

Implementation

- Safe Circle:
“Mid-level-IR” borrow checker/lifetime analysis

• Unlike [feds](#) in [CC/C/MsVC](#)

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Parser

LLVM IR

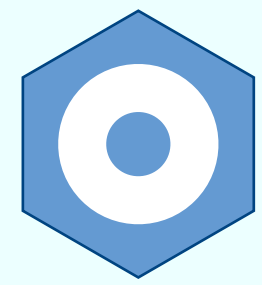
Assembly





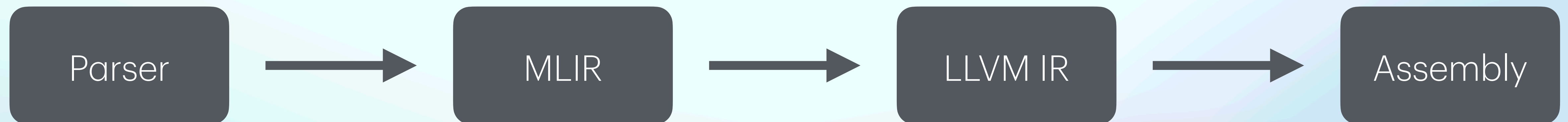


MLIR



Implementation

- Safe Circle:
“Mid-level-IR” borrow checker/lifetime analysis
- Unlikely feasible in Clang/GCC/MSVC



Type	Static type system
Bounds	Checked
Lifetime	Enforced borrow checker
Initialisation	Enforced
Arithmetic	Checked/defined
Thread	Enforced sync/send & BC
Definition	Modules