



Compilers

Introduction

- Compilers
- Interpreters

- 1954 IBM develops the 704
 - Successor to the 701



- “Speedcoding”



John Backus

- FORTRAN I



John Backus

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- The first compiler
 - Huge impact on computer science
- Led to an enormous body of theoretical work
- Modern compilers preserve the outline of FORTRAN I

1. Lexical Analysis
2. Parsing
3. Semantic Analysis
4. Optimization
5. Code Generation