

Master's Thesis

Static Code Analysis with C++

The tool "TUM-STAR" developed at the EDA chair is able to statically analyze source code and binary code to find a mapping between them. This is further used for the automatic annotation of source code to drive timing analysis in host-code execution. The tool is written in Python and uses various libraries and parts implemented in C++.

In this thesis, the task would be to re-build the core tool in C++ to make better use of its dependencies and enable to integrate new dependencies effortlessly.

Part of this thesis would also be the integration of a novel mapping technique and improve the evaluation of the mapping methods.

Prerequisites

- Being able to work independently
- Experience building larger C++ projects

Advisors

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