

Installation of the CTAN M-Tx Distribution

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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 TeX_U, 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.

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

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

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

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

3.1 Pre-Compiled Executables

On Windows systems, one can install `prepmx.exe` in the `Windows/32bit` or `Windows/64bit` 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/Intel 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 (`gcc`, `tar`, `gunzip`, `make`), you should be able to build the `prepmx` executable as follows:

1. Unpack the `mtx-0.62.tar.gz` archive:

```
tar zxvf mtx-0.62.tar.gz
```

and move to the resulting `mtx-0.62` 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`.

⁵<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 GNU General Public License (Version 2, 1991, see included file `gpl.txt`).

⁶<http://icking-music-archive.org>

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