

T_EX Live 2022



T_EX Live 2021/2 Status Update

Norbert Preining

Mercari, Inc., Japan and T_EX Live Team

TUG 2022, online

2022-07-23

T_EX Live 2022



T_EX Live News

T_EX Live 2022



T_EX Live News

Nothing new!

T_EX Live 2022



T_EX Live News

Nothing new!

Thanks for your attention.

T_EX Live 2022



T_EX Live Status Update

T_EX Live 2021

- ▶ better logging of sub-commands

T_EX Live 2022



T_EX Live Status Update

T_EX Live 2021

- ▶ better logging of sub-commands

T_EX Live 2022

- ▶ `https` support for CTAN
- ▶ various fixes around SSL support
- ▶ fixes for shoot-your-self-Apple
- ▶ installation improvements

T_EX Live 2022



T_EX Live Status Update

T_EX Live 2021

- ▶ better logging of sub-commands

T_EX Live 2022

- ▶ `https` support for CTAN
- ▶ various fixes around SSL support
- ▶ fixes for shoot-your-self-Apple
- ▶ installation improvements

Future

- ▶ 32bit versus 64bit Windows
- ▶ better handling of open files on Windows

T_EX Live 2022



Better logging of sub-commands

Full logging of sub-commands (`fmtutil`, `updmap` etc) into

`TEXMFSYSVAR/web2c/tlmgr-commands.log`

parallel to `tlmgr.log`.

T_EX Live 2022



The https pain

First of all — no added security for us, since we already do proper verification



The https pain

First of all — no added security for us, since we already do proper verification

Redirects between http/https and mirrors didn't work properly due to browser restrictions



The https pain

First of all — no added security for us, since we already do proper verification

Redirects between http/https and mirrors didn't work properly due to browser restrictions

CTAN provided a https based mirroring - which we support now in T_EX Live.

But ... getting certificates right is a pain:

- ▶ wget and curl behave differently wrt certificates and inconsistencies
- ▶ Apple's system certificate store is a mess and doesn't work with standard (new) Lets Encrypt certificates



The https pain (2)

Consequences:

- ▶ switch to curl as default
- ▶ ship our own certificate file to make MacOS users happy



Better installation

Who hasn't seen the following:

- ▶ install T_EX Live over the internet
- ▶ installation proceeds to 80% in 2h
- ▶ error during download, installation failed
- ▶ need to restart from zero

T_EX Live 2022



Can we do better?



Better installation

Turned out we can by changing the installation order

- ▶ first install only core infra packages
- ▶ if that fails, terminate the installation (needs restart, but very early)
- ▶ if that succeeds, install the rest of the packages
- ▶ if there is an error, put the package in the retry queue
- ▶ after all packages are installed, retry packages from the retry queue
- ▶ ignore and warn only about failures to install some packages
- ▶ can afterwards be fixed with
`tlmgr update --all --reinstall-forcibly-removed`

T_EX Live 2022



Work in progress

32 versus 64bit Windows

Open files in Windows



32 versus 64 bit Windows

What is the problem?

- ▶ I don't know
- ▶ Many people ask for 64bit Windows
- ▶ CJK countries ...



32 versus 64 bit Windows

What is the problem?

- ▶ I don't know
- ▶ Many people ask for 64bit Windows
- ▶ CJK countries ...
- ▶ ... well ...



32 versus 64 bit Windows

What is the problem?

- ▶ I don't know
- ▶ Many people ask for 64bit Windows
- ▶ CJK countries ...
- ▶ ... well ... shouldn't be so difficult, we do support 32/64 bit for various Unix architectures, or?



32 versus 64 bit Windows

What is the problem?

- ▶ I don't know
- ▶ Many people ask for 64bit Windows
- ▶ CJK countries ...
- ▶ ... well ... shouldn't be so difficult, we do support 32/64 bit for various Unix architectures, or?
- ▶ Unfortunately ... no ...

T_EX Live 2022



Me after the 5th rewrite



T_EX Live 2022



What is the problem?

Huge amount of special cases for Windows, practically everywhere ...

T_EX Live 2022



What is the problem?

Huge amount of special cases for Windows, practically everywhere ...

Quick grep brought up about 200 occurrences, each one needing special consideration (should the same be done fore 32/64? different things?).

Plus testing ... plus running 32bit on 64bit Windows ... plus plus plus

T_EX Live 2022



Outlook for T_EX Live 2023 (?)

- ▶ 32bit Windows will be dropped
- ▶ standard installation on Windows will be 64bit

T_EX Live 2022



Outlook for T_EX Live 2023 (?)

- ▶ 32bit Windows will be dropped
- ▶ standard installation on Windows will be 64bit
- ▶ (and feeling sorry for old computer users)



Better dealing with open files on Windows

Problem

PDF document open in Acrobat Reader while `tlmgr` tries to update
Outcome?



Better dealing with open files on Windows

Problem

PDF document open in Acrobat Reader while `tlmgr` tries to update
Outcome?

- ▶ update fails
- ▶ revert back to original also fails



Better dealing with open files on Windows

Problem

PDF document open in Acrobat Reader while `tlmgr` tries to update
Outcome?

- ▶ update fails
- ▶ revert back to original also fails

Planned to check all files to be updated whether they are opened, and do not try to update those packages.

T_EX Live 2022



Closing

Any wishes and requests?

T_EX Live 2022



Closing

Any wishes and requests?

Thanks