

Welcome

This is a follow up on the Lua_T_EX project by Hartmut Henkel, Taco Hoekwater, Hans Hagen en Luigi Scarso and friends, a project related to the Con_T_EXt macro package. The Lua_T_EX functionality became stable around version 1.10 and because the engine is also used outside Con_T_EXt, a follow up happens in another namespace. This version is a stripped down variant and is mostly meant for Con_T_EXt. Some interfaces have been adapted a bit and the expectation is that we will polish things more.

The source code is part of the Con_T_EXt distribution and compilation is driven by cmake instead of autotools. By keeping the code with Con_T_EXt code, consistency is guaranteed: one can always generate the binary that relates to the functionality expected. There are no dependencies on other code: all is self contained.

The work name of this follow up is LuaMeta_T_EX which can be seen as Lua_T_EX 2.0 or higher. Of course Con_T_EXt runs on top of Lua_T_EX, but a variant, tagged lmtx runs on LuaMeta_T_EX. One of the main ideas behind this project is that it guarantees the integrity of Con_T_EXt and the used engine and that we stick to the principles of a lean and mean engine.

If you install a new binary for Con_T_EXt the following is the intended use:

```
tex/texmf-platform/bin/luametatex[.exe]
tex/texmf-platform/bin/mtxrun           -> luametatex[.exe]
tex/texmf-platform/bin/context         -> luametatex[.exe]
tex/texmf-platform/bin/mtxrun.lua
tex/texmf-platform/bin/context.lua
```

The binary is rather small so having a few copies (or links) is no problem. The mtxrun and context stubs will launch LuaMeta_T_EX. No extra programs are needed.

The files in this source tree cannot be dropped into the Lua_T_EX source tree: they are different in many aspects. Although much has been done the codebase will be stepwise cleaned up further and more documentation will be added. Background information on how we came to this can be found in the Con_T_EXt distribution, for instance in the followingup.pdf document.

In addition to the names mentioned above I want to stress that other Con_T_EXt developers are involved. For instance Mojca Miklavc manages compilation on the build farm and deals with the installer at the contextgarden. Without Alan Braslau and Wolfgang Schuster as conceptual sparing partners there would be no LuaMeta_T_EX. Torture testing by users like Thomas Schmitz and Aditya Mahajan who mix _T_EX, xml, Lua, pdf, and other functionality is instrumental. I can mention more names, but it must be clear that what keeps me going in doing this comes from the Con_T_EXt community.

The work is far from finished. It's a stepwise process of going lean and mean, reshuffling code, checking things out. Take into account that we want to remain compatible as much as possible with stock _T_EX, which includes the original documentation (and therefore naming of variables). It will always be a mix of "What we started with.", How it became. and How it should be now.: a rather hybrid evolution of one of the oldest public programs out there.

As mentioned the code is part of the Con_T_EXt distribution. We'll try to prevent pollution and bloating of the code base as much as possible, also because that way we get independent snapshots.

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