



PyCool on ROOT6 status report

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Thanks to Axel, Benedikt, Danilo, Fons, Marco, Philippe, Wim...!

ROOT6 planning meeting

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Progress this week (since Wed 13th)

- Fixed: no more “JIT does not support inline ASM”
 - Rebuilt Boost with one more patch identified using strace
 - Reviewed status of all PyCool tests after applying this fix
- Removed old pending issues, added new ones
 - New: unresolved template parameters
 - Fixed: CMT config to compile PyCool dict with c++11
 - Fixed: PyCool vector payload issues with ROOT6
 - Fixed in ROOT: methods within nested namespaces
 - Clarified: header lookup path for JIT

Summary of pending issues

- Blocker: JIT does not support inline ASM ([bug #102771](#))
 - Workaround (new Boost) crashes in LHCb ([ROOT-5623](#), [ROOT-5699](#))
- Blocker: unresolved template parameters ([ROOT-5711](#))
- Blocker: crashes and glibc memory corruptions ([ROOT-5643](#))
- High: typedef'd constants in namespace ([ROOT-5658?](#))
- High: problem with isinstance ([ROOT-5718](#))
- High: c++ exception propagation to Python ([ROOT-5603](#))
- Medium: assertions if LLVMDEV is enabled ([ROOT-5697](#))
- Low: why ROOT_INCLUDE_PATH in LCGCMT? ([ROOT-5623](#))

Testing PyCool on the “test” slot

- Two differences in “test” with respect to “dev2”:
 - 1. Use ASM-free Boost in “test”: needed by PyCool
 - Otherwise “JIT does not support inline ASM” errors
 - Use standard Boost in “dev2”: ASM-free Boost crashes in LHCb
 - 2. Use ROOT_INCLUDE_PATH unset in “test”: why?
 - Days ago I thought this should be set for PyCool, now not sure
 - *Not clear to me at this point which setting is better for PyCool...*
- A third difference was removed on Monday
 - 3. Use LLVMDEV disabled in “test”: needed by PyCool
 - Otherwise get a “Tok assertion” that still needs to be debugged
 - LLVMDEV was enabled in “dev2” instead, but it is now disabled too