

---

**T<sub>E</sub>X Live 2022 news**

Karl Berry

T<sub>E</sub>X Live 2022 was released online on April 3, 2020. The T<sub>E</sub>X Collection DVD is in process.

As new versions of packages are uploaded to CTAN, they are imported into TL, and available over the Internet via the `tlmgr` program. See the TL web site and documentation for more.

The major update in 2022 is HiT<sub>E</sub>X, the new T<sub>E</sub>X engine by Martin Ruckert. It generates its own HINT output format, intended for use on mobile devices. Martin has written a manual and several articles about the project; see [ctan.org/pkg/hitex](https://ctan.org/pkg/hitex) for links.

As always, in this year's release there are also pervasive updates to hundreds of packages and programs. For a list of major changes, please see [tug.org/texlive/bugs.html](https://tug.org/texlive/bugs.html). For this note, I wanted to summarize some of the known problems in current TL; the same web page has more details.

**Windows binaries** in TL'22 are still 32-bit. We expect to switch to 64-bit binaries for Windows in 2023, and we cannot provide both simultaneously — so be forewarned.

**LuaT<sub>E</sub>X**, unlike all other engines, does not look in a given `-output-directory` for input files. We expect this to be fixed for next year.

**Some Lua-related formats are unsharable.** The LuaL<sub>A</sub>T<sub>E</sub>X, ConT<sub>E</sub>Xt, and OpT<sub>E</sub>X `.fmt` files cannot be shared across different architectures (32-bit/64-bit and/or BigEndian/LittleEndian). This is not new this year, but was only discovered and reported relatively recently. No decision has been made about changing this for LuaL<sub>A</sub>T<sub>E</sub>X; ConT<sub>E</sub>Xt and OpT<sub>E</sub>X are not expected to ever change this, by decision of their authors.

**On macOS Monterey 12** (the latest release at this writing), `install-tl` comes up as a black window, due to Apple's intentional breakage of the `wish` program (Tcl/Tk). The solution, other than installing a working Tcl/Tk, is to run `install-tl -gui text`, which is now (post-release) the default.

**On Windows, `install-tl`** may output the cryptic message `fail bad gmtime` (repeatedly). It's annoying but harmless; just ignore it. A fix is in the works.

◇ Karl Berry  
karl (at) freefriends dot org  
<https://tug.org/texlive>