Installation of the CTAN M-Tx Distribution

Bob Tennent rdt@cs.queensu.ca

January 8, 2018

1 Introduction

We assume that you have already installed MusiXTeX and PMX. Before trying to install M-Tx from CTAN, check whether your TeX distribution provides packages for M-Tx; this will be easier than doing it yourself. But if your TeX distribution doesn't have M-Tx (or doesn't have the most recent version), this distribution of M-Tx is very easy to install, though you may need to read the material on installation of (La)TeX files in the TeX FAQ¹, particularly the pages on which tree to use² and installing files³.

2 Installing m-tx.tds.zip

In this distribution of M-Tx, many of the files to be installed (including macros and documentation are in http://mirror.ctan.org/install/m-tx.tds.zip. The file mt-x.tds.zip is a zipped TEXMF hierarchy; simply download it and unzip in the root folder/directory of whichever TEXMF tree you decide is most appropriate, likely a "local" or "personal" one. This should work with any TDS⁴ compliant TeX distribution, including MikTeX, TeXlive and teTeX, but you must use an unzipping program that converts text files to the text-file format of your platform, such as unzip -a ... on Linux.

After unzipping the archive, update the filename database as necessary, for example, by executing texhash ~/texmf or clicking the button labelled "Refresh FNDB" in the MikTeX settings program.

Documentation for M-Tx is installed under doc/generic/m-tx in the TEXMF tree.

3 Installing prepmx

The next step in the installation is to install the one essential file that can't be installed in a TEXMF tree: the prepmx preprocessor.

¹http://www.tex.ac.uk/cgi-bin/texfaq2html

²http://www.tex.ac.uk/cgi-bin/texfaq2html?label=what-TDS

³http://www.tex.ac.uk/cgi-bin/texfaq2html?label=inst-wlcf

⁴http://www.tex.ac.uk/cgi-bin/texfaq2html?label=tds

3.1 Pre-Compiled Executables

On Windows systems, one can install prepmx.exe in the Windows32 or Windows64 sub-directory; these are pre-compiled executables and should be copied to any folder on the PATH of executables. This might entail creating a suitable folder and adding that folder to the PATH as follows: right click on the "My Computer" desktop icon, left click on

Properties

Advanced

Environment Variables

in the "System Variables" section, scroll down to "path", select it, click edit, and append the full path name you have selected for the new folder. Also install the batch script m-tx.bat in a folder on the PATH.

On the MAC OS-X platform, one can install the prepmx binary that is in the OSX sub-directory. Ensure that the file has the execute permission set:

chmod +x prepmx

3.2 Compilation from Source

On any platform with basic GNU tools (tar, gunzip, make) and gcc or fpc, you should be able to build the prepmx executable as follows:

1. Unpack the mtx-0.63.tar.gz archive:

```
tar zxvf mtx-0.63.tar.gz
```

and move to the resulting mtx-0.63 directory.

2. Configure:

./configure --prefix=\$HOME

or just

```
./configure
```

if you have super-user privileges.

3. Build:

make

If this fails, you might want to install fpc (the Free Pascal Compiler⁵) and try

```
make -f Makefile.orig
```

4. Install:

make install

This step should be executed as root if you need super-user privileges.

You should now have an executable prepmx in your PATH.

```
<sup>5</sup>http://www.freepascal.org/
```

4 Usage

To process an M-Tx source file, use the musixtex script which is included in the musixtex package. If applied to a file with .mtx extension, it will by default execute prepmx followed by pmxab, followed by etex, musixflx, and etex again, followed by conversion to PDF using dvips and ps2pdf. There are many options to vary the default behaviour.

5 Discussion

Other pre-processor packages, additional documentation, additional add-on packages, and many examples of M-Tx and MusiXTeX typesetting may be found at the Werner Icking Music Archive⁶. Support for users of MusiXTeX and related software may be obtained via the MusiXTeX mail list⁷. M-Tx may be freely copied, duplicated and used in conformance to the MIT License (see included file LICENSE).

⁶http://icking-music-archive.org

⁷http://tug.org/mailman/listinfo/tex-music