

## Late-Breaking News

### Production Notes

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### Input and input processing

Electronic input for articles in this issue was received by e-mail, on diskette, and was also retrieved from remote sites by anonymous ftp. In addition to text, the input to this issue includes METAFONT source code and several encapsulated PostScript files. More than 75 files were used directly to generate the final copy; over 100 more contain earlier versions of articles, auxiliary information, and records of correspondence with authors and referees. These numbers represent input files only; .dvi files, device-specific translations, and fonts (.tfm files and rasters) are excluded from the total.

Most articles as received were fully tagged for *TUGboat*, using either the plain-based or L<sup>A</sup>T<sub>E</sub>X conventions described in the Authors' Guide (see *TUGboat* 10, no. 3, pages 378–385). Several authors requested copies of the macros (which we were happy to provide); however, the macros have also been installed at labrea.stanford.edu and other good archives, and an author retrieving them from an archive will most likely get faster service. Of course, the TUG office will provide copies of the macros on diskette to authors who have no electronic access.

Both the number of articles and the number of pages in this issue are just over half in L<sup>A</sup>T<sub>E</sub>X. In organizing the issue, attention was given to grouping bunches of plain or L<sup>A</sup>T<sub>E</sub>X articles, to yield the smallest number of separate typesetter runs, and the least amount of handwork pasting together partial pages. This also affected the articles written or tagged by the staff, as the conventions of tugboat.sty or ltugboat.sty would be chosen depending on what conventions were used in the preceding and following articles; no article was changed from one to the other, however, regardless of convenience.

Font work was required for several articles: Žubrinic on the Glagolitic alphabet (p. 470), Sauter on postal barcodes (p. 472), and two by Haralambous—the mactt font (p. 476) and Greek hyphenation (p. 457); this last article also required the new font selection scheme (NFSS).

The article by Kelly and Bischof (p. 443) incorporates several (encapsulated) PostScript images;

although it was the only article expressly requiring PostScript processing, several others were also output to PostScript devices for convenience.

The following articles were prepared using the plain-based tugboat.sty:

- all articles in General Delivery.
- Richard Palais, *Moving a fixed point*, page 425.
- Nigel Chapman, *Searching in a DVI file*, page 447.
- the *Hyphenation exception log*, page 452.
- Darko Žubrinic, *The exotic Croatian Glagolitic alphabet*, page 470.
- John Sauter, *Postnet codes using METAFONT*, page 472.
- two book reviews:
  - Arvind Borde, *T<sub>E</sub>X by Example*, page 487,
  - André Heck, ed., *Desktop Publishing in Astronomy & Space Sciences*, page 489.
- Erich Neuwirth, *T<sub>E</sub>X implementations for IBM PCs: comparative timings*, page 490.
- Paul Anagnostopoulos, *ZzT<sub>E</sub>X: A macro package for books*, page 497.
- Jonathan Fine, *The \noname macros — A technical report*, page 505.
- abstracts of the *Cahiers GUTenberg*, page 528.
- the TUG calendar, page 530.
- announcement of the *EP-odd* special issue, page 532.
- these Production notes
- “Coming next issue”

### Output

The bulk of this issue was prepared at the American Mathematical Society from files installed on a VAX 6320 (VMS) and T<sub>E</sub>X'ed on a server running under Unix on a Solbourne workstation. Most output was typeset on an APS- $\mu$ 5 at the AMS using resident CM fonts and additional downloadable fonts for special purposes. Three articles were output on the Math Society's Compugraphic 9600 Imagesetter: Taylor (p. 433), Kelly and Bischof (p. 443, which contained encapsulated PostScript images), and Haralambous on Greek hyphenation (p. 457).

One photograph, photographically screened in the traditional manner, accompanies the interview with Donald Knuth (p. 419).

The output devices used to prepare the advertisements were not usually identified; anyone interested in determining how a particular ad was prepared should inquire of the advertiser.

## Coming Next Issue

### **Anchored Figures at Either Margin**

A figure in a box can be placed in text at one margin or the other, by measuring the box and adjusting the paragraph shape parameters so as to allow room for it. Macros that try to accomplish this automatically must be resourceful enough to decide what to do in a variety of special circumstances; the correctness or appropriateness of each decision depends on the requirements of the user. Dañiel Comenetz presents his solution to the problems that arise in mathematics texts. [Delayed by technical difficulties.]

### **FIFO and LIFO sing the BLUES**

Kees van der Laan presents an exposition on FIFO, First-In-First-Out, and LIFO, Last-In-First-Out, well-known techniques for handling sequences. In  $\text{\TeX}$  macro writing these techniques are used abundantly but are often not easily recognized as such.  $\text{\TeX}$  templates for FIFO and LIFO are given and their use illustrated. Their relation to several techniques presented by Knuth in *The  $\text{\TeX}$ book* is described.

### **A Multimedia Document System Based on $\text{\TeX}$ and DVI Documents**

R. A. Vesilo and A. Dunn examine the development of a multimedia document system based on  $\text{\TeX}$ . Multimedia document systems involve many complex components including editors, formatters, display systems and components to support the different media. By using  $\text{\TeX}$  to do the formatting, using a standard text editor to enter the document text contents and define the document structure, and modifying a DVI previewer to include support for non-text contents, the amount of effort required to develop a multimedia document system is greatly reduced. [Delayed by technical difficulties.]

### **Using $\text{\TeX}$ to make Agendas and Calendars with Astronomical Events**

Inspired by the agenda distributed at the Cork  $\text{\TeX}$  meeting, Jordi Saludes has created macros that will produce calendars and agendas in several formats, allowing the user to include both 'fixed' and 'movable' events. Events of the latter type depend on astronomical phenomena related to the sun and moon, and include religious feast days and phases of the moon; all the necessary calculations are done by  $\text{\TeX}$  based on traditional algorithms.

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