

Acquisition Software

Status overview - September 22, 2020

Reminder: June 23 goals

- Katherine Timepix3 acquisition:
 - GUI to control acquisition, view and store results
 - Energy calibration, timewalk correction and clustering
 - Support for all modes of TPX3 (ToA & ToT, ToA only, Event count & iToT)
- Framework goals:
 - Live preview window
 - Save data to file as hits or clusters in text or binary format (MM format)
 - Reading / saving of configuration (incl. copying of Burdaman settings)

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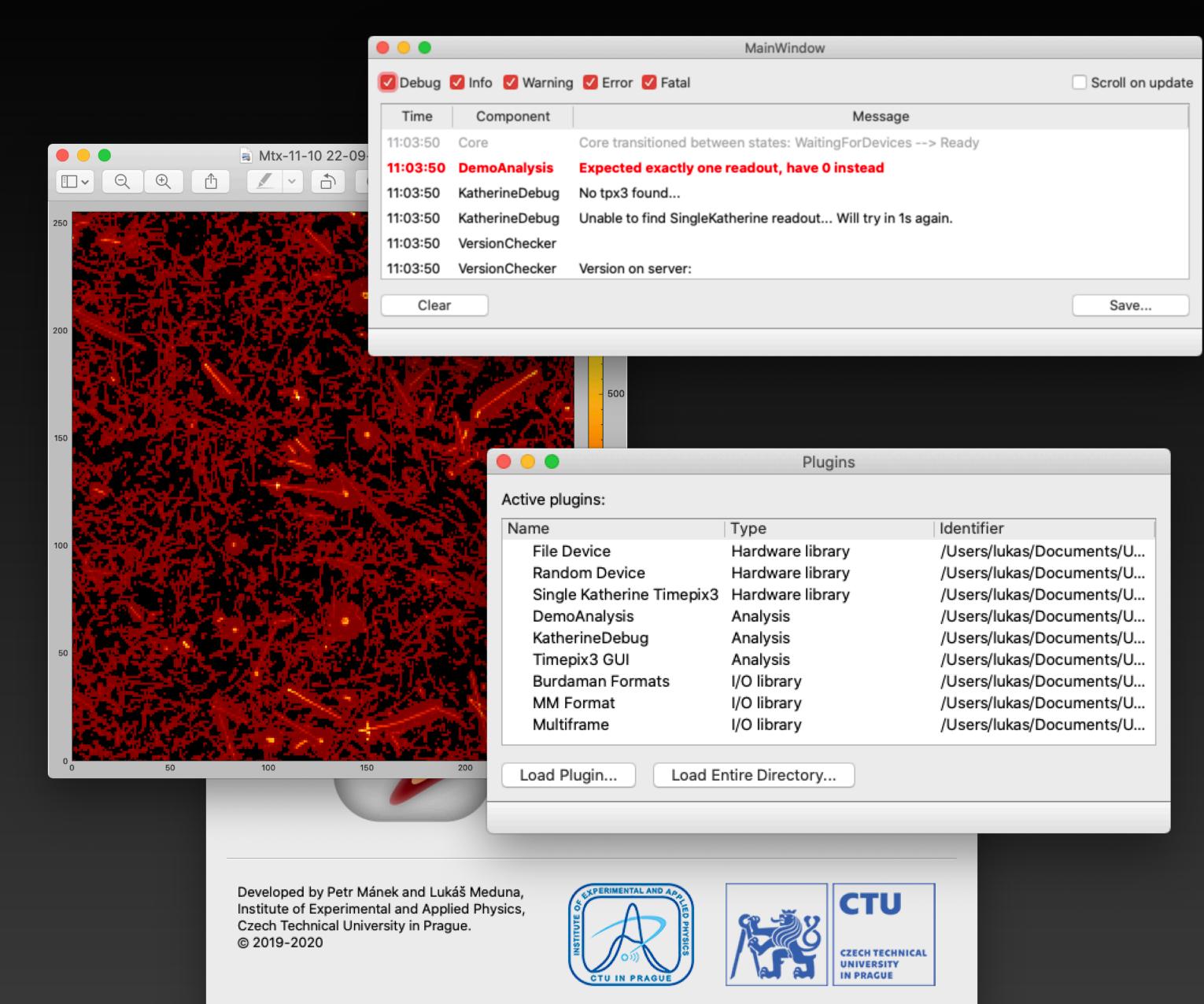
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Current state

- Katherine + Timepix3 HWlib is functional for ToA & ToT mode
- Timepix3 file device HWlib is working (reads data from files)
 - Support for: Burda format (incl. measurement info), MM Format, Multi-frame
 - Recognition of input format (fully automated)
- Random data simulator
- Multiplatform deployment tested and working (macOS, Linux, Windows)

Current state

- GUI parts are developed
 - Debug window
 - Plugins
 - Logs
 - About
 - Integrate window
 - Connected devices overview



Name? Icon?





MM Track Lab™

Beyond the pixels ...

Next steps

- GUI to control acquisition, view and store results
- Support for all modes of TPX3 (ToA & ToT, ToA only, Event count & iToT)
- Support legacy files (Cluster-Viewer)
- Polish and complete GUI
- Test and validate

Next presentation? First testing version 🚀

Questions? Suggestions?

We appreciate your feedback

Thank you for listening!