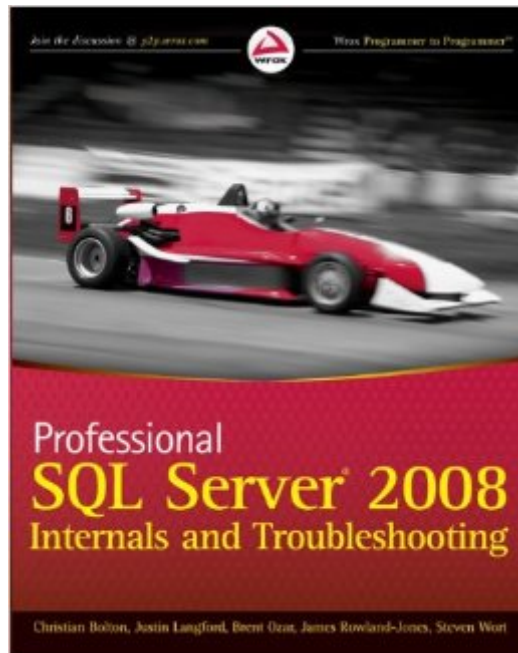


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# Professional SQL Server 2008 Internals And Troubleshooting



## Synopsis

A hands-on resource for SQL Server 2008 troubleshooting methods and tools SQL Server administrators need to ensure that SQL Server remains running 24/7. Authored by leading SQL Server experts and MVPs, this book provides in-depth coverage of best practices based on a deep understanding of the internals of both SQL Server and the Windows operating system. You'll get a thorough look at the SQL Server database architecture and internals as well as Windows OS internals so that you can approach troubleshooting with a solid grasp of the total processing environment. Armed with this comprehensive understanding, readers will then learn how to use a suite of tools for troubleshooting performance problems whether they originate on the database server or operating system side. Topics Covered: SQL Server Architecture Understanding Memory SQL Server Waits and Extended Events Working with Storage CPU and Query Processing Locking and Latches Knowing Tempdb Defining Your Approach To Troubleshooting Viewing Server Performance with PerfMon and the PAL Tool Tracing SQL Server with SQL Trace and Profiler Consolidating Data Collection with SQLDiag and the PerfStats Script Introducing RML Utilities for Stress Testing and Trace File Analysis Bringing It All Together with SQL Nexus Using Management Studio Reports and the Performance Dashboard Using SQL Server Management Data Warehouse Shortcuts to Efficient Data Collection and Quick Analysis Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

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## Customer Reviews

**Brief Review:** Having a book on internal and associating that with real life is "almost" an impossible task. The reason for using the word "almost" is because this book has accomplished this very well. This internals book is written by keeping real life scenarios as top focus. The highlight of the book is that it teaches how to use internals to troubleshoot the real life issues of performance, storage, query processing and all the other important aspects of SQL Server - A must-have book for everybody who is a hands-on DBA/Developer.

**Detail Review:** I planned to finish reading this book within a week. Very soon, I realized that I was going over very interesting subjects of SQL Server very quickly and understanding them very well. In fact, I finished reading this book in less than a week, and I have to accept that it offers an interesting journey for its readers. This book is also quite easy to read. This book has addressed some of the complex subjects in such a simple manner that any SQL user can understand it very easily. The three very important components for any server are CPU, Memory and IO. This book effectively elucidates these three components. The topics usually begin by covering internals which shift to practical implementations after proper amount of internals. In other way, I can say that this book is NOT a usual boring book, which can put you to sleep. Each chapter keeps you interested till the end of it. CPU and IO, which are very important deciding factors for Query cost, are very well explained in the book. This book explains how any query can be understood in terms of internals. After explaining the query internals in terms of CPU and IO, it also explains how the physical memory affects query execution and what are the techniques to improve performance?

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