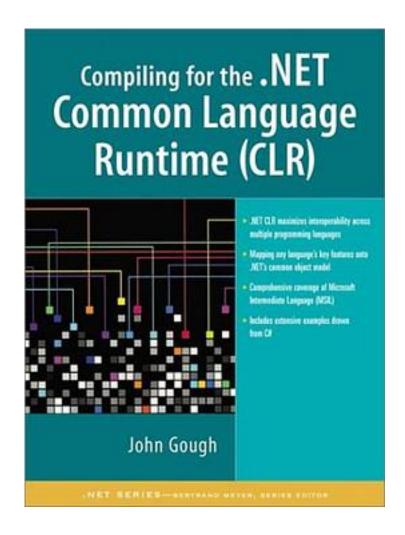# Compiling for the .Net Common Language Runtime

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*Go "under the hood" with .NET's Common Language Runtime! *The definitive book

for serious software engineers, compiler developers, and language implementers *Mapping any language's key features onto .NET's common object model *Comprehensive coverage of Microsoft Intermediate Language (MSIL) *Includes extensive examples drawn from C# The first practical guide to Microsoft's .NET Common Language Runtime! Compiling for the .NET Common Language Runtime (CLR) is the first book to give software engineers all the details and guidance they need to create full-featured .NET compilers or implement programming languages for the .NET environment. Renowned compiler expert John Gough presents an unprecedented "under the hood" inspection of Microsoft's .NET CLR, illuminating the key concepts underlying Microsoft's new technology and demonstrating exactly how CLR maximizes interoperability across multiple programming languages. The book uses a running example to illustrate its key points(Gough's own open source Gardens Point Component Pascal compiler(which can be used as a basis for sophisticated experimentation.* Reviews every element of CLR: Virtual Execution Engine, Base Instruction Set, Common Type System, and more *Shows how to map a language's key features onto the .NET Virtual Object System's common object model *Explains how CLR represents programs at compile time *Explores the semantic analysis performed by CLR prior to emitting Microsoft Intermediate Language (MSIL) code *Provides in-depth coverage of MSIL code generation *Covers features needed by a wide range of languages *Explores advanced topics such as accessing nonlocal variables and supporting multiple inheritance *Includes many examples drawn from Microsoft's new C# language If you need absolute mastery over the .NET CLR, only one book delivers what you're looking for: Compiling for the .NET Common Language Runtime (CLR) by John Gough.

作者介绍:

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编译原理

评论

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