

systems

The T_EXLive CDROM easy and fast installation

Wybo Dekker
wybo@servalys.hobby.nl

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abstract

Recently all **ntg** members received the latest T_EXLive **cdrom**. This article describes a quick and efficient method of installing the content of this T_EX repository. Since you can download the latest **cdrom** image via the internet, you can also use this method for occasional updates.

If you don't like to make decisions on how and where to install T_EX, you may like to run T_EX straight from the T_EXLive CDROM. If you do so, you have everything there is, but your system will be rather slow.

If you use a Unix operating system, you can use the following script, which provides you with a running system with a minimum of decisions, given that you can afford to create a 680MB file somewhere and have the T_EXLive cdrom in your CDROM drive. You must be root to run this script. On my system (223 MHz, 192Mb) this script took 9 minutes to complete. But,

- you'll probably want to run `texconfig`;
- users who throw `/etc/profile`'s `PATH` setting away will have to take care to include `/texlive/bin/i386-linux` explicitly in their `PATH`;
- the `bs=64M` may be too large if you have not at least that much RAM (use about half your RAM size);
- you may have to replace `/etc/profile` and `i386-linux` with values appropriate for your system;
- as far as I know, similar tricks cannot be done on winxx systems.

The script is as follows:

```
# set your system info:
PROFILE=/etc/profile.local
OS=i386-linux
HALFRAM=64M
# directory with enough space
```

```
SPACYDIR=/space
# copy the cd-image to a file
dd if=/dev/cdrom of=${SPACYDIR}/texlive \
  bs=$HALFRAM
# create a mount point:
mkdir -p /texlive
# add an entry to the file system table:
echo $SPACYDIR/texlive /texlive iso9660 \
  loop=/dev/loop3 0 0 >>/etc/fstab
# mount the new filesystem:
mount /texlive
# create a local tex-tree:
mkdir -p /usr/TeX.local/web2c
chmod a+r /usr/TeX.local
# set global environment variables:
cat <<EOF>>$PROFILE
export VARTEXMF=/usr/TeX.local
export PATH=/texlive/bin/$OS:\$PATH
export MANPATH=/texlive/man:$MANPATH
export TEXMFCNF=/usr/TeX.local/web2c
EOF
# activate those for current session:
. $PROFILE
# correct texmf.cnf:
CNF=$TEXMFCNF/texmf.cnf
cp /texlive/texmf/web2c/texmf.cnf $CNF
grep "% more mem for context" $CNF ||
cat << EOF >> $CNF
% more mem for context and mf:
main_memory.context      = 1500000
hash_extra.context       = 50000
pool_size.context        = 1000000
string_vacancies.context = 90000
max_strings.context      = 100000
pool_free.context        = 47500
nest_size.context        = 500
```

```
param_size.context      =    5000      # let tex know where everything is:
save_size.context       =   50000
stack_size.context      =   10000
obj_tab_size.context    =  200000
main_memory.mf          =  800000
EOF                      # generate formats for context:
                        # texexec --make en nl
```