

Trip Event Logger - Fault Analysis and HPC

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The Trip Event Logger is a fault diagnosis tool to detect errors, inform the operators and trigger automatic supervisory actions. Further goals are to provide information for a fault tree and event tree analysis as well as a database of labeled faulty data sets for offline analysis. The tool is based on the C++ framework ChimeraTK Application Core. With this close interconnection to the control system it is possible not only to monitor but also to intervene as it is of great importance for supervisory tasks. The core of the tool are the fault analysis modules ranging from simple ones (e.g., limit checking) to advanced ones (model-based, machine learning, etc.).

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