Jones

Semantics-Directed Compiler Generation

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Transforming denotational semantics into practical attribute grammars.- Compiler generation from denotational semantics.- From standard to implementation denotational semantics.- Specification of compilers as abstract data type representations.- More on advice on structuring compilers and proving them correct.- A constructive approach to compiler correctness.- Using category theory to design implicit conversions and generic operators.- On defining semantics by means of extended attribute grammars.- Tree-affix dendrogrammars for languages and compilers.- An implementation of affix grammars.- Experiences with the compiler writing system HLP.- Rule splitting and attribute-directed parsing.- Attribute-influenced LR parsing.- On the definition of an attribute grammar.- State transition machines for lambda-calculus expressions.- Semantic definitions in REFAL and automatic production of compilers.- On the formal definition of ADA.

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