

What is LLVM

■ LLVM - Low Level Virtual Machine

LLVM - ~~Low Level Virtual Machine~~

■ LLVM - Compilation Infrastructure

LLVM - Compilation Infrastructure



Compilers

A vertical red line connects the title 'LLVM - Compilation Infrastructure' to the word 'Compilers'.

LLVM - Compilation Infrastructure



Compilers

LLVM - Compilation Infrastructure

Compilers



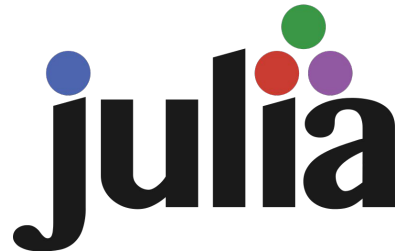
LLVM - Compilation Infrastructure

Compilers



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Compilers



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Compilers



LLVM - Compilation Infrastructure

2003



Chris Lattner

LLVM - Compilation Infrastructure

2003



Chris Lattner



Vikran Adve

2003



Chris Lattner



Vikram Adve

Chris Lattner, Vikram S. Adve

LLVM: A Compilation Framework for Lifelong Program Analysis & Transformation

CGO 2004: 75-88

■ LLVM - Compilation Infrastructure

LLVM - Compilation Infrastructure



Tools

LLVM - Compilation Infrastructure

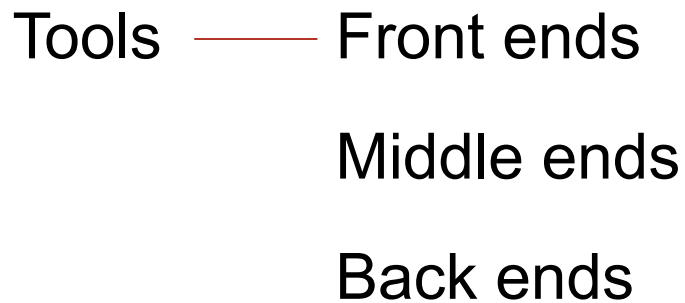
```
graph TD; A[ ] --- B[Tools]; A --- C[Front ends];
```

The diagram illustrates the LLVM compilation infrastructure. At the top, the title "LLVM - Compilation Infrastructure" is displayed. Below it, a vertical red line descends from the title. At the bottom of this line, the word "Tools" is positioned. To the right of "Tools", a horizontal red line connects to the words "Front ends".

LLVM - Compilation Infrastructure



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Intermediate Representation

LLVM - Compilation Infrastructure

Front end

Middle end

Back end

LLVM - Compilation Infrastructure

Front end

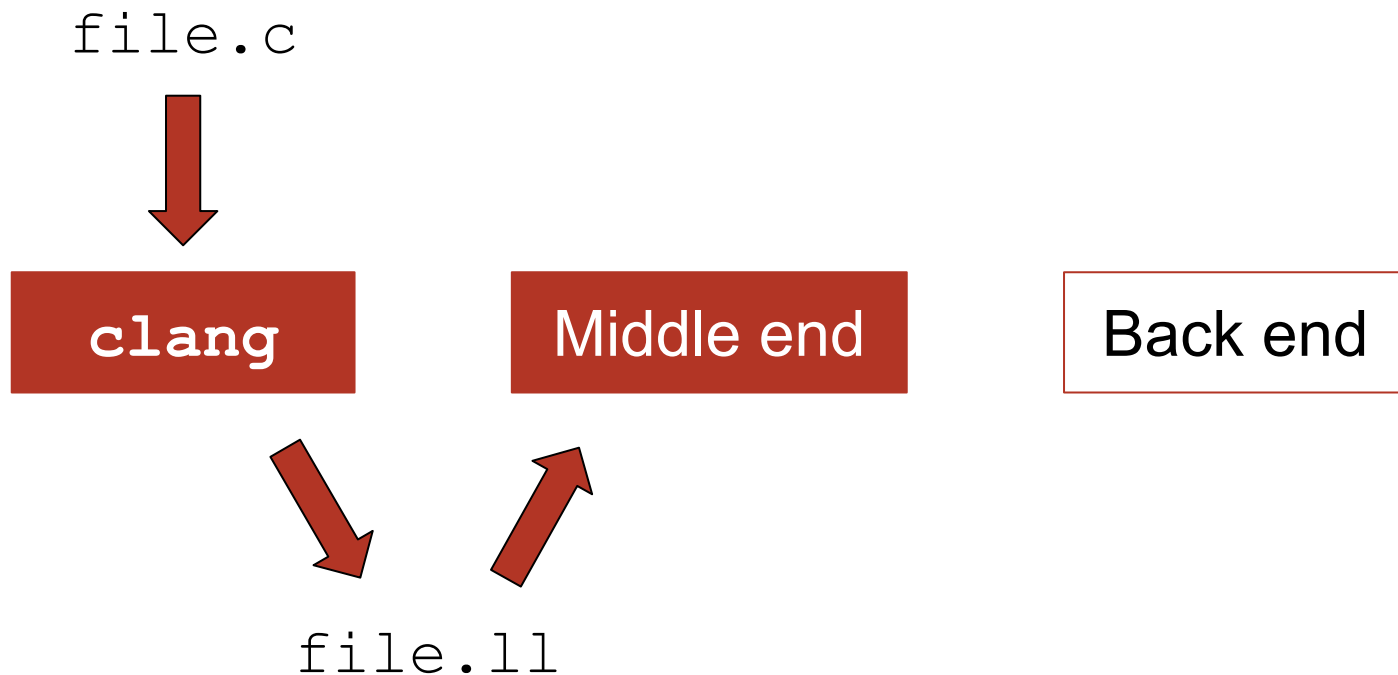
Middle end

Back end

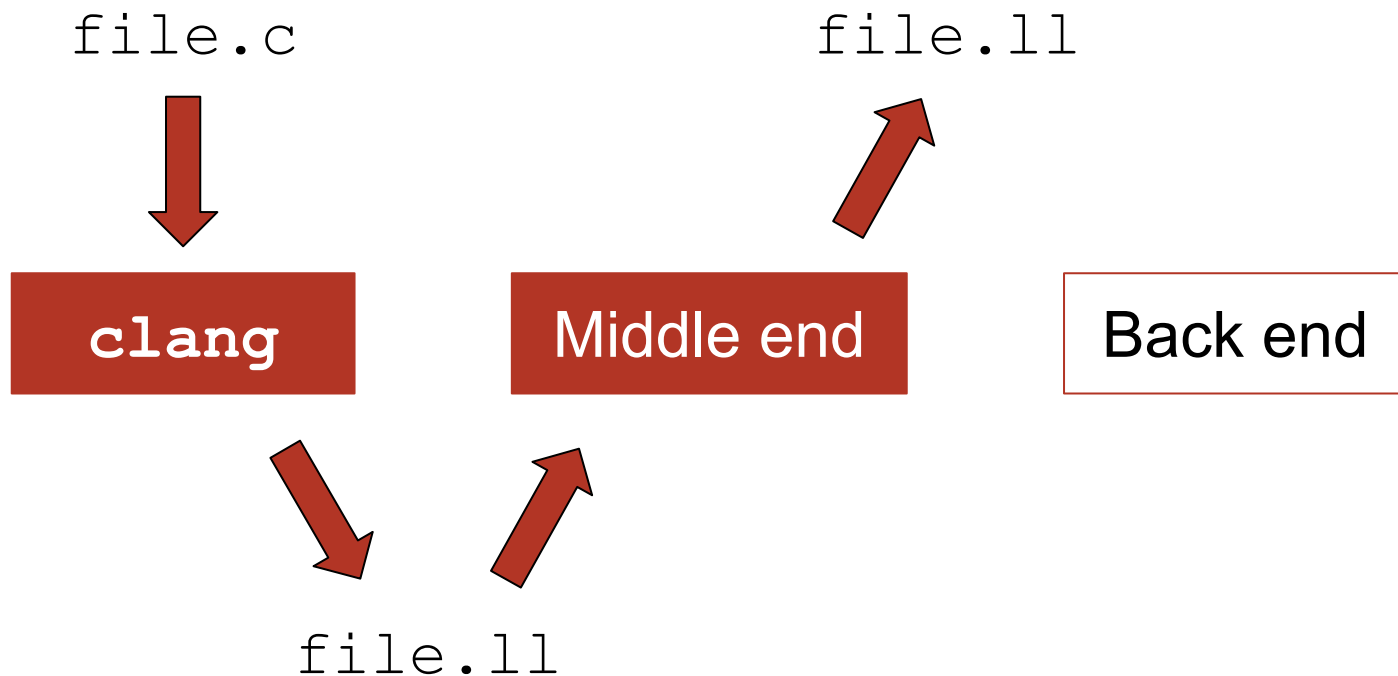
LLVM - Compilation Infrastructure



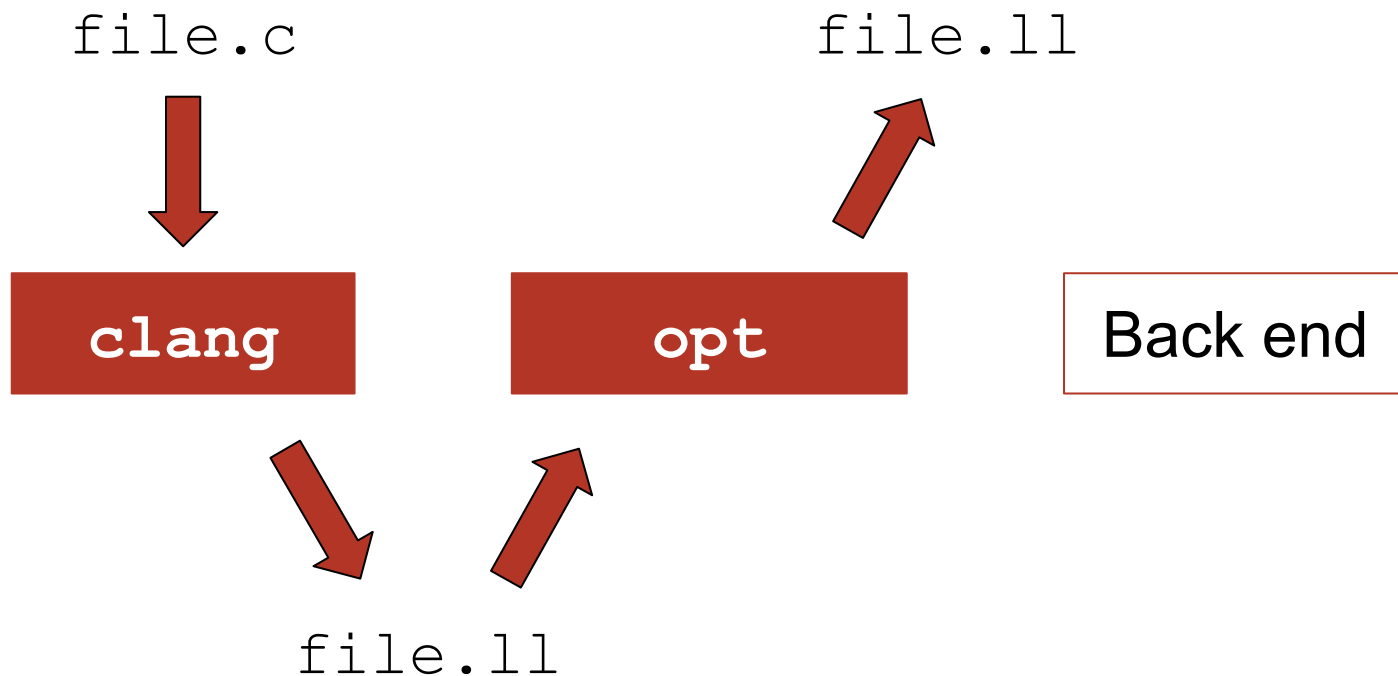
LLVM - Compilation Infrastructure



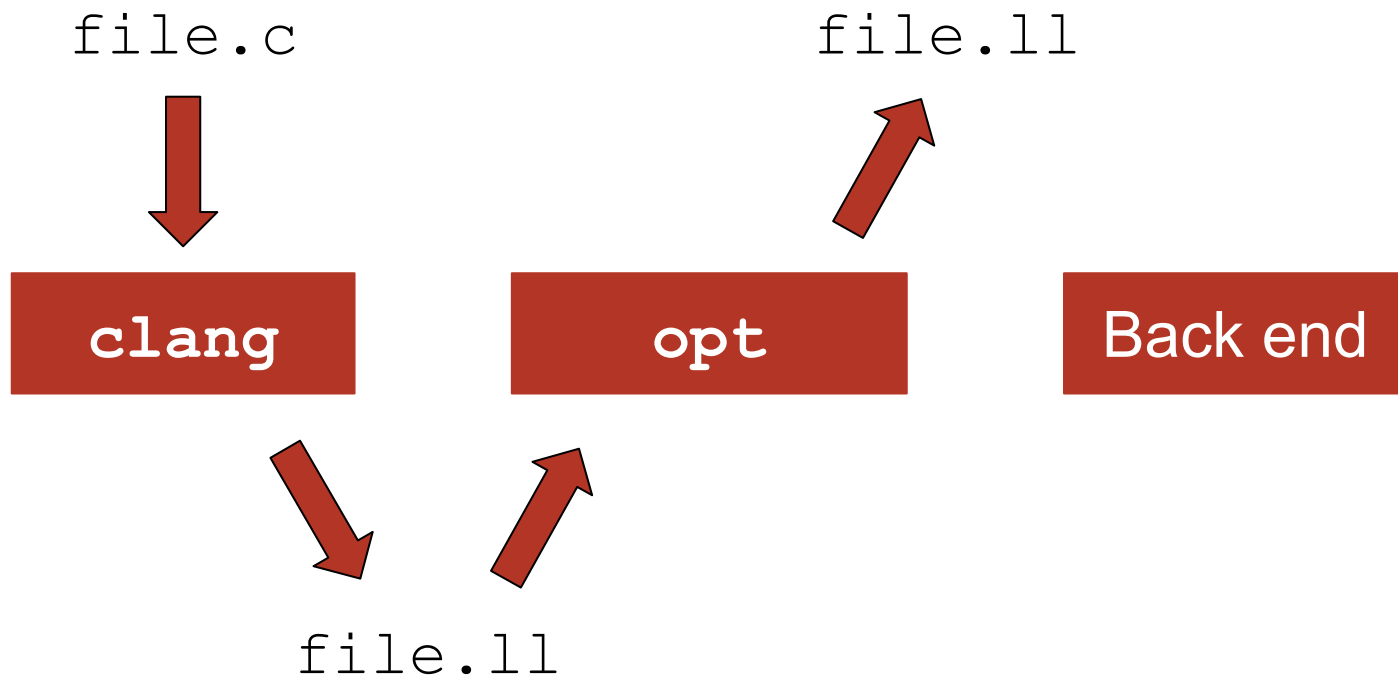
LLVM - Compilation Infrastructure

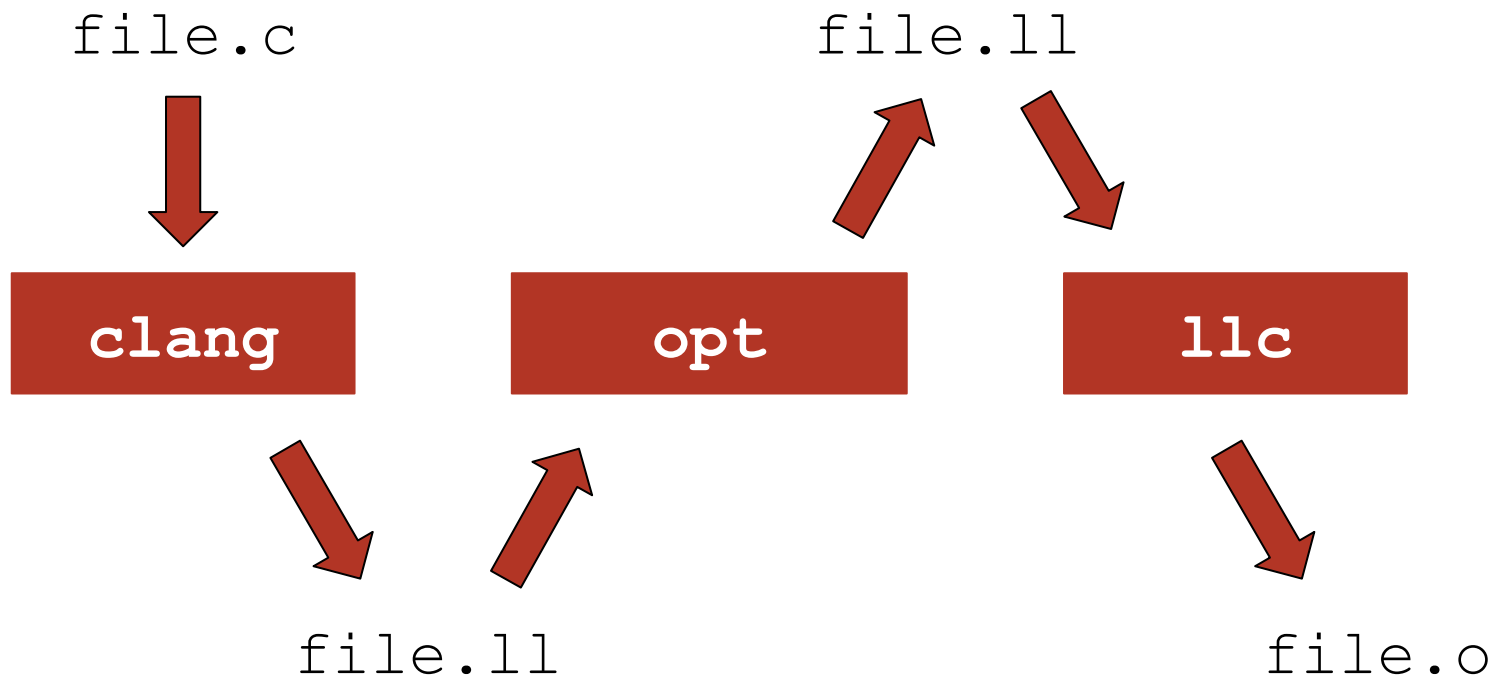


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Contact & References



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References

<https://en.wikipedia.org/wiki/LLVM>