



**SCHOOL OF COMPUTING**  
UNIVERSITY OF UTAH



**SOFTWARE ANALYSIS  
RESEARCH LABORATORY**

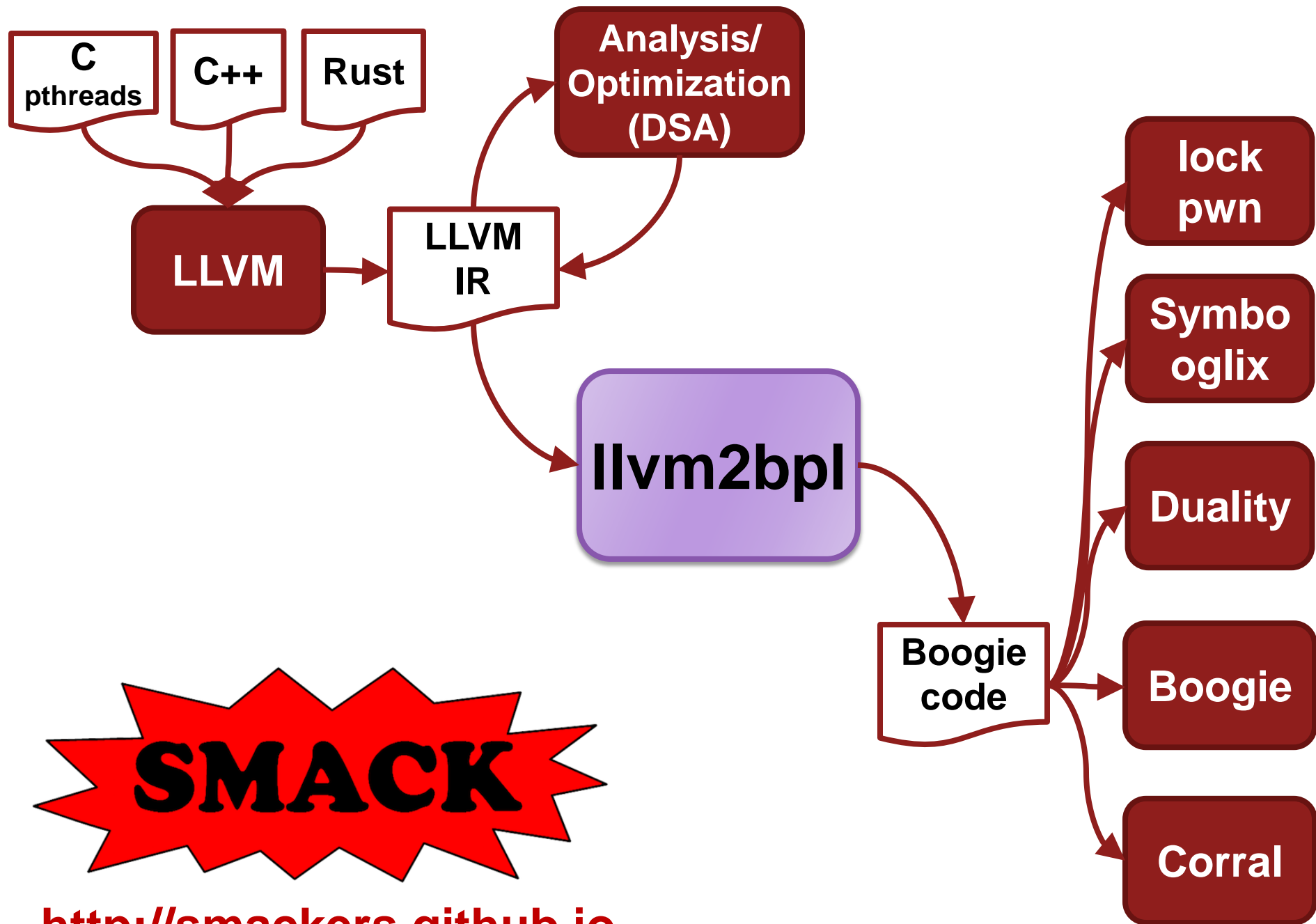
# **SMACK**

## **SOFTWARE VERIFICATION TOOLCHAIN**

**<http://smackers.github.io>**

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<http://smackers.github.io>

# FEATURES

- ▶ Enables fast verifier/language/translation prototyping
- ▶ Open source (documentation, simple installation)
- ▶ Translates large programs (100 KLOC of nasty C)
- ▶ Automatically checks assertions and memory safety
- ▶ Relatively easily plugs into existing build systems
- ▶ Supports concurrency (pthreads)
- ▶ Byte-precise memory modeling, on demand bit-vectors
- ▶ Preliminary support for floating-points
- ▶ Experimental support for deductive verification
  - ▶ Pre- and post-conditions, loop invariants

<http://smackers.github.io>