

Request for Information

The T_EX Users Group maintains a database and publishes a membership list containing information about the equipment on which T_EX is (or will be) installed and about the applications for which T_EX is used. This list is updated periodically and distributed to members with TUGboat, to permit them to identify others with similar interests. Thus, it is important that the information be complete and up-to-date.

Please answer the questions below, in particular those regarding the status of T_EX and the hardware on which it runs. (Operating system information is particularly important in the case of IBM mainframes and VAX.) This hardware information is used to group members in the listings by computer and output device.

If accurate information has already been provided by another TUG member at your site, indicate that member's name and the same information will be repeated automatically under your name. If your current listing is correct, you need not answer these questions again. Your cooperation is appreciated.

- *Send completed form with remittance* (checks, money orders, UNESCO coupons) to:

T_EX Users Group
P. O. Box 594
Providence, Rhode Island 02901, U.S.A.

- *For foreign bank transfers* direct payment to the T_EX Users Group, account #002-031375, at:

Rhode Island Hospital Trust National Bank
One Hospital Trust Plaza
Providence, Rhode Island 02903-2449, U.S.A.

- *General correspondence* about TUG should be addressed to:

T_EX Users Group
P. O. Box 9506
Providence, Rhode Island 02940-9506, U.S.A.

Name: _____
Home <input type="checkbox"/> _____
Bus. <input type="checkbox"/> Address: _____

QTY	ITEM	AMOUNT
	1989 TUGboat Subscription/TUG Membership (Jan.-Dec.) - North America New (first-time): <input type="checkbox"/> \$35.00 each Renewal: <input type="checkbox"/> \$45.00; <input type="checkbox"/> \$35.00 - reduced rate if renewed before February 1, 1989	
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	TUGboat back volumes 1980 1981 1982 1983 1984 1985 1986 1987 1988 Circle volume(s) desired: vol.1 vol.2 vol.3 vol.4 vol.5 vol.6 vol.7 vol.8 vol.9 Indiv. issues \$18.00 ea. \$18 \$50 \$35 \$35 \$35 \$50 \$50 \$50 \$50	

Air mail postage is included in the rates for all subscriptions and memberships outside North America.
Quantity discounts available on request.

TOTAL ENCLOSED: _____
(Prepayment in U.S. dollars required)

Membership List Information

Institution (if not part of address): _____

Date: _____

Title: _____

Status of T_EX: Under consideration

Phone: _____

Being installed

Network address: _____

Up and running since: _____

Arpanet BITnet

Approximate number of users: _____

CSnet uucp

JANET other _____

Version of T_EX:

Pascal

C

other (describe)

From whom obtained: _____

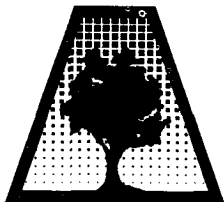
Specific applications or reason for interest in T_EX:

My installation can offer the following software or technical support to TUG:

Hardware on which T_EX is used:

Computer(s)	Operating system(s)	Output device(s)
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please list high-level T_EX users at your site who would not mind being contacted for information; give name, address, and telephone.



ARBORTEXT INC.

TEX FOR THE HP 9000

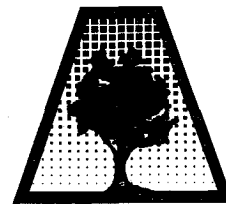
ArborText introduces TeX for the HP 9000,
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The new release includes the
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DVILASER for
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TEX Users

Take Note

Computer Composition Corporation offers the following services to those who are creating their technical files using TEX:

- Convert your DVI files to fully paginated typeset pages on our APS-5 phototypesetters at 1400 dpi resolution.
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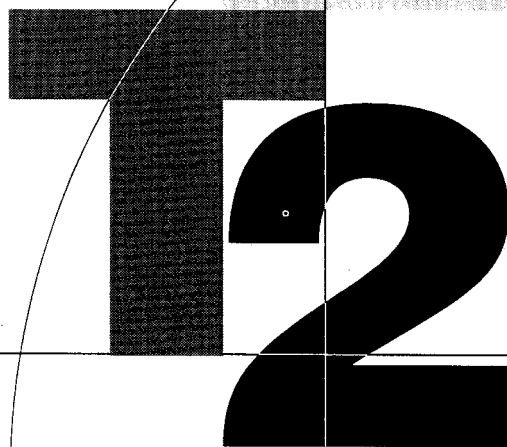
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T_EX Device Interfaces for VMS

PostScript

LaserJet

LN03

A large, bold, black graphic of the letters 'T', 'E', and 'X' in a stylized font. The 'T' is a simple block letter. The 'E' is a block letter with a small circle in the center of its horizontal bar. The 'X' is a block letter with a small circle in the center of its lower loop. The letters are arranged in a slightly overlapping manner. A thin black vertical line runs through the center of the 'E' and 'X'. A thin black horizontal line runs through the bottom of the 'T' and 'E'. A thin black curved line starts from the bottom left, goes up and over the 'T' and 'E', and then curves down to the right, ending near the 'X'.

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Public Domain T_EX

The authorized and current versions T_EX software are available from *Maria Code - Data Processing Services* by special arrangement with Stanford University and other contributing universities. The standard distribution tape contains the source of T_EX and METAFONT, the macro libraries for A_MS-T_EX, L^AT_EX, SliT_EX and HP T_EX, sample device drivers for a Versetec and LN03 printers, documentation files, and many useful tools.

Since these are in the public domain, they may be used and copied without royalty concerns. They represent the official versions of T_EX. A portion of your tape cost is used to support development at Stanford University.

If you have a DEC VAX/VMS, IBM CMS, IBM MVS or DEC TOPS operating system, you will want to order a special distribution tape which contains "ready-to-run" T_EX and METAFONT. If you do not have one of these systems, you must perform a more involved installation which includes compiling the source with your Pascal compiler. Ready-to-run versions of T_EX are available for other systems from various sources at various prices. You may want to examine these before ordering a standard distribution tape.

The font tapes contain GF files for the Computer Modern fonts. While it is possible to generate these files yourself, it will save you a lot of CPU time to get them on tape.

All systems are distributed on 9 track, 1600 bpi magnetic tapes. If both a distribution tape and a font tape are ordered, they may be combined on a single 2400' reel, space permitting.

Your order will be filled with the current versions of software and manuals at the time it is received. If you want a specific version, please indicate that on your order.

Please use the form on the next page for your order. Note that postage, except domestic book rate is based on the item weights in pounds. If you want to place your order by telephone, please call (408) 735-8006 between 9:00 am and 2:00 pm West Coast time. Do not call for technical assistance since no one there can help you.

We normally have a good stock of books and tapes, so your order can be filled promptly — usually within 48 hours.

Make checks payable to *Maria Code - Data Processing Services*. Export orders must have a check drawn on a US bank or use an International Money Order. Purchase orders are accepted.

T_EX Order Form

T_EX Distribution tapes:

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Font Library Tapes (GF files)

- 300 dpi VAX/VMS format
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- IBM 3820/3812 MVS format
- IBM 3800 CMS format
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Tape prices: \$92.00 for first tape,
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Total number of tapes _____
Postage: allow 2 lbs. for each tape

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* published by Stanford University

Payment calculation:

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Number of documents ordered _____	Total price for documents _____
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Check	<input type="checkbox"/> air mail to Canada and Mexico:	rate \$2.00/lb.
One	<input type="checkbox"/> export surface mail (all countries):	rate \$1.50/lb.
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Multiply total weight by shipping rate. Enter shipping charges: _____

Total charges: (add charges for materials, tax and shipping) _____

Send to: Maria Code, DP Services, 1371 Sydney Drive, Sunnyvale, CA 94087.

Include your name, organization, address, and telephone number.

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PTI LASER HP+, SERIES II. This device driver for the HP LaserJet Plus and Series II laser printers takes full advantage of the 512K resident memory.
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Requires: DOS 2.0 or later, 512K RAM, 10M hard disk. T_EX is an American Mathematical Society TM. PC T_EX is a Personal T_EX, Inc. TM. Manufacturers' names are their TMs. Outside the USA, order through your local PC T_EX distributor. Inquire about available distributorships and site licenses. This ad was produced using PC T_EX and Bitstream fonts.

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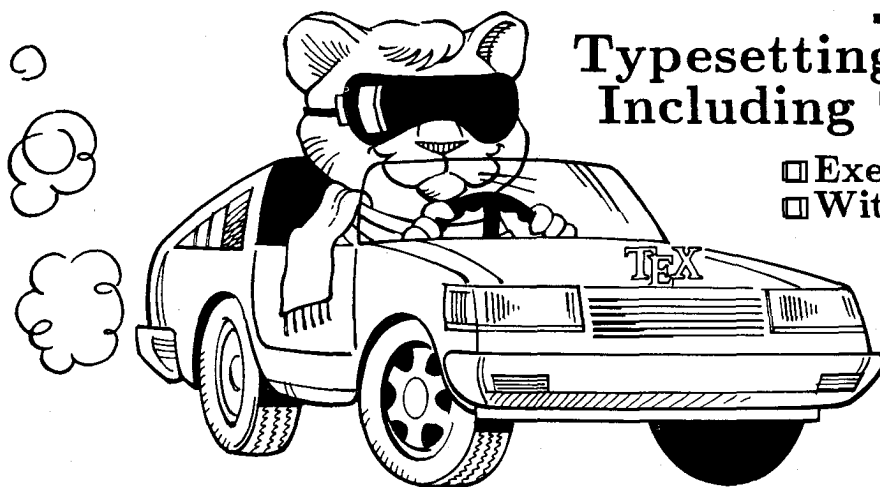
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■ **Power Features:** TurboTEX brings big-machine performance to your small computer. TurboTEX breaks the 640K memory barrier under MS-DOS on the IBM PC with our virtual memory sub-system. You'll have the same sized TEX that runs on multi-megabyte mainframes, with plenty of memory for large documents, complicated formats, and demanding macro packages that break other TEX implementations. On

larger computers, TurboTEX runs up to 3 times faster in less memory than the Stanford Pascal distribution.

■ **Source code:** Order the TurboTEX source in portable C, and you will receive more disks with over 85,000 lines of generously commented TEX, TurboTEX, METAFONT, and printer driver source code, including: our WEB system in C; PASCHAL, our proprietary Pascal-to-C translator; and preloading, virtual memory, and graphics code. TurboTEX meets C portability standards like ANSI and K&R, and is robustly portable to a growing family of operating systems.

■ **TEX-FAX:** Connects TEX to the FAX revolution. Send perfect TEX output instantly, anywhere, without scanning. With TEX-FAX, any FAX machine in the world becomes your output device! Complete with PC board and software for \$395 (4800 bps) or \$795 (9600 bps).

■ **Desktop Publishing Interface Option:** Converts TEX output (such as equations or tables) for direct use in programs like Ventura Publisher and Pagemaker. (\$50 for PC).

■ **Availability & Requirements:** TurboTEX executables for IBM PC's include the User's Guide and require 640K and hard disk. Order source code (includes Programmer's Guide) for other machines. Source compiles with Microsoft C 5.0 or later on the PC; other systems need 1 MB memory and a C compiler supporting UNIX standard I/O. Media is 360K 5-1/4" PC floppy disks; other formats at extra cost.

■ **No-risk trial offer:** Examine the documentation and run the PC TurboTEX for 10 days. If you are not satisfied, return the software for a 100% refund or credit. (Offer applies to PC executables only.)

Ordering TurboTEX

Order by phone, FAX, or mail. Terms: Check with order (free media and ground shipping in US), VISA, Mastercard (free media, shipping extra); Net 30 to well-rated firms and public agencies (shipping and media extra). Discounts available for quantities or resale.

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The Joy of TEX



A Gourmet Guide to Typesetting with the AMS-TEX macro package

M. D. SPIVAK, Ph.D.

The Joy of TEX is the user-friendly user's guide for AMS-TEX , an extension of TEX , Donald Knuth's revolutionary program for typesetting technical material. AMS-TEX was designed to simplify the input of mathematical material in particular, and to format the output according to any of various preset style specifications.

There are two primary features of the TEX system: it is a computer system for typesetting technical text, especially text containing a great deal of mathematics; and it is a system for producing beautiful text, comparable to the work of the finest printers.

Most importantly, TEX 's capabilities are not available only to TEX perts. While mathematicians and experienced technical typists will find that TEX allows them to specify mathematical formulas with great

accuracy and still have control over the finished product, even novice technical typists will find the manual easy to use in helping them produce beautiful technical TEX t.

This book is designed as a user's guide to the AMS-TEX macro package and details many features of this extremely useful text processing package. Parts 1 and 2, entitled "Starters" and "Main Courses," teach the reader how to typeset most normally encountered text and mathematics. "Sauces and Pickles," the third section, treats more exotic problems and includes a 60-page dictionary of special TEX niques.

Exercises sprinkled generously through each chapter encourage the reader to sit down at a terminal and learn through experimentation. Appendixes list summaries of frequently used and more esoteric symbols as well as answers to the exercises.



ISBN 0-8218-2999-8, LC 85-7506
290 pages (softcover), 1986
AMS Indiv. Memb. \$29, AMS Inst.
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Updated T_EX Products



AMS- T_EX Version 2.0 (Available January 1990)

AMS- T_EX , the T_EX macro package that simplifies the typesetting of complex mathematics, has been updated to version 2.0. AMS- T_EX is intended to be used in conjunction with AMSFonts 2.0 (see below). However, if the purchaser does not need the extra symbols and Euler characters found in AMSFonts, AMS- T_EX can be run without AMSFonts. (AMS- T_EX 2.0 **cannot** be used with previous versions of AMSFonts.) AMS- T_EX is available on IBM or Macintosh diskettes—either format may be uploaded to many mainframe computers.

AMSFonts Version 2.0 (Available January 1990)

AMSFonts 2.0 are designed either for use with AMS- T_EX 2.0, or for use with Plain T_EX . (AMSFonts 2.0 **cannot** be used with previous versions of AMS- T_EX .) There will be two distributions of fonts: one that can be used on PC's as well as mainframes, and one that can be used on a Macintosh with *Textures*. The fonts that will be included on these distributions are:

Font Name	Description	Point Sizes	Font Name	Description	Point Sizes
CMCSC	CM Caps and Small Caps	8-9*	MSAM	Symbols	5-10
CMMIB	CM Math Italic Boldface	5-9*	MSBM	Symbols (w/Blackboard Bold)	5-10
CMBSY	CM Bold Symbols	5-9*	WNCYR	Cyrillic Upright	5-10**
EURB	Euler Cursive Boldface	5-10	WNCYI	Cyrillic Italic	5-10**
EURM	Euler Cursive Medium	5-10	WNCYB	Cyrillic Boldface	5-10**
EUFB	Euler Fraktur Boldface	5-10	WNCYSC	Cyrillic Caps and Small Caps	10**
EUFM	Euler Fraktur Medium	5-10	WNCYSS	Cyrillic Sans Serif	8-10**
EUSB	Euler Script Boldface	5-10			
EUSM	Euler Script Medium	5-10			

* 10 point is included in the standard T_EX distribution.

** Developed by the University of Washington

AMSFonts for PC or mainframe

- Font Resolution: 118, 180, 240, 300, 400 dpi (one resolution per order).
- Magnification: All the standard T_EX magnifications will be included. The standard magnifications are: 100, 109.5, 120, 144, 172.8, 207.4, and 248.8%.
- Format: Available on both 3.5" and 5.25" diskettes, in either high or low density (the default will be 5.25", high density).

AMSFonts for use on a Macintosh with *Textures*

- Font Resolution: 72, 144, and 300 dpi (all resolutions included in each order).
- Magnification: The standard distribution will include fonts at 100% and 120%. An extended distribution, which will contain all the standard T_EX magsteps, will also be available.
- Format: The Macintosh fonts will be available on double-sided double-density 3.5" diskettes.

PRICES: AMS- T_EX : List \$30, AMS member \$27
 AMSFonts: List \$45, AMS member \$41
 AMS- T_EX and AMSFonts: List \$65, AMS member \$59

Shipping and handling: \$8 per order in the US and Canada, \$15 elsewhere.

HOW TO ORDER: Prepayment is required. Free upgrades are available for those who have purchased previous versions. When ordering AMSFonts for the PC, specify desired resolution, diskette size, and diskette density.

For more information: Call the AMS at (401) 272-9500, or (800) 556-7774 in the continental U.S. or write to: T_EX Library, American Mathematical Society, P.O. Box 6248, Providence, RI 02940.

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CTEX: a full implementation of TEX version 2.98 that includes virtual memory support to enable you to run your favorite macro package in a minimum of RAM.

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For more information or to place an order contact:

In Canada:

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In the United States:

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12894 Rices Crossing Road,
Oregon House, CA 95962
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Also available from the TEX Users Group.

MacroT_EX

A T_EX Macro Toolkit.

Clients include:

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T_EX-PostScript

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Style files: Generic, Book, Report, Software Documentation, Letter and Note style, each notated and easily adapted to your design.

Macros to help form your own font families, including PostScript font families.

Modular format. Separate files are used for separate functions: listing macros, tables macros, or indexing macros, for example, are called in only when needed.

All or portions of MacroT_EX may be added to existing macro files.

Source code included.

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All the features you need for document preparation:

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- Partial page figure that text will wrap around
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- Utilities: Margin control, Footnotes and Endnotes, Diagonal lines, Drop Caps, Margin notes, Mailing labels, Font charts...
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Single User: \$200, Site Licenses Available.

Coming soon: **Post-T_EX**, our new T_EX-PostScript package that passes information from PostScript to T_EX to insert encapsulated PostScript graphics. It passes information from T_EX to PostScript to position grey screens behind code examples, highlight screen simulations, and position a grey screen in a particular table column entry, as well as and other useful T_EX-PostScript macros. Post-T_EX works with both T_EX and LaT_EX.

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International Conference on Electronic Publishing, Document Manipulation, and Typography
September 18-20, 1990
National Institute of Standards and Technology
Gaithersburg, MD (Washington, DC area)

EP90, the third in a series of international conferences, will bring together researchers in the areas of electronic publishing, document manipulation, and typography. Our definition of "electronic publishing," encompasses all aspects of computer-assisted preparation, presentation, transmittal, storage, and retrieval of linear and non-linear documents. It includes the design of the related computer systems, the design of their components, and the theory that underlies such systems. Careful presentation of important earlier results inadequately described in the open literature also is appropriate. Papers should present previously unpublished original research results and should be supported by experience. Guidelines for the exhibition of commercial and research systems are available from the conference address.

Specific topic list:

- Document preparation systems: design, concepts, experience, theoretical and algorithmic foundations
- Document component identification and manipulation.
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- Font design and use: design and evaluation of computer-based tools, techniques and goals, visual issues.
- Representations specialized for electronic display: fonts, presentations, etc.
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- Critical analyses of proposed and established international standards. Experience with standards.
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Telephone: (301) 975-3345 (8:30-5:00 U.S. Eastern Time)
Electronic mail: ep90@asl.ncsl.nist.gov FAX: (301) 590-0932

Important dates:

January 31, 1990: full papers due
April 1, 1990: acceptance notification
May 15, 1990: final paper due
September 18-20, 1990: EP90

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