1 What is this thing you Earth people call PDCMAC?

1.1 Introduction

PDCMAC is collection of T_EX definition files (macro files) which may be useful for setting documents using plain T_EX ('plain' here meaning T_EX formats following similar conventions to those of Appendix B of the T_EXbook, as opposed to more complex formats like L^aT_EX). This package is much less powerful than L^aT_EX 2e; it is intended to be a simpler solution to simpler requirements. Because it is less complex, the macro code should be more readily adapted by other T_EX hackers.

The package includes a font-selection system, an output routine, general formatting macros, and 'style files' which input the other files and set the format for documents.

The name 'PDCMAC' is pronounced 'p-d-c-mac'. In file names where case matters it is always written in all-lower-case. The fairly consistent use of a 'pdc-' or 'ma-' prefix in this and other names is intended to prevent these files clashing with files from other packages. (The 'ma-' files are part of the Malvern package.)

1.2 Conventions in this guide

Contents and names of computer files, and commands to be typed literally are printed in this distinctive font. Placeholders to be filled in with real file names etc. are written in *this italic font*.

1.3 Copying

The PDCMAC files are copyright © 1990–1995 P. Damian Cugley. They may be used in documents, and distributed as a complete package as per the GNU General Public Licence (reproduced at the end of this document).

The tex files generated by the dtx files are like 'object files'; you should not distribute them without their source files (the dtx files).

Do not modify the generated tex files; if you must modify the macros, do this by editing the dtx files and running them through TEX again. If you must distribute modified versions (instead of persuading me to modify my copies), help reduce the proliferation of incompatible versions by doing the following:

- describe the modifications clearly in the printed documentation;
- say who modifed them in the header comments in the definition files, and change the version identifier;
- use a different name for the modified definition files.

The last point is so that documents using the unmodified versions can coexist with the ones using modified ones.

1.4 Feedback

I am very interested to hear from people who find a use for this package. Please send comments and suggestions, or reports of bugs, to the address above. If you find PDCMAC useful or amusing, please send me a pretty postcard. Thanks.

2 Unpacking and installing the files

2.1 Unpacking

Two common formats for archives are

- (on Unix) tar files, compressed using GNU zip (gzip), and
- (on MS-DOS) PKZIP-style archives.

Compressed tarfiles will have names like pdcmac-1.0.tar.gz or pdcmac10.tgz (the latter form is required by ISO-9660¹ file systems). Unpack the package with something like

```
zcat pdcmac10.tgz | tar -xf -
```

This generates a new directory called pdcmac-1.0.

PKZIP archives unpack files into the current directory, so they are unpacked like this:

```
md pdcmac
cd pdcmac
unzip a:\pdcmac10.zip
```

assuming the zipfile is so named.

There is a list of the files in the release in the appendix.

2.2 Generating the macro files

The macro files are packaged with their documentation in dtx² files; run plain TEX on each of the dtx files in turn to generate the macro files and the printed documentation. The resulting definition files have almost no comments in them; instead you must read the dtx files or the printed documentation.

The macro files are written in the current working directory. They are identical to the code lines in the printed documentation (they are generated from the same text in the dtx files).

There is a file pdcmondo.tex which reads all of the dtx files in turn except pdcsty.dtx and produces one large (70+ pages) document as well as all their macro files. This is most useful if you want to make a printed listing rather than keeping dvi files for reading online.

2.3 Installing the files

The definition (tex) files belong in a directory where TEX can find them. In the new soon-to-be-standardized file name conventions

¹ ISO 9660 is the standard for CD-ROM file systems. Its file names are like MS-DOS file names: a sequence of 8-letter components followed by a '.' and three-letter suffix. ISO 9660 names use capital letters, but on case-sensitive operating systems these are usually transliterated to lower-case.

 $^{^2}$ The LaTeX 2e distribution uses the file name suffix dtx for files with a similar function. Unlike the LaTeX system, the dtx files for PDCMAC produce the printed documentation and unpack the macro files themselves using a single macro file pdccode.tex and a single run through plain TeX; there are no drv or ins files.

TWG-TDS 0.61^3 this is the directory $\frac{\text{texmf/tex/plain/pdcmac/.}}$ On older systems, the files go with all the other macro files.

With TWG-TDS 0.61 the documentation goes in \$texmf/doc/ plain/pdcmac/. If you do not have a directory for documentation, the documentation files might as well go in the TEX inputs directory as well.

2.4 Configuration on Unix systems

There is a configure script and makefile template included, which allows the process of unpacking to be run automatically on Unix systems.⁴ The remainder of this section assumes you are installing PDCMAC on a Unix system.

Running 2.5 configure

Start by running a Bourne Shell on the configure script, by typing 'sh configure'. This examines your file system and attempts to guess suitable directories in which to put macro and documentation files. The configure script understands options listed in Table 1.

Table 1 Options for configure. Other options are ignored.

| Option | Meaning |
|---------------------|--|
| -h,help | Print a summary of options |
| -n,no-create | Create config.status but don't run it to make makefile. |
| -tdir | Says where to find a T _E X directory hierarchy. For example, '-t |
| texmf = dir | /usr/texmf' or '-t/usr/local/lib/tex3.14/tex'. The configure script will often guess correctly without this option. |
| -p dir $prefix=dir$ | Specifies the parent of the TEX directory, for example, '-p/usr' or '-p/usr/local/lib'. This is for compatability with the GNU coding standards. |
| -wtds with-tds | Specify that the T_EX directory uses some approximation to the TWG-TDS 0.61 file name conventions. This should not be necessary as configure will usually guess correctly. |

The configuration process creates a script config.status which records the configuration; running config.status generates a file makefile⁵ from the template makefile.in.

The config.status script has one option -r (or --recheck), which re-runs configure with the same arguments as were used to generate config.status; any options following -r are passed to configure.

³ The TUG Working Group on a T_EX Directory Structure, A Directory Structure for Implementation-Independent T_EX Files Version 0.61 (ftp: //ftp.th-darmstadt.de/pub/tex/TDS-compliant/draft/twg-tds.dvi, 10 February 1995).

⁴ The configuration system is based on the GNU Coding Standards, but was written by hand rather than using Autoconf.

⁵ Usually a makefile is called Makefile, but I wanted to make the package proof against file name munging from being copied onto MS-DOS discs.

2.6 Running make

Now you can use the make command to unpack and install all the files. Do 'make' to generate all the definition files and documentation. Then 'make install' to copy the macros into TEX's macros directory and the documentation into TEX's documentation area (assuming there is one). The standard targets which the makefile understands are listed in Table 2.

Table 2 Conventional targets defined in makefile.

| Command | Meaning |
|------------------|---|
| make all | Generate all the definitions files and dvi files |
| make install | Generate the definition files and copy them in to T _E X's macro area. Also copy the dvi files into T _E X's documentation area, if possible. |
| make uninstall | Delete all the files that 'make install' would install. |
| make mostlyclean | Delete some files but not as many as 'make clean'. |
| make clean | Delete files from the current directory that are normally created by 'make all'. Don't delete files that could be built using the makefile but which come with the distribution. |
| make distclean | Delete some more files, including those made by configuration. If you have unpacked the files and generated the macro files without creating any other files, this should leave only the files in the distribution. |
| make realclean | Delete files deleted 'make distclean' and any others that can be rebuilt using the makefile. |
| make TAGS | Generate a tags table file for Emacs. |
| make dist | Make a tarfile and zipfile for the package. |

3 Using PDCMAC style files for your documents

Normally a document will start by reading one of the style files, which in turn load the various definition files. The style files are intended to be more-or-less compatible with each other. I have arbitrarily divided the style files into 'leaflets' and 'docs'.

3.1 Leaflet styles

A leaflet is only a few pages, so does not need a table of contents or division into large units. There is still a \section command, but it is designed for smaller divisions than the \section command used in 'docs' (in a leaflet, \section produces a heading with prominence similar to that produced by \subsec in a doc).

A leaflet-style document has no front matter, and so should start with some sort of heading for the title.

\input pdccmlft

\majorheadline{ title } \noheadlinetrue

commands to generate the title at the top of the first page text of the document, perhaps using \section commands

\bye

3.2 Doc styles

A doc is something larger than a leaflet but smaller than a book. It has a table of contents and numbered sections and subsections, with section titles being reproduced in the headline. There is no provision for cross-references and automatic bibliography (which require an aux file and at least two passes through TEX).

Sections may be grouped into larger divisions I have called **parts**. Parts are numbered independently of sections, in upper-case roman numerals. (There is no special reason for not numbering sections within parts; I just prefer to have fewer levels of numbering, so we get ' $\S12\cdot6$ ' instead of 'Subsection $4\cdot1\cdot6$ '.)

```
\input pdccmdoc
\part{ title } --or- \majorheadline{ title }
\section{ title }
    contents of section

more sections
\frontmatter
    front matter
\endfrontmatter
\bye
```

3.3 Front matter

The front matter of the document—the title page, preface, forword, etc.—must be printed *last*, with the table of contents at the end of the front matter; this is so that the table of contents may be accumulated during the TEXing of the file.⁶ The front matter starts with \frontmatter and may contain \section commands. Such sections will be unnumbered and will not appear in the table of contents.

For a short document, a separate title page is probably excessive, and an abstract may be preferable to a preface. In this case the first page after \frontmatter could have the title of the document (with author etc.) followed by an abstract, any copyright information (or other small print), and the contents (generated by \endfrontmatter). In other words, something like this:

```
\frontmatter
commands to print the title, etc.
\abstract
the text of the abstract
\endabstract
copyright information, etc.
```

[\]endfrontmatter

⁶ It has a benefit for people reading the document with a browser: page 1 of the document is the first page of the DVI file, which makes selecting a given page easy, and the table of contents is at the very end, so the browser's 'go to last page' command can be used to find the table of contents quickly.

For a longer document, there will be a separate title page and perhaps a preface.

```
\frontmatter
  \titlepage
    commands to print the title, etc.
  \splittitlepage
    print copyright information, etc.
  \endtitlepage
  \section{Preface}
    text of preface, etc.
```

\endfrontmatter

The macro \splittitlepage marks the division between the title page (title recto, page i) and the back of the title page (title verso, page ii), which is where copyright information goes. When formatting for one-sided printing, the copyright information belongs on the title recto, because the title verso will be blank, so \splittitle instead does \vfill.

New symbols

Several new symbols common to Malvern A and PostScript fonts are added (listed in Table 3). Approximations built from other glyphs are available in Computer Modern documents.

Table 3 New symbols

| ¢ | \cents | £ | \pounds | ¥ | \yen | f | \florin |
|-----------|-----------|------|-------------|--------------------------|-------------|---|------------|
| × | \currency | ((| \lguillemet | >> | \rguillemet | • | \gbdecimal |
| $0/_{00}$ | \permille | R | \registered | $\underline{\mathbf{a}}$ | \orda | Ō | \ordo |
| 8 | \S | \P | \P | † | \dag | ‡ | \ddag |

The symbols in the last row are 'new' in the sense that they will change according to the current font when using Malvern or PostScript fonts.

The maths symbols in Table 4 will be in the current \rm font (fam 0) in PostScript documents.

Table 4 Maths symbols taken from Adobe's latin character set

| < | < | > | > | _ | _ | |
|---|------------|---|-----------|--------|---------|------|
| \ | \backslash | \ | \setminus | \sim | \sim | \mid |
| • | \bullet | { | \lbrace | } | \rbrace | |

Appendix 4

4.1 File suffixes

In this document, 'a foo file' refers to a file of the type conventionally given a name ending in '-.foo' (using lower case because TEX file names are always given in lower case). This table lists some conventional file name suffixes used for files in this package.

Table 5 File suffixes used in this package

| 0,00 | 0 | | | |
|-------|-----------------------|---|--|--|
| Suffi | x Origin | Meaning | | |
| 1 | Unix | Manual page for a program, in nroff format. | | |
| def | LaT _E X 2e | Definitions used by macro files but not expected to be referred to directly in user documents. | | |
| dtx | $LaT_{E}X$ 2e | Documented T _E X macros—a file which combines macro definitions with their printed documentation. | | |
| eps | Adobe | An EPSF (Encapsulated PostScript Format) file. | | |
| fig | Fig | A picture file in Fig's undocumented format. | | |
| fnt | PDCMAC | Font list—a list of fonts used in a document, generated by the PDCFSEL macros. | | |
| in | GNU | Template for a configuration file—when using the configure script, the file foo is generated from the template foo.in. | | |
| tex | $T_{E}X$ | (1) A plain T _E X document. (2) A plain T _E X definition file. | | |
| tgz | GNU | A Unix tar archive, compressed with GNU zip. (Same as tar.gz.) | | |
| txt | traditional | Plain ASCII text, readable on the terminal. | | |
| zip | ?PKZIP | An MS-DOS PKZIP archive. | | |
| 4.2 | List of files | Here is a list of files supplied with the package. A list of the files generated from these—the definition files, used in documents—form the next section. All the names are chosen so that they may be copied onto, say, an ISO 9660 ⁷ or MS-DOS file system and back to a sensible file system without the names being changed. | | |
| | | Table 6 Files supplied in the package. | | |

Contents

00readme.txt configure

File

Brief description of the package.

A shell script used to automatically configure the makefile for Unix systems. (This is an unavoidable exception to the rule that names are ISO-9660-compatible.)

⁷ See note 1 on page 2.

| copying.tex | A copy of the GNU General Public Licence, in T _E Xable form. | | |
|---------------------|--|--|--|
| copying.txt | A copy of the GNU General Public Licence. | | |
| dtxtags | Shellscript for making tag files in etags(1) format. | | |
| dtxtags.1 | A Unix manual entry for dtxtags. ⁸ | | |
| fig2epsf | A Unix shellscript that converts figures from Fig's format into Encapsulated PostScript Format (EPSF) version 3.0 files. It uses fig2dev (from the TransFig package) to do most of the work. (It munges the PostScript code produced by fig2dev 2.1.4.1 so that it will print and will work with Ghostview.) | | |
| fig2epsf.1 | A Unix manual page for fig2epsf. | | |
| install.txt | Installation hints. | | |
| makefile.in | Template from which the configuration process generates a make- file, used by Unix's make command to automate compilation and in- stallation. Should be called Makefile.in but that's not ISO-9660- compliant. | | |
| magrmac.dtx | Documentation for Malvern Greek macros. This replaces the file magrmac.tex included in Malvern release 1.2. | | |
| magrman.tex | Brief user manual for magrmac.tex. This replaces the version distributed with Malvern 1.2 . It requires some Malvern G fonts. | | |
| oput01.eps oput02.e | ps Diagrams for pdcoput5.dtx. ⁹ | | |
| oput01.fig oput02.f | ig Source code for the above figures (Fig format). | | |
| pdcadobe.dtx | Source code and documentation for pdcadobe.tex. | | |
| pdccode.dtx | Source code and documentation for pdccode.tex. | | |
| pdccode.tex | Macros used by \mathtt{dtx} files. This file has to be included because $\mathtt{pdccode.dtx}$ can't be \mathtt{TEXed} without it. | | |
| pdccode2.tex | An experimental variation allowing multiple simultaneous code files. | | |
| pdcfmt2.dtx | Source code and documentation for formatting macros. | | |
| pdcfsel.dtx | Source code and documentation for font selection macros. | | |
| pdcguide.dvi | A copy of the user guide, already run through T _E X. | | |
| pdcguide.tex | This user guide for PDCMAC. | | |
| pdcl1maa.dtx | Source code and documentation for pdcl1maa.tex. | | |
| pdcmacvn.tex | Version number for the whole package. | | |
| pdcmisc.dtx | Source code and documentation for some small macro files. | | |
| pdcmondo.tex | Makes a combined listing of all the dtx files (except pdcsty.dtx). | | |
| pdcoput5.dtx | Source code and documentation for an output routine. | | |

⁸ This (and three more shellscripts used in the makefile) are not intended to be installed anywhere, but I included manual pages just in case they are—or in case the installer is curious as to what these scripts do.

⁹ The second edition of the *PostScript Language Reference Manual* says these should be called '-.epsf', but such names are not ISO-9660-compliant, so I have switched to '-.eps'.

| pdcsty.dtx | Source code and documentation for style files (pdccmdoc.tex, ma55doc.tex, etc.). | | | |
|------------------------------|---|--|--|--|
| pinstall | A Unix shellscript that substitutes for the install command on systems which don't have GNU install. ¹⁰ | | | |
| pinstall.1 | A Unix manual page for pinstall. | | | |
| pmkdir | A Unix shellscript used to create a directory. Unlike plain mkdir, it creates parent directories of the specified directory if they do not exist. This would be called pmkdirhier but that name is not ISO-9660-compliant. | | | |
| pmkdir.1 | A Unix manual page for pmkdir. | | | |
| version.txt | List of the version identifiers of the dtx files and the shellscripts that come with the package. | | | |
| 4-3 List of definition files | The following files are the ones that are intended to go in the T _E X inputs area and to be used in documents. Here a <i>macro file</i> is simply a file of T _E X definitions; a <i>style file</i> is a higher-level definition file that specifies most of the things that affect the style of a document (layout, fonts, macros, etc.). Style files start by reading a bunch of macro files. Table 7 Files generated from the dtx files. | | | |
| \overline{File} | Contents | | | |
| | | | | |
| ma55doc.tex | Style file for short documents with Malvern 55 as the text font. A table of contents and page headlines are generated automatically. | | | |

| File | Contents | |
|--------------|--|--|
| ma55doc.tex | Style file for short documents with Malvern 55 as the text font. A table of contents and page headlines are generated automatically. | |
| ma55lft.tex | Style file for very short documents with Malvern 55 as the text font. 'Leaflet'-class documents have no table of contents. | |
| magrmac.tex | Macros for typesetting in Greek with Malvern fonts (or any font with the Malvern G encoding). There is a brief user's guide in magrman.tex. | |
| pdcadobe.tex | Support for fonts with the Adobe Standard Roman and Adobe Symbol repertoires ¹¹ in the dvi file, and ISO 8859–1 (Latin-1) conventions in the manuscript file. The output encoding actually used is that variation on T _E X Text generated by the afm2tfm that comes with DVIPS. Newer T _E X systems should instead use PostScript fonts with (a subset of) the 1990 Cork encoding. ¹² This file actually combines two functions: (1) making the various symbols availabe via commands like \pounds and (2) making Latin-1 characters 10 I am not going to bother trying to make a makefile that will work with all the different versions of install, since there is no easy way to tell them apart | |

and they are mutually incompatible.

¹¹ The *repertoire* of an encoding scheme is the set of characters/glyphs it includes. Since PostScript fonts may be easily re-encoded, repertoire is more significant then the actual encoding.

¹² Variously called 'DC', 'EC', 'T1', and 'TEX Extended Text—Latin', and described in $TUGboat\ 10\#4.$

in the manuscript produce corresponding characters in the output. Described in pdcadobe.dtx.

pdccmdoc.tex

Style file for short documents with Computer Modern Roman as the text font. A table of contents and page headlines are generated automatically.

pdccmlft.tex

Style file for very short documents with Computer Modern Roman as the text font. 'Leaflet'-class documents have no table of contents.

pdcfmt2.tex

Macros for formatting text—bulleted and numbered lists, syntax descriptions, verbatim text, headings, etc. Most of the facilities used by the style files come from this file.

pdcfsel.tex

Macros for selecting fonts. Fonts are organized into *fontset*s (selected with macros with names like \bodyfonts) in which fonts are selected with nicknames like \it, \bf (specified at the start of the document using template macros).

pdchyex.tex

Some random British English hyphenation exceptions (developed while I was using American English hyphenation paterns). You may not want to use this. Described in pdcmisc.dtx.

pdcimth.tex

Make letters in maths formulas come out in text italic instead of math italic. Useful if the body font isn't CMR, or if multiple-letter identifiers are used. Described in pdcmisc.dtx.

pdcl1maa.tex

Support for documents with using the ISO 8859-1 (Latin-1) character set in the manuscript file and fonts with Malvern A encoding in the dvi file. Described in pdcllmaa.dtx.

pdccmsub.tex

Define some Malvern A and PostScript glyphs (like Y, \mathbb{R}) by overprinting CM glyphs. Described in pdcmisc.dtx.

pdcmigr.tex

Make Greek capitals in maths mode use math italic (fam 1) letters instead of letters from the roman font. Especially useful when there are no Greek caps in the roman font. Described in pdcmisc.dtx.

4.4 Obselete files

The following macro files were included with the Malvern 1.0 distribution, but were not intended to be installed. Nevertheless they appear to have been copied into some older versions of the UnixTEX distribution. They are obselete, and their successors have new names (intended to reduce the chance of accidental clashes). I'd appreciate people removing them from their TEX systems.

formac.tex parmac.tex utils.tex ssoutput.tex
ldfonts.tex malvern.tex cmdoc.tex

The following documents are similarly obselete and should not be in the macros directory anyway.

aboutmalvern.tex latexfmv.tex

The following macro files have the new-style names, but are superseded by PDCMAC 1.0 files. You are not required to remove then if you have documents using them. Fortunately, they appear not to have been absorbed by the UnixT_EX distribution anyway.

pdcfmt.tex pdcpars.tex pdcutil.tex pdcoput.tex

The new versions will have the major number of their version ID appended to their names (e.g., pdcfmt2.tex), and this way new and old versions may coexist, allowing older documents to still be processed by TEX. The functionality of pdcpars.tex and pdcfmt.tex have been taken over by pdcfmt2.tex.

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Version 2, June 1991

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P D C M A C User Guide

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P. Damian Cugley

Oxford University Computing Laboratory

Parks Road

Oxford OX2 7HN

UK

damian.cugley@comlab.ox.ac.uk

Abstract

PDCMAC is a collection of macro files intended to be useful with T_EX formats with similar conventions to those described in the T_EXbook . This document describes how to unpack the files and use them in T_EX documents.

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