UOW SCRIPT - VERSION(3.2) 78JAN13

```
+--------------------------------------------------------------+
|                                                              |
|                       THE OUTPUT PAGE                        |
|                                                              |
+--------------------------------------------------------------+
```

The outer rectangle of *'s in the diagram below indicate the physical
dimensions of a sheet of paper.   The inner rectangle of *'s represents
the "text area" (that part of the physical page into which SCRIPT
formats the input text).

```
     ************************************************************
     *--.AD--->|-----------------.LL----------------->        *
     *         |                                              *
     *         |    ------------------------------------+     *
     *         |    |                                   |     *
     *         |    | .HS    (for Top Titles, if any)   |     *
     *      .TM|    |                                   |     *
     *         |    ------------------------------------+     *
     *         |    |                                         *
     *         |    | .HM                                     *
     *         |    |                                         *
     *         |    ****************************************  *
     *         |    *                                     *   *
     *         |    *                                     *   *
     *         |    *          The Text Area              *   *
     *         |    *                                     *   *
     *    .PL  |    *                                     *   *
     *         |    *--.IN--->                            *   *
     *         |    *         --.OF-->                    *   *
     *         |    *                                     *   *
     *         |    *                                     *   *
     *         |    *                                     *   *
     *         |    *                                     *   *
     *         |    ****************************************  *
     *         |    |                                         *
     *         |    | .FM                                     *
     *         |    |                                         *
     *         |    -------------------------------------+    *
     *      .BM|    |                                    |    *
     *         |    | .FS (for Bottom Titles, if any)    |    *
     *         |    |                                    |    *
     *         |    -------------------------------------+    *
     *         |                                              *
     ************************************************************
```

The default values for the control words shown above are as follows:

```
     .AD 0  (Adjust)            .IN 0   (Indent)
     .BM 6  (Bottom Margin)     .LL 60  (Line Length)
     .FM 1  (Footing Margin)    .OF 0   (Offset)
     .FS 1  (Footing Space)     .PL 66  (Page Length)
     .HM 1  (Heading Margin)    .TM 6   (Top Margin)
     .HS 1  (Heading Space)
```

```
┌─────────────────────────────────────────────────────────────────┐
│                                                                   │
│              CONTROL WORD SUMMARY, BY FUNCTION                     │
│                                                                   │
└─────────────────────────────────────────────────────────────────┘


    *   INDICATES CONTROL WORD CAUSES A BREAK

BACKSPACE

        BackSpace         .BS <char> <HJOIN|NOHJOIN>

BOXES

    *   BoX               .BX <<v1 <v2 ... >>|OFF|DELETE>

COMMENT

        CoMment           .CM <anything>
        Comment           .*  <anything>

CONDITIONAL FACILITIES

        Conditional       .CS n <<ON|OFF>|<INCLUDE|IGNORE>>
          Section
        IF                .IF opnd <operator> opnd <line>
        THen              .TH line
        ELse              .EL line
        DO                .DO <BEGIN|END>
        PErform           .PE <1|n|YES|NO|DELETE>

        see also .CC, .CP, .SK, .SP

CONTROL WORD OPERATIONS

        Control Word      .CW <;|char>
          separator
        Control word      .CR <oo <ww>>
          Replacement
        LIteral           .LI <1|n|ON|OFF|char|line>
        Null              .   <line>

EASYSCRIPT

        EasySCRIPT        .EZ <ON <lastDewey>>
                              <OFF           >
                              <tagval line   >

FILE PROCESSING

        APpend            .AP Filename <args>
        IMbed             .IM Filename <args>
        End of File       .EF <YES|NO>
        PUt workfile      .PU <1|n> <line>
    *   Quit Quickly      .QQ <YES|NO>
    *   QUit              .QU <YES|NO>

        GOto              .GO <ident|n|+n|-n>
        LaBel             .LB <ident|n> <line>
        LaBel             ... <ident|n> <line>

FLOATING TEXT BLOCKS

        Floating Block    .FB <BEGIN|END <0|m>>
                              <DUMP <n>>
        Floating Keep     .FK <BEGIN|END <0|m>>
                              <DUMP <n>>

FOOTNOTES

        FootNote          .FN <BEGIN|END>
                              <SET n>
                              <SET n /s1/s2/s3/>

FORMATTING

    *   BReak             .BR <line>
    *   CEnter            .CE <1|n|YES|NO|line>
    *   COncatenate       .CO <YES|NO>
    *   FOrmat            .FO <YES|NO|LEFT|RIGHT|CENTRE>
                              <INSIDE|OUTSIDE|HALF>
    *   JUstify           .JU <YES|NO|LEFT|RIGHT|CENTRE>
                              <INSIDE|OUTSIDE|HALF>
    *   Left Adjust       .LA <1|n|YES|NO|line>
    *   Out Justify       .OJ <1|n|YES|NO|line>
    *   Right Adjust      .RA <1|n|YES|NO|line>

FORMATTING ENVIRONMENT STATUS

        REstore status    .RE
        SAve status       .SA

HEADNOTES

        HeadNote          .HN <EVEN|ODD> <BEGIN|END>
                              <EVEN|ODD> <PURGE|DUMP>
```

```
HYPHENATION CONTROL

      HYphenation        .HY <ON|USER|OFF>
                             <SET THRESH <5|n|+n|-n>>
                             <SET MINPT <3|n|+n|-n>>
                             <SET ENDPT <3|n|+n|-n>>
                             <SET SUP   <3|n|+n|-n>>
                             <SUP>
                             <ADD|DELETE|CHANGE> word-with-breaks
                             <TEST word-without-breaks|DUMP|PURGE>
      Hyphenate Word     .HW text-line

INDEX

      IndeX              .IX <1|n> 'S1' <'S2' <'S3'>> <<.> <ref>>
                             <I|n> . <DUMP|PURGE>

LINE SPACING

   *  SKip               .SK <1|n> <A> <C>
   *  SPace              .SP <I|n> <A> <C>
   *  LiNe immediate     .LN <n|+n|-n>
   *  Single Space       .SS
   *  Double Space       .DS
   *  Line Spacing       .LS <0|n|+n|-n|YES|NO>
   *  Don't Count        .DC
      LEading space      .LE <YES|NO>

MACROS

      Define Macro       .DM name /line1/...linen</>
                             name <BEGIN|END>
                             name DELETE
      Macro              .MS <ON|OFF>
         Substitution

MARGIN MODIFICATION

   *  ADjust             .AD <EVEN|ODD> <0|n|+n|-n>
   *  Hanging Indent     .HI <0|n|+n|-n|YES|NO>
   *  INdent             .IN <0|m|+m|-m|*> <0|n|+n|-n|*>
   *  Indent Line        .IL <0|n|+n|-n>
   *  OFfset             .OF <0|n|+n|-n>
   *  Paragraph start    .PP <line>

MULTIPLE COLUMNS

      Balance Columns    .BC <ON|OFF>
   *  Column Begin       .CB
      Conditional        .CC <0|n|BEGIN|END <0|m>>
         Column
   *  Column             .CD <n <d1 <d2 ... d9>>>
         Definition
   *  Column Length      .CL <0|n|+n|-n>
   *  Multiple Column    .MC
   *  Single Column      .SC

OVERLAYING TEXT

      DArk output        .DA <1|n|+n|-n|YES|NO>
      Overlay            .OC <char|ON|OFf|n> <c1 ...>
         Character           char/<ON|OFF|n> <c1 ...>
      Output Overlay     .OO <1|n|ON <string>>
                             <OFF|DELETE>
      OVerlay on         .OV <1|n|ON <string>>
         input               <OFF|DELETE>

PAGE DIMENSIONS

   *  Line Length        .LL <60|n|+n|-n>
   *  Page Length        .PL <66|n|+n|-n>

   *  Top Margin         .TM <6|n|+n|-n>
   *  Heading Margin     .HM <I|n|+n|-n>
   *  Heading Space      .HS <I|n|+n|-n>

   *  Bottom Margin      .BM <6|n|+n|-n>
   *  Footing Margin     .FM <I|n|+n|-n>
   *  Footing Space      .FS <I|n|+n|-n>

PAGE NUMBERING

      Page Symbol        .PS <%|Character>
      Page Numbering     .PN <ON|OFF|ONOFF>
                             <ARABIC|ROMAN <LOWER|UPPER>>
                             <PREFIX|SUFFIX <string>>
                             <FRAC|NORM>

PAGE SPACING

   *  PAge eject         .PA <%+1|n|+n|-n <m|+m|-m>>
                             <YES|NO|ODD|EVEN>
      Conditional Page   .CP <0|n|BEGIN|END <0|m>>
      EMpty page         .EM <YES|NO|OFFNO>

PAGE TITLES

      Top Title          .TT <1|n> /S1/S2/S3/
      Even Title         .ET <I|n> /S1/S2/S3/
      Odd Title          .OT <I|n> /S1/S2/S3/

      Bottom Title       .BT <1|n> /S1/S2/S3/
      Even Bottom        .EB <I|n> /S1/S2/S3/
      Odd Bottom         .OB <I|n> /S1/S2/S3/
```

<u>REFERENCE VARIABLES</u>

```
    Read Variable     .RV symbol
    SEt reference     .SE symbol=<'string'|expression>
    Set Reference     .SR symbol <'string'|expression>
    SUbstitute        .SU <1|n|ON|OFF|line>
       reference         <UPPER|NOUPPER>
                         <TRACEON|TRACEOFF>
    Use Reference     .UR line
```

<u>REMOTES</u>

```
    ReMote            .RM <*|n|name <m|SAVE|NOSAVE> <SAVE|NOSAVE>>
                         <*|n|name DELETE>
                         <DELETE>
    SIgnal remote     .SI <*|n|name> <args>
```

<u>REVISION CODES</u>

```
    Revision Code     .RC n <ON|OFF|ON/OFF>
                         n <char|SET string>
```

<u>SYSTEM COMMUNICATION</u>

```
    SYstem            .SY line
```

<u>TABS</u>

```
  * TaB               .TB <n1 n2 n3 ...>
                         <<'string'|char/>n<L|R|C|'char'> ...>
                         <SET <char>>
```

<u>TABLES OF CONTENTS</u>

```
    Define Heading    .DH <SET m> n <<SKBF n> <SPAF n>
                                       <TCOF n> <TCIN n>
                                       <BR|NBR> <OJ|NOJ>
                                       <PA|NPA> <TC|NTC>
                                       <TO|NTO> <TS|NTS>
                                       <UP|NUP> <US|NUS>>
  * Heading Level     .HL <0|n> line
  *     or            .Hn line
    Put Table of      .PT <line>
       contents
  * Table of          .TC <1|n|* <CONTENTS|line>>
       Contents          <ADD <m ... >>
                         <PURGE>
```

<u>TERMINAL INPUT AND OUTPUT</u>

```
    ERror             .ER <n|*> <line>
    ReaD terminal     .RD <1|n>
    TErminal input    .TE <1|n>
    TYpe on terminal  .TY <information>
```

<u>TRANSLATION OF CHARACTERS</u>

```
    Translate on      .TI <s <s|t>>
       Input             <<s1 t1> <s2 t2> ...>
                         <SET <char>>
    TRanslate         .TR <s <s|t>>
       on output         <<s1 t1> <s2 t2> ...>
```

<u>UNDERSCORING AND UPPERCASE</u>

```
    Underscore and    .UC <line>
       Capitalize
    Underscore        .UD <<ON|OFF> <char1 ... >>
       Definition        <SET|INCLUDE|IGNORE <char>>
    UPpercase         .UP <line>
    UnderScore        .US <line>
```

<u>WIDOW CONTROL</u>

```
    WiDow             .WD <YES|NO>
```

+---+
| |
| OPTIONS SUMMARY |
| |
+---+

Capital letters indicate minimum shortforms.   Underscores indicate
default values.

COntinue / NOCOntinue / COntinue=<0|n>
   Specifies the number of errors which are to be allowed before
   processing is terminated. The value of "n" may range from 0 to 32767;
   NOCO is the same as CO=0, and CO is the same as CO=32767.

FIle / NOFIle
   When used in combination with the TERMINAL option, this causes output
   to be written to the usual offline file but in a format suitable for
   an online terminal.

FNSize=<200|n>
   Specifies the maximum number of output lines (from 1 to 32767) that
   may be outstanding in a Keep or Footnote at any one time.

HSFSover=<9|n>
  Specifies the maximum number of top and bottom titles that may be
  defined. See the .TT control word for a description of how these
  titles are shared. The numeric operand may range from 2 to 19.

LINenumber=<0|n> / LEGalnumber=<0|n>
  LIN= causes the current output line number within the page to be
  displayed if the output line is non-blank and that portion of the
  output line starting at column "n" (ranging from 1 to 125) is
  otherwise blank. LEG= numbers only non-blank lines in the text area.
  LIN= and LEG= are mutually exclusive.

MArk / NOMArk
  Marks the beginning of each line of the original input by underscoring
  the first character of each record.

NUmber / NONUmber / NUmber=<0|n>
  Displays the number of the record in the input file being processed
  when the current output line was printed. The value of "n" (from 1 to
  100) defines the starting column in the output line where this
  information is to appear, if those columns would otherwise be blank.
  NONU is the same as NU=0. NU is the same as NU=1 with an ADjust of
  30.

PAge=<1|m<:n>>
  Input is processed but output is not produced until the start of page
  "m". If a second number "n" is specified, processing and output will
  terminate after page "n" has been produced.

PASses=<1|n>
  Causes SCRIPT to make "n-1" complete passes through the input file,
  performing all indicated formatting but not producing any output. A
  last pass is then made, during which output is produced. The value of
  "n" may range from 1 to 10.

PRinter or OFfline
  Causes the output to be edited and formatted for the off-line printer.

PROFile / NOPROFile
  Causes an imbed (.IM) of a file called PROFILE automatically at the
  start of each pass.

QUiet / NOQUiet
  If TErminal is in effect, QUiet causes the SCRIPT version
  identification line to be suppressed.

RMSize=<200|n>
  Specifies the maximum number of input records (from 1 to 32767) that
  may be included in any single remote (see .RM) definition.

SCREen / NOSCREen
  Specifies that the output device is a SCREEN or CRT device. It is
  effective only for TErminal output. SCREEN is set as the default if
  the output device is known to be a CRT. The effect is to print
  overstruck output on one or more consecutive lines instead of using
  "backspace and underscore".

SIX / EIGHT
  The SIX option defines the initial Page Length for six lines per inch
  on an eleven inch page and line three set to the first normal print
  line on the page. The EIGHT option defines the initial Page Length
  for eight lines per inch on an eleven inch page and line four set to
  the first normal print line on the page.

STop / NOSTop
  Causes a pause at the bottom of each page when producing online
  output. This pause allows the user to insert the next page. The
  pause is terminated by a carriage return.

TABLeft=<0|1>
  Controls the operation of a Left Tab. A "0" value makes Left Tabs
  work like a typewriter, with the character following a tab being
  placed in the column specified. A "1" value makes the character
  following a Left Tab go immediately after the column specified. See
  the Tab control word (.TB).

TErminal or ONline
  Causes output lines to be formatted for an online terminal. This
  option is mutually exclusive of the PRinter option.

WAit / NOwait
  Causes output to begin immediately without waiting for the first page
  to be positioned by the user. This option has no effect when
  producing off-line output.

&name=string OR +name=string
  At the beginning of the first pass, a ".SR name=string;" control line
  will be executed for each such option in the options list. See the
  ".SR" control word for operand format rules. This is useful for
  setting switch values externally to the SCRIPT input.

The following options maybe used to set initial and default values for
the corresponding control words:

Parameter	Minimum	Maximum
ADjust=<0|n>	0	50
BMargin=<6|n>	0	33
DArk=<1|n>	1	10
FMargin=<1|n>	0	33
HMargin=<1|n>	0	33
LLength=<60|n>	10	144
PLength=<66|n>	10	176
TMargin=<6|n>	0	33

SUMMARY OF SYSTEM REFERENCE VARIABLES AND REMOTES

All System Reference Variables begin with 'SYS' or '$',   so that
"SYSDATE" and "$DATE" return the same value.

DATE AND TIME

SYSDATE   The current month, day, and year.   SYSDATE now has the value
            'July 3, 2012'.

SYSTIME   The current time, in hours, minutes, and seconds.   SYSTIME
            now has the value '11:26:41'.

OUTPUT

SYSLINE   The current output line number on the page now being
            formatted. SYSLINE now has the value 39.

SYSPAGE   The current integer page number of the page now being
            formatted.   This could be used instead of the Page Number
            Escape symbol in SET REFERENCE control statements.   The
            current value of SYSPAGE is 6.

SYSPPAGE   The current page number as it appears in a Title line.   This
            might be in Roman, Arabic or Arabic with a Decimal portion
            format. The current value of SYSPPAGE is 6.

CURRENT VALUE OF CONTROL WORDS

SYSAD	Current Adjust Value.	SYSAD=1
SYSADEVEN	Current Even Page Adjust Value.	SYSADEVEN=0
SYSADODD	Current Odd Page Adjust Value.	SYSADODD=0
SYSBC	Balance Column Switch.	SYSBC=Y
SYSBM	Current Bottom Margin.	SYSBM=27
SYSBS	Current User Backspace Character	SYSBS=
SYSBX	Box in progress Switch.	SYSBX=N
SYSCC	Conditional Column Switch.	SYSCC=N
SYSCCC	Buffered Conditional Column Lines.	SYSCCC=0
SYSCD	Current Column Definition Count.	SYSCD=0
SYSCL	Current Column Length.	SYSCL=0
SYSCP	Conditional Keep Switch.	SYSCP=N
SYSCPC	Buffered Conditional Page Lines.	SYSCPC=0
SYSDA	Current Dark Output Value.	SYSDA=1
SYSDHSET	Current Table of Contents number	SYSDHSET=0
SYSFB	Floating Block Switch.	SYSFB=N
SYSFBC	Total Floating Block Lines.	SYSFBC=0
SYSFBF	First Floating Block Lines.	SYSFBF=0
SYSFK	Floating Keep Switch.	SYSFK=N
SYSFKC	Buffered Floating Keep Lines.	SYSFKC=0
SYSFM	Current Footing Margin.	SYSFM=1
SYSFN	Current Footnote Switch.	SYSFN=N
SYSFNC	Current Buffered Footnote Lines.	SYSFNC=0
SYSFNCOUNT	Count of Footnotes.	SYSFNCOUNT=1
SYSFS	Current Footing Space.	SYSFS=1
SYSHI	Current Hanging Indent Value.	SYSHI=0
SYSHM	Current Heading Margin.	SYSHM=0
SYSHN	Current Headnote Switch.	SYSHN=N
SYSHNC	Buffered Headnote Lines.	SYSHNC=0
SYSHS	Current Heading Space.	SYSHS=0
SYSHY	Current Hyphenation Mode.	SYSHY=USER
SYSHYC	Exception Dictionary word count.	SYSHYC=0
SYSIN	Current Indent Value.	SYSIN=0
SYSINR	Current Right Indent Value.	SYSINR=0
SYSLL	Current Line Length.	SYSLL=72
SYSLS	Current Line Spacing.	SYSLS=0
SYSMC	Multiple Column Mode Switch.	SYSMC=N
SYSPI	Current Paragraph Indent Value.	SYSPI=0
SYSPL	Current Page Length.	SYSPL=132
SYSSC	Single Column Switch.	SYSSC=N
SYSTM	Current Top Margin.	SYSTM=1
SYSWD	Current Widow Switch.	SYSWD=Y

OPTIONS

SYSPASSNO   The current pass number on the input.   The current value of
            SYSPASSNO is 2.

SYSPASSOF   The total number of passes to be made on the input files to
            produce one output file.   This value is set by PASSES= at
            invocation. The current value of SYSPASSOF is 2.

```
SYSOUT      Returns 'TERM' if  output is online and 'PRINT'  if output is
            offline.  The current value of SYSOUT is 'PRINT'.
```

SPECIAL REMOTES

```
SYSBLANK is  signalled  with  no  operands if  a  blank  input  line  is
            encountered.   If this REMOTE does not  exist,  then a ".SK" is
            substituted.

SYSIX0   is signalled during the printing of an Index whenever the first
            letter of the first-level index entry changes,  with that first
            letter as the value of reference variable "1".

SYSIX1   is signalled before each first-level index entry is printed.

SYSIX2   is signalled before each second-level index entry is printed.

SYSIX3   is signalled before each third-level index entry is printed.

SYSBM    is signalled before printing the Bottom Margin area.

SYSBOT   is signalled after printing the Bottom Margin area.

SYSTM    is signalled after printing the Top Margin area.

SYSTOP   is signalled before printing the Top Margin area.
```

```
┌─────────────────────────────────────────────────────────────────────┐
│                                                                       │
│           CONTROL WORD SUMMARY, IN ALPHABETICAL ORDER                 │
│                                                                       │
└─────────────────────────────────────────────────────────────────────┘
```

```
.    <line>
     The line operand of  the NULL control word will be  treated as input,
     either text or control word.

...  <ident|n> <line>
     An alternate form  of the LABEL control word  specifies an identifier
     that is to be associated with the current input record.

.AD <EVEN|ODD> <0|n|+n|-n>                                              *
     The ADJUST control word causes all output to be moved to the right of
     the physical left print margin.

.AP Filename <args>
     The APPEND control  word allows an additional file to  be appended to
     the file just printed.

.BC <ON|OFF>
     The BALANCE COLUMNS control word enables or disables column balancing
     for multiple column output.

.BM <6|n|+n|-n>                                                        *
     The BOTTOM  MARGIN control word specifies  the number of  lines which
     are to appear between the bottom of the output page and the last line
     of ordinary or footnote text.

.BR <line>                                                             *
     BREAK  causes the  immediately  previous line  to  be output  without
     filling in with words from the next line.

.BS <char> <HJOIN|NOHJOIN>
     The  BACKSPACE  control  word  specifies  the  input character  to  be
     treated as a logical backspace and a hex join character.

.BT <1|n> </S1/S2/S3/>
     The BOTTOM TITLE control word is used  to define three items of title
     information to  be printed  at the  bottom of  even and  odd numbered
     pages.

.BX <<v1 <v2 ...>>|OFF|DELETE>                                         *
     The BOX control  word creates the horizontal lines  and initiates the
     vertical rules that will surround user text.

.CB                                                                    *
     The COLUMN BEGIN control word causes  subsequent text to begin at the
     top of a new column.

.CC <0|n|BEGIN|END <0|m>>
     The CONDITIONAL COLUMN control word causes a column begin to occur if
     insufficient lines remain in the current column for text.

.CD <n <d1 <d2 ... d9>>>                                               *
     The COLUMN DEFINITION control word defines how many columns of output
     are to be formatted on each page and where each column is to start.

.CE <1|n|YES|NO|line>                                                  *
     The  line(s)  following  the  CENTER control  word  will be  centered
     between the margins.

.CL <0|n|+n|-n>                                                        *
     The COLUMN  LENGTH control  word defines the  width in  characters of
     each column in multiple column mode.

.CM <anything>
     The COMMENT control word is ignored and may be used to enter comments
     into a script file.
```

```
.CO <YES|NO>                                                            *
    CONCATENATE cancels a previous NO CONCATENATE control word and causes
    the  output lines  to  be formed  by  concatenating  input lines  and
    truncating at the  nearest word boundary to fit  within the specified
    line length.

.CP <0|n|BEGIN|END <0|m>>
    The CONDITIONAL  PAGE control word  causes a  page eject to  occur if
    insufficient lines remain on the current page for text.

.CR <oo <ww>>
    The CONTROL WORD REPLACEMENT word is  used to change the control word
    that identifies a SCRIPT function,  to delete a SCRIPT function or to
    reset the set of SCRIPT control words.

.CS <n> <<ON|OFF>|<INCLUDE|IGNORE>>
    The CONDITIONAL SECTION control word causes only selected portions of
    the total document to be printed by associating a conditional section
    code with selected portions of the document.

.CW <;|character>
    The CONTROL WORD SEPARATOR control word defines the delimiter between
    control commands so that multiple controls and text may be entered on
    one line.

.DA <1|n|+n|-n|YES|NO>
    The  DARK OUTPUT  control word  specifies  the number  of times  that
    Offline Output is to be overstruck.

.DC                                                                     *
    The DON'T COUNT  control word causes all output  produced directly by
    the immediately following text line to not be counted for purposes of
    page length control.

.DH <SET m> n <<SKBF n> <SPAF n> <TCOF n> <TCIN n>
                 <BR|NBR> <OJ|NOJ> <PA|NPA> <TC|NTC>
                 <TO|NTO> <TS|NTS> <UP|NUP> <US|NUS>>
    The DEFINE HEADING control word defines the formatting conditions for
    the various heading levels in the Tables of Contents.

.DM name /line1/.../linen</>
     name <BEGIN|END>
     name DELETE
    The DEFINE MACRO control word defines a sequence of input lines to be
    invoked by "name" as a user-defined control word or as a .SI operand.

.DO <BEGIN|END>
    The DO control word may be used following a THEN or ELSE control word
    to allow multiple input lines to be conditionally included.

.DS                                                                     *
    The DOUBLE  SPACE control word  causes a  line to be  skipped between
    lines of output except in footnotes.

.EB <1|n> </S1/S2/S3/>
    The EVEN BOTTOM control  word is used to define three  items of title
    information to be printed at the bottom of even-numbered pages.

.EF <YES|NO>
    The END  OF FILE  control word  causes immediate  termination of  the
    current input  file and resumption of  the next higher level  file if
    any, or termination of processing if none.

.EL line
    The  ELSE control  word  causes an  input  line  to be  conditionally
    included depending on the truth value of a previous IF control word.

.EM <YES|NO|OFFNO>
    The EMPTY PAGE  control word is used to control  suppression of empty
    (except for headings and footings) pages.

.ER <n|*> <line>
    The ERROR control word sets a  program return code and/or displays an
    error message on the Error file.

.ET <1|n> </S1/S2/S3/>
    The EVEN TITLE  control word is used  to define three headings  to be
    printed at the top of even numbered pages.

.EZ <ON <lastDewey>>
    <OFF          >
    <tagval line  >
    The EasySCRIPT control word is used  to initiate and provide input to
    the EasySCRIPT macro processor

.FB <BEGIN|END <0|m>>
    <DUMP <n>>
    The FLOATING BLOCK control  word allows the user to enter  a block of
    text that will print later in the document.

.FK <BEGIN|END <0|m>>
    <DUMP <n>>
    The FLOATING KEEP control  word enables the user to enter  a block of
    text that will print  together immediately or at the top  of the next
    page.

.FM <1|n|+n|-n>                                                         *
    The FOOTING MARGIN  control word specifies the number  of blank lines
    which are  to be left  between the bottom  of formatted text  and any
    footing line.
```

```
.FN <BEGIN|END>
    <SET n>
    <SET n /S1/S2/S3/>
    The FOOTNOTE control  word allows the user to enter  a footnote which
    will be printed at the end of the current page.

.FO <YES|NO|LEFT|RIGHT|CENTRE|INSIDE|OUTSIDE|HALF>                        *
    The FORMAT  control word  combines  the  effect  of  CONCATENATE  and
    JUSTIFY.

.FS <1|n|+n|-n>                                                          *
    The FOOTING SPACE control word specifies  the number of footing lines
    to be printed at the bottom of both even and odd numbered pages.

.GO <ident|n|+n|-n>
    The GOTO control word  specifies that the next input record  is to be
    selected out of normal sequence.

.HI <0|n|+n|-n|YES|NO>                                                   *
    The HANGING  INDENT control  word specifies  an indent  of additional
    spaces in each line of a paragraph after the first.

.HL <0|n> line                                                          *
    The HEADING LEVEL control word adds a  level "n" entry to the current
    Table of Contents.

.HM <1|n|+n|-n>                                                         *
    The HEADING  MARGIN  control word specifies the number  of blank lines
    which are to be  left between the heading line and  the first line of
    text.

.HN <EVEN|ODD> <BEGIN|END>
    <EVEN|ODD> <PURGE|DUMP>
    The HEADNOTE control  word defines a block of formatted text to appear
    at the top of all pages.

.HS <1|n|+n|-n>                                                         *
    The HEADING SPACE control word specifies  the number of heading lines
    to be printed at the top of both even and odd numbered pages.

.HW text-line
    The HYPHENATE  WORD control word allows  a user to specify  text with
    conditional hyphenation break points.

.HY <ON|USER|OFF>
    <SET THRESH <5|n|+n|-n>>
    <SET MINPT <3|n|+n|-n>>
    <SET ENDPT <3|n|+n|-n>>
    <SET SUP   <3|n|+n|-n>>
    <SUP>
    <ADD|DELETE|CHANGE> word-with-breaks
    <TEST word-without-breaks|DUMP|PURGE>
    The HYPHENATION control word is used  to set the level of hyphenation
    required and to  manipulate the automatic hyphenation  exception word
    list.

.Hn line                                                                *
    The HEADING LEVEL control word adds a  level "n" entry to the current
    Table of Contents.  The value of "n" may range from 0 to 9.

.IF <<'S1' op 'S2'|n1 op n2> <line>>
    The IF  control word sets  a truth  value to determine  processing of
    subsequent input lines.

.IL <0|n|+n|-n>                                                         *
    The INDENT LINE control  word forces the next output line  to start a
    specified number of columns to the right of the current input column.

.IM Filename <args>
    The IMBED control word is used to  insert the contents of a specified
    file into the printout of another file.

.IN <0|m|+m|-m|*> <0|n|+n|-n|*>                                         *
    The INDENT control word causes the  logical left and/or right margins
    of the printout to be indented a specified number of spaces.

.IX <1|n> 'S1' <'S2' <'S3'>> <<.> <ref>>
    <1|n> . <DUMP|PURGE>
    The INDEX control word builds an  index structure with references and
    triggers printing of the result.

.JU <YES|NO|LEFT|RIGHT|CENTRE|INSIDE|OUTSIDE|HALF>                      *
    The JUSTIFY control word causes output  lines to be padded with extra
    blanks so that the right margin is justified.

.LA <1|n|YES|NO|line>                                                  *
    The LEFT ADJUST  control word causes the  next input line to  be left
    adjusted in the output line, as if under NO FORMAT.

.LB <ident|n> <line>
    The  LABEL  control  word  specifies an  identifier  that  is  to  be
    associated with the current input record.

.LE <YES|NO>
    The LEADING BLANK LINE control word is used to control suppression of
    blank lines at the beginning of a page.

.LI <1|n|ON|OFF|char|line>
    The LITERAL  control word  allows the control  word indicator  in the
    first column to be ignored or changed on following lines.
```

```
.LL <60|n|+n|-n>                                                            *
     The LINE LENGTH  control word specifies  the  number of  horizontal
     character  positions  which  are  to  be  printed  in subsequent  output
     lines.

.LN <n|+n|-n>                                                               *
     The  LINE  IMMEDIATE control  word  causes  output  to resume  at  an
     absolute line number down on the current page or up on the next page.

.LS <0|n|+n|-n|YES|NO>                                                      *
     The LINE SPACING control  word causes zero or more blank  lines to be
     skipped between  each line of formatted  output except when  within a
     footnote.

.MC                                                                         *
     The MULTIPLE COLUMN  control word restores multi-column  output after
     it has been suppressed by .SC (SINGLE COLUMN).

.MS <ON|OFF>
     The MACRO SUBSTITUTION control word prevents user-defined macros (see
     .DM) from being invoked.

.OB <1|n> </S1/S2/S3/>
     The ODD BOTTOM  control word is used  to define three headings  to be
     printed at the bottom of odd-numbered pages.

.OC <char|ON|OFF|n> <c1 ...>
     char/<ON|OFF|n> <c1 ...>
     The OVERLAY  CHARACTER control word  causes characters in  input text
     lines to be  overlaid with a backspace and user  defined character or
     itself.

.OF <0|n|+n|-n>                                                             *
     The OFFSET control word causes all but the first line of a section to
     be indented.

.OJ <1|n|YES|NO|line>                                                       *
     The OUT JUSTIFY control word causes the specified lines to be aligned
     to the outside of the page.

.OO <1|n|ON <string>>
     <OFF|DELETE>
     The OUTPUT  OVERLAY control  word causes  blanks in  formatted output
     records to be overlaid with a user defined string.

.OT <1|n> </S1/S2/S3/>
     The ODD  TITLE control word  is used to  define three headings  to be
     printed at the top of odd numbered pages.

.OV <1|n|ON <string>>
     <OFF|DELETE>
     The OVERLAY  control word  causes following  input text  lines to  be
     overlaid by the contents of the text line following this command.

.PA <%+1|n|+n|-n <m|+m|-m>>                                                 *
     <YES|NO|ODD|EVEN>
     The PAGE  control word  causes an  output page  eject and  optionally
     resets the page number.

.PE <1|n|YES|NO|DELETE>
     The PERFORM  control word causes  remainder of  the same or  the next
     input line to be executed multiple times.

.PL <66|n|+n|-n>                                                            *
     The  PAGE LENGTH  control word  specifies  the physical  size of  the
     output page in units of physical output lines.

.PN <ON|OFF|OFFNO>
     <ARABIC|ROMAN <LOWER|UPPER>>
     <PREFIX|SUFFIX <string>>
     <FRAC|NORM>
     The PAGE NUMBER  control allows the user to  control the incrementing
     and formatting of page numbers.

.PP <line>                                                                  *
     The  PARAGRAPH START  control word  defines  the beginning  of a  new
     paragraph.

.PS <%|character>
     The PAGE NUMBER SYMBOL control word defines the character in headings
     and footings to be replaced by the current page number.

.PT <line>
     The PUT  TABLE OF  CONTENTS control word  adds an  input line  to the
     Table of Contents.

.PU <1|n> <line>
     The PUT  WORKFILE control word allows  the user to output  records of
     data to an output file.  This file may be imbedded later or be kept.

.QQ <YES|NO>                                                                *
     The QUIT  QUICKLY control  word causes  immediate termination  of all
     input and output file processing.

.QU <YES|NO>                                                                *
     The QUIT control word causes immediate  termination of all input file
     processing.

.RA <1|n|YES|NO|line>                                                       *
     The RIGHT ADJUST control word causes the  next input line to be right
     adjusted in the output line.
```

```
.RC n <ON|OFF|ON/OFF>
    n <char|SET string>
   The REVISION CODE control word allows  selected portions of the total
   document  to be  marked  in  the left  margin  with  a revision  code
   character.

.RD <1|n>
   The READ TERMINAL control word allows the  user to enter a line to be
   ignored during SCRIPT output.

.RE
   The RESTORE  STATUS control word  restores the page  environment last
   saved with a SAVE STATUS.

.RM <*|n|name <m|SAVE|NOSAVE> <SAVE|NOSAVE>>
    <*|n|name DELETE>
    <DELETE>
   The  REMOTE  control  word  defines  one or  more  input  lines  to be
   processed at a specific place on the current page, the next page,  or
   subsequent pages automatically,  to be triggered by SIGNAL (see .SI),
   or to be used as a user-defined control word.

.RV name
   The READ VARIABLE control word allows the  user to set the value of a
   variable symbol from an online terminal.

.SA
   The SAVE STATUS control word saves  the current page environment in a
   push down stack to be restored later with a RESTORE STATUS.

.SC                                                                    *
   The SINGLE  COLUMN control  word temporarily  suppresses multi-column
   output.

.SE name <'string'|numeric expression>
   This SET REFERENCE control word allows the user to assign a character
   or numeric value to a symbolic  reference name optionally using other
   symbolic reference names (see also .SR).

.SI <*|n|name> <args>
   The SIGNAL  REMOTE control  word causes  the specified  REMOTE to  be
   invoked immediately.

.SK <1|n> <A> <C>                                                      *
   The SKIP  control word  generates a specified  number of  blank lines
   before the next output line, except at the top of a page.

.SP <1|n> <A> <C>                                                      *
   The SPACE  control  word  generates a specific  number of  blank lines
   before processing continues.

.SR name<=> <'string'|numeric expression>
   The SET REFERENCE control word allows  the user to assign a character
   or numeric value to a symbolic reference name (see also .SE).

.SS                                                                    *
   The SINGLE SPACE control word causes output to be single spaced.

.SU <1|n|ON|OFF|line>
    <UPPER|NOUPPER>
    <TRACEON|TRACEOFF>
   The SUBSTITUTE SYMBOL  control word causes subsequent  input text and
   control lines to be reformatted by substituting the current values of
   specified reference names  in the line and  to be processed as  if it
   had been in the input.

.SY <line>
   The SYSTEM control  word passes a command line to  the host operating
   system.

.TB <n1 n2 n3 ...>                                                     *
    <<'string'|char/>n<L|R|C|'char> ...>
    <SET <char>>
   The TAB  SETTING control word specifies  the tab stops to  be assumed
   for the  following lines  when converting  the TAB  character (X'05')
   generated by  the terminal  TAB key  into the  appropriate number  of
   spaces.

.TC <1|n|* <CONTENTS|line>>                                            *
    <ADD <m ... >>
    <PURGE>
   The TABLE  OF CONTENTS  control word  causes the  specified Table  of
   Contents to be printed.

.TE <1|n>
   The TERMINAL INPUT  control word allows the user to  enter control or
   input lines during processing of the input file.

.TH line
   The  THEN control  word  causes an  input  line  to be  conditionally
   included depending on the truth value of a previous IF control word.

.TI <s <s|t>>
    <<s1 t1> <s2 t2> ...>
    <SET <char>>
   The TRANSLATE  ON INPUT control  word allows  the user to  specify an
   escape character and the contents of a  translate table to be used on
   input lines.

.TM <6|n|+n|-n>                                                        *
   The  TOP MARGIN  control  word  specifies the  number of  lines to  be
   placed between the physical top of the output page and the first line
   of text.
```

```
.TR <s <s|t>>
    <<s1 t1> <s2 t2> ...>
    The TRANSLATE ON  OUTPUT control word allows the user  to specify the
    contents of the translate table used for output.

.TT <1|n> </S1/S2/S3/>
    The TOP  TITLE control word  is used to  define three headings  to be
    printed at the top of both even and odd numbered pages.

.TY <information>
    The TYPE ON  TERMINAL control word causes one line  of information to
    be typed on the user's terminal.

.UC <line>
    The   UNDERSCORE  AND   CAPITALIZE  control   word  underscores   and
    capitalizes an input line.

.UD <<ON|OFF> c1 <c2 ... >>
    <SET|INCLUDE|IGNORE> char
    The  UNDERSCORE  DEFINITION  control  word is  used  to  specify  the
    characters  to   be  underscored  with  the   automatic  underscoring
    commands.

.UP <line>
    The UPPERCASE control word is used to capitalize an input line.

.UR line
    The USE REFERENCE control word causes an input line to be reformatted
    by substituting  the current values  of specified reference  names in
    the line and  to be processed as if  it had been the  input (see also
    .SE and .SR).

.US <line>
    The UNDERSCORE control word is used to underscore an input line.

.WD <YES|NO>
    The  WIDOW control  word  prevents  the first  and  last  lines of  a
    paragraph from being split across a page  boundary from the rest of a
    paragraph.
```

```
┌─────────────────────────────────────────────────────────────────────────┐
│                                                                           │
│                          SYSPUB COMMAND SUMMARY                           │
│                                                                           │
└─────────────────────────────────────────────────────────────────────────┘
```

SYSPUB is a set of "high-level" formatting commands designed for
reports, papers, user's guides, manuals, books, reference manuals, and
other academic publications such as theses.   To access the SYSPUB
commands, specify

        .im syspub layout=xxx

at the beginning of your input file,   and replace "xxx" by one of the
layouts   shown below.   Each of the layouts incorporates all of the
commands of the layouts above it.   For more information, see the SYSPUB
User's Guide.

LAYOUT=REPORT

```
  .chapter 'title'
  .section 'title'
  .subsection 'title'
  .subsub 'title'
  .para <n>

  .footnote 'refword' <'punctuation'>
  .footend
  .quote <BEGIN|END>
  .point <BEGIN|END|1|2|3|SET s1 s2 s3>
  .boxon   and   .boxoff

  .tabnum refname
  .tabbegin
  .table refname 'title'
  .tabend <page>

  .fignum refname
  .figbegin
  .figure refname 'title'
  .figend <page>
```

LAYOUT=PAPER,IEEE

```
  .prelim 'title'
  .appendix 'title'
  .bibliography 'alternate title'
  .bib
```

LAYOUT=GUIDE

```
  .index <n <'alternate title'>>
  .contents <'alternate title'>
  .tables <'alternate title'>
  .figures <'alternate title'>
```

LAYOUT=MANUAL,REFMAN

```
  .titlepage
  .part 'title'
```

LAYOUT=THESIS,APA3,APA4

```
.by 'name of author'
.course 'title of course'
.degree 'title of degree'
.date

.declaration
.borrow
```