



Windows NT Device Driver Development

By Peter G. Viscarola, W. Anthony Mason

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For courses in Windows NT Programming. Windows NT Device Driver Development is the definitive and comprehensive technical reference for students studying software engineering, systems programming, and any engineer who needs to understand Windows NT systems internals. Includes vital information about the internal design and architecture of the Windows NT operating system and critical information on the implementation of standard Windows NT kernel mode drivers. Students will get information on the workings of Windows NT I/O Manager, including how I/O requests are described and passed among drivers, and detailed technical information on interrupt management and synchronization issues.

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Editorial Review

Review

When I first began making the transition from UNIX device drivers to those for Windows NT, there weren't a lot of available resources to help me along. However, things have changed over the past couple of years, and there is now plenty of information, including articles in *Dr. Dobb's Journal* and *Microsoft Systems Journal*, Paula Tomlinson's "Understanding NT" column in *Windows Developer's Journal*, Microsoft Developer Network, the Microsoft web site, and various other resources on the Internet. However, the place I recommend you start is with *Windows NT Device Driver Development*, by Peter G. Viscarola and W. Anthony Mason.

Windows NT Device Driver Development is a well-organized, easy to read, and complete introduction to NT device driver development. It could be read cover to cover as a student text. Because of its clean layout, the book is as valuable a reference as any of the resources listed above.

The book is authoritative, and the asides come from the (apparently extensive) personal experiences of the authors. They have recently been active and helpful on the mail lists described in the resources appendix. *Windows NT Device Driver Development* is also well edited. There are no major errors or omissions. The index is large and accurate. Index entries are purely topic and concept based. As a commitment to quality, the authors and the publisher have offered a bug bounty...Read more from this review.--Regan Russell, *Dr. Dobb's Journal* -- *Dr. Dobb's Journal*

From the Back Cover

Windows NT Device Driver Development is the definitive and comprehensive technical reference for software engineers, systems programmers, and any engineer who needs to understand Windows NT systems internals. You will learn: vital information about the internal design and architecture of the Windows NT operating system; Critical information on the implementation of standard Windows NT kernel mode drivers; Key information on the workings of Windows NT I/O Manager, including how I/O requests are described and passed among drivers; and detailed technical information on interrupt management and synchronization issues.

About the Author

Peter G. Viscarola is a founder of, and Consulting Partner at, Open Systems Resources (OSR), the world-renowned consulting firm specializing in Windows NT systems internals. During more than 20 years in the computer industry, including more than 10 years as an independent consultant, Peter has developed device drivers and protocol implementations under a wide array of operating systems. Since the release of Windows NT, Peter has designed or developed more than three dozen Windows NT drivers, including drivers for almost every type of programmed I/O and DMA device imaginable. Recent Windows NT driver projects include development of high-speed drivers for ATM[r], ISDN, and Frame Relay devices, as well as design of special Kernel mode drivers for a number of unique situations. Peter's particular areas of expertise include networking and high-speed DMA architectures, where hardware-driver interactions are critical. Peter has a long background developing and teaching high-tech courses, and is the developer and chief instructor of Open Systems Resources Windows NT Kernel Mode Device Driver Seminar. Peter attended Columbia University and the University of Michigan, where he studied applied statistics and computer science, and Lesley College, where he studied applied management. Peter is a regular contributor to and columnist for The NT Insider, Open Systems Resources journal of Windows NT systems internals. He is a Senior Member

of the IEEE and a voting member of the ACM.

W. Anthony Mason is an Open Systems Resources Consulting Partner with experience in a wide array of system software disciplines during the past 16 years. Tony is also an internationally recognized expert in file systems technologies. Among his recent projects has been the design and development of several Windows NT installable file system drivers, including both physical media file systems and networked distributed file systems. In addition to his file systems expertise, Tony is Open Systems Resources resident expert on NT's Memory Manager and Cache Manager subsystems. Tony also has considerable experience designing and developing Windows NT device drivers, his most recent such project being a DMA driver for a high-speed video encryption board. Tony is the architect and major designer and implementor of Open Systems Resources' File System Filter Driver and File System Driver Development Kits. He is also the developer and chief instructor of Open Systems Resources' Developing! File Systems for Windows NT Seminar. Tony received his Bachelor of Science degree from the University of Chicago, where he studied mathematics and computer science. Tony is also a regular contributor to The NT Insider, Open Systems Resources' journal of Windows NT systems internals.

Users Review

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