

Device error handling in ChimeraTK

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ChimeraTK is a tool kit to write application servers for control systems.

When integrating the devices into a control system, the device servers usually contain a large fraction of error handling code. Many of these errors are runtime errors which occur when communicating with the hardware, and have similar handling strategies.

We report how ChimeraTK introduces a standardized way to raise and report errors, and to do the re-initialization when recovering from an error. All this is handled in the framework, which significantly simplifies the business logic because it is not mixed with error handling code any more.

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