\textbf{T\TeX{} Live 2021/2 Status Update}

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TUG 2022, online \hspace{1cm} 2022-07-23
TeX Live News

Nothing new!

Thanks for your attention.
TEX Live News

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TEX Live Status Update

TEX Live 2021
  ▶ better logging of sub-commands
TEX Live Status Update

TEX Live 2021

- better logging of sub-commands

TEX Live 2022

- https support for CTAN
- various fixes around SSL support
- fixes for shoot-your-self-Apple
- installation improvements
TeX Live Status Update

TeX Live 2021
- better logging of sub-commands

TeX Live 2022
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Future
- 32bit versus 64bit Windows
- better handling of open files on Windows
Better logging of sub-commands

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

TEXMFSYSVAR/web2c/tlmgr-commands.log

parallel to tlmgr.log.
The https pain

First of all — no added security for us, since we already do proper verification
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Redirects between http/https and mirrors didn’t work properly due to browser restrictions
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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 TeX 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 \TeX\ Live over the internet
- installation proceeds to 80% in 2h
- error during download, installation failed
- need to restart from zero
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`
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

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- Many people ask for 64 bit Windows
- CJK countries …
- … well … shouldn’t be so difficult, we do support 32/64 bit for various Unix architectures, or?
- Unfortunately ... no ...
Me after the 5th rewrite
What is the problem?

Huge amount of special cases for Windows, practically everywhere …
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
Outlook for \TeX\ Live 2023 (?)

- 32bit Windows will be dropped
- standard installation on Windows will be 64bit
Outlook for \TeX\ Live 2023 (?)

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- 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

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Outcome?
- update fails
- revert back to original also fails
Better dealing with open files on Windows

Problem
PDF document open in Acrobat Reader while \texttt{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.
Closing

Any wishes and requests?
Closing

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Thanks