

Notes on TEX-80™ Version 2.1

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New Features

TEX 2.1 adds the following features to those supported by TEX 2.0:

1. The stop option (\$S) now works with output directed to the console (\$PX) as well as with output directed to the printer (\$PY) or disk. When used in conjunction with \$PX, the stop option produces a prompt after every 22 lines so you can view one screen at a time. The default page offset is zero for the \$PX option.
2. Tabs are now expanded relative to the page offset. This means that changing the page offset should not effect the tab expansion relative to the rest of the document. The Diablo (\$D) mode uses the absolute horizontal tab feature of the Diablo 1640/1650 printers. This means that when using proportional spaced printing on the Diablo, you may set absolute tabs to obtain columnar alignment.

In proportional mode all indentation (including paragraphing) is done using the absolute tab feature and should be specified in 1/10" units. This makes it possible to line up hanging indents by placing a tab in each hanging indent to align the remaining text in the line with the indentation. For example, the indentation on this page was done with the commands:

```
.ta 5  
.in 5
```

This section begins with the sequence:

```
.sp 2  
.ne 5  
.ti 0  
2. (tab) Tabs are now ...
```

This produces properly aligned hanging indents. In TEX 2.0 the only means of obtaining columnar alignment was with the Literal (.LI) formatting command.

3. Line length (.LL) and page offset (.PO) formatting commands produce a break unless you use the special nobreak control character (`LL or `PO).

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4. In the Diablo (\$D) mode, the Diablo printer margins are set to the page offset and line length. This reduces the size of the output file and improves the performance of some of the Diablo word processing commands.
5. In the Diablo (\$D) mode, wide-spaced shadow printed headings are now produced by using the shadow printing command with a numeric argument other than 12 or ± 0 . The default command (.SH) will not change character spacing. An argument of $\pm n$ will change the HMI (Horizontal Motion Index) by either $+n$ or $-n$, and an argument of n will set the HMI to n . The normal HMI for 10 pitch is 12. In proportional spaced printing mode (.PS or \$Q), an argument of $+n$ or n (>12) will increase the character offset by $3/120$ ". (See the Diablo 1640/1650 manual for further explanation of these terms).
6. In the Diablo (\$D) mode, centering is done using the XMEM2 PCB auto-center option. This properly centers wide-spaced shadow printed headings (see 5. above), except when in proportional spaced printing mode.
7. The default character size for proportional spaced printing mode (.PS or \$Q) is now 22, ie. an increase of 22%.
8. The \$Q option does not have to follow the \$D option in the option list to turn on proportional spacing, however the \$Q option only works when used with the \$D option.
9. In the Diablo (\$D) mode, a special function reset command (ESC X) is issued before text processing is begun to turn off any special functions previously set.

Corrections

The following problems with TEX 2.0 have been corrected in TEX 2.1:

1. The omit pages (\$O) option works correctly when in the Diablo (\$D) mode and when the source file contains tabs.
2. Shadow printing, bold overprinting, underlining and centering performance have been improved in the Diablo (\$D) mode.

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3. Line length (.LL) works correctly in the Diablo (\$D) mode. The default line length of 70 produces a 7" line on the Diablo. Similarly, a line length of 65 will produce a document width of 6.5".
4. In the Diablo (\$D) mode, margins are reset if necessary prior to the printing of headings and footings so that the page offset or linelength may be changed temporarily for the heading or footing.

Index 2.1

The following two improvements have been incorporated into INDEX 2.1:

1. Trailing blanks are removed from index (.IX) entries.
2. A problem that in certain cases omitted the last line of the index has been corrected.

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