



DEVELOPING DRIVERS
WINDOWS
DRIVER FOUNDATION

Anthony Daniels
Greg Smith

Developing Drivers With The Microsoft Windows Driver Foundation

Christian Kreibich, Marko Jahnke



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Windows 95 and NT Programming with the Microsoft Foundation Class Library William H. Murray,Chris H. Pappas,1996 Designed to cover programming with microsoft s new Visual C compiler and associated tools this book also discusses the fundamentals of Windows 95 and NT programming from concepts and definitions to toolbars tooltips and folders It offers an in depth look at object oriented programming and the microsoft Foundation Class Library MFC Includes disk

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Windows 7 Device Driver Ph. D. Reeves,2010 The First Authoritative Guide to Writing Robust High Performance Windows 7 Device Drivers Windows 7 Device Driver brings together all the information experienced programmers need to build exceptionally reliable high performance Windows 7 drivers Internationally renowned driver development expert Ronald D Reeves shows how to make the most of Microsoft s powerful new tools and models save time and money and efficiently deliver stable robust drivers Drawing on his unsurpassed experience as both a driver developer and instructor Reeves demystifies Kernel and User Mode Driver development Windows Driver Foundation WDF architecture driver debugging and many other key topics Throughout he provides best practices for all facets of the driver development process illuminating his insights with proven sample code Learn how to Use WDF to reduce development time improve system stability and enhance serviceability Take full advantage of both the User Mode Driver Framework UMDF and the Kernel Mode Driver Framework KMDF Implement best practices for designing developing and debugging both User Mode and Kernel Mode Drivers Manage I O requests and queues self managed I O synchronization locks plug and play power

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Programming the Microsoft Windows Driver Model Walter Oney,2003 The Microsoft Windows driver model WDM supports Plug and Play provides power management 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 line analysis of code samples to clarify real world driver programming issues And it s been updated with the latest details about the driver technologies in Windows XP and Windows 2000 plus more information about how to debug drivers Topics covered include Beginning a driver project and the structure of a WDM driver NEW Minidrivers and class drivers driver taxonomy the WDM development environment and tools management checklist driver selection and loading approved API calls and driver stacks Basic programming techniques NEW Safe string functions memory limits the Driver Verifier scheme and tags the kernel handle flag and the Windows 98 floating point problem Synchronization NEW Details about the interrupt request level IRQL scheme along with Windows 98 and Windows Me compatibility The I O request packet IRP and I O control operations NEW How to send control operations to other drivers custom queue implementations and how to handle and safely cancel IRPs Plug and Play for function drivers NEW Controller and multifunction devices monitoring device removal in user mode Human Interface Devices HID including joysticks and other game controllers minidrivers for non HID devices and feature reports Reading and writing data power management and Windows Management Instrumentation WMI NEW System wakeup the WMI control for idle detection and using WMIMOFCK Specialized topics and distributing drivers NEW USB 2 0 selective suspend Windows Hardware Quality Lab WHQL certification driver selection and loading officially approved API calls and driver stacks

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