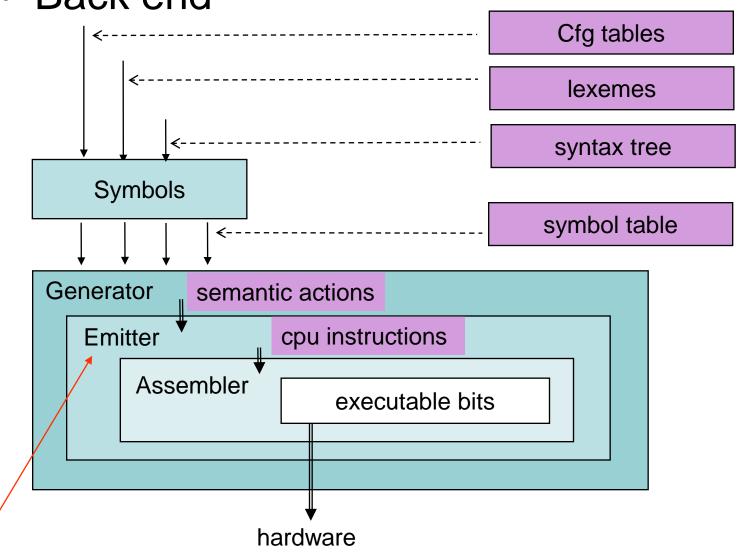
Back end



- Expression Actions
  - var(tok)
  - expr0(rule, tok)
  - expr1(rule, opd)
  - expr2(rule, left, right)

- Expression Actions
  - var(tok)
  - expr0(rule, tok)
  - expr1(rule, opd)
  - expr2(rule, left, right)
  - arithAbort(rule, tok)
- Assignment Actions
  - store
  - call

- Expression Actions
- Assignment Actions
- Control Actions
  - guard end
  - alt end
  - if-fi end
  - if-fi abort
  - do-od begin
  - do-od end

- Emitter
  - Expression Actions
  - Assignment Actions
  - Control Actions
  - Linkage
    - prolog/epilog

- Expression Actions
- Assignment Actions
- Control Actions
- Linkage
- Operands
  - Tags A L S M X R D F

- Expression Actions
- Assignment Actions
- Control Actions
- Linkage
- Operands
- Run Errors
  - precompute message
  - remember number
  - bailout

 Back end Cfg tables lexemes syntax tree **Symbols** symbol table Generator semantic actions **Emitter** cpu instructions Assembler executable bits hardware

- Generator
  - genWalk()
    - stmtWalk(n)
      - stmtWalk(n) (recursive)
      - selectionWalk(n)
        - » altsWalk(n)
      - iterationWalk(n)
        - » altsWalk(n)
      - assignWalk(n)
      - callWalk(n)
      - exprWalk(n) (guard)

- Generator
  - altsWalk(n)
    - altsWalk(n) (recursive)
    - altWalk(n)
      - exprWalk(n)
      - stmtWalk(n)

- Generator
  - assignWalk(n)
    - varsWalk(n)
      - varsWalk(n) (recursive)
    - exprsWalk(n)
  - callWalk(n)
    - varsWalk(n)
      - varsWalk(n) (recursive)
    - exprsWalk(n)

- Generator
  - exprsWalk(n)
    - exprsWalk(n) (recursive)
    - exprWalk(n)
      - exprWalk(n) (recursive)

- Generator
  - assignWalk(n)
    - varsWalk(n)
      - varsWalk(n) (recursive)
    - exprsWalk(n)
  - callWalk(n)
    - varsWalk(n)
      - varsWalk(n) (recursive)
    - exprsWalk(n)

- Generator
  - exprsWalk(n)
    - exprsWalk(n) (recursive)
    - exprWalk(n)
      - exprWalk(n) (recursive)