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# Performance Testing Microsoft .NET Web Applications



## Synopsis

The shift from stand-alone desktop applications to Web-enabled applications that accommodate hundreds of thousands of simultaneous users makes performance testing critical. Find out how to make your Microsoft® .NET-based applications perform as well as or better than traditional desktop applications with this book—written by the Microsoft team that tests and tunes hundreds of Web sites and Web-based applications. You’ll learn how to take advantage of the best available tools to plan and execute performance tests, configure profile tools, analyze performance data from Microsoft Internet Information Services, Microsoft ASP.NET, managed code, the SQL tier, and more. You’ll also learn how to use the testing methodology that Microsoft uses to stress test its own sites—some of the most popular, high-performance Web sites in the world. Topics covered include: The testing methodology used on Microsoft.com, Xbox.com, and other high-volume sites Planning the performance test Stress testing with Microsoft Application Center Test (ACT) Monitoring application performance with Performance Monitor Testing Web site security Application Network Analysis Analyzing the Web tier Analyzing managed code Analyzing the SQL tier Transaction Cost Analysis (TCA) INCLUDED ON CD-ROM: A fully searchable electronic copy of the book Scripts that test the performance of IbuySpy.com A Note Regarding the CD or DVD The print version of this book ships with a CD or DVD. For those customers purchasing one of the digital formats in which this book is available, we are pleased to offer the CD/DVD content as a free download via O’Reilly Media’s Digital Distribution services. To download this content, please visit O’Reilly’s web site, search for the title of this book to find its catalog page, and click on the link below the cover image (Examples, Companion Content, or Practice Files). Note that while we provide as much of the media content as we are able via free download, we are sometimes limited by licensing restrictions. Please direct any questions or concerns to [booktech@oreilly.com](mailto:booktech@oreilly.com).

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## Customer Reviews

I've recently had an opportunity to read Microsoft ACE Team's ... book "Performance Testing Microsoft .NET Web Applications" and would highly suggest this book to anyone who is looking to find performance bugs or increase performance on your teams web applications. The book is well written, gives real world examples, explains the most common bottlenecks in different areas and how to detect them (disks, network, web tier, sql tier, etc) and has a great section on how TCA works. ... I highly recommend this book.

This books contains information about using ACT that I couldn't find in other documentation. It also contains practical advice for how to structure load tests and how to troubleshoot performance bottlenecks.

This is the First book that discuss testing web application using Microsoft ACT (which I find not the best testing tool, see Astra Load Test, it is perfect).the book will divide the testing to phases and tiers, for example it dicusses how to optimized and find bottle neck in web tier (ASP.net Code), managed code and SQL server.I didn't find anther book that discuss "Stress Testing ASP.net" application.The will tell you how the found the "Memory Leakage" and they will tell you their exprience in finding problems with web sites.If you r intended to "know" how to stress test you application, buy this book now

I had pretty high hopes for this book and was therefore a bit disappointed. The book focused heavily on several testing suites (ACT, Application Expert, Indy) which good from the standpoint of learning about the tools that are out there. Of course, it's not terribly useful if you can't get your hands on those suites.The parts of the book that focused on non-application specific performance testing concepts were generally weak and didn't go into enough detail. It would have been nice to see some of the testing documentation that the book refers to, but no such luck.One thing I found particularly annoying was in the description of the various Performance Monitor objects. The various

descriptions offered in the book were EXACTLY the same as the text that is produced by clicking on the "explain" button in the "Add Counters" dialog of perfmon. With that said, the book is cheap and a quick read. It's probably worth buying, but don't get your hopes up that you'll be doing any serious performance testing after reading it.

Most of this book is a high level introduction to various Microsoft tools (ACT, perfmon, netmon, IIS sever logs, ASP.NET tracing, SQL Server query analyzer, SQL Server profiler) and a little coverage of Compuware's tools. There are 2 chapters on performance prediction: one covering extrapolation (known as TCA) and one covering modeling (Indy). The problems this book attempts to address are not easy; solving them requires a lot more than a tools overview. The chapter on extrapolation is misleading, implying that you can focus on a single metric, and not explaining prediction involving multiple metrics. The chapter on modeling is very unsatisfactory: they show off this cool looking tool (Indy) but never explain where to get it from.

I'm reading this book and I guess essential for web application in .NET. The book has an approach based on Microsoft ACE team development process, offers thereby, step-by-step tuning and performance verification activities in details. Despite this book to use only Microsoft environment such IIS, ASP.NET and other tools, it great, because is possible figure in its concepts about all necessary layers from model to presentation, and still web server configuration technics for solve bottleneck, when grow up users access quickly.

Although I have not read this book extensively, I have still found sound advice in its pages. This book is a great guide to anyone who wishes to learn more about, or conduct Performance Testing. From Bottle necks to security, this books covers a broad range of subjects. For a reliable source of testing information, directed towards web applications and more, refer to this book. Thank you.

This book provides excellent explanations for performance testing .NET applications that are still relevant today. A great foundation for learning performance testing.

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