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Subclassing and the Windows hooking mechanism ("hooks") allow developers to manipulate, modify, or even discard messages bound for other objects within the operating

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**system. This book provides
several possibilities to the
Visual Basic developer.
A comprehensive tutorial
that shows you how to use
Windows Services to
implement Windows**

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**NT/2000 application servers
Programming Windows174
Services The biggest
development in Microsoft
Windows in the last couple
of years is the introduction
of Windows NT/2000**

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application servers. Randy Morin covers the broad range of topics that you'll need to know in order to implement these servers using Windows Services. Inside, you'll find a

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**template that you can use
to create Windows Services
with a variety of
programming tools such as
Visual Basic, C++, and
Delphi. You'll also discover
how to develop Windows**

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Services that use sockets, DCOM, CORBA, and other distribute-transport to communicate with the outside world. As you progress to more advanced topics, you'll learn how to

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**develop professional
Windows Services using the
Event Log. Morin also
explains how to secure your
application server using
Windows security and
configure your Windows**

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Service to work with the different security services available on the NT/2000 platform. And with the help of numerous examples, you'll find out how to utilize various techniques to debug

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your service. This book will show you how to: - Optimize the Event Log - Utilize NT/2000 management functions like MMC, the Registry, and the Control Panel - Configure the

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**Windows Registry,
initialization files, control
panel applets, the Microsoft
management console, and
more - Develop NT/2000
Services that use sockets
and socket clients - Deal**

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**with security and
debugging issues - Develop
frameworks using sockets,
DCOM, CORBA, and MSMQ
The CD-ROM contains the
complete source code from
the book. Visit our Web site**

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at

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An authoritative guide to
Windows NT driver
development, now
completely revised and
updated. The CD-ROM**

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**includes all source code,
plus Microsoft hardware
standards documents, demo
software, and more.**

**Delve inside Windows
architecture and
internals—and see how core**

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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

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**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**

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behavior

**firsthand—knowledge you
can apply to improve
application design,
debugging, system
performance, and support.
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**Understand how core
system and management
mechanisms
work—including the object
manager, synchronization,
Wow64, Hyper-V, and the
registry Examine the data**

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**structures and activities
behind processes, threads,
and jobs Go inside the
Windows security model to
see how it manages access,
auditing, and authorization
Explore the Windows**

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networking stack from top to bottom—including APIs, BranchCache, protocol and NDIS drivers, and layered services Dig into internals hands-on using the kernel debugger, performance

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monitor, and other tools

**This resource helps
technical support,
escalation engineers, and
Windows software testers
master necessary
prerequisites to understand**

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**and start debugging and
crash dump analysis on
Windows platforms.
Debugging Windows
Programs
X64 Windows Debugging
System architecture,**

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**processes, threads, memory
management, and more
Build and test Lightning
Components for Salesforce
Lightning Experience using
Salesforce DX
Exploring Apple Code**

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**Through Lldb, Python and
Dtrace**

**Advanced Windows
Programming**

**Open Source Software for
Statistical Analysis of Big
Data: Emerging Research**

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Learn to find software bugs faster and discover how other developers have solved similar problems. For intermediate to advanced iOS/macOS

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developers already familiar with either Swift or Objective-C who want to take their debugging skills to the next level, this book includes topics such as: LLDB and its

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subcommands and options;
low-level components used
to extract information
from a program; LLDB's
Python module; and DTrace
and how to write D
scripts.

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Written by the founder of DumpAnalysis.org, this resource can help technical support and escalation engineers and Windows software testers without the knowledge of

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assembly language master
necessary prerequisites to
understand and start
debugging and crash dump
analysis on X64 Windows
platforms.

A detailed handbook for

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experienced developers explains how to get the most out of Microsoft's Visual Studio .NET, offering helpful guidelines on how to use its integrated development

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environment, start-up templates, and other features and tools to create a variety of applications, including Web services. Original. (Advanced)

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Master Windows 8.1/Windows
Runtime Programming
Through 80 Expert Projects
This is the most complete,
hands-on, solutions-
focused guide to
programming modern Windows

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applications with the Windows Runtime. Leading Windows development consultants Jeremy Likness and John Garland present easy-to-adapt C# and XAML example code for more than

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80 projects. Their real-world application examples help you apply Windows 8.1's best improvements, including large tiles, the new search control, flyouts, command bars,

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native WinRT networking,
and new deployment and
sideloading options.

Drawing on their
pioneering experience,
they illuminate key areas
of the Windows Runtime

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API, offering uniquely detailed coverage of encryption, cloud connectivity, devices, printers, and media integration. You'll find cutting-edge tips and

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tricks available in no other book. This is an indispensable resource for all intermediate-to-advanced Windows developers, and for any architect building

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desktop, tablet, or mobile solutions with Microsoft technologies. Its focus on both C# and XAML will make it valuable to millions of Windows developers already familiar with Silverlight,

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WPF, and/or .NET. Coverage includes • Creating robust app interfaces with the newest XAML controls, including flyouts and command bars • Saving data in a persistent "roaming

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zone” for syncing across
Windows 8.1 devices •
Using Visual State Manager
(VSM) to build apps that
adapt to various device
resolutions and
orientations • Integrating

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virtually any form of data
into your apps •

Connecting with web
services, RSS, Atom feeds,
and social networks •

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authentication,

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encrypting, signing, and
single sign-on with
Microsoft Account,
Facebook, Google, and more

- Leveraging Windows 8.1
media enhancements that
improve battery life and

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app performance •
Networking more
effectively with Windows
8.1's revamped HTTP
implementation and new
location APIs • Using
Tiles and Toasts to keep

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even when they aren't
running • Enabling users
to send content between
devices via NFC tap and
send • Ensuring
accessibility and

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- globalizing your apps
- Efficiently debugging, optimizing, packaging, and deploying your apps
- Building sideloadable apps that don't have to be published in Windows Store

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“This book doesn't just focus on singular concepts, it also provides end-to-end perspective on building an app in WinRT. It is one of those essential tools for

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Windows developers that will help you complete your software goals sooner than without it!" —Tim Heuer, Principal Program Manager Lead, XAML Platform, Microsoft

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Corporation

Harness the full power of the Visual Studio IDE to take your coding skills to the next level by learning about IDE productivity practices and exclusive

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techniques Key

Features Increase your
productivity by leveraging
Visual Studio 2019's
improvements and
features Explore powerful
editing, code

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intelligence, and source code control features to increase productivity. Delve into VS's powerful, untapped features such as custom project templates and extensions. Book

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Description Visual Studio 2019 (VS 2019) and Visual Studio Code (VS Code) are powerful professional development tools that help you to develop applications for any

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platform with ease.

Whether you want to create web, mobile, or desktop applications, Microsoft Visual Studio is your one-stop solution. This book demonstrates some of the

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most sophisticated capabilities of the tooling and shows you how to use the integrated development environment (IDE) more efficiently to be more productive. You'll

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begin by gradually building on concepts, starting with the basics. The introductory chapters cover shortcuts, snippets, and numerous optimization tricks, along with

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debugging techniques,
source control
integration, and other
important IDE features
that will help you make
your time more productive.
With that groundwork in

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place, more advanced concepts such as the inner workings of project and item templates are covered. You will also learn how to write quality, secure code more

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efficiently as well as discover how certain Visual Studio features work 'under the hood'. By the end of this Visual Studio book, you'll have learned how to write more

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secure code faster than ever using your knowledge of the extensions and processes that make developing successful solutions more enjoyable and repeatable. What you

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will learn Understand the similarities and differences between VS 2019 and VS Code Get to grips with numerous keyboard shortcuts to improve efficiency Discover

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IDE tips and tricks that
make it easier to write
codeExperiment with code
snippets that make it
easier to write repeating
code patternsFind out how
to customize project and

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item templates with the help of hands-on exercises Use Visual Studio extensions for ease and improved productivity Delve into Visual Studio's behind the scene

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operations Who this book is
for This book is for C#
and .NET developers who
want to become more
efficient and take
advantage of features they
may not be aware of in the

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IDE. Those looking to increase their productivity and write quality code more quickly by fully utilizing the power of the Visual Studio IDE will also find this

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book useful.

Strategies, Tools, and
Techniques for Visual C++
Programmers

Programming the Windows
Runtime by Example

A Comprehensive Guide to

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WinRT with Examples in C#
and XAML

The Developer's Guide to
Debugging

Advanced Debugging Methods

Mastering Visual Studio

.NET

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Debugging Microsoft .NET
2.0 Applications

*Offers application debugging
techniques for Microsoft
.NET Framework and Windows,
covering topics such as
exception monitoring, crash
handlers, and multithreaded*

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deadlocks.

A guide to IBM's "e-business on demand" describes the five key IBM software families, IBM's software solutions for industries, software types needed for an on-demand business, and live

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*product demonstrations on
the enclosed CD-ROM.*

*A guide to debugging Windows
applications for
professional developers
covers resource leaks,
memory corruption, stack
problems, release build*

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*problems, multithreading
problems, and finding crash
locations.*

*This fully updated second
edition includes 100+ pages
of new material, including
new chapters on Verifying
Code, Predicting Errors, and*

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Preventing Errors. Cutting-edge tools such as FindBUGS and AGITAR are explained, techniques from integrated environments like Jazz.net are highlighted, and all-new demos with ESC/Java and Spec#, Eclipse and Mozilla

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are included. This complete and pragmatic overview of debugging is authored by Andreas Zeller, the talented researcher who developed the GNU Data Display Debugger(DDD), a tool that over 250,000 professionals

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use to visualize the data structures of programs while they are running. Unlike other books on debugging, Zeller's text is product agnostic, appropriate for all programming languages and skill levels. Why

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Programs Fail explains best practices ranging from systematically tracking error reports, to observing symptoms, reproducing errors, and correcting defects. It covers a wide range of tools and

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techniques from hands-on observation to fully automated diagnoses, and also explores the author's innovative techniques for isolating minimal input to reproduce an error and for tracking cause and effect

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through a program. It even includes instructions on how to create automated debugging tools. The new edition of this award-winning productivity-booster is for any developer who has ever been frustrated by

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elusive bugs. Brand new chapters demonstrate cutting-edge debugging techniques and tools, enabling readers to put the latest time-saving developments to work for them. Learn by doing. New exercises and detailed

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examples focus on emerging tools, languages and environments, including AGITAR, FindBUGS, Python and Eclipse. The text includes exercises and extensive references for further study, and a companion

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*website with source code for
all examples and additional
debugging resources.*

*Use Windows debuggers
throughout the development
cycle—and build better
software Rethink your use of
Windows debugging and*

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tracing tools—and learn how to make them a key part of test-driven software development. Led by a member of the Windows Fundamentals Team at Microsoft, you'll apply expert debugging and tracing techniques—and

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sharpen your C++ and C# code analysis skills—through practical examples and common scenarios. Learn why experienced developers use debuggers in every step of the development process, and not just when bugs appear.

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Discover how to: Go behind the scenes to examine how powerful Windows debuggers work Catch bugs early in the development cycle with static and runtime analysis tools Gain practical strategies to tackle the

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most common code defects

*Apply expert tricks to
handle user-mode and kernel-
mode debugging tasks*

*Implement postmortem
techniques such as JIT and
dump debugging Debug the
concurrency and security*

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*aspects of your software Use
debuggers to analyze
interactions between your
code and the operating
system Analyze software
behavior with Xperf and the
Event Tracing for Windows
(ETW) framework*

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Debug and Solve Real-World
Problems In . NET
Subclassing and Hooking with
Visual Basic
Emerging Research and
Opportunities
66 Specific Ways to Debug*

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Software and Systems

*The Windows 2000 Device
Driver Book*

Windows Debugging Notebook

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NET Developers*

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***escalation engineers
troubleshooting and
debugging complex
software issues. The book
is also invaluable for
software maintenance and
development engineers***

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debugging Windows applications and services. The ability to solve difficult problems is what makes a good engineer great. This book teaches techniques and tools for developers to

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***tackle even the most
persistent bugs. You'll find
that tough issues can be
made simple with the right
knowledge, tools, and
practices. Practical
Debugging for .NET***

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you into the guy or gal who
everyone turns to for help.
Issues covered include .NET
Core, C#, Memory Leaks,
Performance Problems,
ASP.NET, Performance***

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Production Debugging,
Memory Pressure, Visual
Studio, Hangs, Profiling,
Deadlocks, Crashes,
Memory Dumps, and Azure.
* Discover the best tools in**

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***the industry to diagnose
and fix problems * Learn
advanced debugging
techniques with Visual
Studio * Fix memory leaks
and memory pressure
issues * Detect, profile, and***

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***fix performance problems *
Find the root cause of
crashes and hangs * Debug
production code and third-
party code * Analyze
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slow performance, failed***

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dump files, Performance
Counters, and ETW events
to investigate what
happens under the hood *
Troubleshoot cloud
environments, including***

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Services * Code samples in
C# * Covering .NET Core,
.NET Framework, Windows,
and Linux
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Provides complete
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***C++ application
development. C++Builder 6
Developers Guide is revised
for the latest version of
C++Builder, the biggest
update to C++Builder in
years. C++Builder is an***

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ANSI C++ IDE. The version 6 adds BizShape, a tool to build Web Services using XML/SOAP, .NET, and BizTalk from Microsoft, and SunONE from Sun Microsystems. Other new

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***components include
WebSnap for Web
application development,
DataSnap for database
development, and CLX,
which allows cross-platform
development for Unix and***

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***Linux. The new NetCLX
Internet components allow
development of cross-
platform applications with
Apache, Microsoft IIS, and
Netscape Web Server
applications. C++Builder 6***

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Developers Guide continues as the definitive guide for Borlands C++Builder, providing a clear and concise reference for C++ developers. C++Builder Developers Guide is a

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***unique combination of over
35 C++Builder experts from
around the globe. This
team brings hundreds of
thousands of working hours
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development to the***

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creation of this extensive work. Leading the team are Jarrod Hollingworth, Bob Swart, Mark Cashman. and Paul Gustavson. Jarrod is running Backslash (<http://www.backslash.com;au>),

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***loping software
applications for the
Internet and key business
sectors and working as a
software development
consultant. Bob (aka.
Dr.Bob) is an***

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***internationally recognized
UK Borland Connections
member and an
independent technical
author, trainer, and
consultant using
C++Builder, Kylix, and***

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Delphi based in The Netherlands. Mark Cashman is an independent C++ developer in the U.S. Paul Gustavson lives in Virginia and is a senior systems engineer for

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applications on the
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platform Key Features Build
and Test Lightning
Components that enhance
application usability and***

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***adaptability Apply Security
Best Practices to your
Custom Lightning
Components Design
Lightning Components for
Salesforce UIs such as
Lightning Pages, Salesforce***

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***1 Application, Communities,
and more. Book Description
Built on the Salesforce App
Cloud, the new Salesforce
Lightning Experience
combines three major
components: Lightning***

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Design System, Lightning App Builder, and Lightning Components, to provide an enhanced user experience. This book will enable you to quickly create modern, enterprise apps with

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***Lightning Component
Framework. You will start
by building simple
Lightning Components and
understanding the
Lightning Components
architecture. The chapters***

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***cover the basics of
Lightning Component
Framework semantics and
syntax, the security
features provided by Locker
Service, and use of third-
party libraries inside***

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Lightning Components. The later chapters focus on debugging, performance tuning, testing using Lightning Testing Services, and how to publish Lightning Components on

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Salesforce AppExchange.

What you will learn

Understand Lightning

Components architecture

Learn Locker security best

practices Debug and

Improve performance of

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***your Lightning Components
Use third-party libraries
along with Lightning
Component Framework
Learn how to publish
Lightning Components on
AppExchange Use Lightning***

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Out to take your Lightning Components outside the Salesforce platform Who this book is for This book is for Salesforce developers or developers from other platforms who are familiar

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***with HTML, CSS, and
JavaScript and want to
build and test Salesforce
Lightning components. No
knowledge of Salesforce
Lightning is required.
Advanced Windows***

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Education**

**Debugging Applications for
Microsoft .NET and
Microsoft Windows
A developer's guide to
writing better code and**

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***maximizing productivity
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Software Infrastructure
Using C# and JavaScript
Introducing Windows 10 for
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Guide***

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Debugging Tools for Web
Developers***

**Debugging Strategies for .NET
Developers teaches**

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developers how to think about debugging in Microsoft .NET rather than with the specific tools. Author Darin Dillon describes debugging concepts, such as assertions and logging, and immediately

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follows each discussion with an example from his experiences of when that technique was used to solve a real-world bug. While other debugging books focus on obscure techniques for

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advanced users, this book is a highly readable exploration that conveys the basic thought process of debugging, as well as the specific techniques and when to apply those techniques.

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Skip the basics and delve right into Visual Studio 2017 advanced features and tools Professional Visual Studio 2017 is the industry-favorite guide to getting the most out of Microsoft's primary

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**programming technology.
From touring the new UI to
exploiting advanced
functionality, this book is
designed to help professional
developers become more
productive. A unique IDE-**

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centric approach provides a clear path through the typical workflow while exploring the nooks and crannies that can make your job easier. Visual Studio 2017 includes a host of features aimed at improving

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**developer productivity and UI,
and this book covers them all
with clear explanation, new
figures, and expert insight.
Whether you're new to VS or
just upgrading, this all-
inclusive guide is an essential**

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resource to keep within arm's reach. Visual Studio 2017 fixes the crucial issues that kept professionals from adopting VS 2015, and includes new features and tools that streamline the developer's job.

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This book provides the straightforward answers you need so you can get up to speed quickly and get back to work. Master the core functionality of Visual Studio 2017 Dig into the tools that

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make writing code easier

**Tailor the environment to your
workflow, not the other way
around Work your way
through configuration,
debugging, building,
deployment, customizing, and**

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more Microsoft is changing their release cadence—it's only been about two years since the last release—so developers need to quickly get a handle on new tools and features if they hope to remain

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productive. The 2017 release is designed specifically to help you get more done, in less time, with greater accuracy and attention to detail. If you're ready to get acquainted, Professional Visual Studio

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**2017 is your ideal guide.
The First In-Depth, Real-World,
Insider's Guide to Powerful
Windows Debugging For
Windows developers, few
tasks are more challenging
than debugging—or more**

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crucial. Reliable and realistic information about Windows debugging has always been scarce. Now, with over 15 years of experience two of Microsoft's system-level developers present a thorough

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**and practical guide to
Windows debugging ever
written. Mario Hewardt and
Daniel Pravat cover debugging
throughout the entire
application lifecycle and show
how to make the most of the**

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**tools currently
available—including
Microsoft's powerful native
debuggers and third-party
solutions. To help you find
real solutions fast, this book is
organized around real-world**

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debugging scenarios. Hewardt and Pravat use detailed code examples to illuminate the complex debugging challenges professional developers actually face. From core Windows operating

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system concepts to security, Windows® Vista™ and 64-bit debugging, they address emerging topics head-on—and nothing is ever oversimplified or glossed over!

Get a head start evaluating

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Windows 10--with technical insights from award-winning journalist and Windows expert Ed Bott. This guide introduces new features and capabilities, providing a practical, high-level overview for IT

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professionals ready to begin deployment planning now. This edition was written after the release of Windows 10 version 1511 in November 2015 and includes all of its enterprise-focused features.

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The goal of this book is to help you sort out what's new in Windows 10, with a special emphasis on features that are different from the Windows versions you and your organization are using today,

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starting with an overview of the operating system, describing the many changes to the user experience, and diving deep into deployment and management tools where it's necessary.

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When the pressure is on to resolve an elusive software or hardware glitch, what's needed is a cool head courtesy of a set of rules guaranteed to work on any system, in any circumstance.

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Written in a frank but engaging style, this book provides simple, foolproof principles guaranteed to help find any bug quickly. Recognized tech expert and author David Agans changes the way you

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**think about debugging,
making those pesky problems
suddenly much easier to find
and fix. Agans identifies nine
simple, practical rules that are
applicable to any software
application or hardware**

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system, which can help detect any bug, no matter how tricky or obscure. Illustrating the rules with real-life bug-detection war stories, Debugging shows you how to: Understand the system: how

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**perceiving the ""roadmap""
can hasten your journey Quit
thinking and look: when hands-
on investigation can't be
avoided Isolate critical factors:
why changing one element at
a time can be an essential tool**

**Keep an audit trail: how
keeping a record of the
debugging process can win
the day Whether the system or
program you're working on
has been designed wrong,
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Page 151/262

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Windows Debugging

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debugging techniques for
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multithreaded deadlocks.
The definitive
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performance, and support. This book will help you:

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threads · Examine how
processes manage
resources and threads
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physical memory · Dig
into the Windows I/O
system and see how
device drivers work and
integrate with the rest
of the system · Go
inside the Windows

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security model to see how it manages access, auditing, and authorization, and learn about the new mechanisms in Windows 10 and Server 2016

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full of advice on
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editing, and porting C
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3. Shows how to design
large, multiple-module
programs for real-world

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applications; teaches readers how to customize controls; and covers advanced techniques such as subclassing, superclassing, and ObjectWindows.

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what Charles Petzold did
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Richter, author,
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powerful, Windows-
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so you catch and fix
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.NET Internals and

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*can work with the Windows
Runtime (often called Windows
RT) framework this book
provides careful analysis of the
many options you have open to
you, along with a comparison
of their strengths and*

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weaknesses under different conditions. With the days of a single database being the right choice for almost all development projects long gone. You will learn that the right choice for your app now

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depends on a variety of factors and getting it right will be critical to your customer's end user experience. We cover a range of data access strategies ranging from storing and retrieving data locally using the

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JET API, to using the most popular open and closed source database products like SQLite and SQL Server. We look at how lightweight HTML and JavaScript apps work well with equally feather-weight data

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stores like IndexedDB. We'll also introduce you to more advanced data access techniques like REST (JSON), WCF RIA Services, ASP.NET MVC 4 Web API and Windows Azure that can hugely expand

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the horizons of what it is possible for your app to do as storage - and even processing - are taken beyond the confines of your user's device. By the time you have read this book you will be familiar with the key

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data access considerations you will need to evaluate as you build you apps and you will be able to confidently select the data access architecture that is most appropriate to the app you want to build.

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can take a lifetime. In Effective Debugging, Diomidis Spinellis helps experienced programmers accelerate their journey to mastery, by systematically categorizing, explaining, and illustrating the

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most useful debugging methods, strategies, techniques, and tools. Drawing on more than thirty-five years of experience, Spinellis expands your arsenal of debugging techniques, helping you choose

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associated with effective debugging. Spinellis's 66 expert techniques address every facet of debugging and are illustrated with step-by-step instructions and actual code. He addresses the full spectrum of problems

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when programming, compiling,
and running code Better ways
to make the most of your
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*in Advanced ideas and
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Specialized approaches for
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"Mario Hewardt's Advanced .NET Debugging is an excellent resource for both beginner and

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experienced developers working with .NET. The book is also packed with many debugging tips and discussions of CLR internals, which will benefit developers architecting software.” -Jeffrey Richter,

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consultant, trainer, and author at Wintellect “Mario has done it again. His Advanced Windows Debugging (coauthored with Daniel Pravat) is an invaluable resource for native code debugging, and Advanced .NET

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Debugging achieves the same quality, clarity, and breadth to make it just as invaluable for .NET debugging.” -Mark Russinovich, Technical Fellow, Microsoft Corporation The Only Complete, Practical Guide to

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Fixing the Toughest .NET Bugs
Advanced .NET Debugging is
the first focused, pragmatic
guide to tracking down today's
most complex and challenging
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using powerful native debugging tools, including WinDBG, NTSD, and CDB, to debug .NET applications. Using these tools, author Mario Hewardt explains how to identify the real root causes of

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problems—far more quickly than you ever could with other debuggers. Hewardt first introduces the key concepts needed to successfully use .NET's native debuggers. Next, he turns to sophisticated

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debugging techniques, using real-world examples that demonstrate many common C# programming errors. This book enables you to Make practical use of postmortem debugging, including PowerDBG and other

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“power tools” Understand the debugging details and implications of the new .NET CLR 4.0 Master and successfully use Debugging Tools for Windows, as well as SOS, SOSEX, CLR Profiler, and

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other powerful tools Gain a deeper, more practical understanding of CLR internals, such as examining thread-specific data, managed heap and garbage collector, interoperability layer, and .NET

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*exceptions Solve difficult
synchronization problems,
managed heap problems,
interoperability problems, and
much more Generate and
successfully analyze crash
dumps A companion web site (a*

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examples, and bonus content.
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presents useful tools and

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techniques for attacking many types of R programming problems, helping you avoid mistakes and dead ends. With more than ten years of experience programming in R, the author illustrates the

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*including standard data types
and functions Functional
programming as a useful
framework for solving wide
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fast, memory-efficient code This book not only helps current R users become R programmers but also shows existing programmers what's special about R. Intermediate R programmers can dive deeper

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into R and learn new strategies for solving diverse problems while programmers from other languages can learn the details of R and understand why R works the way it does.

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computing technologies in today's modernized world, software packages have become easily accessible. Open source software, specifically, is a popular method for solving certain issues in the field of

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Object relationships in modern
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violations of object relationships are

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difficult to detect. Programmers need new tools that allow them to explore objects in a large system more efficiently and to detect broken object relationships instantaneously. Such tools incorporate approaches used in

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powerful yet efficient tool to be added to the developer's tool chest. Advanced Debugging Methods presents practice and tools for debugging computer programs. This book proposes new powerful approaches that simplify the

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daunting task of debugging complex software systems. Although debugging has been addressed in numerous research papers, many of its methods have yet to be explored in a book-length format. This book helps to fill this

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gap by presenting an overview of existing debugging tools with motivating examples and case studies, as well as presenting new, state-of-the-art debugging methods. Advanced Debugging Methods will be of use to software developers

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looking for tools to be applied in cutting edge practice; system architects looking at the relationship between software design and debugging; tools and programming language researchers looking for new ideas in run-time tool

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implementation as well as detailed descriptions of advanced implementations; and university professors and graduate students who will use this book as supplementary reading for graduate courses in programming tools,

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language implementation, and advanced object-oriented systems. Advanced Debugging Methods is also a handy reference of currently existing debugging methodologies as well as a springboard for cutting-edge research to simplify the

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difficult task of debugging and to facilitate the development of more robust software systems.

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focused, pragmatic guidance
for tracking down today's
most complex and
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bugs. Authored by Mario**

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Hewardt, one of Microsoft's most respected developers, this is a "deep dive" into the most sophisticated debugging techniques for .NET 4/4.5+, Windows 8/8.1/RT, and the newest

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versions of Visual Studio.

**Hewardt helps you take full
advantage of powerful
debugging tools such as
DebugDiag and PSSCOR; and
illuminates crucial CLR
concepts and behaviors**

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**every advanced Windows
developer should
understand. Step by step,
he walks through a wide
range of debugging tasks;
addressing the assembly
loader, managed heap,**

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**garbage collection,
synchronization,
interoperability,
postmortem debugging, and
the unique issues associated
with debugging modern
Windows 8 apps. This**

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