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your driver. The
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analyze, and

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process.

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A minidriver or a miniport driver acts as half of a driver pair. Driver pairs like (miniport, port)

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can make driver development easier. In a driver pair, one driver handles general tasks that are common to a whole collection of devices, while the other driver handles tasks that are specific to an individual device.

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tools, methods, and pitfalls to help make the often complex and byzantine "black art" of driver development straightforward and accessible. This book is designed for anyone involved in the development of Windows NT Device

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Drivers, particularly those working on drivers for nonstandard

devices that

Microsoft has not specifically supported.

Because Windows NT does not permit an application program to directly manipulate hardware, a

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customized kernel mode device driver must be created for these

nonstandard devices. And since experience has clearly shown that superficial knowledge can be hazardous when developing device drivers, the authors have taken care to

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explore each relevant topic in depth. This book's coverage focuses on drivers for polled, programmed I/O, interrupt-driven, and DMA devices. The authors discuss the components of a kernel mode device driver for Windows

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experience-based

techniques for

debugging, and

how to build

robust, portable,

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device drivers that

work as intended

and won't crash

the system. The

authors also show

how to call the

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for the many services required to support a device driver and

demonstrate some specialized techniques, such as mapping device memory or kernel memory into user space. Thus developers will not only learn the specific mechanics

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driver. The book provides numerous code examples, as well as the source for a complete, usable filter driver.

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capabilities, and expands on the driver/minidriver approach. Written by long-time device-driver expert Walter Oney in cooperation with the Windows kernel team, this book provides extensive practical examples, illustrations, advice, and line-by-

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