


```

CCCCCCCC NN    NN  TTTTTTTTTT VV    VV  MM    MM  SSSSSSSS
CCCCCCCC NN    NN  TTTTTTTTTT VV    VV  MM    MM  SSSSSSSS
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  SSSSSS
CC        NN  NN  NN  TT          VV    VV  MM   MM  SSSSSS
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
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  SSSSSSSS
CCCCCCCC NN    NN  TT          VV    VV  MM   MM  SSSSSSSS

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LL        IIIIII  SSSSSSSS
LL        IIIIII  SSSSSSSS
LL        II      SS
LL        II      SS
LL        II      SS
LL        II      SS
LL        II      SSSSSS
LL        II      SSSSSS
LL        II      SS
LL        II      SS
LL        II      SS
LL        II      SS
LLLLLLLLLL IIIIII  SSSSSSSS
LLLLLLLLLL IIIIII  SSSSSSSS

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```

0001 0 %TITLE 'CNTVMS - CONTENTS VMS command Line Interface'
0002 0 MODULE cntvms (IDENT = 'V04-000',
0003 0 ADDRESSING_MODE (EXTERNAL = LONG_RELATIVE, NONEXTERNAL = LONG_RELATIVE)
0004 0 ) =
0005 1 BEGIN
0006 1
0007 1
0008 1 *****
0009 1 *
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0026 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL. *
0027 1 *
0028 1 *
0029 1 *****
0030 1
0031 1
0032 1 ++
0033 1 FACILITY:
0034 1 DSR (Digital Standard RUNOFF) /DSRPLUS DSRTOC/CONTENTS Utility
0035 1
0036 1 ABSTRACT:
0037 1 This module contains the command line interface for CONTENTS.
0038 1
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 CONTENTSSG_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  RER0002      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  RER0001      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  KFA0002      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 'SYSS$LIBRARY:STARLET';  
130 0128 1 !  
131 0129 1 LIBRARY 'SYSS$LIBRARY:TPAMAC'; ! TPARSE macros  
132 0130 1 !  
133 0131 1 LIBRARY 'SYSS$LIBRARY: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
R0138 1
R0139 1
R0140 1
R0141 1
R0142 1
R0143 1
R0144 1
R0145 1
R0146 1
R0147 1
R0148 1
R0149 1
R0150 1
R0151 1
R0152 1
R0153 1
R0154 1
R0155 1
R0156 1
R0157 1
R0158 1
R0159 1
R0160 1
R0161 1
R0162 1
R0163 1
R0164 1
R0165 1
R0166 1
R0167 1
R0168 1
R0169 1
R0170 1
R0171 1
R0172 1
R0173 1
R0174 1
R0175 1
R0176 1
R0177 1
R0178 1
R0179 1
R0180 1
R0181 1
R0182 1
R0183 1
R0184 1
R0185 1
R0186 1
R0187 1
R0188 1
R0189 1
R0190 1
R0191 1
R0192 1

Version: 'V04-000'

```

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```

```

**
FACILITY:
  DSR (Digital Standard RUNOFF) /DSRPLUS DSRTOC/CONTENTS Utility

ABSTRACT:
  CONTENTS Command Line Data Structure Definitions

ENVIRONMENT:  Transportable

AUTHOR:      JPK

CREATION DATE: April 1982

MODIFIED BY:

    005      JPK0007      14-Feb-1983
             Global edit of all sources for CONTENTS/DSRTOC:
             - module names are now consistant with file names
             - copyright dates have been updated
             - facility names have been updated
             - revision history was updated to be consistant with DSR/DSRPLUS

    004      JPK0002      10-Feb-1983
             Merged in change KFA00002 to modules CNTVMS, CNTCLIDMP and
             CNTCLI.REQ. This change was done without reserving and
             replacing the files in the CMS Library. This work involved
             replacing CONTENTSSG LM_INDENT, CONTENTSSG HL1_INDENT through
             CONTENTSSG HL6_INDENT and CONTENTSSG_HLN_INDENT with
             CONTENTSSG HL_INDENT.
             CONTENTSSV_TEX was removed - it was no longer needed.

```

R0193 1
R0194 1
R0195 1
R0196 1
R0197 1
R0198 1
R0199 1
R0200 1
R0201 1
R0202 1
R0203 1
R0204 1
R0205 1
R0206 1
R0207 1
R0208 1
R0209 1
R0210 1
R0211 1
R0212 1
R0213 1
R0214 1
R0215 1
R0216 1
R0217 1
R0218 1
R0219 1
R0220 1
R0221 1
R0222 1
R0223 1
R0224 1
R0225 1
R0226 1
R0227 1
R0228 1
R0229 1
R0230 1
R0231 1
R0232 1
R0233 1
R0234 1
R0235 1
R0236 1
R0237 1
R0238 1
R0239 1
R0240 1
R0241 1
R0242 1
R0243 1
R0244 1
R0245 1
R0246 1
R0247 1
R0248 1
R0249 1

```

Changed /TMS to /FORMAT={DSR : TMS}.
Added code for /DOUBLE_SPACE.

003 RER00002      20-Jan-1983
Modified CNTVMS and CNTCLI.REQ to add new fields for new and
expanded qualifiers:
CONTENTSSV_TEX - for tex output,
CONTENTSSG_DOUBLE_SPACE - for /DOUBLE_SPACE,
CONTENTSSG_HL2_INDENT through CONTENTSSG_HL6_INDENT for /INDENT.

002 KFA00002      14-Oct-1982
Modified CNTVMS, CONTENTS, CAPTION and CNTCLI.REQ to handle
new syntax for /INDENT qualifier. All indents are now
stored in the vector CMDBLK [CONTENTSSAG_HL_INDENT []],
where 0 = chapter indent, 1 = header level one indent, etc.

--

Contents command fields:
$field contents_cmd_fields =
SET

contents$v_options          = [$short_integer],      ! Command option indicators:
    $overlay (contents$v_options)
    contents$v_output       = [$bit],                ! Generate output file
    contents$v_tms11        = [$bit],                ! Generate TMS11 output
    contents$v_require      = [$bit],                ! Require file specified
    contents$v_standard_page = [$bit],                ! Use section type page numbers
    contents$v_include_sections = [$bit],            ! Include section numbers in entry
    contents$v_log          = [$bit],                ! Generate /LOG message

    $continue

contents$h_leader          = [$short_integer],      ! Align to next fullword
    $overlay (contents$h_leader)
    contents$c_leader_char = [$string(1)],          ! Leader dot character
    $continue

contents$g_headers        = [$integer],             ! Deepest header level to include
contents$g_page_level     = [$integer],             ! Deepest level to include page references
contents$g_underline      = [$integer],             ! Deepest level to include underlining
contents$g_bold           = [$integer],             ! Deepest level to include bolding
contents$g_sections       = [$integer],             ! Deepest level to include section numbers
contents$g_page_width     = [$integer],             ! Page width (for RUNOFF only)
contents$g_double_space   = [$integer],             ! Double space value
contents$ag_hl_indent     = [$sub_block (7)],       ! Left margin and HL 1-6 indents
contents$t_input_file     = [$descriptor(dynamic)], ! Input file name descriptor
contents$t_output_file    = [$descriptor(dynamic)], ! Output file name descriptor
contents$t_require_file   = [$descriptor(dynamic)], ! Require file name descriptor
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 Page 7
_S255\$DUA28:[RUNOFF.SRC]CNTCLI.REQ;1 (1)

CN
VO

```
.. R0250 1
.. R0251 1
.. R0252 1
.. R0253 1
.. R0254 1
.. R0255 1
.. R0256 1
.. R0257 1
.. R0258 1
.. R0259 1
.. R0260 1
.. R0261 1
.. R0262 1

      TES;
      ! End of contents_cmd_fields
      LITERAL
        contents_cmd$k_length = $field_set_size;
      MACRO
        $contents_cmd = BLOCK [contents_cmd$k_length] FIELD (contents_cmd_fields) %;
      !
      !-- End of CNTCLI.REQ
```

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
: 139

0263 1
0264 1 REQUIRE 'REQ:CNTVMSREQ'; ! VMS error messages

CN
VC

.....

R0265 1
R0266 1
R0267 1
R0268 1
R0269 1
R0270 1
R0271 1
R0272 1
R0273 1
R0274 1
R0275 1
R0276 1
R0277 1
R0278 1
R0279 1
R0280 1
R0281 1
R0282 1
R0283 1
R0284 1
R0285 1
R0286 1
R0287 1
R0288 1
R0289 1
R0290 1
R0291 1
R0292 1
R0293 1
R0294 1
R0295 1
R0296 1
R0297 1
R0298 1
R0299 1
R0300 1
R0301 1
R0302 1
R0303 1
R0304 1
R0305 1
R0306 1
R0307 1
R0308 1
R0309 1
R0310 1
R0311 1
R0312 1
R0313 1
R0314 1
R0315 1
R0316 1
R0317 1
R0318 1
R0319 1
R0320 1
R0321 1

Version: 'V04-000'

```

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**
FACILITY:
  DSR (Digital Standard RUNOFF) /DSRPLUS DSRTOC/CONTENTS Utility

```

```

ABSTRACT:
  This file contains external references to the error message numbers
  for DSRTOC/CONTENTS.

  New messages must be defined in CNTVMSMSG.MSG and referenced here:
  both in the MACRO section (for DSRTOC) and the EXTERNAL LITERAL
  section (for CONTENTS)

```

ENVIRONMENT: VAX/VMS User Mode

AUTHOR: JPK

CREATION DATE: February 1983

MODIFIED BY:

```

  002      JPK00009      24-Mar-1983
           Modified CNTT20 to support new command line syntax.
           Modified CONTENTS adding routines PROCESS_PAGE,
           PROCESS_ENTITY_INFO and PROCESS_ENTITY_TXT to remove
           code from routine TJC so that CONTENTS will compile on TOPS-20
           Modified CNTVMSREQ to remove conditional require of RNODEF.

```

REQUIRE 'REQ:RNODEF';

R0322 1
R0323 1
R0324 1
R0325 1
R0326 1
R0327 1
R0328 1
R0329 1
R0330 1
R0331 1
R0332 1
R0333 1
R0334 1
R0335 1
R0336 1
R0337 1
R0338 1
R0339 1
R0340 1
R0341 1
R0342 1
R0343 1
R0344 1
R0345 1
R0346 1
R0347 1
R0348 1
R0349 1
R0350 1
R0351 1
R0352 1
R0353 1
R0354 1
R0355 1
R0356 1
R0357 1
R0358 1
R0359 1
R0360 1
R0361 1
R0362 1
R0363 1
R0364 1
R0365 1
R0366 1
R0367 1
R0368 1
R0369 1
R0370 1
R0371 1
R0372 1
R0373 1
R0374 1
R0375 1
R0376 1
R0377 1
R0378 1

Version: 'V04-000'

```

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```

++
FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:
Converts BLISS/VARIANT values into useful names.

ENVIRONMENT: Transportable BLISS

AUTHOR: Rich Friday

CREATION DATE: 1978

MODIFIED BY:

- 016 KAD00016 Ray Marshall 19-Mar-1984
Added GERMAN, FRENCH, & ITALIAN.
- 015 KAD00015 Keith Dawson 18-Apr-1983
Made the LN01 conditional the default for vanilla DSR --
its value is 0 (no variant supplied).
- 014 KAD00014 Keith Dawson 22-Mar-1983
Asserted the LN01 conditional when DSRPLUS is asserted.
- 013 KAD00013 Keith Dawson 20-Mar-1983
Removed all references to .BIX and .BTC files.
- 012 KAD00012 Keith Dawson 07-Mar-1983
Global edit of all modules. Updated module names, idents,
copyright dates. Changed require files to BLISS library.

R0379 1
R0380 1
R0381 1
R0382 1
R0383 1
R0384 1
R0385 1
R0386 1
R0387 1
R0388 1
R0389 1
R0390 1
R0391 1
R0392 1
R0393 1
R0394 1
R0395 1
R0396 1
R0397 1
R0398 1
R0399 1
R0400 1
R0401 1
R0402 1
R0403 1
R0404 1
R0405 1
R0406 1
R0407 1
R0408 1
R0409 1
R0410 1
R0411 1
R0412 1
R0413 1
R0414 1
R0415 2
R0416 1
R0417 1
R0418 1
R0419 1
R0420 1
R0421 1
R0422 1
R0423 1
R0424 1
R0425 2
R0426 1
R0427 1
R0428 1
R0429 1
R0430 1
R0431 1
R0432 1
R0433 1
R0434 1
R0435 1

```
--
++
DEFINITION OF /VARIANT BITS
The bit assignments are as follows:
Bit Weight Meaning
-----
--      0      If no /VARIANT is supplied (as for vanilla DSR),
              compile with LN01 support. LN01 support is also
              implied by the DSRPLUS variant.
0        1      CLEAR = Unassigned
              SET   = Unassigned
1        2      CLEAR = Normal compile
              SET   = Compile for DSRPLUS
4-6     16      CLEAR = English (American) version
              SET   = 16 = German (Austrian)
                   32 = French
                   48 = Italian
--
-----
This variable (LN01) controls whether or not to compile an LN01-flavored
DSR. It is asserted by default, and also whenever DSRPLUS is asserted.
Modules utilizing LN01 are:
DOOPTS  NOUT
COMPILETIME
ln01 =
( (%VARIANT EQL 0) OR %VARIANT/2 )
;
-----
This variable (DSRPLUS) controls compilation for the DSRPLUS program.
All modules utilize DSRPLUS.
COMPILETIME
dsrplus =
( %VARIANT/2 )
;
-----
This variable (FLIP) controls compilation of FLIP features of DSRPLUS.
It assures that FLIP features are compiled only on VMS systems.
Modules utilizing FLIP are many and various.
COMPILETIME
flip =
```

: R0436 2
: R0437 1
: R0438 1
: R0439 1
: R0440 1
: R0441 1
: R0442 1
: R0443 1
: R0444 1
: R0445 1
: R0446 1
: R0447 1
: R0448 1
: R0449 1
: R0450 1
: R0451 1

```
( %VARIANT/2 AND %BLISS(BLISS32) )  
:  
-----  
4-6 16 CLEAR = English (American) version  
SET = 16 = German (Austrian)  
32 = French  
48 = Italian  
COMPILETIME  
German = ( %VARIANT/16 AND NOT %VARIANT/32 AND NOT %VARIANT/64 ) ;  
COMPILETIME  
French = ( NOT %VARIANT/16 AND %VARIANT/32 AND NOT %VARIANT/64 ) ;  
COMPILETIME  
Italian = ( %VARIANT/16 AND %VARIANT/32 AND NOT %VARIANT/64 ) ;  
-----  
End of RNODEF.REQ
```

```

R0452 1
LR0453 1 %IF NOT DSRPLUS
R0454 1 %THEN
R0455 1
R0456 1 MACRO
R0457 1 CONTENTS$ _BADVALUE = DSRTOC$ _BADVALUE % ,
R0458 1 CONTENTS$ _OPENIN = DSRTOC$ _OPENIN % ,
R0459 1 CONTENTS$ _OPENOUT = DSRTOC$ _OPENOUT % ,
R0460 1 CONTENTS$ _VALERR = DSRTOC$ _VALERR % ,
R0461 1 CONTENTS$ _CAPTIONS = DSRTOC$ _CAPTIONS % ,
R0462 1 CONTENTS$ _CLOSEQUOT = DSRTOC$ _CLOSEQUOT % ,
R0463 1 CONTENTS$ _CONFQUAL = DSRTOC$ _CONFQUAL % ,
R0464 1 CONTENTS$ _CTRLCHAR = DSRTOC$ _CTRLCHAR % ,
R0465 1 CONTENTS$ _EMPTYIN = DSRTOC$ _EMPTYIN % ,
R0466 1 CONTENTS$ _IGNORED = DSRTOC$ _IGNORED % ,
R0467 1 CONTENTS$ _INVINPUT = DSRTOC$ _INVINPUT % ,
R0468 1 CONTENTS$ _INVRECORD = DSRTOC$ _INVRECORD % ,
R0469 1 CONTENTS$ _OVERSTRK = DSRTOC$ _OVERSTRK % ,
R0470 1 CONTENTS$ _COMPLETE = DSRTOC$ _COMPLETE % ,
R0471 1 CONTENTS$ _CREATED = DSRTOC$ _CREATED % ,
R0472 1 CONTENTS$ _IGNORENEW = DSRTOC$ _IGNORENEW % ,
R0473 1 CONTENTS$ _IGNOREOLD = DSRTOC$ _IGNOREOLD % ,
R0474 1 CONTENTS$ _PROCFILE = DSRTOC$ _PROCFILE % ,
R0475 1 CONTENTS$ _TEXTD = DSRTOC$ _TEXTD % ,
R0476 1 CONTENTS$ _TMS11 = DSRTOC$ _TMS11 % ,
R0477 1 CONTENTS$ _IDENT = DSRTOC$ _IDENT % ;
R0478 1
R0479 1 %FI
R0480 1
R0481 1 EXTERNAL LITERAL
R0482 1 CONTENTS$ _BADVALUE, ! <'!AS' is an invalid keyword value>
R0483 1 CONTENTS$ _OPENIN, ! <error opening '!AS' for input>
R0484 1 CONTENTS$ _OPENOUT, ! <error opening '!AS' for output>
R0485 1 CONTENTS$ _VALERR, ! <specified value is out of legal range>
R0486 1 CONTENTS$ _CAPTIONS, ! <both ".HEADER x" and ".SEND TOC n" captions encountered>
R0487 1 CONTENTS$ _CLOSEQUOT, ! <the following line is missing a close quote>
R0488 1 CONTENTS$ _CONFQUAL, ! <conflicting qualifiers>
R0489 1 CONTENTS$ _CTRLCHAR, ! <the following line contains control characters - ignored>
R0490 1 CONTENTS$ _EMPTYIN, ! <empty input file '!AS'>
R0491 1 CONTENTS$ _IGNORED, ! <'!AS' ignored>
R0492 1 CONTENTS$ _INVINPUT, ! <invalid input file format in file '!AS'>
R0493 1 CONTENTS$ _INVRECORD, ! <invalid record type in file '!AS'>
R0494 1 CONTENTS$ _OVERSTRK, ! <the following line contains an overstrike sequence>
R0495 1 CONTENTS$ _COMPLETE, ! <processing complete '!AS'>
R0496 1 CONTENTS$ _CREATED, ! <'!AS' created>
R0497 1 CONTENTS$ _IGNORENEW, ! <".HEADER x" captions will be ignored>
R0498 1 CONTENTS$ _IGNOREOLD, ! <".SEND TOC n" captions will be ignored>
R0499 1 CONTENTS$ _PROCFILE, ! <processing file '!AS'>
R0500 1 CONTENTS$ _TEXTD, ! <!AD>
R0501 1 CONTENTS$ _TMS11, ! <output file full - continuing with file '!AS'>
R0502 1 CONTENTS$ _IDENT, ! <CONTENTS version !AD>
R0503 1

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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 0527 1 %FI
164 0528 1
165 0529 1 :
166 0530 1 : EQUATED SYMBOLS:
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 : OWN STORAGE:
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 : EXTERNAL REFERENCES:
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

```



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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), : Qualifier present?
203 0567 1 cli$get_value : ADDRESSING_MODE (GENERAL), : Get parameter value
204 0568 1 lib$parse : ADDRESSING_MODE (GENERAL), : TPARSE parser
205 0569 1 toc, : Entry point
206 0570 1 tocfin; : Cleanup routine
207 0571 1
208 0572 1 :+
209 0573 1 : TPARSE state tables
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, tpa$_exit) , qualifier_value),
218 P 0582 1 (tpa$_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, : : false),
230 P 0594 1 ('NORUNNING', page_end, enter_page, : : true),
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, . . true),
236 U 0600 1
237 P 0601 1 %FI
238 P 0602 1
239 P 0603 1 ('LEVEL')
240 0604 1 );
241 P 0605 1 $state (
242 P 0606 1 ('='),
243 P 0607 1 (':'),
244 0608 1 );
245 P 0609 1 $state (
246 P 0610 1 (tpa$_decimal, page_end, , qualifier_value)
247 0611 1 );
248 P 0612 1 $state (page_end,
249 P 0613 1 (tpa$_eos, tpa$_exit)
250 0614 1 );
251 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',          :      enter_format,      :      false),
261 U 0625 1     ('TMS1',      :      enter_format,      :      true)
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',      :      :      :      0),
273 U 0637 1     ('TITLES',      :      :      :      1),
274 U 0638 1     ('PROGRESSIVE', :      :      :      -1),
275 U 0639 1     ('HL1',      :      :      :      1),
276 U 0640 1     ('HL2',      :      :      :      2),
277 U 0641 1     ('HL3',      :      :      :      3),
278 U 0642 1     ('HL4',      :      :      :      4),
279 U 0643 1     ('HL5',      :      :      :      5),
280 U 0644 1     ('HL6',      :      :      :      6)
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 0558 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,      :      -1),
299 U 0663 1     ('ALL',      sect_end, enter_sect,      :      6),
300 U 0664 1     ('NONE',      sect_end, enter_sect,      :      -2),
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,      :      0)
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,      enter_dot),
.. 320      U 0684 1      (tpa$_eos,      tpa$_exit)
.. 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      U 0690 1 %FI
```

```

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 IMPLICIT INPUTS:
343 0706 1
344 0707 1     The VMS command line
345 0708 1
346 0709 1 IMPLICIT OUTPUTS:
347 0710 1
348 0711 1     cmdblk - The command line information block is initialized
349 0712 1
350 0713 1 ROUTINE VALUE:
351 0714 1 COMPLETION CODES:
352 0715 1
353 0716 1     termination_status      - Set by CONDITION_HANDLER ()
354 0717 1
355 0718 1 SIDE EFFECTS:
356 0719 1
357 0720 1     None
358 0721 1
359 0722 1 --
360 0723 1
361 0724 2 BEGIN
362 0725 2
363 0726 2 ENABLE
364 0727 2     condition_handler;
365 0728 2
366 0729 2 LOCAL
367 0730 2     status;
368 0731 2
369 0732 2 $str_desc_init (descriptor = cmdblk [contents$t_input_file], class = dynamic);
370 0733 2 $str_desc_init (descriptor = cmdblk [contents$t_output_file], class = dynamic);
371 0734 2 $str_desc_init (descriptor = cmdblk [contents$t_require_file], class = dynamic);
372 0735 2 $str_desc_init (descriptor = cmdblk [contents$t_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$t_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      :
389      0752      2      :
390      0753      2      :
391      0754      2      :
392      0755      2      :
393      0756      2      :
394      0757      2      :
395      0758      2      :
396      0759      2      :
397      0760      2      :
398      0761      2      :
399      0762      2      :
400      0763      2      :
401      0764      2      :
402      0765      2      :
403      0766      2      :
404      0767      2      :
405      0768      2      :
406      0769      2      :
407      0770      2      :
408      0771      2      :
409      0772      2      :
410      0773      2      :
411      0774      2      :
412      0775      2      :
413      0776      2      :
414      0777      2      :
415      0778      2      :
416      0779      2      :
417      0780      2      :
418      0781      2      :
419      0782      2      :
420      0783      2      :
421      0784      2      :
422      0785      2      :
423      0786      2      :
424      0787      2      :
425      0788      2      :
426      0789      2      :
427      0790      2      :
428      0791      2      :
429      0792      2      :
430      0793      2      :
431      0794      2      :
432      0795      2      :
433      0796      2      :
434      0797      2      :
435      0798      2      :
436      0799      2      :
437      0800      2      :
438      0801      2      :
439      0802      2      :
440      0803      2      :
441      0804      2      :

      * W A R N I N G *
      cmdblk [contents$V_tms11] = false;

%IF DSRPLUS
%THEN

      IF cli$present (%ASCII'FORMAT')
      THEN
      BEGIN
      cli$get_value (%ASCII'FORMAT', tmp_str);

      IF NOT call_tparse (tmp_str, format_state, format_key, false)
      THEN
      SIGNAL_STOP (contents$_badvalue, 1, tmp_str);

      END;

%FI

      /LINE_WIDTH = n
      * W A R N I N G *
      This qualifier must be processed after /FORMAT before any other
      qualifier. It depends on the value of /FORMAT and other qualifiers
      depend on the value of this qualifier.
      * W A R N I N G *
      qualifier_value = 70;

%IF DSRPLUS
%THEN

      IF .cmdblk [contents$V_tms11]
      THEN
      BEGIN
      :
      Generating TMS11 output.
      :
      IF cli$present (%ASCII'LINE_WIDTH')
      THEN
      SIGNAL (contents$_ignored, 1, %ASCII'LINE_WIDTH', contents$_confqual);

      qualifier_value = -1;
      END
      ELSE
      BEGIN

      IF cli$present (%ASCII'LINE_WIDTH')
      THEN
      BEGIN
      cli$get_value (%ASCII'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 %FI
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 2 BEGIN
474 U 0837 2 cli$get_value (%ASCID'DEEPEST_HEADER', tmp_str);
475 U 0838 2
476 U 0839 2 IF NOT call_tparse (tmp_str, numb_state, numb_key, false)
477 U 0840 2 THEN
478 U 0841 2 SIGNAL_STOP (contents$_badvalue, 1, tmp_str);
479 U 0842 2
480 U 0843 2 IF .qualifier_value GTR 6
481 U 0844 2 THEN
482 U 0845 2 SIGNAL_STOP (contents$_badvalue, 1, tmp_str, contents$_valerr);
483 U 0846 2
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

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

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556 U 0919      $str_copy (target = tmp_str,
557 U 0920      string = $str_concat ('CHAPTER=', $str_ascii (.indents [0])));
558 U 0921
559 U 0922      SIGNAL_STOP (contents$_badvalue, 1, tmp_str, contents$_valerr);
560 U 0923      END;
561 U 0924
562 U 0925      |
563 U 0926      | Validate HL1 indent.
564 U 0927      |
565 U 0928      total_indent = .total_indent + .indents [1];
566 U 0929
567 U 0930      IF .total_indent GEQ .cmdblk [contents$g_page_width]
568 U 0931      THEN
569 U 0932          BEGIN
570 U 0933              $str_copy (target = tmp_str,
571 U 0934              string = $str_concat ('HL1=', $str_ascii (.indents [1])));
572 U 0935
573 U 0936              SIGNAL_STOP (contents$_badvalue, 1, tmp_str, contents$_valerr);
574 U 0937              END;
575 U 0938
576 U 0939      |
577 U 0940      | Validate progressive indents
578 U 0941      |
579 U 0942      INCR i FROM 2 TO .cmdblk [contents$g_headers] DO
580 U 0943          BEGIN
581 U 0944              total_indent = .total_indent + .indents [.i];
582 U 0945
583 U 0946              IF .total_indent GEQ .cmdblk [contents$g_page_width]
584 U 0947              THEN
585 U 0948                  BEGIN
586 U 0949                      $str_copy (target = tmp_str,
587 U 0950                      string = $str_concat ('HL', $str_ascii (.i), '=',
588 U 0951                      $str_ascii (.indents [.i])));
589 U 0952
590 U 0953                      SIGNAL_STOP (contents$_badvalue, 1, tmp_str, contents$_valerr);
591 U 0954                      END;
592 U 0955
593 U 0956                  END;
594 U 0957          END;
595 U 0958      END;
596 U 0959
597 U 0960      %ELSE
598 U 0961
599 U 0962          indents [3] = 2;
600 U 0963          indents [4] = 2;
601 U 0964          indents [5] = 2;
602 U 0965          indents [6] = 2;
603 U 0966
604 U 0967      %FI
605 U 0968
606 U 0969      END;
607 U 0970
608 U 0971      |
609 U 0972      |/[NO]LEADER_DOTS = k
610 U 0973
611 U 0974      |
612 U 0975      |
        
```

* W A R N I N G *

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: This qualifier must be processed after /FORMAT.
: It depends on the value of /FORMAT.
:
: * W A R N I N G *
:
: CH$WCHAR (%C' ', CH$PTR (cmdblk [contents$c_leader_char]));
:
: %IF DSRPLUS
: %THEN
:
: IF .cmdblk [contents$v_tms11]
: THEN
: BEGIN
:     Generating TMS11 output.
:
:     SELECTONE cli$present (%ASCII'LEADER_DOTS') OF
:     SET
:     [cli$_present, cli$_negated]:
:         Value explicitly given or negated - ignored for TMS.
:         SIGNAL (contents$_ignored, 1, %ASCII'LEADER_DOTS', contents$_contqual);
:
:     [OTHERWISE]:
:         Value defaulted
:         or value absent (not possible, value is present by default).
:         In any event, do nothing.
:
:     TES;
:
: CH$WCHAR (%C' ', CH$PTR (cmdblk [contents$c_leader_char]));
: END
: ELSE
: BEGIN
:     SELECTONE cli$present (%ASCII'LEADER_DOTS') OF
:     SET
:     [cli$_present]:
:     BEGIN
:         Value explicitly given.
:
:         cli$get_value (%ASCII'LEADER_DOTS', tmp_str);
:
:         IF NOT call_tparse (tmp_str, dot_state, dot_key, true)
:         THEN
:             SIGNAL_STOP (contents$_badvalue, 1, tmp_str);
:
:     END;
:
: [cli$_negated]:

```

```

670      U 1033      |
671      U 1034      |      Value explicitly negated.
672      U 1035      |
673      U 1036      |      CH$WCHAR (%C' ', CH$PTR (cmdblk [contents$c_leader_char]));
674      U 1037      |
675      U 1038      |      [OTHERWISE]:
676      U 1039      |
677      U 1040      |      Value defaulted
678      U 1041      |      or qualifier absent (not possible - present by default).
679      U 1042      |      In any event, do nothing.
680      U 1043      |
681      U 1044      |
682      U 1045      |
683      U 1046      |      TES:
684      U 1047      |
685      U 1048      |      END:
686      U 1049      |
687      U 1050      |      %F1
688      U 1051      |
689      U 1052      |
690      U 1053      |      /PAGE_NUMBERS = ([NO]RUNNING), [STANDARD], [LEVEL = n])
691      U 1054      |
692      U 1055      |      NORUNNING is the same as STANDARD.
693      U 1056      |
694      U 1057      |      * W A R N I N G *
695      U 1058      |
696      U 1059      |      This qualifier must be processed after /FORMAT.
697      U 1060      |      It depends on the value of /FORMAT.
698      U 1061      |
699      U 1062      |      * W A R N I N G *
700      U 1063      |
701      U 1064      |      cmdblk [contents$standard_page] = true;
702      U 1065      |      qualifier_value = 6;
703      U 1066      |
704      U 1067      |      IF cli$present (%ASCID'PAGE_NUMBERS')
705      U 1068      |      THEN
706      U 1069      |      BEGIN
707      U 1070      |
708      U 1071      |      WHILE cli$get_value (%ASCID'PAGE_NUMBERS', tmp_str) DO
709      U 1072      |      IF NOT call_tparse (tmp_str, page_state, page_key, false)
710      U 1073      |      THEN
711      U 1074      |      SIGNAL_STOP (contents$_badvalue, 1, tmp_str);
712      U 1075      |
713      U 1076      |      IF .cmdblk [contents$tms11] and (.qualifier_value NEQ 6)
714      U 1077      |      THEN
715      U 1078      |      BEGIN
716      U 1079      |      |
717      U 1080      |      |      LEVEL = n not allowed for TMS11 output.
718      U 1081      |      |
719      U 1082      |      |      SIGNAL (contents$_ignored, 1, %ASCID'LEVEL', contents$_confqual);
720      U 1083      |      |
721      U 1084      |      |      qualifier_value = 6;
722      U 1085      |      |      END:
723      U 1086      |
724      U 1087      |      END:
725      U 1088      |
726      U 1089      |      cmdblk [contents$g_page_level] = .qualifier_value;

```

```

727 1090 2
728 1091 2
729 1092 2  / [NO]BOLD = n
730 1093 2
731 1094 2  qualifier_value = -1;
732 1095 2
733 1096 2  IF cli$present (%ASCII'DBOLD')
734 1097 2  THEN
735 1098 2
736 1099 2  %IF DSRPLUS
737 1100 2  %THEN
738 1101 2
739 1102 2  BEGIN
740 1103 2  qualifier_value = 6;
741 1104 2  cli$get_value (%ASCII'DBOLD', tmp_str);
742 1105 2
743 1106 2  IF NOT call_tparse (tmp_str, numb_state, numb_key, false)
744 1107 2  THEN
745 1108 2  SIGNAL_STOP (contents$_badvalue, 1, tmp_str);
746 1109 2
747 1110 2  END;
748 1111 2
749 1112 2  %ELSE
750 1113 2
751 1114 2  qualifier_value = 6;
752 1115 2
753 1116 2  %FI
754 1117 2
755 1118 2  cmdblk [contents$g_bold] = .qualifier_value;
756 1119 2
757 1120 2
758 1121 2  / [NO]DOUBLE_SPACE [=n]
759 1122 2
760 1123 2  qualifier_value = -1;
761 1124 2
762 1125 2  %IF DSRPLUS
763 1126 2  %THEN
764 1127 2
765 1128 2  IF cli$present (%ASCII'DOUBLE_SPACE')
766 1129 2  THEN
767 1130 2  BEGIN
768 1131 2  qualifier_value = 1;
769 1132 2  cli$get_value (%ASCII'DOUBLE_SPACE', tmp_str);
770 1133 2
771 1134 2  IF NOT call_tparse (tmp_str, numb_state, numb_key, false)
772 1135 2  THEN
773 1136 2  SIGNAL_STOP (contents$_badvalue, 1, tmp_str);
774 1137 2
775 1138 2  IF .qualifier_value LSS 1
776 1139 2  THEN
777 1140 2  SIGNAL_STOP (contents$_badvalue, 1, tmp_str, contents$_valerr);
778 1141 2
779 1142 2  END;
780 1143 2
781 1144 2  %FI
782 1145 2
783 1146 2  cmdblk [contents$g_double_space] = .qualifier_value;

```



```

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$_badvalue, 1, tmp_str);
844      U 1207      2
845      U 1208      2      END;
846      U 1209      2
847      U 1210      2      %ELSE
848      U 1211      2
849      U 1212      2      cmdblk [contents$_g_sections] = 6;          ! Display ALL section numbers
850      U 1213      2
851      U 1214      2      IF cli$present (%ASCII'SECTION_NUMBERS') EQL cli$_negated
852      U 1215      2      THEN
853      U 1216      2      BEGIN
854      U 1217      2      cmdblk [contents$_v_include_sections] = false;
855      U 1218      2      cmdblk [contents$_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      !
861      U 1224      2      !/[NO]UNDERLINE = n
862      U 1225      2      !
863      U 1226      2      qualifier_value = -1;
864      U 1227      2
865      U 1228      2      IF cli$present (%ASCII'UNDERLINE')
866      U 1229      2      THEN
867      U 1230      2
868      U 1231      2      %IF DSRPLUS
869      U 1232      2      %THEN
870      U 1233      2
871      U 1234      2      BEGIN
872      U 1235      2      qualifier_value = 6;
873      U 1236      2      cli$get_value (%ASCII'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$_valerr);
882      U 1245      2
883      U 1246      2      END;
884      U 1247      2
885      U 1248      2      %ELSE
886      U 1249      2
887      U 1250      2      qualifier_value = 6;
888      U 1251      2
889      U 1252      2      %FI
890      U 1253      2
891      U 1254      2      cmdblk [contents$_g_underline] = .qualifier_value;
892      U 1255      2
893      U 1256      2      !
894      U 1257      2      ! Process input file(s) and positional qualifiers.
895      U 1258      2      !
896      U 1259      2      WHILE (status = cli$get_value (%ASCII'INPUT', cmdblk [contents$_t_input_file])) DO
897      U 1260      2      BEGIN

```

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```
toc ();
! Process input file.

Generate Figures, Tables, and Examples and finish up if
the current input file is not concatenated to the next.

IF .status NEQ cli$_concat THEN tocfin ();
END;

RETURN (.termination_status OR sts$m_inhib_msg);
END;
```

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

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

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

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

```

01 00012 U.12: .WORD -27904
;TPAS$FLAGS2
00000000 00013 U.13: .BYTE 1
;TPAS$PARAM
00000000V 00017 U.14: .LONG 0
;TPAS$ACTION
0000* 00018 U.15: .LONG <<ENTER_PAGE-U.15>-4>
;TPAS$TARGET
9301 0001D U.17: .WORD <<U.16-U.17>-2>
;TPAS$TYPE
01 0001F U.21: .WORD -27903
;TPAS$FLAGS2
00000001 00020 U.22: .BYTE 1
;TPAS$PARAM
00000000V 00024 U.23: .LONG 1
;TPAS$ACTION
0000* 00028 U.24: .LONG <<ENTER_PAGE-U.24>-4>
;TPAS$TARGET
0502 0002A U.25: .WORD <<U.16-U.25>-2>
;TPAS$TYPE
003D 0002C U.29: .WORD 1282
;TPAS$TYPE
043A 0002E U.31: .WORD 61
;TPAS$TYPE
55F3 00030 U.32: .WORD 1082
;TPAS$TYPE
00000000* 00032 U.33: .WORD 22003
;TPAS$ADDR
0000* 00036 U.34: .LONG <<QUALIFIER_VALUE-U.34>-4>
;TPAS$TARGET
00038 U.35: .WORD <<U.16-U.35>-2>
;PAGE_END
15F7 00038 U.16: .BLKB 0
;TPAS$TYPE
FFFF 0003A U.36: .WORD 5623
;TPAS$TARGET
U.37: .WORD -1
;
.PSECT _LIB$KEY0$,NOWRT, SHR, PIC,1
0000 NUMB_KEY::
; .BLKB 0
0000 ;TPAS$KEY0
U.1: .BLKB 0
0000 PAGE_KEY::
; .BLKB 0
0000 ;TPAS$KEY0
U.8: .BLKB 0
0000* 0000 ;TPAS$KEY
U.10: .WORD <U.9-U.8>
0000* 00002 ;TPAS$KEY
U.19: .WORD <U.18-U.8>
0000* 00004 ;TPAS$KEY
U.27: .WORD <U.26-U.8>
;
.PSECT $PLITS$,NOWRT,NOEXE,2

```

```

00 00 00 45 4E 49 4C 24 00000 P.AAB: .ASCII \ $LINE\ <0><0><0>
010E0005 00008 P.AAA: .LONG 17694725
00000000' 0000C .ADDRESS P.AAB
00 52 45 44 41 45 48 5F 54 53 45 50 45 45 44 00010 P.AAD: .ASCII \ DEEPEST_HEADER\ <0><0>
00 00 0001F
010E000E 00020 P.AAC: .LONG 17694734
00000000' 00024 .ADDRESS P.AAD
00 52 45 44 41 45 48 5F 54 53 45 50 45 45 44 00028 P.AAF: .ASCII \ DEEPEST_HEADER\ <0><0>
00 00 00037
010E000E 00038 P.AAE: .LONG 17694734
00000000' 0003C .ADDRESS P.AAF
00 00 54 4E 45 44 4E 49 00040 P.AAH: .ASCII \ INDENT\ <0><0>
010E0006 00048 P.AAG: .LONG 17694726
00000000' 0004C .ADDRESS P.AAH
53 52 45 42 4D 55 4E 5F 45 47 41 50 00050 P.AAJ: .ASCII \ PAGE_NUMBERS\
010E000C 0005C P.AAI: .LONG 17694732
00000000' 00060 .ADDRESS P.AAJ
53 52 45 42 4D 55 4E 5F 45 47 41 50 00064 P.AAL: .ASCII \ PAGE_NUMBERS\
010E000C 00070 P.AAK: .LONG 17694732
00000000' 00074 .ADDRESS P.AAL
00 00 00 4C 45 56 45 4C 00078 P.AAN: .ASCII \ LEVEL\ <0><0><0>
010E0005 00080 P.AAM: .LONG 17694725
00000000' 00084 .ADDRESS P.AAN
44 4C 4F 42 00088 P.AAP: .ASCII \ BOLD\
010E0004 0008C P.AAO: .LONG 17694724
00000000' 00090 .ADDRESS P.AAP
00 4E 4F 49 54 41 43 49 46 49 54 4E 45 44 49 00094 P.AAR: .ASCII \ IDENTIFICATION\ <0><0>
00 000A3
010E000E 000A4 P.AAQ: .LONG 17694734
00000000' 000A8 .ADDRESS P.AAR
00 47 4F 4C 000AC P.AAT: .ASCII \ LOG\ <0>
010E0003 000B0 P.AAS: .LONG 17694723
00000000' 000B4 .ADDRESS P.AAT
00 00 54 55 50 54 55 4F 000B8 P.AAV: .ASCII \ OUTPUT\ <0><0>
010E0006 000C0 P.AAU: .LONG 17694726
00000000' 000C4 .ADDRESS P.AAV
00 00 54 55 50 54 55 4F 000C8 P.AAX: .ASCII \ OUTPUT\ <0><0>
010E0006 0C0D0 P.AAW: .LONG 17694726
00000000' 000D4 .ADDRESS P.AAX
00 45 52 49 55 51 45 52 000D8 P.AAZ: .ASCII \ REQUIRE\ <0>
010E0007 000E0 P.AAY: .LONG 17694727
00000000' 000E4 .ADDRESS P.AAZ
00 45 52 49 55 51 45 52 000E8 P.ABB: .ASCII \ REQUIRE\ <0>
010E0007 000F0 P.ABA: .LONG 17694727
00000000' 000F4 .ADDRESS P.ABB
53 52 45 42 4D 55 4E 5F 4E 4F 49 54 43 45 53 000F8 P.ABD: .ASCII \ SECTION_NUMBERS\ <0>
00 00107
010E000F 00108 P.ABC: .LONG 17694735
00000000' 0010C .ADDRESS P.ABD
00 00 00 45 4E 49 4C 52 45 44 4E 55 00110 P.ABF: .ASCII \ UNDERLINE\ <0><0><0>
010E0009 0011C P.ABE: .LONG 17694729
00000000' 00120 .ADDRESS P.ABF
00 00 00 54 55 50 4E 49 00124 P.ABH: .ASCII \ INPUT\ <0><0><0>
010E0005 0012C P.ABG: .LONG 17694725
00000000' 00130 .ADDRESS P.ABH

```

.PJECT \$OWNS,NOEXE,2

.....

.....

00000 QUALIFIER VALUE:

0000	00004	TMP_STR:	.BLKB	4
02 0E	00006		.WORD	0
00000000	00008		.BYTE	14, 2
00000001	0000C	TERMINATION STATUS:	.LONG	0
			.LONG	1

```
.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 CLIS$_PRESENT, CLIS$_GET_VALUE
.EXTRN LIB$_PARSE, TOC
.EXTRN TOCFIN
```

.PSECT \$CODE\$,NOWRT,2

OFFC 00000

```
.ENTRY CNTCLI, Save R2,R3,R4,R5,R6,R7,R8,R9,R10,- R11 ; 0692
MOVAB CALL_TPARSE, 1
MOVAB NUMB_KEY, R10
MOVAB LIB$STOP, R9
MOVL #DSRTOC$_BADV, R8
MOVAB CLIS$_GET_VALUE, R7
MOVAB CLIS$_PRESENT, R6
MOVAB P.AAA, R5
MOVAB QUALIFIER_VALUE, R4
MOVAB CMDBLK, R3
MOVAL 19$, (FP) ; 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
```

```
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
```

		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	D0	00081	MOVL	QUALIFIER_VALUE, CMDBLK+24		0820
	64	06	D0	00085	MOVL	#6, QUALIFIER_VALUE		0832
		18	A5	9F 00088	PUSHAB	P.AAC		0834
	66	01	FB	0008B	CALLS	#1, CLISPRESENT		
	38	50	E9	0008E	BLBC	RO, 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	9F 000A4	PUSHAB	TMP_STR		
	6B	04	FB	000A7	CALLS	#4, CALL_TPARSE		
	0A	50	E8	000AA	BLBS	RO, 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	CMPL	QUALIFIER_VALUE, #6		0843
		10	15	000BA	BLEQ	2\$		
	00000000G	8F	DD	000BC	PUSHL	#DSRTOCS_VALERR		0845
		04	A4	9F 000C2	PUSHAB	TMP_STR		
		01	DD	000C5	PUSHL	#1		
		58	DD	000C7	PUSHL	R8		
	69	04	FB	000C9	CALLS	#4, LIB\$STOP		
04	A3	64	D0	000CC	MOVL	QUALIFIER_VALUE, CMDBLK+4		0849
20	A3	08	D0	000D0	MOVL	#8, INDENTS		0862
24	A3	08	D0	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 00CE2	PUSHAB	P.AAG		0883
	66	01	FB	000E5	CALLS	#1, CLISPRESENT		
	10	50	E9	000E8	BLBC	RO, 3\$		
20	A3	02	D0	000EB	MOVL	#2, INDENTS+12		0962
20	A3	02	D0	000EF	MOVL	#2, INDENTS+16		0963
34	A3	02	D0	000F3	MOVL	#2, INDENTS+20		0964
38	A3	02	D0	000F7	MOVL	#2, INDENTS+24		0965
02	A3	2E	90	000FB	MOVB	#46, CMDBLK+2		0981
	63	08	88	000FF	BISB2	#8, CMDBLK		1064
	64	06	D0	00102	MOVL	#6, QUALIFIER_VALUE		1065
		54	A5	9F 00105	PUSHAB	P.AAI		1067
	66	01	FB	00108	CALLS	#1, CLISPRESENT		
	4F	50	E9	0010B	BLBC	RO, 6\$		
		04	A4	9F 0010E	PUSHAB	TMP_STR		1071
		68	A5	9F 00111	PUSHAB	P.AAK		
	67	02	FB	00114	CALLS	#2, CLISGET_VALUE		
	1F	50	E9	00117	BLBC	RO, 5\$		
		7E	D4	0011A	CLRL	-(SP)		1072
		5A	DD	0011C	PUSHL	R10		
	00000000'	EF	9F	0011E	PUSHAB	PAGE_STATE		
		04	A4	9F 00124	PUSHAB	TMP_STR		
	6B	04	FB	00127	CALLS	#4, CALL_TPARSE		

	E1		50	E8	0012A	BLBS	RO, 4\$		
		04	A4	9F	0012D	PUSHAB	TMP_STR		1074
			01	DD	00130	PUSHL	#1		
			58	DD	00132	PUSHL	R8		
	69		03	FB	00134	CALLS	#3, LIB\$STOP		
			D5	11	00137	BRB	4\$		1072
20	63		01	E1	00139	BBC	#1, CMDBLK, 6\$		1076
	06		64	D1	0013D	CMPL	QUALIFIER_VALUE, #6		
			1B	13	00140	BEQL	6\$		
		00000000G	8F	DD	00142	PUSHL	#DSRTOCS_CONFQUAL		1082
		78	A5	9F	00148	PUSHAB	P.AAM		
			01	DD	0014B	PUSHL	#1		
		00000000G	8F	DD	0014D	PUSHL	#DSRTOCS_IGNORED		
00000000G	00		04	FB	00153	CALLS	#4, LIB\$SIGNAL		
	64		06	DD	00154	MOVL	#6, QUALIFIER_VALUE		1084
08	A3		64	DD	0015D	MOVL	QUALIFIER_VALUE, CMDBLK+8		1089
	64		01	CE	00161	MNEGL	#1, QUALIFIER_VALUE		1094
		0084	C5	9F	00164	PUSHAB	P.AAO		1096
	66		01	FB	00168	CALLS	#1, CLISPRESNT		
	03		50	E9	0016B	BLBC	RO, 7\$		
	64		06	DD	0016E	MOVL	#6, QUALIFIER_VALUE		1114
10	A3		64	DD	00171	MOVL	QUALIFIER_VALUE, CMDBLK+16		1118
	64		01	CE	00175	MNEGL	#1, QUALIFIER_VALUE		1123
1C	A3		64	DD	00178	MOVL	QUALIFIER_VALUE, CMDBLK+28		1146
		009C	C5	9F	0017C	PUSHAB	P.AAQ		1151
	66		01	FB	00180	CALLS	#1, CLISPRESNT		
	1B		50	E9	00183	BLBC	RO, 8\$		
		00000000G	EF	DD	00186	PUSHL	CNTVRP		1153
		00000000G	EF	DD	0018C	PUSHL	CNTVRL		
			02	DD	00192	PUSHL	#2		
		00000000G	8F	DD	00194	PUSHL	#DSRTOCS_IDENT		
00000000G	00		04	FB	0019A	CALLS	#4, LIB\$SIGNAL		
		00A8	C5	9F	001A1	PUSHAB	P.AAS		1158
	66		01	FB	001A5	CALLS	#1, CLISPRESNT		
	05		50	E9	001A8	BLBC	RO, 9\$		
	63		20	88	001AB	BISB2	#32, CMDBLK		1160
			03	11	001AE	BRB	10\$		
	63		20	8A	001B0	BICB2	#32, CMDBLK		1162
		0088	C5	9F	001B3	PUSHAB	P.AAU		1167
	66		01	FB	001B7	CALLS	#1, CLISPRESNT		
	0F		50	E9	001BA	BLBC	RO, 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	BICB2	#1, CMDBLK		1174
		00D8	C5	9F	001CF	PUSHAB	P.AAY		1180
	66		01	FB	001D3	CALLS	#1, CLISPRESNT		
	0F		50	E9	001D6	BLBC	RO, 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	BICB2	#4, CMDBLK		1187
	63		10	88	001EB	BISB2	#16, CMDBLK		1192

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

; Routine Size: 609 bytes, Routine Base: \$CODE\$ + 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 tparse_block : BLOCK [tpa$k_length0, BYTE],
: 949 1311 2 status;
: 950 1312 2
: 951 1313 2
: 952 1314 2 | Initialize the TPARSE parameter block.
: 953 1315 2
: 954 1316 2 tparse_block [tpa$l_count] = tpa$k_count0;
: 955 1317 2 tparse_block [tpa$l_options] = tpa$m_abbrev;
: 956 1318 2 tparse_block [tpa$v_blanks] = .blanks;
: 957 1319 2 tparse_block [tpa$l_stringcnt] = .string [str$h_length];
: 958 1320 2 tparse_block [tpa$l_stringptr] = .string [str$a_pointer];
: 959 1321 2 tparse_block [tpa$l_tokencnt] = 0;
: 960 1322 2 tparse_block [tpa$l_tokenptr] = 0;
: 961 1323 2 tparse_block [tpa$l_number] = 0;
: 962 1324 2 tparse_block [tpa$l_param] = 0;
: 963 1325 2
: 964 1326 2
: 965 1327 2 | Parse the string and return parse status.
: 966 1328 2

```

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

						0000 00000	CALL_TPARSE:			
			5E			20 C2 00002	.WORD	Save nothing	:	1273
						08 DD 00005	SUBL2	#32, SP	:	
						02 D0 00007	PUSHL	#8	:	1316
04	AE	01	04	AE	10	AC F0 0000B	MOVL	#2, TPARSE_BLOCK+4	:	1317
				00	04	AC D0 00012	INSV	BLANKS, #0, #1, TPARSE_BLOCK+4	:	1318
				50		AC D0 00012	MOVL	STRING, R0	:	1319
			08	AE	04	60 3C 00016	MOVZWL	(R0), TPARSE_BLOCK+8	:	
			0C	AE	10	A0 D0 0001A	MOVL	4(R0), TPARSE_BLOCK+12	:	1320
					10	AE 7C 0001F	CLRQ	TPARSE_BLOCK+16	:	1321
					1C	AE 7C 00022	CLRQ	TPARSE_BLOCK+28	:	1323
			7E		08	AC 7D 00025	MOVQ	STATE TAB, -(SP)	:	1329
					08	AE 9F 00029	PUSHAB	TPARSE_BLOCK	:	
				00000000G	00	03 FB 0002C	CALLS	#3, LIB\$TPARSE	:	
						04 00033	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;

```

```

0000000G EF 01 03 20 AC F0 00002 .WORD Save nothing : 1332
01 D0 0000C INSV 32(AP), #3, #1, CMDBLK : 1371
04 0000F MOVL #1, R0 : 1373
RET : 1374

```

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

CNTVMS
V04-000

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

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

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

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CN


```

: 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
: 1035 U 1395 1 None
: 1036 U 1396 1
: 1037 U 1397 1 IMPLICIT OUTPUTS:
: 1038 U 1398 1
: 1039 U 1399 1 cmdblk [contents$V_tms11] ~ set to the value of AP [tpa$L_param]
: 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$_normal
: 1045 U 1405 1
: 1046 U 1406 1 SIDE EFFECTS:
: 1047 U 1407 1
: 1048 U 1408 1 None
: 1049 U 1409 1 --
: 1050 U 1410 1 BEGIN
: 1051 U 1411 1 BUILTIN
: 1052 U 1412 1 AP;
: 1053 U 1413 1
: 1054 U 1414 1 MAP
: 1055 U 1415 1 AP : REF BLOCK [, BYTE];
: 1056 U 1416 1
: 1057 U 1417 1 cmdblk [contents$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 %SBTTL '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 !
: 1119 U 1478 1 ! Don't display section numbers.

```

```

: 1120      U 1479 1      |
: 1121      U 1480 1      |      cmdblk [contents$v_include_sections] = false;
: 1122      U 1481 1      |      cmdblk [contents$g_sections] = 0;
: 1123      U 1482 1      |      END;
: 1124      U 1483 1      |
: 1125      U 1484 1      |      [-1]:
: 1126      U 1485 1      |      BEGIN
: 1127      U 1486 1      |      |
: 1128      U 1487 1      |      |      Display section numbers AS_INPUT.
: 1129      U 1488 1      |      |
: 1130      U 1489 1      |      |      cmdblk [contents$v_include_sections] = true;
: 1131      U 1490 1      |      |      cmdblk [contents$g_sections] = -1;
: 1132      U 1491 1      |      |      END;
: 1133      U 1492 1      |
: 1134      U 1493 1      |      [0]:
: 1135      U 1494 1      |      BEGIN
: 1136      U 1495 1      |      |
: 1137      U 1496 1      |      |      User specified deepest level to display.
: 1138      U 1497 1      |      |
: 1139      U 1498 1      |      |      cmdblk [contents$v_include_sections] = true;
: 1140      U 1499 1      |      |      cmdblk [contents$g_sections] = .AP [tpa$_number];
: 1141      U 1500 1      |      |      END;
: 1142      U 1501 1      |
: 1143      U 1502 1      |      [6]:
: 1144      U 1503 1      |      BEGIN
: 1145      U 1504 1      |      |
: 1146      U 1505 1      |      |      Display ALL section numbers.
: 1147      U 1506 1      |      |
: 1148      U 1507 1      |      |      cmdblk [contents$v_include_sections] = true;
: 1149      U 1508 1      |      |      cmdblk [contents$g_sections] = 6;
: 1150      U 1509 1      |      |      END;
: 1151      U 1510 1      |
: 1152      U 1511 1      |      TES;
: 1153      U 1512 1      |
: 1154      U 1513 1      |      RETURN ss$_normal;
: 1155      U 1514 1      |      END;
: 1156      U 1515 1      |
: 1157      U 1516 1      |      %FI

```

```

: 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
: 1173 U 1531 1 AP [tpa$b_char] - leader dot character
: 1174 U 1532 1
: 1175 U 1533 1 IMPLICIT INPUTS:
: 1176 U 1534 1
: 1177 U 1535 1 None
: 1178 U 1536 1
: 1179 U 1537 1 IMPLICIT OUTPUTS:
: 1180 U 1538 1
: 1181 U 1539 1 cmdblk [contents$c_leader_char] - character is saved here
: 1182 U 1540 1
: 1183 U 1541 1 ROUTINE VALUE:
: 1184 U 1542 1 COMPLETION CODES:
: 1185 U 1543 1
: 1186 U 1544 1 ss$normal
: 1187 U 1545 1
: 1188 U 1546 1 SIDE EFFECTS:
: 1189 U 1547 1
: 1190 U 1548 1 None
: 1191 U 1549 1
: 1192 U 1550 1 --
: 1193 U 1551 1
: 1194 U 1552 1 BEGIN
: 1195 U 1553 1
: 1196 U 1554 1 BUILTIN
: 1197 U 1555 1 AP:
: 1198 U 1556 1
: 1199 U 1557 1 MAP
: 1200 U 1558 1 AP : REF BLOCK [, BYTE];
: 1201 U 1559 1
: 1202 U 1560 1 CH$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 : 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$_number] - value to set contents$ag_hl_indent
: 1224 U 1581 1 AP [tpa$_param] - HL number (0 = CHAPTER, -1 = PROGRESSIVE)
: 1225 U 1582 1
: 1226 U 1583 1 IMPLICIT INPUTS:
: 1227 U 1584 1
: 1228 U 1585 1 None
: 1229 U 1586 1
: 1230 U 1587 1 IMPLICIT OUTPUTS:
: 1231 U 1588 1
: 1232 U 1589 1 None
: 1233 U 1590 1
: 1234 U 1591 1 ROUTINE VALUE:
: 1235 U 1592 1 COMPLETION CODES:
: 1236 U 1593 1
: 1237 U 1594 1 ss$_normal
: 1238 U 1595 1
: 1239 U 1596 1 SIDE EFFECTS:
: 1240 U 1597 1
: 1241 U 1598 1 None
: 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$_param] EQL -1
: 1253 U 1610 1 THEN
: 1254 U 1611 1 BEGIN
: 1255 U 1612 1
: 1256 U 1613 1 /INDENT=PROGRESSIVE=n.
: 1257 U 1614 1 Set HL2 through HL6
: 1258 U 1615 1
: 1259 U 1616 1 INCR i FROM 2 TO 6 DO
: 1260 U 1617 1 indents [.i] = .AP [tpa$_number];
: 1261 U 1618 1
: 1262 U 1619 1 END
: 1263 U 1620 1 ELSE
: 1264 U 1621 1 BEGIN
: 1265 U 1622 1 !

```

```
: 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      U 1631 1 %FI
```

.....

```

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$_sig_name] : BLOCK [, BYTE];
1317 1673 2
1318 1674 2 SELECTONE .signalled_cordition [sts$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

```



```

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 $xpo_iob ()) =
1352 1707 1 ++
1353 1708 1
1354 1709 1 FUNCTIONAL DESCRIPTION:
1355 1710 1
1356 1711 1     This routine is called as an action routine to report
1357 1712 1     file open errors.
1358 1713 1
1359 1714 1 FORMAL PARAMETERS:
1360 1715 1
1361 1716 1     function_code - XPORT failure action routine function code
1362 1717 1     primary_code  - primary failure completion code
1363 1718 1     secondary_code - secondary failure completion code
1364 1719 1     iob           - Address of file IOB
1365 1720 1
1366 1721 1 IMPLICIT INPUTS:      None
1367 1722 1
1368 1723 1 IMPLICIT OUTPUTS:    None
1369 1724 1
1370 1725 1 ROUTINE VALUE:
1371 1726 1 COMPLETION CODES:
1372 1727 1
1373 1728 1     Returns the value of primary_code if success is indicated.
1374 1729 1
1375 1730 1 SIDE EFFECTS:
1376 1731 1
1377 1732 1     Signals a fatal error terminating program execution if failure
1378 1733 1     is indicated by primary_code.
1379 1734 1 --
1380 1735 1
1381 1736 2 BEGIN
1382 1737 2
1383 1738 2 BIND
1384 1739 2     file_spec = .iob [iob$a_file_spec] : $str_descriptor (),
1385 1740 2     resultant = iob [iob$t_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 2     BEGIN
1398 1753 2     File was not opened.
1399 1754 2
1400 1755 2     IF .iob [iob$v_input]
1401 1756 2     THEN
1402 1757 2     SIGNAL_STOP (contents$openin, 1, .file_name,
1403 1758 2     .iob [iob$g_comp_code], 1, .iob [iob$g_2nd_code])
1404 1759 2
1405 1760 2 ELSE
1406 1761 2

```

```

: 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;

```

```

          0000 00000          .ENTRY OPEN_ERROR, Save nothing          : 1706
50      10  AC  D0 00002      MOVL  IOB,_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 1$:    MOVL  4(R0), FILE_NAME
35      08  AC  E8 00015 2$:    BLBS  PRIMARY_CODE, 5$
16      2E  A0  E9 00019      BLBC 46(R0), 3$
          00DC C0  DD 0001D      PUSHL 220(R0)
          01  DD 00021      PUSHL #1
          00D8 C0  DD 00023      PUSHL 216(R0)
          51  DD 00027      PUSHL FILE_NAME
          01  DD 00029      PUSHL #1
          00000000G 8F  DD 0002B      PUSHL #DSRTOCS_OPENIN
          14  11 00031      BRB   4$
          00DC C0  DD 00033 3$:    PUSHL 220(R0)
          01  DD 00037      PUSHL #1
          00D8 C0  DD 00039      PUSHL 216(R0)
          51  DD 0003D      PUSHL FILE_NAME
          01  DD 0003F      PUSHL #1
          00000000G 8F  DD 00041      PUSHL #DSRTOCS_OPENOUT
          00  06  FB 00047 4$:    CALLS #6, LIB$STOP
          50  08  AC  D0 0004E 5$:    MOVL  PRIMARY_CODE, R0
          04 00052      RET          : 1767
          : 1768

```

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

```

: 1414      1769  1
: 1415      1770  1 END          ! End of module
: 1416      1771  0 ELUDOM

```

.EXTRN LIB\$SIGNAL, LIB\$STOP

PSECT SUMMARY

Name	Bytes	Attributes
\$OUN\$	16	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
_LIB\$KEYO\$	6	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(1)
_LIB\$STAT\$	60	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(1)

```

: LIB$KEY1$      25 NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(1)
: $PLITS        308 NOVEC,NOWRT, RD , NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
: $CODE$       821 NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

```

Library Statistics

File	Symbols		Percent	Pages Mapped	Processing Time
	Total	Loaded			
_\$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=(ENH\$: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

```

