

T_EX Live 2011



T_EX Live 2011 and some possible extensions to the T_EX Live Manager

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- ▶ very calm release, not much new
- ▶ Mac OSX binaries only work on Leopard and upward
- ▶ biber inclusion
- ▶ metapost does not need memory dump (.mem) anymore
- ▶ updmap perl implementation was extended and is now used on all platforms (before only Windows)

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ptexlive

- ▶ merged in 2010: p**tex*, pbibtex, pdvitype, mendex, makejvf, pptotf, ptftopl, fonts, jsclasses
- ▶ during 2011 and afterwards: ep*, several bug fixes to ptex engine

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ptexlive outlook

- ▶ already merged in dev version: (e)uptex
- ▶ missing pieces:
 - ▶ updmap: rewritten in perl, kanjimap support missing
 - ▶ various packages
 - ▶ programs: pxdvi,...
 - ▶ ... see below ...

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Current projects, or extensions to T_EX Live Manager

- ▶ User mode
- ▶ Multiple repositories
- ▶ multi updmap

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User mode

Rationale

allow to manage an independent tree (like TEXMFHOME) with tlmgr

background: system installation that is not complete or is not updated

Implementation status

preliminary patch is here, most actions that are relevant are supported (install, remove of packages)

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Demo

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Demo

Open problems

- ▶ testing ...
- ▶ checks between system and user packages?
- ▶ actually necessary???

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Multiple repositories

Rationale

- ▶ during the time many alternative repositories have sprung into existence (e.g., tlcontrib, tlcritical).
- ▶ ability to draw from these repositories in parallel is asked for



Multiple repositories - implementation

- ▶ tlpdb can be virtual acting as a cover for different tlpdb's (why? keep changes to tlmgr minimal)
- ▶ allow adding/removing real databases to virtual databases
- ▶ pinning (see below)
- ▶ minimal changes to tlmgr code base

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Pinning

- ▶ every package is unless specified otherwise pinned to the main repository
- ▶ pinning file is in `TEXMFLOCAL/tlpkg/pinning.txt`
- ▶ a line in the pinning file looks like
`repo:pkgglob[,pkgglob]`
- ▶ `repo` is either the full URL, or the *tag* that was given for that repo when adding it
- ▶ `pkgglob` is a glob style pattern that must match a package

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```
tlcontrib:*  
tlmulti:texlive.infra*
```

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DEMO

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DEMO

Howto or what we should get soon

```
tlmgr --repo http://www.tug.org/~preining/tlmulti update --self
tlmgr repository add http://www.tug.org/~preining/tlmulti tlmulti
tlmgr repository add http://some.where/ptexlive/2011 ptexlive
echo "ptexlive:*" > $TEXMFLOCAL/tlpkg/pinning.txt
echo "tlmulti:texlive.infra*" >> $TEXMFLOCAL/tlpkg/pinning.txt
tlmgr install pxdvi
```



updmap – history and current status

- ▶ original script in sh from Thomas Esser, got very slow with growing amount of fonts and maps
- ▶ perl variant from Fabrice Popineau for Windows, much faster
- ▶ Reinhard Kotucha adapted the perl script so that it runs on all supported platforms
- ▶ T_EX Live 2011 uses the perl variant everywhere



multi updmap – what and why

currently only reads one `updmap.cfg`, which means that this one has to contain all the map statements, system and local.

multi updmap would read *all* the `updmap.cfg` files

- ▶ easier integration of new fonts
- ▶ separation of `updmap.cfg` files between the trees, each tree has exactly one describing the fonts available there



multi updmap – implementation status

- ▶ finished, but extensive testing by now
- ▶ only limited documentation by now (as it was always)
- ▶ integration into T_EX Live needs some work (tlmgr interface, documentation, user descriptions)
- ▶ timeline: soon we ship it as `mupdmap` and work on the integration, maybe for 2012 it will replace the current `updmap`.

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Wishlist

If you have anything you wish for T_EX Live
now is the time to ask!

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Thanks