

High-Performance Function Extraction System

Disclosure Number

201102751

Technology Summary

Disclosed is a software method providing for a specialized library, PFX, to enable rapid conversion of the existing code base to concurrent code deployable on multiple target platforms and architectures. This library is designed to allow exploitation of the particular kind of parallelism found during FX analysis - "branch and bound" parallelism. Exploiting ORNL's leadership position in automated analysis of compiled software and high-performance computing, this technology enables new applications of at-scale and near-real-time direct static analysis of the full semantics of compiled computer software.

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