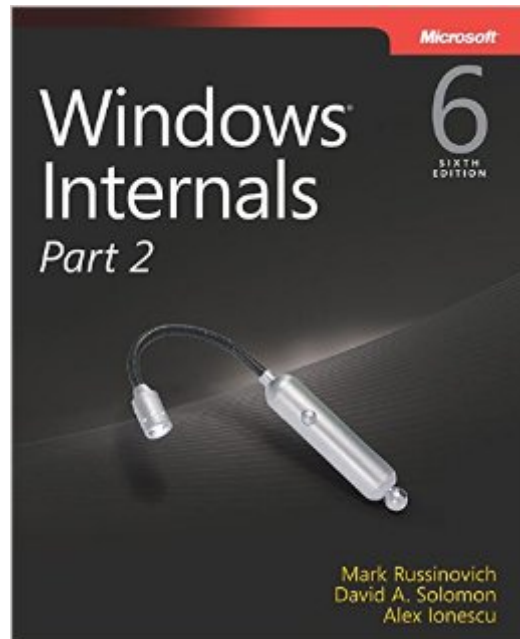


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# Windows Internals, Part 2 (Developer Reference)



## Synopsis

Delve inside Windows architecture and internals and see how core components work behind the scenes. Led by three renowned internals experts, this classic guide is fully updated for Windows 7 and Windows Server 2008 R2 and now presents its coverage in two volumes. As always, you get critical insider perspectives on how Windows operates. And through hands-on experiments, you'll experience its internal behavior firsthand—knowledge you can apply to improve application design, debugging, system performance, and support. In Part 2, you'll examine: Core subsystems for I/O, storage, memory management, cache manager, and file systems Startup and shutdown processes Crash-dump analysis, including troubleshooting tools and techniques

## Book Information

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Windows - General

## Customer Reviews

The Windows Internals books have always been the most in-depth look into how the Windows Operating System works and provide valuable information for anyone developing and debugging Windows applications. I have used these books as a reference since the third edition and they have

continuously gotten more comprehensive in size. The sixth edition is now split into two parts, the second part being reviewed here. The last edition covered both Windows Server 2008 and Windows Vista while this edition focuses on their successors Windows Server 2008 R2 and Windows 7. The main topics stayed the same albeit networking moved up further in the chapters than compared to the previous edition. As the changes between the underlying kernels (fifth edition: Kernel 6.0, sixth edition: Kernel 6.1) have been negligible, the individual chapters are pretty much the same. Most of the things described in the fifth edition are still applicable in the latest Kernel. The first part of the book, which was released in March 2012, provided a general overview over the basic layout and concepts of the Windows Operating System before going into further details of dedicated mechanism and subsystems such as processes, threads, security, networking and so on. The second part focuses on the remaining mechanism and subsystems such as the I/O system, storage and memory, file system, startup and shutdown as well as crash dump analysis. Compared to the last edition, most of the chapters are fairly similar in size as only marginal changes were made in the Kernel in these areas. As before, this book contains an abundance of low-level technical information and thus requires a fairly solid background with native tools such as the WinDbg application.

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