#### Comment on "TEX Does Windows"

# Jim Fox

of them in the paragraph.

directed. It is not so big a deal that TFX can be and 15th chapters of the TFXbook describe comparagraph shape and to split off parts of said graphs essentially trivial. Nor should the em-(the hole being distracting and making the paraproduces not only a gap between words but a hyphasis instead belongs on the TFX itself, and the graphs with ease. And one should note that the holes can be of arbitrary shape, and there can be several

The emphasis of the "window paragraphs" article in the March TUGboat seems to be somewhat mismade to format such paragraphs, indeed the 14th pletely and in detail the means both to specify paragraphs-thereby rendering these holed paraphasis be placed on the paragraphs themselves graphs hard to read, especially when the hole phenated word across the gap as well. The emvery fact that it can format such idiosyncratic para-

# Queries

Editor's note: When answering a query, please send a copy of your answer to the TUGboat editor as well as to the author of the query. Answers will be published in the next issue following their receipt.

The following items, which appear elsewhere in this issue, are in response to, or otherwise relevant to, previous queries.

- First-line special handling (James Alexander, Vol. 7, No. 2, page 110), see page 193.
- Indexing with LATEX (Jim Ludden, Vol. 7, No. 2, page 111), see page 201.
- Setting parallel texts (John Stovall, Vol. 2, No. 2, page 57), see page 190.

#### Time Line Macro

This query elicited no response when it was published in T<sub>F</sub>Xhax, so I will try the TUGboat audience. In addition to being quite useful for its (admittedly specialized) purpose, it would seem to be a challenging exercise for an expert — something along the lines of some of the esoteric exercises in the  $T_EXbook$  or the tree-making macro of last year's TUGboat. I offer it as such a challenge.

I would like a macro which makes a "time line". It would read a file which consists of entries of the form

# $\langle date \rangle \langle event \rangle$

(presorted if necessary) and produce a vertical line of some preassigned length with tick marks so that the top of the line represents the first date (or #1 in the macro call) and the bottom represents the last date (or #2). Down the line, with vertical spacing mimicking (and that is the key point) time intervals, the dates and events are printed horizontally out to the right. One problem is to do something intelligent when two or more of the dates cluster too closely (e.g. two events on the same date). One can see the general idea, but also many TEXnical details. Alternately (perhaps less interestingly), one could write a preprocessor in C or Pascal.

Sometimes the time scale is linear (e.g. for the history of the USA); sometimes a logarithmic scale is appropriate (e.g. cosmological events since the beginning of the universe — as much happened in the first second or so as since - or, compressing in the opposite direction, the chronology of life on earth). Such time lines are a useful semi-pictorial way of presenting chronologies, but are somewhat awkward to create with conventional typesetting. Any takers?

> James Alexander University of Maryland

### **Reply: Printing Out Selected Pages**

In TUGboat Vol. 7, No. 3, Helen Horstman asked, "Is there some way by which one can select only a page (or pages) of printout?"

I recently put some new lines, shown below, into MANMAC (the macros of Appendix E that generated Volumes A and E), so that I could put only selected pages into the DVI file. The method should work if you use it at the end of almost any macro file. (Or, if necessary, at the front of a source document.)

The idea is to make TEX look for a file called pages.tex. If such a file doesn't exist, everything works as before. Otherwise the file should contain a list of page numbers, one per line, in the order they will be generated. After the last page number has been matched, all further pages will be printed. Thus, if you want to print page 123 and all pages from 300 onwards, your file pages.tex should say

123

300

but if you want to print pages 123 and 300 only the, file should say, e.g.,

123 300 -9999999999 % impossible number

so that the end of file will never occur.

You should rename the pages.tex file after you're done with it; otherwise it will continue to affect the output.

The macros cause  $T_{EX}$  to announce that fact that it's doing something special.

Donald Knuth Stanford University

## Macro for printing out selected pages

\let\Shipout=\shipout \newread\pages \newcount\nextpage \openin\pages=pages \def\getnextpage{\ifeof\pages\else {\endlinechar=-1\read\pages to\next \ifx\next\empty % in this case we should have eof now \else\global\nextpage=\next\fi}\fi} \ifeof\pages\else\message{OK, I'll ship only the requested pages!} \getnextpage\fi \def\shipout{\ifeof\pages\let\next=\Shipout \else\ifnum\pageno=\nextpage\getnextpage\let\next=\Shipout \else\let\next=\Tosspage{fi\fi \next} \newbox\garbage \def\Tosspage{\deadcycles=0\setbox\garbage=}

### Using the Windows Environment

We currently run TEX on IBM PC/XT and AT's and have recently adopted Microsoft's Windows environment to provide us with a Mac-like interface. At present MicroTEX will run without modification under Windows but without pull-down menus and the like. I would be very interested to hear from anyone who either has a .DVI file previewer that will work under Windows or who is interested in developing such a previewer (or any TEX product that runs under Windows).

As Windows is about to be upgraded and will form the presentation manager of OS/2 for the new range of IBM Personal System computers, this would seem to be where the future is for those of us who live in the world of IBM compatibility.

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