Open source programming language technology

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Two programming language open source projects

Boogie – an intermediate verification language
  Parser
  Type checker
  Translation into logics (primarily for SMT solvers)
  Inference mechanisms
  Verification debugger

Dafny – a programming language designed with reasoning in mind
  Parser
  Type checker
  Static verifier (translation to Boogie)
  Compiler
  IDE support with background on-the-fly verification and verification-result caching