2024-07-08 | **LFE EVerest Working Group: Framework & Tools**

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EVerest   **Learn more here https://everest.github.io**

Agenda

1. **Framework & Tools Update**
2. Working Group Topics
3. **Other Community Topics Channels**
   3.1. Dedicated mailing list topics
   3.2. **Dedicated open github issues / PRs**
   3.3. **Open Mic**

What is EVerest? Watch here:

Framework & Tools Update

- **Error Framework (C++ and Rust)**
  - Rust: https://github.com/EVerest/everest-framework/issues/175
  - This one here is probably solved:
    https://github.com/EVerest/everest-framework/issues/156

- **Enable Compile Warnings**
  https://github.com/EVerest/everest-core/pull/728

- **edm install on the fly**
  https://github.com/EVerest/everest-core/pull/756

- **Further work-in-progress topics:**
  - **Proper termination of EVerest modules**
    Stage is yours, Kai …

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Proper termination of EVerest modules

at the moment **init()** and **ready()** handlers

soon: (optional) **shutdown()** handler

shutdown() handler

- invoked when the manager decides to shutdown the whole system
- gives the module time to cleanup after itself (stop threads)
- when this returns:
  - manager sees that module shutdown correctly

Proper termination of EVerest modules

Problem: shutting down a module before it could return a cmd result

- This leads to the calling module potentially "hanging" for a long time before it will crash with an EverestTimeoutError exception

Possible solutions:

1. Check periodically if shutting down and throw a EverestShuttingDown exception that the calling module can catch
2. Add a new (async) call() method with Result and Error callbacks
3. Alternatively add a new std::expected (sync) call() method to check for errors

Working Group Topics

Working Group Topics

- **Open tasks from last working group session**

  - Best practice docs when changing types / interfaces
    WIP - issue created: https://github.com/EVerest/EVerest/issues/149

  - Improve ev-cli to give feedback to user and way to proceed (Evgeny)

  - Improve ev-cli docs (based on ev-cli help cmd) (Manuel)
    WIP

  - Add tutorial about out-of-tree module dev (Kai has some example module)
    - will be released soon

Community Area

- **Human readable summary of release info**
  https://github.com/EVerest/EVerest/pull/179

- **Next working group on July 22nd.**

- **Community feedback - see following slide.**

Community: Feedback Appreciated

We would love to learn about your experiences with reaching information and documentation about EVerest.

Also how the current community channels work for you.

See this link (also posted in mailing list / Zulip:
https://forms.gle/bTMsVdjGmVFPhb73A

Getting involved in the community

In which of the following activities have you already been involved in the EVerest project?

	Regularly	Sometimes	Once or twice	Never but would know how.	No and do not know how.
Read/write in main mailing list	○	○	●	○	○
Read in announcement mailing list	○	○	○	○	●
Read docs on everest.github.io	●	○	○	○	○

Open Mic

- …