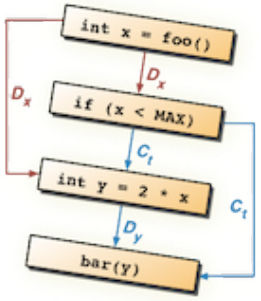
Joern

A Robust Code Analysis Platform for C/C++



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A Robust Code Analysis Platform for C/C++

Joern is a platform for robust analysis of C/C++ code. It generates *code property graphs*, a novel graph representation of code that exposes the code's syntax, control-flow, data-flow and type information. Code property graphs are stored in a Neo4J graph database. This allows code to be mined using search queries formulated in the graph traversal language Gremlin. In summary, Joern offers the following core features:

- **Fuzzy Parsing.** Joern employs a fuzzy C/C++ parser, allowing code to be imported even if a working build environment cannot be supplied.
- **Code Property Graphs.** Joern creates code property graphs from the fuzzy parser output and stores them in a Neo4J graph database. For background information on code property graphs, we strongly encourage you to read our paper on the topic.
- **Extensible Query Language.** Joern offers an extensible query language based on user-defined Gremlin steps that encode common traversals in the code property graph. These can be combined to create search queries easily.

Author of Joern

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