451 U 0814 2
452 U 0815 2
453 U 0816 2
454 U 0817 2
455 U 0818 2 XFI
456 U 0819 2
457 U 0820 2 cmdblk [contents$g_page_width] = .qualifier_value;
458 U 0821 2
459 U 0822 2
460 U 0823 2 /DEEPEST_HEADER = n
461 U 0824 2
462 U 0825 2 * W A R N I N G *
463 U 0826 2
464 U 0827 2 This qualifier must be processed before /INDENT.
465 U 0828 2 The value of indent depends on the value of this qualifier.
466 U 0829 2
467 U 0830 2 * W A R N I N G *
468 U 0831 2
469 U 0832 2 ! qualifier_value = 6;
470 U 0833 2
471 U 0834 2 IF cli$present (%ASCID'DEEPEST_HEADER')
472 U 0835 2 THEN
473 U 0836 3 BEGIN
474 U 0837 3 cli$get_value (%ASCID'DEEPEST_HEADER', tmp_str);
475 U 0838 3
476 U 0839 3 IF NOT call_tparse (tmp_str, numb_state, numb_key, false)
477 U 0840 3 THEN
478 U 0841 3 SIGNAL_STOP (contents$_badvalue, 1, tmp_str);
479 U 0842 3
480 U 0843 3 IF .qualifier_value GTR 6
481 U 0844 3 THEN
482 U 0845 3 SIGNAL_STOP (contents$_badvalue, 1, tmp_str, contents$_valerr);
483 U 0846 3
484 U 0847 2 END;
485 U 0848 2
486 U 0849 2 cmdblk [contents$g_headers] = .qualifier_value;
487 U 0850 2
488 U 0851 2
489 U 0852 2 /INDENT = ([CHAPTER = n], [TITLES = m], [PROGRESSIVE = p],
490 U 0853 2 [HL1 = m], [HL2 = q], [HL3 = r], [HL4 = s], [HL5 = t], [HL6 = u])
491 U 0854 2
492 U 0855 2 * W A R N I N G *
493 U 0856 2
494 U 0857 2 This qualifier must be processed after /FORMAT, /LINE_WIDTH and
495 U 0858 2 /DEEPEST_HEADER. It depends on their values.
496 U 0859 2
497 U 0860 2 * W A R N I N G *
498 U 0861 2 !
```

```
499      0862 2     indents [0] = 8;
500      0863 2     indents [1] = 8;
501      0864 2     indents [2] = 2;
502      0865 2
503      L 0866 2 %IF DSRPLUS
504      U 0867 2 %THEN
505      U 0868 2
506      U 0869 2     indents [3] = 2;
507      U 0870 2     indents [4] = 2;
508      U 0871 2     indents [5] = 2;
509      U 0872 2     indents [6] = 2;
510      U 0873 2
511      0874 2 %ELSE
512      0875 2
513      0876 2     indents [3] = 0;
514      0877 2     indents [4] = 0;
515      0878 2     indents [5] = 0;
516      0879 2     indents [6] = 0;
517      0880 2
518      0881 2 %FI
519      0882 2
520      0883 2     IF cli$present (%ASCID'INDENT')
521      0884 2       THEN
522      0885 3         BEGIN
523      0886 3
524      L 0887 3 %IF DSRPLUS
525      U 0888 3 %THEN
526      U 0889 3
527      U 0890 3     IF .cmdblk [contents$v_tms11]
528      U 0891 3       THEN
529      U 0892 3         BEGIN
530      U 0893 3           Generating TMS11 output.
531      U 0894 3
532      U 0895 3
533      U 0896 3
534      U 0897 3
535      U 0898 3     INCR i FROM 0 TO 6 DO indents [.i] = 0;
536      U 0899 3       END
537      U 0900 3
538      U 0901 3
539      U 0902 3
540      U 0903 3
541      U 0904 3     LOCAL
542      U 0905 3       total_indent;
543      U 0906 3
544      U 0907 3     WHILE cli$get_value (%ASCID'INDENT', tmp_str) DO
545      U 0908 3       IF NOT call_tparsel(tmp_str, ind_state, ind_key, false)
546      U 0909 3         THEN
547      U 0910 3           SIGNAL_STOP (contents$badvalue, 1, tmp_str);
548      U 0911 3
549      U 0912 3           Validate left margin indent.
550      U 0913 3
551      U 0914 3     total_indent = .indents [0];
552      U 0915 3
553      U 0916 3     IF .total_indent GEQ .cmdblk [contents$g_page_width]
554      U 0917 3       THEN
555      U 0918 3         BEGIN
```

```
: 556      U 0919 3
: 557      U 0920 3
: 558      U 0921 3
: 559      U 0922 3
: 560      U 0923 3
: 561      U 0924 3
: 562      U 0925 3
: 563      U 0926 3
: 564      U 0927 3
: 565      U 0928 3
: 566      U 0929 3
: 567      U 0930 3
: 568      U 0931 3
: 569      U 0932 3
: 570      U 0933 3
: 571      U 0934 3
: 572      U 0935 3
: 573      U 0936 3
: 574      U 0937 3
: 575      U 0938 3
: 576      U 0939 3
: 577      U 0940 3
: 578      U 0941 3
: 579      U 0942 3
: 580      U 0943 3
: 581      U 0944 3
: 582      U 0945 3
: 583      U 0946 3
: 584      U 0947 3
: 585      U 0948 3
: 586      U 0949 3
: 587      U 0950 3
: 588      U 0951 3
: 589      U 0952 3
: 590      U 0953 3
: 591      U 0954 3
: 592      U 0955 3
: 593      U 0956 3
: 594      U 0957 3
: 595      U 0958 3
: 596      U 0959 3
: 597      %ELSE
: 598
: 599      0962      indents [3] = 2;
: 600      0963      indents [4] = 2;
: 601      0964      indents [5] = 2;
: 602      0965      indents [6] = 2;
: 603      0966
: 604      0967      %FI
: 605      0968
: 606      0969      END;
: 607      0970
: 608      0971      |/[NO]LEADER_DOTS = k
: 609      0972      | * W A R N I N G *
: 610      0973      |
: 611      0974      |
: 612      0975      !
```

```
; 613      0976 2 | This qualifier must be processed after /FORMAT.  
; 614      0977 2 | It depends on the value of /FORMAT.  
; 615      0978 2 |  
; 616      0979 2 | * W A R N I N G *  
; 617      0980 2 |  
; 618      0981 2 | CH$WCHAR (%C'.', CH$PTR (cmdblk [contents$c_leader_char]));  
; 619      0982 2 |  
; 620      L 0983 2 %IF DSRPLUS  
; 621      U 0984 2 %THEN  
; 622      U 0985 2 |  
; 623      U 0986 2 IF .cmdblk [contents$v_tms11]  
; 624      U 0987 2 THEN  
; 625      U 0988 2 BEGIN  
; 626      U 0989 2 | Generating TMS11 output.  
; 627      U 0990 2 |  
; 628      U 0991 2 |  
; 629      U 0992 2 | SELECTONE cli$present (%ASCID'LEADER_DOTS') OF  
; 630      U 0993 2 | SET  
; 631      U 0994 2 |  
; 632      U 0995 2 | [cli$_present, cli$_negated]:  
; 633      U 0996 2 | | Value explicitly given or negated - ignored for TMS.  
; 634      U 0997 2 | | SIGNAL (contents$_ignored, 1, %ASCID'LEADER_DOTS', contents$_confqual);  
; 635      U 0998 2 |  
; 636      U 0999 2 |  
; 637      U 1000 2 |  
; 638      U 1001 2 |  
; 639      U 1002 2 |  
; 640      U 1003 2 |  
; 641      U 1004 2 |  
; 642      U 1005 2 |  
; 643      U 1006 2 |  
; 644      U 1007 2 |  
; 645      U 1008 2 |  
; 646      U 1009 2 |  
; 647      U 1010 2 |  
; 648      U 1011 2 | CH$WCHAR (%C' ', CH$PTR (cmdblk [contents$c_leader_char]));  
; 649      U 1012 2 | END  
; 650      U 1013 2 | ELSE  
; 651      U 1014 2 | BEGIN  
; 652      U 1015 2 |  
; 653      U 1016 2 | SELECTONE cli$present (%ASCID'LEADER_DOTS') OF  
; 654      U 1017 2 | SET  
; 655      U 1018 2 |  
; 656      U 1019 2 | [cli$_present]:  
; 657      U 1020 2 | BEGIN  
; 658      U 1021 2 | | Value explicitly given.  
; 659      U 1022 2 | |  
; 660      U 1023 2 | | cli$get_value (%ASCID'LEADER_DOTS', tmp_str);  
; 661      U 1024 2 | | IF NOT call_tparsel (tmp_str, dot_state, dot_key, true)  
; 662      U 1025 2 | | THEN  
; 663      U 1026 2 | | SIGNAL_STOP (contents$_badvalue, 1, tmp_str);  
; 664      U 1027 2 | |  
; 665      U 1028 2 | | END;  
; 666      U 1029 2 | |  
; 667      U 1030 2 | |  
; 668      U 1031 2 | |  
; 669      U 1032 2 | | [cli$_negated]:
```

```
: 670      U 1033 2
: 671      U 1034 2
: 672      U 1035 2
: 673      U 1036 2
: 674      U 1037 2
: 675      U 1038 2
: 676      U 1039 2
: 677      U 1040 2
: 678      U 1041 2
: 679      U 1042 2
: 680      U 1043 2
: 681      U 1044 2
: 682      U 1045 2
: 683      U 1046 2
: 684      U 1047 2
: 685      U 1048 2
: 686      U 1049 2
: 687      1050 2
: 688      1051 2
: 689      1052 2
: 690      1053 2
: 691      1054 2
: 692      1055 2
: 693      1056 2
: 694      1057 2
: 695      1058 2
: 696      1059 2
: 697      1060 2
: 698      1061 2
: 699      1062 2
: 700      1063 2
: 701      1064 2
: 702      1065 2
: 703      1066 2
: 704      1067 2
: 705      1068 2
: 706      1069 3
: 707      1070 3
: 708      1071 3
: 709      1072 3
: 710      1073 3
: 711      1074 3
: 712      1075 3
: 713      1076 4
: 714      1077 3
: 715      1078 4
: 716      1079 4
: 717      1080 4
: 718      1081 4
: 719      1082 4
: 720      1083 4
: 721      1084 4
: 722      1085 3
: 723      1086 3
: 724      1087 2
: 725      1088 2
: 726      1089 2

    | Value explicitly negated.
    | CH$WCHAR (%C' ', CH$PTR (cmdblk [contents$c_leader_char]));
    | [OTHERWISE]:
    |     | Value defaulted
    |     | or qualifier absent (not possible - present by default).
    |     | In any event, do nothing.

    TES;

END;

%FI

    | /PAGE_NUMBERS = ([[NO]RUNNING], [STANDARD], [LEVEL = n])
    | NORUNNING is the same as STANDARD.

    * W A R N I N G *

    This qualifier must be processed after /FORMAT.
    It depends on the value of /FORMAT.

    * W A R N I N G *

cmdblk [contents$v_standard_page] = true;
qualifier_value = 6;

IF cli$present (%ASCID'PAGE_NUMBERS')
THEN
BEGIN
WHILE cli$get_value (%ASCID'PAGE_NUMBERS', tmp_str) DO
    IF NOT call_tparse (tmp_str, page_state, page_key, false)
    THEN
        SIGNAL_STOP (contents$_badvalue, 1, tmp_str);
    IF .cmdblk [contents$v_tms11] and (.qualifier_value NEQ 6)
    THEN
        BEGIN
        | LEVEL = n not allowed for TMS11 output.
        SIGNAL (contents$_ignored, 1, %ASCID'LEVEL', contents$_confqual);
        qualifier_value = 6;
        END;
    END;
cmdblk [ccntents$g_page_level] = .qualifier_value;
```

```
727      1090 2
728      1091 2
729      1092 2
730      1093 2
731      1094 2
732      1095 2
733      1096 2
734      1097 2
735      1098 2
736      L 1099 2
737      U 1100 2
738      U 1101 2
739      U 1102 2
740      U 1103 2
741      U 1104 2
742      U 1105 2
743      U 1106 2
744      U 1107 2
745      U 1108 2
746      U 1109 2
747      U 1110 2
748      U 1111 2
749      1112 2
750      1113 2
751      1114 2
752      1115 2
753      1116 2
754      1117 2
755      1118 2
756      1119 2
757      1120 2
758      1121 2
759      1122 2
760      1123 2
761      1124 2
762      L 1125 2
763      U 1126 2
764      U 1127 2
765      U 1128 2
766      U 1129 2
767      U 1130 2
768      U 1131 2
769      U 1132 2
770      U 1133 2
771      U 1134 2
772      U 1135 2
773      U 1136 2
774      U 1137 2
775      U 1138 2
776      U 1139 2
777      U 1140 2
778      U 1141 2
779      U 1142 2
780      U 1143 2
781      1144 2
782      1145 2
783      1146 2

    |/[NO]BOLD = n
    |qualifier_value = -1;
    IF cli$present (%ASCIID'BOLD')
    THEN
    %IF DSRPLUS
    %THEN
        BEGIN
        qualifier_value = 6;
        cli$get_value (%ASCIID'BOLD', tmp_str);
        IF NOT call_tparse (tmp_str, numb_state, numb_key, false)
        THEN
            SIGNAL_STOP (contents$_badvalue, 1, tmp_str);
        END;
    %ELSE
        qualifier_value = 6;
    %FI
        cmdblk [contents$g_bold] = .qualifier_value;
    |/[NO]DOUBLE_SPACE[=n]
    qualifier_value = -1;
    %IF DSRPLUS
    %THEN
        IF cli$present (%ASCIID'DOUBLE_SPACE')
        THEN
            BEGIN
            qualifier_value = 1;
            cli$get_value (%ASCIID'DOUBLE_SPACE', tmp_str);
            IF NOT call_tparse (tmp_str, numb_state, numb_key, false)
            THEN
                SIGNAL_STOP (contents$_badvalue, 1, tmp_str);
            IF .qualifier_value LSS 1
            THEN
                SIGNAL_STOP (contents$_badvalue, 1, tmp_str, contents$_valerr);
            END;
    %FI
        cmdblk [contents$g_double_space] = .qualifier_value;
```

```
784 1147 2
785 1148 2
786 1149 2 | /IDENTIFICATION
787 1150 2
788 1151 2 | IF cli$present (%ASCID'IDENTIFICATION')
789 1152 2 | THEN SIGNAL (contents$_ident, 2, .cntvrl, .cntvrp);
790 1153 2
791 1154 2
792 1155 2 | /[NO]LOG
793 1156 2
794 1157 2
795 1158 2 | IF cli$present (%ASCID'LOG')
796 1159 2 | THEN cmdblk [contents$v_log] = true
797 1160 2 | ELSE cmdblk [contents$v_log] = false;
798 1161 2
799 1162 2
800 1163 2
801 1164 2 | /[NO]OUTPUT = filespec
802 1165 2
803 1166 2
804 1167 2 | IF cli$present (%ASCID'OUTPUT')
805 1168 2 | THEN BEGIN
806 1169 3 | cmdblk [contents$v_output] = true;
807 1170 3 | cli$get_value (%ASCID'OUTPUT', cmdblk [contents$t_output_file]);
808 1171 3 | END
809 1172 3
810 1173 2 | ELSE cmdblk [contents$v_output] = false;
811 1174 2
812 1175 2
813 1176 2 | /REQUIRE = filespec
814 1177 2
815 1178 2
816 1179 2
817 1180 2 | IF cli$present (%ASCID'REQUIRE')
818 1181 2 | THEN BEGIN
819 1182 3 | cmdblk [contents$v_require] = true;
820 1183 3 | cli$get_value (%ASCID'REQUIRE', cmdblk [contents$t_require_file]);
821 1184 3 | END
822 1185 3
823 1186 2 | ELSE cmdblk [contents$v_require] = false;
824 1187 2
825 1188 2
826 1189 2 | /SECTION_NUMBERS = { AS_INPUT : ALL : NONE : LEVEL = n }
827 1190 2
828 1191 2
829 1192 2 | cmdblk [contents$v_include_sections] = true;
830 1193 2
831 L 1194 2 %IF DSRPLUS
832 U 1195 2 %THEN
833 U 1196 2
834 U 1197 2 cmdblk [contents$g_sections] = -1; ! Display section numbers AS_INPUT
835 U 1198 2
836 U 1199 2 | IF cli$present (%ASCID'SECTION_NUMBERS')
837 U 1200 2 | THEN BEGIN
838 U 1201 2 | cmdblk [contents$v_section_numbers] = tmp_str;
839 U 1202 2
840 U 1203 2
```

```
841 U 1204 2      IF NOT call_tparse (tmp_str, sect_state, sect_key, false)
842 U 1205 2      THEN
843 U 1206 2          SIGNAL_STOP (contents$_badvalue, 1, tmp_str);
844 U 1207 2
845 U 1208 2      END;
846 U 1209 2
847 U 1210 2      %ELSE
848 U 1211 2          cmdblk [contents$g_sections] = 6;           ! Display ALL section numbers
849 U 1212 2
850 U 1213 2
851 U 1214 2      IF cli$present (%ASCID'SECTION_NUMBERS') EQL cli$_negated
852 U 1215 2      THEN
853 U 1216 3          BEGIN
854 U 1217 3              cmdblk [contents$v_include_sections] = false;
855 U 1218 3              cmdblk [contents$g_sections] = 0;
856 U 1219 2          END;
857 U 1220 2
858 U 1221 2      %FI
859 U 1222 2
860 U 1223 2          |/[NO]UNDERLINE = n
861 U 1224 2
862 U 1225 2          qualifier_value = -1;
863 U 1226 2
864 U 1227 2      IF cli$present (%ASCID'UNDERLINE')
865 U 1228 2      THEN
866 U 1229 2
867 U 1230 2
868 L 1231 2      %IF DSRPLUS
869 U 1232 2      %THEN
870 U 1233 2
871 U 1234 2      BEGIN
872 U 1235 2          qualifier_value = 6;
873 U 1236 2          cli$get_value (%ASCID'UNDERLINE', tmp_str);
874 U 1237 2
875 U 1238 2      IF NOT call_tparse (tmp_str, numb_state, numb_key, false)
876 U 1239 2      THEN
877 U 1240 2          SIGNAL_STOP (contents$_badvalue, 1, tmp_str);
878 U 1241 2
879 U 1242 2      IF .qualifier_value GTR 6
880 U 1243 2      THEN
881 U 1244 2          SIGNAL_STOP (contents$_badvalue, 1, tmp_str, contents$_valerr);
882 U 1245 2
883 U 1246 2
884 U 1247 2      END;
885 U 1248 2
886 U 1249 2      %ELSE
887 U 1250 2          qualifier_value = 6;
888 U 1251 2
889 U 1252 2      %FI
890 U 1253 2
891 U 1254 2          cmdblk [contents$g_underline] = .qualifier_value;
892 U 1255 2
893 U 1256 2          | Process input file(s) and positional qualifiers.
894 U 1257 2
895 U 1258 2
896 U 1259 2      WHILE (status = cli$get_value (%ASCID'INPUT', cmdblk [contents$t_input_file])) DO
897 U 1260 3          BEGIN
```

```
: 898    1261 3      toc ();                                ! Process input file.  
.: 899    1262 3  
.: 900    1263 3  
.: 901    1264 3      | Generate Figures, Tables, and Examples and finish up if  
.: 902    1265 3      | the current input file is not concatenated to the next.  
.: 903    1266 3  
.: 904    1267 3      IF .status NEQ cli$concat THEN tocfin ();  
.: 905    1268 2      END;  
.: 906    1269 2  
.: 907    1270 2      RETURN (.termination_status OR sts$m_inhib_msg);  
.: 908    1271 1      END;
```

```
.TITLE CNTVMS CNTVMS - CONTENTS VMS command Line Inter  
face  
.IDENT \V04-000\  
.PSECT _LIB$KEY1$,NOWRT, SHR, PIC,1
```

```
        00000 ;TPA$KEYST0  
47 4E 49 4E 4E 55 52 00000 ;TPA$KEYST U.9: .BLKB 0  
FF 00007 ;TPA$KEYST U.11: .ASCII \RUNNING\  
        00008 ;TPA$KEYST0 U.18: .BLKB 0  
47 4E 49 4E 4E 55 52 4F 4E 00008 ;TPA$KEYST U.20: .ASCII \NORUNNING\  
FF 00011 ;TPA$KEYST U.26: .BLKB 0  
00012 ;TPA$KEYST0 U.28: .ASCII \LEVEL\  
4C 45 56 45 4C 00012 ;TPA$KEYST U.30: .BYTE -1  
FF 00017 ;TPA$KEYST FF 00018 ;TPA$KEYFILL
```

```
.PSECT _LIB$STATES,NOWRT, SHR, PIC,1
```

```
        00000 NUMB_STATE::  
41F3 00000 ;TPA$TYPE .BLKB 0  
00000000* 00002 ;TPA$ADDR U.2: .WORD 16883  
15F7 00006 ;TPA$TYPE U.3: .LONG <<QUALIFIER_VALUE-U.3>-4>  
FFFF 00008 ;TPA$TARGET U.4: .WORD 5623  
15F7 0000A ;TPA$TYPE U.5: .WORD -1  
FFFF 0000C ;TPA$TARGET U.6: .WORD 5623  
0000E ;TPA$TARGET U.7: .WORD -1  
00010 PAGE_STATE::  
9300 00010 ;TPA$TYPE .BLKB 0
```

01 00012 U.12: WORD -27904 ;
00000000 00013 U.13: BYTE 1 ;
00000000V 00017 U.14: LONG 0 ;
0000* 0001B U.15: LONG <<ENTER_PAGE-U.15>-4> ;
9301 0001D U.17: WORD <<U.16-U.17>-2> ;
01 0001F U.21: WORD -27903 ;
00000001 00020 U.22: BYTE 1 ;
00000000V 00024 U.23: LONG 1 ;
0000* 00028 U.24: LONG <<ENTER_PAGE-U.24>-4> ;
0502 0002A U.25: WORD <<U.16-U.25>-2> ;
003D 0002C U.29: WORD 1282 ;
043A 0002E U.31: WORD 61 ;
55F3 00030 U.32: WORD 1082 ;
00000000* 00032 U.33: WORD 22003 ;
0000* 00036 U.34: LONG <<QUALIFIER_VALUE-U.34>-4> ;
00038 U.35: WORD <<U.16-U.35>-2> ;
15F7 00038 U.16: BLKB 0 ;
FFFF 0003A U.36: WORD 5623 ;
FFFF 0003A U.37: WORD -1 ;

.PSECT _LIB\$KEY0\$,NOWRT, SHR, PIC,1

00000 NUMB_KEY::
00000 ;TPA\$KEY0 BLKB 0
00000 U.1: BLKB 0
00000 PAGE_KEY::
00000 ;TPA\$KEY0 BLKB 0
0000* 00000 U.8: BLKB 0
0000* 00002 ;TPA\$KEY U.10: WORD <U.9-U.8> ;
0000* 00004 ;TPA\$KEY U.19: WORD <U.18-U.8> ;
0000* 00004 ;TPA\$KEY U.27: WORD <U.26-U.8> ;

.PSECT \$PLIT\$,NOWRT,NOEXE,2

CNTVMS
V04-000CNTVMS - CONTENTS VMS command Line Interface
CNTCLI - CONTENTS VMS Command line interfaceN 3
15-Sep-1984 23:58:21
14-Sep-1984 13:05:43
VAX-11 Bliss-32 V4.0-742
[RUNOFF.SRC] CNTVMS.B32;1Page 30
(4)

00 52 45 44 41 45 48 5F 54 53 45 50 45 45 44 00 00 00 45 4E 49 4C 24 00000 00008 0000C 00010 00020 00024 00028 00038 00040 00048 00050 0005C 00060 00064 00074 00078 00080 00084 00088 0008C 00090 00094 000A3 000A4 000A8 000AC 000B0 000B4 000B8 000C0 000C4 000C8 000D0 000D4 000D8 000E0 000E4 000E8 000F0 000F4 000F8 00107 00108 0010C 00110 0011C 00120 00124 0012C 00130	P.AAB: P.AAA: P.AAD: P.AAC: P.AAF: P.AAE: P.AAH: P.AAG: P.AAJ: P.AAI: P.AAL: P.AAK: P.AAN: P.AAM: P.AAP: P.AAO: P.AAR: P.AAQ: P.AAS: P.AAT: P.AAV: P.AAU: P.AAX: P.AAW: P.AAZ: P.AAY: P.ABB: P.ABA: P.ABD: P.ABC: P.ABF: P.ABE: P.ACH: P.ABG:	.ASCII \\$LINE\<0><0><0> .LONG 17694725 .ADDRESS P.AAB .ASCII \DEEPEST_HEADER\<0><0> .LONG 17694734 .ADDRESS P.AAD .ASCII \DEEPEST_HEADER\<0><0> .LONG 17694734 .ADDRESS P.AAF .ASCII \INDENT\<0><0> .LONG 17694726 .ADDRESS P.AAH .ASCII \PAGE NUMBERS\ .LONG 17694732 .ADDRESS P.AAJ .ASCII \PAGE NUMBERS\ .LONG 17694732 .ADDRESS P.AAL .ASCII \LEVEL\<0><0><0> .LONG 17694725 .ADDRESS P.AAN .ASCII \BOLD\ .LONG 17694724 .ADDRESS P.AAP .ASCII \IDENTIFICATION\<0><0> .LONG 17694734 .ADDRESS P.AAR .ASCII \LOG\<0> .LONG 17694723 .ADDRESS P.AAT .ASCII \OUTPUT\<0><0> .LONG 17694726 .ADDRESS P.AAV .ASCII \OUTPUT\<0><0> .LONG 17694726 .ADDRESS P.AAX .ASCII \REQUIRE\<0> .LONG 17694727 .ADDRESS P.AAZ .ASCII \REQUIRE\<0> .LONG 17694727 .ADDRESS P.ABB .ASCII \SECTION_NUMBERS\<0> .LONG 17694735 .ADDRESS P.ABD .ASCII \UNDERLINE\<0><0><0> .LONG 17694729 .ADDRESS P.ABF .ASCII \INPUT\<0><0><0> .LONG 17694725 .ADDRESS P.ABH
--	---	--

.PSECT \$OWNS,NOEXE,2

00000 QUALIFIER VALUE:

0000	00004	TMP_STR:WORD	.BLKB 4
02 0E	00006	.BYTE	0
00000000	00008	.LONG	14, 2
00000001	0000C	TERMINATION STATUS:	.LONG 0

.EXTRN DSRTOC\$_BADVALUE
.EXTRN DSRTOC\$_OPENIN, DSRTOC\$_OPENOUT
.EXTRN DSRTOC\$_VALERR, DSRTOC\$_CAPTIONS
.EXTRN DSRTOC\$_CLOSEQUOT
.EXTRN DSRTOC\$_CONFQUAL
.EXTRN DSRTOC\$_CTRLCHAR
.EXTRN DSRTOC\$_EMPTYIN
.EXTRN DSRTOC\$_IGNORED
.EXTRN DSRTOC\$_INVINPUT
.EXTRN DSRTOC\$_INVRECORD
.EXTRN DSRTOC\$_OVERSTRK
.EXTRN DSRTOC\$_COMPLETE
.EXTRN DSRTOC\$_CREATED
.EXTRN DSRTOC\$_IGNORENEW
.EXTRN DSRTOC\$_IGNOREOLD
.EXTRN DSRTOC\$_PROCFILE
.EXTRN DSRTOC\$_TEXTD, DSRTOC\$_TMS11
.EXTRN DSRTOC\$_IDENT, CLIS\$ CONCAT
.EXTRN CLIS\$PRESENT, CLIS\$DEFAULTED
.EXTRN CLIS\$NEGATED, CLIS\$ABSENT
.EXTRN CMDBLK, CNTVRL, CNTVRP
.EXTRN CLISPRESENT, CLISGET_VALUE
.EXTRN LIBSTPARSE, TOC
.EXTRN TOCFIN

.PSECT \$CODE\$,NOWRT,2

OFFC 00000

5B	00000000V	EF	9E	00002
5A	00000000'	EF	9E	00009
59	00000000G	00	9E	00010
58	00000000G	8F	D0	00017
57	00000000G	00	9E	0001E
56	00000000G	00	9E	00025
55	00000000'	EF	9E	0002C
54	00000000'	EF	9E	00033
53	00000000G	EF	9E	0003A
6D	020A	CF	DE	00041
3C	A3 020E0000	8F	D0	00046
	40	A3	D4	0004E
44	A3 020E0000	8F	D0	00051
	48	A3	D4	00059
4C	A3 020E0000	8F	D0	0005C
	50	A3	D4	00064
54	A3 020E0000	8F	D0	00067
	58	A3	D4	0006F
	54	A3	9F	00072

.ENTRY	CNTCLI, Save R2,R3,R4,R5,R6,R7,R8,R9,R10,-	: 0692
	R11	
MOVAB	CALL_TPASE, R11	
MOVAB	NUMB\$KEY, R10	
MOVAB	LIB\$STOP, R9	
MOVL	#DSRTOC\$_BADVA E, R8	
MOVAB	CLIS\$GET_VALUE, R7	
MOVAB	CLIS\$PRESENT, R6	
MOVAB	P.AAA, R5	
MOVAB	QUALIFIER VALUE, R4	
MOVAB	CMDBLK, R3	
MOVL	19\$, (FP)	
MOVL	#34471936, \$STR\$DESC	
CLRL	\$STR\$DESC+4	0724
MOVL	#34471936, \$STR\$DESC	0732
CLRL	\$STR\$DESC+4	
MOVL	#34471936, \$STR\$DESC	0733
CLRL	\$STR\$DESC+4	
MOVL	#34471936, \$STR\$DESC	0734
CLRL	\$STR\$DESC+4	
MOVL	#34471936, \$STR\$DESC	0735
CLRL	\$STR\$DESC+4	
PUSHAB	CMDBLK+84	0740

			55	DD 00075	PUSHL	R5	
	67		02	FB 00077	CALLS	#2, CLISGET_VALUE	
	63		02	8A 0007A	BICB2	#2, CMDBLK	0752
	64	46	8F	9A 0007D	MOVZBL	#70, QUALIFIER_VALUE	0781
18	A3		64	DO 00081	MOVL	QUALIFIER_VALUE, CMDBLK+24	0820
	64		06	DO 00085	MOVL	#6, QUALIFIER_VALUE	0832
		18	A5	9F 00088	PUSHAB	P.AAC	0834
	66		01	FB 0008B	CALLS	#1, CLISPRES	
	38		50	E9 0008E	BLBC	R0, 2\$	
		04	A4	9F 00091	PUSHAB	TMP_STR	0837
		30	A5	9F 00094	PUSHAB	P.AAE	
	67		02	FB 00097	CALLS	#2, CLISGET_VALUE	
			7E	D4 0009A	CLRL	-(SP)	0839
			5A	DD 0009C	PUSHL	R10	
		00000000'	EF	9F 0009E	PUSHAB	NUMB_STATE	
			04	A4 000A4	PUSHAB	TMP_STR	
	6B		04	FB 000A7	CALLS	#4, CALL_TPARSE	
	0A		50	E8 000AA	BLBS	R0, 1\$	
		04	A4	9F 000AD	PUSHAB	TMP_STR	0841
			01	DD 000B0	PUSHL	#1	
			58	DD 000B2	PUSHL	R8	
	69		03	FB C00B4	CALLS	#3, LIB\$STOP	
	06		64	D1 000B7	1\$: CMPL	QUALIFIER_VALUE, #6	0843
		00000000G	10	15 000BA	BLEQ	2\$	
			8F	DD 000BC	PUSHL	#DSRTOCS_VALERR	0845
		04	A4	9F 000C2	PUSHAB	TMP_STR	
			01	DD 000C5	PUSHL	#1	
			58	DD 000C7	PUSHL	R8	
	04	69	04	FB 000C9	CALLS	#4, LIB\$STOP	
	A3		64	DO 000CC	2\$: MOVL	QUALIFIER_VALUE, CMDBLK+4	0849
	20	A3	08	DO 000D0	MOVL	#8, INDENTS	0862
	24	A3	08	DO 000D4	MOVL	#8, INDENTS+4	0863
	28	A3	02	7D 000D8	MOVQ	#2, INDENTS+8	0864
		30	A3	7C 000DC	CLRQ	INDENTS+16	0877
		38	A3	D4 000DF	CLRL	INDENTS+24	0879
		40	A5	9F 000E2	PUSHAB	P.AAG	0883
			01	FB 000E5	CALLS	#1, CLISPRES	
	20	A3	50	E9 000E8	BLBC	R0, 3\$	
	30	A3	02	DO 000EB	MOVL	#2, INDENTS+12	0962
	34	A3	02	DO 000EF	MOVL	#2, INDENTS+16	0963
	38	A3	02	DO 000F3	MOVL	#2, INDENTS+20	0964
	02	A3	02	DO 000F7	MOVL	#2, INDENTS+24	0965
		2E	90	000FB	3\$: MOVB	#46, CMDBLK+2	0981
			08	88 000FF	BISB2	#8, CMDBLK	1064
			64	06 DO 00102	MOVL	#6, QUALIFIER_VALUE	1065
			54	A5 9F 00105	PUSHAB	P.AAI	1067
	66		01	FB 00108	CALLS	#1, CLISPRES	
	4F		50	E9 0010B	BLBC	R0, 6\$	
		04	A4	9F 0010E	4\$: PUSHAB	TMP_STR	1071
			68	A5 9F 00111	PUSHAB	P.AAK	
	67		02	FB 00114	CALLS	#2, CLISGET_VALUE	
	1F		50	E9 00117	BLBC	R0, 5\$	
			7E	D4 0011A	CLRL	-(SP)	
		00000000'	5A	DD 0011C	PUSHL	R10	
			EF	9F 0011E	PUSHAB	PAGE_STATE	
		04	A4	9F 00124	PUSHAB	TMP_STR	
	6B		04	FB 00127	CALLS	#4, CALL_TPARSE	

CNTVMS
V04-000CNTVMS - CONTENTS VMS
CNTCLI - CONTENTS VMS

command Line Command line

D
4Interface
Interface
15-Sep-1984 14-Sep-198423:58:21 13:05:43
VAX-11 Bliss-32 v4.0-742
[RUNOFF.SRC] CNTVMS.B32:1Page 33
(4)

		E1	50	E8 0012A	BLBS	R0, 4\$		1074
			A4	9F 0012D	PUSHAB	TMP_STR		
			01	DD 00130	PUSHL	#1		
			58	DD 00132	PUSHL	R8		
		69	03	FB 00134	CALLS	#3, LIBSTOP		
			D5	11 00137	BRB	4\$		
20		63	01	E1 00139	5\$: BEQL	#1, CMDBLK, 6\$	1072	
		06	64	D1 0013D	CMPL	QUALIFIER_VALUE, #6	1076	
			1B	13 00140	PUSHL	#DSRTOCS_CONFQUAL	1082	
			78	A5 00142	PUSHAB	P_AAM		
			01	DD 00148	PUSHL	#1		
	00000000G	00	00000000G	8F DD 0014D	PUSHL	#DSRTOCS IGNORED		
		64	04	FB 00153	CALLS	#4, LIBSSIGNAL		
		08	A3	60 0015A	MOVL	#6, QUALIFIER_VALUE	1084	
		64	64	D0 0015D	6\$: MOVL	QUALIFIER_VALUE, CMDBLK+8	1089	
			01	CE 00161	MNEGL	#1, QUALIFIER_VALUE	1094	
			0084	C5 9F 00164	PUSHAB	P_AAO	1096	
		66	01	FB 00168	CALLS	#1, CLISPRESENT		
		03	50	E9 0016B	BLBC	R0, 7\$		
		64	06	D0 0016E	MOVL	#6, QUALIFIER_VALUE	1114	
10		A3	64	D0 00171	7\$: MOVL	QUALIFIER_VALUE, CMDBLK+16	1118	
		64	01	CE 00175	MNEGL	#1, QUALIFIER_VALUE	1123	
	00000000G	1C	A3	64 00178	MOVL	QUALIFIER_VALUE, CMDBLK+28	1146	
			009C	C5 9F 0017C	PUSHAB	P_AAQ	1151	
		66	01	FB 00180	CALLS	#1, CLISPRESENT		
		1B	50	E9 00183	BLBC	R0, 8\$		
		00000000G	EF	DD 00186	PUSHL	CNTVRP	1153	
		00000000G	EF	DD 0018C	PUSHL	CNTVRL		
			02	DD 00192	PUSHL	#2		
	00000000G	00	00000000G	8F DD 00194	PUSHL	#DSRTOCS IDENT		
		04	FB 0019A	CALLS	#4, LIBSSIGNAL			
		66	00A8	C5 9F 001A1	8\$: PUSHAB	P_AAS	1158	
		01	FB 001A5	CALLS	#1, CLISPRESENT			
		05	50	E9 001A8	BLBC	R0, 9\$		
		63	20	88 001AB	BISB2	#32, CMDBLK	1160	
			03	11 001AE	BRB	10\$		
		63	20	8A 001B0	9\$: BICB2	#32, CMDBLK	1162	
		66	00B8	C5 9F 001B3	10\$: PUSHAB	P_AAU	1167	
		01	FB 001B7	CALLS	#1, CLISPRESENT			
		0F	50	E9 001BA	BLBC	R0, 11\$		
		63	01	88 001BD	BISB2	#1, CMDBLK	1170	
		44	A3	9F 001C0	PUSHAB	CMDBLK+68	1171	
		00C8	C5 9F 001C3	PUSHAB	P_AAW			
		67	02	FB 001C7	CALLS	#2, CLISGET_VALUE		
		03	11	001CA	BRB	12\$	1167	
		63	01	8A 001CC	11\$: BICB2	#1, CMDBLK	1174	
		00D8	C5 9F 001CF	12\$: PUSHAB	P_AAY		1180	
		66	01	FB 001D3	CALLS	#1, CLISPRESENT		
		0F	50	E9 001D6	BLBC	R0, 13\$		
		63	04	88 001D9	BISB2	#4, CMDBLK	1183	
		4C	A3	9F 001DC	PUSHAB	CMDBLK+76	1184	
		00E8	C5 9F 001DF	PUSHAB	P_ABA			
		67	02	FB 001E3	CALLS	#2, CLISGET_VALUE		
		03	11	001E6	BRB	14\$	1180	
		63	04	8A 001E8	13\$: BICB2	#4, CMDBLK	1187	
		63	10	88 001EB	14\$: BISB2	#16, CMDBLK	1192	

CNTVMS V04-000		CNTVMS - CONTENTS VMS CNTCLI - CONTENTS VMS		command Line Interface Command Line interface		15-Sep-1984 23:58:21 14-Sep-1984 13:05:43		VAX-11 Bliss-32 V4.0-742 [RUNOFF.SRC]CNTVMS.B32;1		Page 34 (4)	
14	A3			06	D0 001EE		MOVL	#6, CMDBLK+20		1212	
		0100		C5 9F 001F2			PUSHAB	P.ABC		1214	
00000000G	66 8F			01 FB 001F6			CALLS	#1, CLISPRES			
		50 D1 001F9		06 12 00200			CMPL	R0, #CLIS_NEGATED			
	63		14	10 8A 00202			BNEQ	15\$		1217	
	64		14	A3 D4 00205		15\$:	BICB2	#16, CMDBLK		1218	
		01 CE 00208					CLRL	CMDBLK+20		1226	
	66		0114	C5 9F 0020B			MNEG	#1, QUALIFIER_VALUE		1228	
		01 FB 0020F					PUSHAB	P.ABE			
	03			50 E9 00212			CALLS	#1, CLISPRES			
	64			06 D0 00215			BLBC	R0, 16\$		1250	
OC	A3		64	D0 00218	16\$:	17\$:	MOVL	#6, QUALIFIER_VALUE		1254	
		3C A3 9F 0021C					MOVL	QUALIFIER_VALUE, CMDBLK+12		1259	
		0124 C5 9F 0021F					PUSHAB	CMDBLK+60			
	67		02 FB 00223				PUSHAB	P.ABG			
	52		50 D0 00226				CALLS	#2, CLISGET_VALUE			
	19		52 E9 00229				MOVL	RO, STATUS			
00000000G	EF		00 FB 0022C				BLBC	STATUS, 18\$		1261	
00000000G	8F		52 D1 00233				CALLS	#0, TOC		1267	
		E0 13 0023A					CMPL	STATUS, #CLIS_CONCAT			
00000000G	EF		00 FB 0023C				BEQL	17\$			
		D7 11 00243					CALLS	#0, TOCFIN		1259	
50	OC	A4 10000000	8F C9 00245	18\$:			BRB	17\$		1270	
			04 0024E				BISL3	#268435456, TERMINATION_STATUS, R0		1271	
			0000 0024F	19\$:			RET			0724	
							.WORD	Save nothing			
			7E D4 00251				CLRL	-(SP)			
			5E DD 00253				PUSHL	SP			
00000000V	7E EF	04	AC 7D 00255				MOVQ	4(AP), -(SP)			
			03 FB 00259				CALLS	#3, CONDITION_HANDLER			
			04 00260				RET				

; Routine Size: 609 bytes, Routine Base: \$CODES + 0000

```
910      1272 1 %SBTTL 'CALL_TPARSE -- Invoke TPARSE to process qualifier values'  
911      1273 1 ROUTINE call_tparse (string : REF $str_descriptor (), state_tab, key_tab, blanks) =  
912      1274 1 ++  
913      1275 1  
914      1276 1 FUNCTIONAL DESCRIPTION:  
915      1277 1  
916      1278 1 This routine calls TPARSE to parse the given string with  
917      1279 1 the given state and key tables.  
918      1280 1  
919      1281 1 FORMAL PARAMETERS:  
920      1282 1  
921      1283 1     string   - Address of a string descriptor of string to parse  
922      1284 1     state_tab - Address of TPARSE state tables  
923      1285 1     key_tab  - Address of TPARSE key tables  
924      1286 1     blanks   - true if blanks are to be processed explicitly  
925      1287 1  
926      1288 1 IMPLICIT INPUTS:  
927      1289 1  
928      1290 1     None  
929      1291 1  
930      1292 1 IMPLICIT OUTPUTS:  
931      1293 1  
932      1294 1     None  
933      1295 1  
934      1296 1 ROUTINE VALUE:  
935      1297 1 COMPLETION CODES:  
936      1298 1  
937      1299 1     Returns completion code of lib$tparse.  
938      1300 1  
939      1301 1 SIDE EFFECTS:  
940      1302 1  
941      1303 1     None  
942      1304 1  
943      1305 1 --  
944      1306 1  
945      1307 2 BEGIN  
946      1308 2  
947      1309 2 LOCAL  
948      1310 2     tparsc_block : BLOCK [tpa$k_length0, BYTE],  
949      1311 2     status;  
950      1312 2  
951      1313 2  
952      1314 2     | Initialize the TPARSE parameter block.  
953      1315 2  
954      1316 2     tparsc_block [tpa$l_count]      = tpa$k_count0;  
955      1317 2     tparsc_block [tpa$l_options]    = tpa$m_abbrev;  
956      1318 2     tparsc_block [tpa$v_blanks]     = .blanks;  
957      1319 2     tparsc_block [tpa$l_stringcnt] = .string [str$h_length];  
958      1320 2     tparsc_block [tpa$l_stringptr] = .string [str$a_pointer];  
959      1321 2     tparsc_block [tpa$l_tokencnt]  = 0;  
960      1322 2     tparsc_block [tpa$l_tokenptr] = 0;  
961      1323 2     tparsc_block [tpa$l_number]    = 0;  
962      1324 2     tparsc_block [tpa$l_param]     = 0;  
963      1325 2  
964      1326 2     | Parse the string and return parse status.  
965      1327 2  
966      1328 2
```

CNTVMS
V04-000

CNTVMS - CONTENTS VMS command Line Interface G 4
CALL_TPARSE -- Invoke TPARSE to process qualifi 15-Sep-1984 23:58:21
14-Sep-1984 13:05:43 VAX-11 Bliss-32 V4.0-742
[RUNOFF.SRC]CNTVMS.B32;1

Page 36
(5)

; 967 1329 2 RETURN lib\$tparse (tparse_block, .state_tab, .key_tab);
; 968 1330 1 END;

0000 00000 CALL_TPARSE:					
			.WORD	Save nothing	1273
		5E	SUBL2	#32, SP	
04 AE	01	04 AE	08 DD 00005	PUSHL #8	1316
		00	02 DD 00007	MOVL #2, TPARSE_BLOCK+4	1317
		50	04 AC F0 0000B	INSV BLANKS, #0, #1, TPARSE_BLOCK+4	1318
		08 AE	60 3C 00012	MOVL STRING, R0	1319
		0C AE	04 AO DO 0001A	MOVZWL (R0), TPARSE_BLOCK+8	
			10 AE 7C 0001F	MOVL 4(R0), TPARSE_BLOCK+12	1320
		7E	1C AE 7C 00022	CLRQ TPARSE_BLOCK+T6	1321
		0000000G 00	08 AC 7D 00025	CLRQ TPARSE_BLOCK+28	1323
			08 AE 9F 00029	MOVQ STATE TAB, -(SP)	1329
			03 FB 0002C	PUSHAB TPARSE_BLOCK	
			04 00033	CALLS #3, LIB\$TPARSE	
				RET	1330

; Routine Size: 52 bytes, Routine Base: \$CODE\$ + 0261

```

970      1331 1 %SBTTL 'ENTER_PAGE -- Action routine - enter page display type'
971      1332 1 ROUTINE enter_page =
972      1333 1 ++
973      1334 1
974      1335 1 FUNCTIONAL DESCRIPTION:
975      1336 1
976      1337 1     This routine is called as an action routine by TPARSE.
977      1338 1     It sets contents$v_standard_page from tpa$l_param.
978      1339 1
979      1340 1 FORMAL PARAMETERS:
980      1341 1
981      1342 1     AP [tpa$l_param] - value to set contents$v_standard_page
982      1343 1
983      1344 1 IMPLICIT INPUTS:
984      1345 1
985      1346 1     None
986      1347 1
987      1348 1 IMPLICIT OUTPUTS:
988      1349 1
989      1350 1     cmdblk [contents$v_standard_page]
990      1351 1
991      1352 1 ROUTINE VALUE:
992      1353 1 COMPLETION CODES:
993      1354 1
994      1355 1     ss$_normal
995      1356 1
996      1357 1 SIDE EFFECTS:
997      1358 1
998      1359 1     None
999      1360 1
1000     1361 1 ---  

1001     1362 1
1002     1363 2 BEGIN
1003     1364 2
1004     1365 2 BUILTIN
1005     1366 2     AP;
1006     1367 2
1007     1368 2 MAP
1008     1369 2     AP : REF BLOCK [, BYTE];
1009     1370 2
1010     1371 2     cmdblk [contents$v_standard_page] = .AP [tpa$l_param];
1011     1372 2
1012     1373 2 RETURN ss$_normal;
1013     1374 1 END;

```

0000 00000 ENTER_PAGE:									
00000000G	EF	01	03	20	AC	F0	00002	WORD	Save nothing
			50		01	D0	0000C	INSV	32(AP), #3, #1, CMDBLK
					04	0000F	MOVL	#1, R0	
							RET		

```

: 1332
: 1371
: 1373
: 1374

```

; Routine Size: 16 bytes, Routine Base: \$CODE\$ + 0295

CNTVMS
V04-000

CNTVMS - CONTENTS VMS command Line Interface 1 4
ENTER_PAGE -- Action routine - enter page displ 15-Sep-1984 23:58:21
14-Sep-1984 13:05:43 VAX-11 Bliss-32 v4.0-742
[RUNOFF.SRC]CNTVMS.B32;1

Page 38
(6)

```
: 1015 L 1375 1 %IF DSRPLUS
: 1016 U 1376 1 %THEN
: 1017 U 1377 1
: 1018 U 1378 1 %SBTTL 'ENTER_FORMAT -- Action routine - Enter output format'
: 1019 U 1379 1 ROUTINE enter_format =
: 1020 U 1380 1 ++
: 1021 U 1381 1
: 1022 U 1382 1 FUNCTIONAL DESCRIPTION:
: 1023 U 1383 1
: 1024 U 1384 1 This routine is called as an action routine by TPARSE.
: 1025 U 1385 1
: 1026 U 1386 1 It sets the value of contents$v_tms11 based on the value of
: 1027 U 1387 1 the parameter passed by TPARSE.
: 1028 U 1388 1
: 1029 U 1389 1 FORMAL PARAMETERS:
: 1030 U 1390 1
: 1031 U 1391 1 AP [tpa$l_param] - true if generating TMS output, false otherwise
: 1032 U 1392 1
: 1033 U 1393 1 IMPLICIT INPUTS:
: 1034 U 1394 1 None
: 1035 U 1395 1
: 1036 U 1396 1
: 1037 U 1397 1 IMPLICIT OUTPUTS:
: 1038 U 1398 1 cmdblk [contents$v_tms11] ~ set to the value of AP [tpa$l_param]
: 1039 U 1399 1
: 1040 U 1400 1
: 1041 U 1401 1 ROUTINE VALUE:
: 1042 U 1402 1 COMPLETION CODES:
: 1043 U 1403 1
: 1044 U 1404 1 ss$_normal
: 1045 U 1405 1
: 1046 U 1406 1 SIDE EFFECTS:
: 1047 U 1407 1
: 1048 U 1408 1 None
: 1049 U 1409 1 !-- BEGIN
: 1050 U 1410 1 BUILTIN
: 1051 U 1411 1 AP;
: 1052 U 1412 1
: 1053 U 1413 1
: 1054 U 1414 1 MAP
: 1055 U 1415 1 AP : REF BLOCK [, BYTE];
: 1056 U 1416 1
: 1057 U 1417 1 cmdblk [contents$v_tms11] = .AP [tpa$l_param];
: 1058 U 1418 1 RETURN ss$_normal;
: 1059 U 1419 1 END;
: 1060 U 1420 1
: 1061 U 1421 1 %FI
```

```
1063 L 1422 1 %IF DSRPLUS
1064 U 1423 1 %THEN
1065 U 1424 1
1066 U 1425 1 ZSBTTL 'ENTER_SECT -- Action routine - enter section number display level'
1067 U 1426 1 ROUTINE enter_sect =
1068 U 1427 1 ++
1069 U 1428 1
1070 U 1429 1 FUNCTIONAL DESCRIPTION:
1071 U 1430 1
1072 U 1431 1 This routine is called as an action routine by TPARSE.
1073 U 1432 1 It sets the level of section number to be displayed based on the
1074 U 1433 1 value passed by TPARSE.
1075 U 1434 1
1076 U 1435 1 FORMAL PARAMETERS:
1077 U 1436 1
1078 U 1437 1 AP [tpa$l_param] = -1 - display section numbers AS INPUT
1079 U 1438 1 = 6 - display ALL section numbers
1080 U 1439 1 = -2 - don't display section numbers
1081 U 1440 1 = 0 - user specified deepest level to display
1082 U 1441 1 AP [tpa$l_number] = user specified level
1083 U 1442 1
1084 U 1443 1 IMPLICIT INPUTS:
1085 U 1444 1
1086 U 1445 1 None
1087 U 1446 1
1088 U 1447 1 IMPLICIT OUTPUTS:
1089 U 1448 1
1090 U 1449 1 cmdblk [contents$v_include_sections] = true if sections are to be
1091 U 1450 1 displayed
1092 U 1451 1 cmdblk [contents$g_sections] = deepest level to display
1093 U 1452 1
1094 U 1453 1 ROUTINE VALUE:
1095 U 1454 1 COMPLETION CODES:
1096 U 1455 1
1097 U 1456 1 ss$_normal
1098 U 1457 1
1099 U 1458 1 SIDE EFFECTS:
1100 U 1459 1
1101 U 1460 1 None
1102 U 1461 1
1103 U 1462 1 --
1104 U 1463 1
1105 U 1464 1 BEGIN
1106 U 1465 1
1107 U 1466 1 BUILTIN
1108 U 1467 1 AP;
1109 U 1468 1
1110 U 1469 1 MAP
1111 U 1470 1 AP : REF BLOCK [, BYTE];
1112 U 1471 1
1113 U 1472 1 SELECTONE .AP [tpa$l_param] OF
1114 U 1473 1 SET
1115 U 1474 1
1116 U 1475 1 [-2]:
1117 U 1476 1 BEGIN
1118 U 1477 1 : Don't display section numbers.
1119 U 1478 1
```

```
: 1120      U 1479 1
: 1121      U 1480 1
: 1122      U 1481 1
: 1123      U 1482 1
: 1124      U 1483 1
: 1125      U 1484 1
: 1126      U 1485 1
: 1127      U 1486 1
: 1128      U 1487 1
: 1129      U 1488 1
: 1130      U 1489 1
: 1131      U 1490 1
: 1132      U 1491 1
: 1133      U 1492 1
: 1134      U 1493 1
: 1135      U 1494 1
: 1136      U 1495 1
: 1137      U 1496 1
: 1138      U 1497 1
: 1139      U 1498 1
: 1140      U 1499 1
: 1141      U 1500 1
: 1142      U 1501 1
: 1143      U 1502 1
: 1144      U 1503 1
: 1145      U 1504 1
: 1146      U 1505 1
: 1147      U 1506 1
: 1148      U 1507 1
: 1149      U 1508 1
: 1150      U 1509 1
: 1151      U 1510 1
: 1152      U 1511 1
: 1153      U 1512 1
: 1154      U 1513 1
: 1155      U 1514 1
: 1156      U 1515 1
: 1157      U 1516 1 XFI

        !
        cmdblk [contents$v_include_sections] = false;
        cmdblk [contents$g_sections] = 0;
        END;

        [-1]:
        BEGIN
            |
            Display section numbers AS_INPUT.

        cmdblk [contents$v_include_sections] = true;
        cmdblk [contents$g_sections] = -1;
        END;

        [0]:
        BEGIN
            |
            User specified deepest level to display.

        cmdblk [contents$v_include_sections] = true;
        cmdblk [contents$g_sections] = .AP [tpa$l_number];
        END;

        [6]:
        BEGIN
            |
            Display ALL section numbers.

        cmdblk [contents$v_include_sections] = true;
        cmdblk [contents$g_sections] = 6;
        END;

        TES;

        RETURN ss$normal;
        END;
```

```
1159 L 1517 1 %IF DSRPLUS
1160 U 1518 1 %THEN
1161 U 1519 1
1162 U 1520 1 %SBTTL 'ENTER_DOT -- Action routine - enter leader dot character'
1163 U 1521 1 ROUTINE enter_dot =
1164 U 1522 1 ++
1165 U 1523 1
1166 U 1524 1 FUNCTIONAL DESCRIPTION:
1167 U 1525 1
1168 U 1526 1 This routine is called as an action routine by TPARSE.
1169 U 1527 1 This routine saves the leader dot character specified by the user.
1170 U 1528 1
1171 U 1529 1 FORMAL PARAMETERS:
1172 U 1530 1 AP [tpa$b_char] - leader dot character
1173 U 1531 1
1174 U 1532 1 IMPLICIT INPUTS:
1175 U 1533 1 None
1176 U 1534 1
1177 U 1535 1 IMPLICIT OUTPUTS:
1178 U 1536 1 cmdblk [contents$c_leader_char] - character is saved here
1179 U 1537 1
1180 U 1538 1 ROUTINE VALUE:
1181 U 1539 1 COMPLETION CODES:
1182 U 1540 1 ss$_normal
1183 U 1541 1
1184 U 1542 1 SIDE EFFECTS:
1185 U 1543 1
1186 U 1544 1 None
1187 U 1545 1
1188 U 1546 1
1189 U 1547 1
1190 U 1548 1
1191 U 1549 1
1192 U 1550 1 --
1193 U 1551 1
1194 U 1552 1 BEGIN
1195 U 1553 1
1196 U 1554 1 BUILTIN
1197 U 1555 1 AP;
1198 U 1556 1
1199 U 1557 1 MAP
1200 U 1558 1 AP : REF BLOCK [, BYTE];
1201 U 1559 1
1202 U 1560 1 CH$WCHAR (.AP [tpa$b_char], CH$PTR (cmdblk [contents$c_leader_char]));
1203 U 1561 1
1204 U 1562 1 RETURN ss$_normal;
1205 U 1563 1 END;
1206 U 1564 1
1207 U 1565 1 %FI
```

1209 L 1566 1 %IF DSRPLUS
1210 U 1567 1 %THEN
1211 U 1568 1
1212 U 1569 1 %SBTTL 'ENTER_HL_INDENT - Action routine - enter HL indent value'
1213 U 1570 1 ROUTINE enter_hl_indent =
1214 U 1571 1
1215 U 1572 1 FUNCTIONAL DESCRIPTION:
1216 U 1573 1
1217 U 1574 1 This routine is called as an action routine by TPARSE.
1218 U 1575 1
1219 U 1576 1 It assigns values for progressive indenting.
1220 U 1577 1
1221 U 1578 1 FORMAL PARAMETERS:
1222 U 1579 1
1223 U 1580 1 AP [tpa\$l_number] - value to set contents\$ag_hl_indent
1224 U 1581 1 AP [tpa\$l_param] - HL number (0 = CHAPTER, -1 = PROGRESSIVE)
1225 U 1582 1
1226 U 1583 1 IMPLICIT INPUTS:
1227 U 1584 1 None
1228 U 1585 1
1229 U 1586 1
1230 U 1587 1 IMPLICIT OUTPUTS:
1231 U 1588 1 None
1232 U 1589 1
1233 U 1590 1
1234 U 1591 1 ROUTINE VALUE:
1235 U 1592 1 COMPLETION CODES:
1236 U 1593 1 ss\$_normal
1237 U 1594 1
1238 U 1595 1
1239 U 1596 1 SIDE EFFECTS:
1240 U 1597 1 None
1241 U 1598 1
1242 U 1599 1
1243 U 1600 1 ---
1244 U 1601 1 BEGIN
1245 U 1602 1
1246 U 1603 1 BUILTIN
1247 U 1604 1 AP;
1248 U 1605 1
1249 U 1606 1 MAP
1250 U 1607 1 AP : REF BLOCK [, BYTE];
1251 U 1608 1
1252 U 1609 1 IF .AP [tpa\$l_param] EQL -1
1253 U 1610 1 THEN
1254 U 1611 1 BEGIN
1255 U 1612 1 /INDENT=PROGRESSIVE=n.
1256 U 1613 1 Set HL2 through HL6
1257 U 1614 1
1258 U 1615 1 INCR i FROM 2 TO 6 DO
1259 U 1616 1 indents [.i] = .AP [tpa\$l_number];
1260 U 1617 1
1261 U 1618 1 ELSE END
1262 U 1619 1
1263 U 1620 1 BEGIN
1264 U 1621 1 !
1265 U 1622 1

CNTVMS
V04-000

CNTVMS - CONTENTS VMS command Line Interface
ENTER_PAGE -- Action routine - enter page displ

B 5
15-Sep-1984 23:58:21
14-Sep-1984 13:05:43

VAX-11 Bliss-32 V4.0-742
[RUNOFF.SRC]CNTVMS.B32;1

Page 44
(10)

```
; 1266      U 1623 1      ! CHAPTER and HL1 through HL6
; 1267      U 1624 1
; 1268      U 1625 1      indents [.AP [tpa$L_param]] = .AP [tpa$L_number];
; 1269      U 1626 1      END;
; 1270      U 1627 1
; 1271      U 1628 1      RETURN ss$_normal;
; 1272      U 1629 1      END;
; 1273      U 1630 1
; 1274      1631 1 XFI
```

1276 1632 1 %SBTTL 'CONDITION_HANDLER - Main program condition handler - sets termination status'
1277 1633 1 ROUTINE condition_handler (sig : REF BLOCK [, BYTE], mch : REF BLOCK [, BYTE]) =
1278 1634 1 ++
1279 1635 1
1280 1636 1 FUNCTIONAL DESCRIPTION:
1281 1637 1
1282 1638 1 This routine is enabled by CNTCLI as a condition handler.
1283 1639 1 Whenever a signal is generated, the signal severity is examined.
1284 1640 1 If the condition is more severe than any previous condition,
1285 1641 1 (success, warning, error, severe error) the severity is recorded
1286 1642 1 in termination_status which is the condition severity. CNTCLI
1287 1643 1 returns the value of TERMINATION_STATUS as the program status
1288 1644 1 which will set the value of the DCL \$STATUS variable.
1289 1645 1
1290 1646 1 FORMAL PARAMETERS:
1291 1647 1
1292 1648 1 sig - address of signal array
1293 1649 1 mch - address of mechanism array
1294 1650 1
1295 1651 1 IMPLICIT INPUTS:
1296 1652 1
1297 1653 1 termination_status - current termination severity
1298 1654 1
1299 1655 1 IMPLICIT OUTPUTS:
1300 1656 1
1301 1657 1 termination_status - may be set to the severity level in the
1302 1658 1 signalled condition if it is more severe
1303 1659 1
1304 1660 1 ROUTINE VALUE:
1305 1661 1 COMPLETION CODES:
1306 1662 1
1307 1663 1 ss\$\$_resignal
1308 1664 1
1309 1665 1 SIDE EFFECTS:
1310 1666 1
1311 1667 1 None
1312 1668 1 --
1313 1669 2 BEGIN
1314 1670 2
1315 1671 2 BIND
1316 1672 2 signalled_condition = sig [chf\$1_sig_name] : BLOCK [, BYTE];
1317 1673 2
1318 1674 2 SELECTONE .signalled_condition [sts\$v_severity] OF
1319 1675 2 SFT
1320 1676 2
1321 1677 2 [sts\$k_warning]:
1322 1678 2 IF .termination_status EQL sts\$k_success
1323 1679 2 THEN
1324 1680 2
1325 1681 2 | A warning changes the termination status only if it was
1326 1682 2 | 'success' previously.
1327 1683 2
1328 1684 2 termination_status = sts\$k_warning;
1329 1685 2
1330 1686 2 [sts\$k_error]:
1331 1687 2 IF .termination_status LSS sts\$k_error
1332 1688 2 THEN

```

: 1333    1689 2
: 1334    1690 2
: 1335    1691 2
: 1336    1692 2
: 1337    1693 2
: 1338    1694 2
: 1339    1695 2
: 1340    1696 2
: 1341    1697 2
: 1342    1698 2
: 1343    1699 2
: 1344    1700 2
: 1345    1701 2
: 1346    1702 2
: 1347    1703 2
: 1348    1704 1

      | An error status changes the termination status only if it
      | was 'success' or 'warning' previously.

      | termination_status = sts$k_error;

      [sts$k_severe]:           ! Severe error
      termination_status = sts$k_severe;  ! set the termination status

      [OTHERWISE]:             ! Success or Informational
      ;                         ! Do nothing

      TES;

      RETURN ss$resignal;     ! Continue processing condition
      END;

```

0004 00000 CONDITION HANDLER:									
						WORD	Save R2		
50	04	52 00000000'	EF 9E 00002	MOVAB	TERMINATION_STATUS, R2			1633	
		AC 07	04 C1 00009	ADDL3	#4 SIG, R0			1672	
			60 93 0000E	BITB	(R0), #7			1677	
			09 12 00011	BNEQ	1\$				
		01	62 D1 00013	CMPL	TERMINATION_STATUS, #1			1678	
			1F 12 00016	BNEQ	3\$				
			62 D4 00018	CLRL	TERMINATION_STATUS			1684	
			1B 11 0001A	BRB	3\$			1678	
02	60	03	00 ED 0001C 1\$:	CMPZV	#0, #3, (R0), #2			1686	
			0A 12 00021	BNEQ	2\$				
		02	62 D1 00023	CMPL	TERMINATION_STATUS, #2			1687	
			0F 18 00026	BGEQ	3\$				
		62	02 D0 00028	MOVL	#2, TERMINATION_STATUS			1693	
			0A 11 0002B	BRB	3\$			1687	
04	60	03	00 ED 0002D 2\$:	CMPZV	#0, #3, (R0), #4			1695	
			03 12 00032	BNEQ	3\$				
		62	04 D0 00034	MOVL	#4, TERMINATION_STATUS			1696	
		50 0918	8F 3C 00037 3\$:	MOVZWL	#2328, R0			1703	
			04 0003C	RET				1704	

; Routine Size: 61 bytes, Routine Base: \$CODE\$ + 02A5

```
1350      1705 1 %SBTTL 'OPEN_ERROR - Handle File Open Errors'
1351      1706 1 GLOBAL ROUTINE open_error (function_code, primary_code, secondary_code, iob : REF $xpo_iob ()) =
1352      1707 1 ++
1353      1708 1
1354      1709 1     FUNCTIONAL DESCRIPTION:
1355      1710 1
1356      1711 1         This routine is called as an action routine to report
1357      1712 1         file open errors.
1358      1713 1
1359      1714 1     FORMAL PARAMETERS:
1360      1715 1
1361      1716 1         function_code    - XPORT failure action routine function code
1362      1717 1         primary_code    - primary failure completion code
1363      1718 1         secondary_code   - secondary failure completion code
1364      1719 1         iob            - Address of file IOB
1365      1720 1
1366      1721 1     IMPLICIT INPUTS:      None
1367      1722 1
1368      1723 1     IMPLICIT OUTPUTS:    None
1369      1724 1
1370      1725 1     ROUTINE VALUE:
1371      1726 1     COMPLETION CODES:
1372      1727 1
1373      1728 1         Returns the value of primary_code if success is indicated.
1374      1729 1
1375      1730 1     SIDE EFFECTS:
1376      1731 1
1377      1732 1         Signals a fatal error terminating program execution if failure
1378      1733 1         is indicated by primary_code.
1379      1734 1 --
1380      1735 1
1381      1736 2     BEGIN
1382      1737 2
1383      1738 2     BIND
1384      1739 2         file_spec = .iob [iob$sa_file_spec] : $str_descriptor (),
1385      1740 2         resultant = iob [iob$st_resultant] : $str_descriptor ();
1386      1741 2
1387      1742 2     LOCAL
1388      1743 2         file_name : REF $str_descriptor ();
1389      1744 2
1390      1745 2
1391      1746 2         Point to best file name.
1392      1747 2
1393      1748 2         file_name = (IF .resultant [str$h_length] NEQ 0 THEN resultant ELSE file_spec);
1394      1749 2
1395      1750 2     IF NOT .primary_code
1396      1751 2     THEN
1397      1752 3         BEGIN
1398      1753 3         File was not opened.
1399      1754 3
1400      1755 3
1401      1756 3         IF .iob [iob$v_input]
1402      1757 3         THEN
1403      1758 3             SIGNAL_STOP (contents$openin, 1, .file_name,
1404      1759 3             .iob [iob$g_comp_code], 1, .iob [iob$g_2nd_code])
1405      1760 3
1406      1761 3     ELSE
```

```

: 1407    1762 3      SIGNAL_STOP (contents$_.openout, 1, .file_name,
: 1408    1763 3          .iob [iob$g_comp_code], 1, .iob [iob$g_2nd_code]);
: 1409    1764 3
: 1410    1765 2      END;
: 1411    1766 2
: 1412    1767 2      RETURN .primary_code;
: 1413    1768 1      END;

```

				.ENTRY	OPEN_ERROR, Save nothing	: 1706	
	50	10	AC 0000 00000	MOVL	I0B, R0	: 1739	
		1C	A0 B5 00006	TSTW	28(R0)	: 1748	
			06 13 00009	BEQL	1\$		
	51	1C	A0 9E 0000B	MOVAB	28(R0), FILE_NAME		
			04 11 0000F	BRB	2\$		
	51	04	A0 D0 00011	MOVL	4(R0), FILE_NAME		
	35	08	AC E8 00015	BLBS	PRIMARY_CODE, 5\$: 1750	
	16	2E	A0 E9 00019	BLBC	46(R0), 3\$: 1756	
		00DC	C0 DD 0001D	PUSHL	220(R0)	: 1759	
			01 DD 00021	PUSHL	#1	: 1758	
		00D8	C0 DD 00023	PUSHL	216(R0)	: 1759	
			51 DD 00027	PUSHL	FILE_NAME	: 1758	
			01 DD 00029	PUSHL	#1		
		00000000G	8F DD 0002B	PUSHL	#DSRTOC\$_OPENIN		
			14 11 00031	BRB	4\$		
		00DC	C0 DD 00033	PUSHL	220(R0)	: 1763	
			01 DD 00037	PUSHL	#1	: 1762	
		00D8	C0 DD 00039	PUSHL	216(R0)	: 1763	
			51 DD 0003D	PUSHL	FILE_NAME	: 1762	
			01 DD 0003F	PUSHL	#1		
	00000000G	00	00000000G	8F DD 00041	PUSHL	#DSRTOC\$_OPENOUT	
		50	08	06 FB 00047	CALLS	#6, LIB\$STOP	
			AC DO 0004E	4\$: 5\$:	MOVL	PRIMARY_CODE, R0	: 1767
			04 00052	RET		: 1768	

: Routine Size: 83 bytes, Routine Base: \$CODE\$ + 02E2

```

: 1414    1769 1
: 1415    1770 1 END
: 1416    1771 0 ELUDOM

```

! End of module

.EXTRN LIB\$SIGNAL, LIB\$STOP

PSECT SUMMARY

Name	Bytes	Attributes
\$OWNS	16	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
-LIB\$KEYOS	6	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(1)
_LIB\$STATES	60	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(1)

CNTVMS
VO4-000

CNTVMS - CONTENTS VMS command Line Interface
OPEN_ERROR - Handle File Open Errors

G 5

15-Sep-1984 23:58:21
14-Sep-1984 13:05:43

VAX-11 Bliss-32 V4.0-742
[RUNOFF.SRC]CNTVMS.B32;1

Page 49
(12)

: LIB\$KEY1\$
: SPLITS
: \$CODE\$

25 NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(1)
308 NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
821 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]STARLET.L32:1	9776	22	0	581	00:01.1
-\$255\$DUA28:[SYSLIB]TPAMAC.L32:1	42	25	59	14	00:00.1
-\$255\$DUA28:[SYSLIB]XPORT.L32:1	590	130	22	252	00:00.6

COMMAND QUALIFIERS

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

: Size: 821 code + 415 data bytes
: Run Time: 00:39.3
: Elapsed Time: 01:34.5
: Lines/CPU Min: 2704
: Lexemes/CPU-Min: 52940
: Memory Used: 270 pages
: Compilation Complete

0338 AH-BT13A-SE
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION
CONFIDENTIAL AND PROPRIETARY

