and ' both become ' (the single straight quote symbol at code '015 in CMTT). Similarly, on output, '---' becomes '--' and '---' becomes '--'.

The upshot is that one can code up a document in normal \TeX fashion and then, by setting the fonts to be Hosek’s Pica, it will print out looking as though it had been typewritten, with ‘italic’ text underlined and ‘bold’ text under-squiggled, etc. Merely reset the fonts to CMR (or whatever) and it will be properly typeset with all the variety of fonts and refinement of punctuation of which \TeX is capable.

12.2 Non-standard sizes of CM

John Sauter reported in TUGboat 7.3 (1986), 151–152, that he has re-parameterized CM so that any of the existing Computer Modern family may be created with any design size. For example, most of us, when requiring an 11pt CM will use CMR10 at \texttt{\textbackslash magstep} half. Apparently this is not satisfactory to the most discerning, and Sauter’s algorithms permit one to generate a true CMR11 face. They go further, of course, and permit the generation of any of the CM faces in any (reasonable) point size. This is done by algorithms that interpolate or extrapolate from the values used by Knuth in the METAFONT parameter files for CM. If a standard value, such as 10pt, is chosen, then Sauter’s algorithms will produce CM fonts identical to the standard ones. The TFM files for all sizes match exactly.

Don Hosek’s \TeXMaG, volume 2, number 4 gives further details of Sauter’s work, and notes that some of the fonts may start looking bad at larger sizes, lacking inter-character space, and so on. Don has prepared a version of Sauter’s work tailored for use on a PC, which is available from him. See the \TeXMaG article for details.

---

### Output Devices

#### \TeX Output Devices

Don Hosek

The device tables on the following pages list all the \TeX device drivers currently known to TUG. Some of the drivers indicated in the tables are considered proprietary. Most are not on the standard distribution tapes; those drivers which are on the distribution tapes are indicated in the listing of sources below. To obtain information regarding an interface, if it is supposed to be included in a standard distribution, first try the appropriate site coordinator or distributor; otherwise request information directly from the sites listed.

The codes used in the charts are interpreted below, with a person’s name given for a site when that information could be obtained and verified. If a contact’s name appears in the current TUG membership list, only a phone number or network address is given. If the contact is not a current TUG member, the full address and its source are shown. When information on the drivers is available, it is included below.

Screen previewers for multi-user computers are listed in the section entitled “Screen Previewers”. If a source has been listed previously under “Sources”, then a reference is made to that section for names of contacts.

Corrections, updates, and new information for the list are welcome; send them to Don Hosek, Bitnet D hosek@hmcvax (postal address, page 229).

#### Sources

**ACC** Advanced Computer Communications, Diane Cast, 720 Santa Barbara Street, Santa Barbara, CA 93101, 805-963-9431 (DECUS, May ’85)

**Adelaide** Adelaide University, Australia

The programs listed under Adelaide have been submitted to the standard distributions for the appropriate computers. The PostScript driver permits inclusion of PostScript files in a \TeX file. The driver is described in TUGboat, Vol. 8, No. 1.

**AMS** American Mathematical Society, Barbara Beeton, 401-272-9500 Arpanet: BNB@Math.AMS.com

**Arbor** ArborText, Inc., Bruce Baker, 313-996-3566, Arpanet: Bwb@ArborText.Com

ArborText’s software is proprietary and ranges in price from $150 to $3000. The drivers for PostScript printers, the HP LaserJet Plus, the QMS Lasergrafix, and Imagen printers are part of their DVILASER
The Imagem driver from Stanford is present on most distributions as the file DVIIMP.WEB. It provides limited graphics ability.

Sun
Sun, Inc.

Sydney
University of Sydney, Alec Dunn, (02) 692 2014, ACSnet: alecd@facet.ee.su.oz

Talaris
Talaris, Sam Hassabo, Talaris Systems, Inc., 6059 Cornerstone Court West, San Diego, CA 92121, 619-587-0787

All of the Talaris drivers support Tektronix graphics. Device-dependent special fonts are used for each device.

T A&M1
Texas A&M, Bart Childs, 409-845-5470, Csinet: Childe@TAMU

Graphics is supported on the Data General drivers for the Printronix, Toshiba, and Versatec on the Data General MV. On the TI PC, graphics is supported on the Printronix and Texas Instruments 855 printers. There are also previewers available for both the Data General and the TI.

T A&M2
Texas A&M, Ken Marsh, 409-845-4940, Bitnet: Kmarsh@TAMU

T A&M3
Texas A&M, Norman Naugle, 409-845-3104

The QMS driver supports inclusion of QUIC graphics commands via specials as well as landscape printing.

T A&M4
Texas A&M, Thomas Reid, 409-845-8459, Bitnet: x066tr@TAMU

The TeXxrs package includes a GF/PK/PXL to Xerox font converter (PXLtoX2), and utility to build TFM files from licensed Xerox fonts (Xetrix). The programs are all written in C. Fonts not present on the Xerox printers can be printed as bitmaps on printers with the graphics handling option (GHO).

At present the TeXxrs package is being distributed on a twelve-month trial basis; the trial is free for U.S. educational and government institutions, $100 for foreign or commercial institutions. Licensing agreements will be available when the trial offer expires.

TeXsys
TeXsys, Joachim Schrod, Kranichweg 1, D-6074 Rödermark, Federal Republic Germany, +49 6074 1617

The LaserJet driver supports graphics inclusion in device dependent format. PK font files are used. This program is proprietary. Contact TeXsys for further information.

THD
Technische Hochschule Darmstadt, Klaus Guntermann, Bitnet: KITKGNU@DTHD21

The program uses PK fonts. The Philips Elpho driver is not public domain. Contact Klaus Guntermann for information on obtaining the program.

Tools
Tools GmbH Bonn, Edgar Fuß, Kessenicher Straße 108, D-5300 Bonn 1, Federal Republic of Germany

The Tools implementation of TeX and the drivers listed are described in TUGboat, Vol. 8, No. 1.
The drivers may be obtained via anonymous FTP from the directory /pub/iptex.tar.Z in the directory pub/a.cs.uiuc.edu. They are available on IBM PC-DOS floppy disks (about 6), or 1600bpi 9-track tape in TOPS-10/20 BACKUP/DUMPER format, VAX/VMS BACKUP format, or disks for a copy; there is a $100 fee for this service.

The programs listed under U Wash1 are all on the standard UNIX distribution tape.

The QMS driver for the CDC Cyber was written under NOS 2.2 and supports graphics. This driver supports graphics inclusion in device dependent format. PK font files are used. This program is proprietary. Contact XOrbit for further information.

DVIDIS is available for anonymous FTP from VENUS.YCC.YALE.EDU. Log in as anonymous and do a CD [.DVIDIS]. That directory contains the three required files needed to run the previewer. The image must be transferred using BINARY mode.

Screen Previewers — Multi User Systems

- Data General MV
- T A&M1
- DEC-20
- OSU2 ASCII Output
- Utah BBN Bitgraph terminal
- HP9000/500
- Utah BBN Bitgraph terminal
IBM MVS
GMD  GDDM supported devices: IBM 3179, 3192, 3193, and 3279
Milan1  Tektronix 4014
IBM VM/CMS
HMC  Terminals connected through 7171 Protocol converters: Tektronix compatible, VT-640 compatible, GDDM driven IBM 3179 and 3279 terminals, GDDM driven Tektronix 816
DVIview may be obtained by sending $30 (to defray duplication costs), a blank tape, and a return mailer to Don Hosek. The program is still in the developmental stages, and enhancements will be made in the future. The program uses PK files.
Wash St  GDDM driven IBM 3179 and 3279 terminals
  Uses PXL files at 120dpi. Allows viewing of the page in eight parts normal size or three parts compressed.
Wmann  IBM 3279, 3179-G
  Previewing is provided by DVI82, the Weizmann driver for the Versatec plotter. The program uses PXL files.
UNIX
Utah  BBN Bitgraph
UCB  X-11 Windows
Integrated Solutions
UCIrve
Utah  BBN Bitgraph
SUN
Arbor
Aurion, PTI  EGA, CGA, VGA, Hercules Graphics Card, Wyse WY/700, Genius VHR Full Page Display, AT&T 6300
  Uses fonts from the laser printer driver in PK or PXL format to display text. Magnification may be set on entry. Maxview is available for $125.
PTI
  Uses fonts in GF, PK, or PXL format. On the fly magnification, on the fly inclusion of DVI files, font substitution, and 256 character fonts are supported. PTIVIEW is available for $149.
T A&M3  EGA, CGA, Hercules
  The cdvi program is available for $175.

IBM PC
Arbor
  EGA, MCGA, UGA, Hercules, Olivetti, Teccmar, Genius full page, ETAP Neftis, Toshiba 3100, AT&T 6300
  Uses GF, PK, and PXL files as well as tuned PostScript fonts (the base set available with PostScript printers). Preview of integrated bit map graphics, font substitution, magnification on the fly, two-up display of pages, and searching for character strings are supported. Preview is available for $175.
Aurion, PTI  EGA, CGA, VGA, Hercules Graphics Card, Wyse WY/700, Genius VHR Full Page Display, AT&T 6300
  Uses fonts from the laser printer driver in PK or PXL format to display text. Magnification may be set on entry. Maxview is available for $125.

Amiga
Rad Eye
  Uses PK files. Included with AmigaTeX.
Apollo
Arbor
  Uses GF, PK, and PXL files. Preview is available for $500.
X-11 Windows

Atari ST
TExsys

Tools
Cadmus 9200
U Köln
IBM PC
Arbor, PTI  EGA, MCGA, UGA, Hercules, Olivetti, Teccmar, Genius full page, ETAP Neftis, Toshiba 3100, AT&T 6300
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T A&M3  EGA, CGA, Hercules
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VMS
Adelaide  AED 512, ANSI-compatible, DEC ReGIS, DEC VT100, DEC VT220, Visual 500, 550
  Uses PK or PXL files.
DECUS  Tektronix 4014
  Uses PK, GF, or PXL files.
INFN  DEC ReGIS
  Uses PXL files.
Talaris  Talaris 7800
Utah  BBN Bitgraph

Screen Previewers — Microcomputers and Workstations

Amiga
Rad Eye
  Uses PK files. Included with AmigaTeX.
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Arbor
  Uses GF, PK, and PXL files. Preview is available for $500.
X-11 Windows

Atari ST
TExsys

Tools
Cadmus 9200
U Köln
IBM PC
Arbor
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DECUS  Tektronix 4014
  Uses PK, GF, or PXL files.
INFN  DEC ReGIS
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Talaris  Talaris 7800
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Screen Previewers — Microcomputers and Workstations

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TExsys

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Cadmus 9200
U Köln
IBM PC
Arbor
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VMS
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  Uses PK or PXL files.
DECUS  Tektronix 4014
  Uses PK, GF, or PXL files.
INFN  DEC ReGIS
  Uses PXL files.
Talaris  Talaris 7800
Utah  BBN Bitgraph

Screen Previewers — Microcomputers and Workstations

Amiga
Rad Eye
  Uses PK files. Included with AmigaTeX.
Apollo
Arbor
  Uses GF, PK, and PXL files. Preview is available for $500.
<table>
<thead>
<tr>
<th>Low-Resolution Printers on Multi-User Systems — Laser Xerographic, Electro-Erosion Printers</th>
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<tbody>
<tr>
<td><strong>Amdahl (MTS)</strong></td>
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<tr>
<td>Agfa P400</td>
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<td>Canon</td>
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<tr>
<td>DEC LN03</td>
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<tr>
<td>Golden Laser 100</td>
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<tr>
<td>HP LaserJet Plus</td>
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<td>IBM 38xx, 4250, Sherpa</td>
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<td>Imagen</td>
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<td>Kyocera</td>
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<tr>
<td>PostScript printers</td>
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<td>QMS Lasergrafix</td>
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<td>Talaris</td>
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<td>Xerox Dover</td>
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<td>Xerox 2700II</td>
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<td>Xerox 9700</td>
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</tbody>
</table>
### Low-Resolution Printers on Multi-User Systems — Impact and Electrostatic Printers

<table>
<thead>
<tr>
<th>Printer</th>
<th>CDC Cyber</th>
<th>Cray</th>
<th>Data General MV</th>
<th>DEC-10</th>
<th>DEC-20</th>
<th>HP9000 500</th>
<th>IBM MVS</th>
<th>IBM VM</th>
<th>Prime</th>
<th>UNIX</th>
<th>VAX VMS</th>
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<td>Apple ImageWriter</td>
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<td>DEC LA75, LP100</td>
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<td>U Köln</td>
<td>PPC</td>
<td>T A&amp;M1</td>
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Other systems included are: GMD1, U Milan2, W'mann, LLL, U Wash1, Caltech NLS.
### Low-Resolution Printers on Microcomputers and Workstations — Laser Xerographic, Electro-Erosion Printers

<table>
<thead>
<tr>
<th>Printer Type</th>
<th>Amiga</th>
<th>Apollo</th>
<th>Atari ST</th>
<th>HP1000</th>
<th>HP3000</th>
<th>HP9000 200</th>
<th>IBM PC</th>
<th>Integrated Solutions</th>
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<tr>
<td>Agfa P400</td>
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<td>Canon</td>
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<td>Cordata LP300</td>
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<td>DEC LN03</td>
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<td>Golden Laser 100</td>
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<td>HP 2680</td>
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<td>HP 2688A</td>
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<td>HP</td>
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<td>HP LaserJet Plus</td>
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<td>Imagen</td>
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<td>Kyocera</td>
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<td>LasrPrt</td>
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<td>PostScript printers</td>
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<td>Arbor</td>
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<td>QMS Kiss, Smartwriter</td>
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<td>Arbor</td>
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<td>QMS Lasergrafix</td>
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<td>Xerox 9700</td>
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<td>T A&amp;M4</td>
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<tr>
<td>Low-Resolution Printers on Microcomputers and Workstations — Impact and Electrostatic Printers</td>
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<tr>
<td>Amiga</td>
<td>Apollo</td>
<td>Atari ST</td>
<td>Cadmus 9200</td>
<td>HP1000</td>
<td>HP3000</td>
<td>IBM PC</td>
<td>Integrated Sun Solutions</td>
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<tr>
<td>Apple ImageWriter</td>
<td>Rad Eye</td>
<td>Utah</td>
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