TEXTSET, TEX, and the IBM PC

Two implementations of TEX for the IBM PC have been announced—MicroTEX™ by Addison-Wesley and PC TEX™ by Personal TEX. Both implementations produce standard DVI files. To insure quality printing with both of these implementations, Textset's professionally supported DVI-to-printer driver programs are being ported to the IBM PC. Use MicroTEX™ or PC TEX™ to process your TEX documents and use Textset's device drivers to print pages on QMS Lasergrafix, Imagen, and Xerox 9700 printers, or Autologic APS–5 series phototypesetters.

Also, don't forget to send your IBM PC disks containing TEX DVI files to Textset for fast, inexpensive typesetting on an Autologic APS–5 phototypesetter.

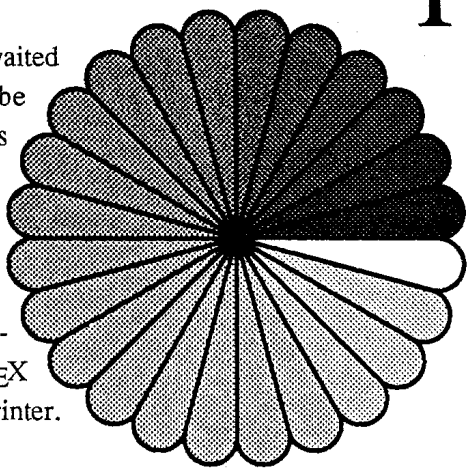
TEXTSET, TEX, and PostScript

Textset and Adobe Systems, Inc. are pleased to announce that our companies are cooperating to develop PostScript representations for the Computer Modern TEX fonts. Adobe has also designated Textset as their official TEX-to-PostScript support group. PostScript is the standardized printer language used in the newly released Apple Laserwriter and QMS Lasergrafix 1200A. Other major printer and typesetter manufacturers are also developing PostScript printers.

TEXTSET, Inc.
416 Fourth Street, P.O. Box 7993
Ann Arbor, Michigan 48107
(313) 996–3566

This ad was produced on a QMS Lasergrafix 800 printer. TEX is a trademark of the American Mathematical Society.

PostScript



TEX and PostScript are pleased to announce the long awaited marriage of text and graphics. Textset, Inc. and Adobe Systems, Inc. have also announced that our companies are cooperating to develop PostScript representations for the Computer Modern fonts. Adobe has designated Textset as their official TEX-to-PostScript support group. PostScript is the standardized printer language used in the newly released Apple LaserWriter and QMS Lasergrafix 1200A printers. This ad was formatted using TEX and PostScript and printed on an Apple LaserWriter printer.

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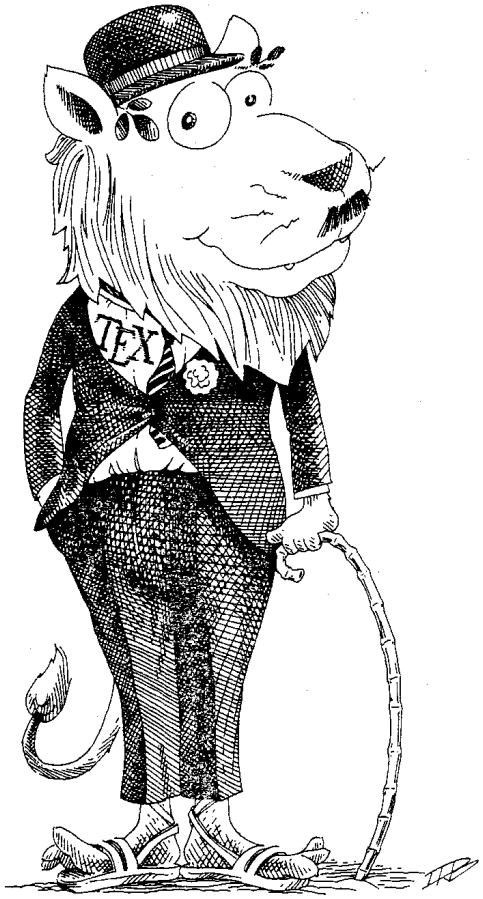
Addison-Wesley is Proud to Present...

MicroTEX™

MicroTEX is a full microcomputer implementation of Donald Knuth's technical text processing system, TEX, developed for the IBM PC/XT by David Fuchs. MicroTEX contains the power of TEX implementations on larger machines. Both input and output files from MicroTEX are fully compatible with all implementations of TEX82. The MicroTEX package also includes a driver for local output on a dot matrix printer.



MicroTEX System Requirements:

* IBM PC/XT or IBM PC with a hard disk
* 512K Memory

MicroTEX supports these printers:

* Epson RX-, FX-, MX-, 80 and 100 Printers
* IBM Dot Matrix and Graphics Printers

MicroTEX is available to you now in our preliminary version for only $495.00 for the complete package.

Use the form below to order now! The preliminary version of MicroTEX may be updated to the published version at a nominal cost.

A leading international publisher of quality scientific books and software, including *The TEXbook*, Addison-Wesley will shortly announce another important publication, *LATEX: A Document Preparation System*, by Leslie Lamport. In addition, TEX source code listings are now available from Addison-Wesley in *TEX: The Program*.

TEX is a trademark of the American Mathematical Society, MicroTEX is a trademark of Addison-Wesley Publishing Company, Inc., IBM is a registered trademark of International Business Machines, Inc., and Epson is a registered trademark of Epson, Inc.

Order Form 35178

☐ Yes, please send me ___ copy(ies) of MicroTEX at $495.00 each.
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TEX LECTURES ON TAPE

Videotapes of lectures from short courses and some lectures presented at TEX Users Group meetings are available for purchase in all video formats; for lease, only the 3/4″ U-Matic format is available.

For additional information, contact Ray Goucher, TEX Users Group, P. O. Box 9506, Providence, RI 02940-9506, U.S.A., (401) 272-9500, ext. 232.

TEX Users Group Meeting, Stanford University, August 15–17, 1984

The following sessions were videotaped and are available for lease ($25 each hour or fraction thereof) or purchase ($50 each hour or fraction thereof):

Don Knuth: Update on TEX82 and general Q & A (1:30); Jacques Désarménien: Running TEX in a French enviroment (fonts, hyphenation, typography) (1:00); Don Knuth et al.: Macro writing (3:00) and What's new in Metafont and typography (1:30); Leslie Lamport: Improvements in LATEX macros (0:30); David Fuchs, John Gourlay and Peter Sih: Output devices and drivers (1:00); Leslie Lamport and Richard Southall: Interfacing conventional design practice with TEX and Metafont: discussion (1:30); Georgia Tobin: Font design using Metafont & discussion (1:00); and Site Coordinators' progress reports – DG MV 8000, Prime 750, HP 3000, IBM Group, UNIX, and VAX (VMS) (1:30).

Book Design Utilizing TEX – Richard Southall and Leslie Lamport

At the August 1984 TUG meeting a short course, "First Principles of Typographic Design for Document Production", consisting of approximately 11 hours of lectures, was presented. The course establishes some basic principles for the typographic design of simple text. The application of these principles to the design of documents, and the implementation of the resulting designs with TEX, was discussed. Topics include: typographic structures in text; LATEX structures; graphic conventions in text; the document designer's tools; making text readable; designing headings; implementing text and heading designs; designing pages; implementing page layouts; list design and other issues. The lease/purchase prices are listed below.

Introduction to the Internal Workings of TEX82 – Donald Knuth

At the July 1982 TUG meeting a short course of 12 one-hour lectures, "Introduction to TEX82", was presented on the internal workings of TEX82. The WEB source of TEX82 was used as a reference. A reading knowledge of PASCAL was strongly recommended as a prerequisite.

The principal goal of the course was to make the participant familiar with the anatomy of the TEX82 system, so that it will be clear how to make system dependent changes necessary to install it as an effective production tool. For a complete description of this course, see TUGboat Volume 5 (1984), No. 1, Cover 3. The lease/purchase prices are listed below.

Introduction to AMS-TEX82 – Michael Spivak

At the July 1983 TUG meeting an Introductory AMS-TEX82 Users Course for secretaries and technical typists, consisting of 11 hours of lectures, was presented by Michael Spivak, author of *The Joy of TEX*, which served as the text for this course. For a complete description of this course, see TUGboat Volume 5 (1984), No. 1, Cover 3. The lease/purchase prices are listed below.

	Lease	**Purchase***
List	$375/month	$750
Institutional member, non-educational	325/month	650
Educational institution	300/month	600

*The **purchase price** for VHS and Beta formats is $100 less in each category.

Professional TEXware

Textset's TEX Package and TEX Preview software are available for the Sun Workstation and the Apollo DOMAIN Workstation. The TEX Package is an optimized version of TEX for Apollo and Sun Workstations. TEX Preview is a TEX page previewer that uses the complete standard distribution TEX fonts to display average size pages on the bit-map screen at the rate of one to three seconds per page depending on the computer system configuration.

Textset's TEX DVI-to-printer driver programs produce pages quickly and accurately on QMS Lasergrafix, Imagen, and Xerox 9700 printers. DVIAPS, Textset's TEX DVI-to-printer driver for Autologic APS–5 series phototypesetters, is marketed in cooperation with Autologic Inc. Autologic offers the complete Computer Modern TEX fonts as a package to its clients. DVIAPS can also produce pages on Autologic's Bit Blaster printers.

All of Textset's software is fully compatible with the most up-to-date versions of TEX, and we have a professional commitment to maintain that compatibility.

For organizations producing a high volume of documents and requiring professional TEX support, Textset can install complete turnkey TEX systems with screen preview facilities, proof quality output on low- and high-end laser printers, and final typesetting on Autologic APS–5 series phototypesetters. Textset also provides TEXpert applications development and support and programmer level consultation.

Textset software has been installed on the following operating systems: UNIX (SUN), Aegis (Apollo), IBM VM/CMS, IBM MVS, TOPS20, VAX/VMS, HP9000, and MTS. *All of Textset's DVI-to-printer driver programs are being ported to the IBM PC.*

TEXTSET, TEX, and the Future

Textset has a strong commitment to research and development. New TEX products and services are under development already and scheduled for release later this year. Among these are:

- A TEX-to-PostScript driver program. PostScript is the standard printer language developed by Adobe Systems, Inc. The newly released Apple Laserwriter and QMS Lasergrafix 1200A are PostScript printers. PostScript will make it possible to integrate graphics into TEX documents.
- A semi-interactive version of TEX Preview for high-performance workstations like SUN and Apollo.
- *Getting Started with TEX*, a beginners manual that explains how to use TEX for standard document types. An easy-to-use macro package will be distributed with the book.

Textset offers courses in beginning TEX and Advanced Macro writing, some arranged through TUG. The first offering was presented at the Los Alamos National Laboratory in early March.

Remember to send your TEX DVI files on tape or disk to Textset for fast, inexpensive typesetting on an Autologic APS–5 phototypesetter.

TEXTSET, Inc.
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Textset has provided professional TEXnical software and support since 1982. We are always pleased to give professional references from our international, installed customer base.

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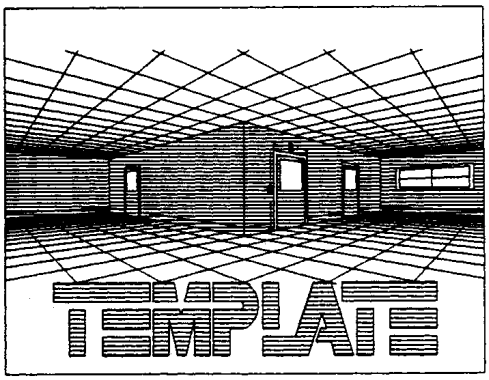
SYSTEMS INC.

TALARIS TALKS TEX

We talk your language. Talaris Systems Inc. offers TEX users full TEX support through its line of TEX-compatible text and graphics software, its family of high quality laser printers, and its extensive library of METAFONT-generated TEX and LATEX fonts.

TEX AND GRAPHICS

We offer QDRIVE™, a TEX-compatible text and graphics merging tool. QDRIVE processes TEX-formatted text pages and merges them with automatically scaled and positioned embedded graphics, like so:



and/or overlaid graphics (see our logo above) for letterheads, borders, forms, grids and "rubber stamp" emulation. QDRIVE is available on VAX/VMS, DEC-10 and DEC-20.

LASER JOY

Talaris offers three fast, affordable, high quality laser printers: the Talaris 2400 (24 pages per minute), the Talaris 1200 (12 pages per minute) and the Talaris 800 (8 pages per minute, desk-top). All are full page bit-map, 300-dots-per-inch text and graphics laser printers. Each functions as a line printer, a plotter (both vector and raster graphics), a Diablo-style printer and a typesetter.

TEXSUPPORT

TEXsupport is our software kit for TEX82 on DEC-10, DEC-20 and VAX/VMS based Talaris laser printers, and for TEX82 on VAX/Berkeley 4.1 or 4.2 UNIX based Talaris laser printers. Each TEXsupport kit comes with QTEX, our TEX82 DVI file post-processor.

TEXsupport comes with a complete library of 239 TEX and LATEX fonts (237 down-loadable, 2 in ROM), spooler or symbiont enhancements, and TEX version 1.1, LATEX and SLITEX at no extra charge. We also offer 4 optional TEX ROM font sets. (Our TEX fonts are completely compatible with Stanford's.)

FONTS FLASH!

Now available on the VAX/VMS: The **VMS Print Server**, also known as the **Font Daemon**. The Font Daemon provides automatic down-loadable font memory management. While your document is being printed, the Print Server dynamically loads for you any font it encounters in your text. It first checks to see if the referenced font has already been loaded, and if not, automatically loads it for you. If font memory is too full, it deletes the oldest unused font before loading the new one. (Bonus: the Font Daemon works with any text file, not just TEX text files.)

For more information on our TEX-related products, call or write us today.

WE TALK TEX!

P.O. Box 261580, San Diego, CA 92126 (619) 587-0787

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PC TEX™
A Complete Implementation of TEX
For the IBM PC/XT and AT

Now available for your microcomputer: a *real* typesetting system, capable of producing journal quality output! Your IBM PC/XT or AT can now run TEX, the state-of-the-art typesetting program developed by PROF. DONALD E. KNUTH at Stanford University. TEX reads standard ASCII files and produces files that can be used to obtain printed output on a wide variety of devices—from dot matrix printers to laser printers to phototypesetters.

TEX is being supported as a standard language for mathematical typesetting by the *American Mathematical Society*, which has produced the AMS-TEX macro package. AMS-TEX greatly simplifies the setting of complex mathematical formulas and also allows the same computer file to be printed in the style of different journals. You can produce preprints of a paper on your own printer, while a journal can use the same file to print the version that will be published.

PC TEX is a complete TEX—with input and output files compatible with all implementations of TEX. PC TEX was developed by Lance Carnes, the first to implement TEX on a small computer (Hewlett-Packard 3000) and the editor for the "small" TEX department of the TEX Users Group Newsletter.

Minimum system requirements: IBM PC/XT or AT or work-alike with a 10M hard disk and 360K floppy. 512K memory to run TEX, 640K to run LATEX.

- Price $279.00. PC-DOT, the program to produce printed ouput on the IBM graphics printer, or on the Epson RX, MX, FX series, is priced separately at $100.00. Prof. Knuth's TEX manual, *The TEXbook*, is also available, for $15.00.
- California residents, please add sales tax.
- For each PC TEX or PC TEX, PC-DOT purchase, add $3.00 for shipping (UPS). Or add $8.00 for UPS 2nd Day Air.
- Quantity discounts available. Also available: memory boards, previewer for use with high-resolution screens, drivers for Imagen and QMS laser printers.

Personal TEX, Inc. 20 Sunnyside, Suite H, Mill Valley, CA 94941 (415) 388-8853

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