



Reverse Engineering Code with IDA Pro

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If you want to master the art and science of reverse engineering code with IDA Pro for security R&D or software debugging, this is the book for you. Highly organized and sophisticated criminal entities are constantly developing more complex, obfuscated, and armored viruses, worms, Trojans, and botnets. IDA Pro's interactive interface and programmable development language provide you with complete control over code disassembly and debugging. This is the only book which focuses exclusively on the world's most powerful and popular tool for reverse engineering code. ***Reverse Engineer REAL Hostile Code**

To follow along with this chapter, you must download a file called !DANGER!INFECTEDMALWARE!DANGER!... 'nuff said.

***Download the Code!**

The companion Web site to this book offers up really evil code for you to reverse engineer and really nice code for you to automate tasks with the IDC Scripting Language.

***Portable Executable (PE) and Executable and Linking Formats (ELF)**

Understand the physical layout of PE and ELF files, and analyze the components that are essential to reverse engineering.

***Break Hostile Code Armor and Write your own Exploits**

Understand execution flow, trace functions, recover hard coded passwords, find vulnerable functions, backtrace execution, and craft a buffer overflow.

***Master Debugging**

Debug in IDA Pro, use a debugger while reverse engineering, perform heap and stack access modification, and use other debuggers.

***Stop Anti-Reversing**

Anti-reversing, like reverse engineering or coding in assembly, is an art form. The trick of course is to try to stop the person reversing the application. Find out how!

***Track a Protocol through a Binary and Recover its Message Structure**

Trace execution flow from a read event, determine the structure of a protocol, determine if the protocol has any undocumented messages, and use IDA Pro to determine the functions that process a particular message.

***Develop IDA Scripts and Plug-ins**

Learn the basics of IDA scripting and syntax, and write IDC scripts and plug-ins to automate even the most complex tasks.



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Georgetta Watson:

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Ann Birdsell:

As people who live in typically the modest era should be upgrade about what going on or data even knowledge to make these individuals keep up with the era which can be always change and make progress. Some of you maybe can update themselves by examining books. It is a good choice to suit your needs but the problems coming to you is you don't know what kind you should start with. This Reverse Engineering Code with IDA Pro is our recommendation to make you keep up with the world. Why, because this book serves what you want and want in this era.

Virginia Gauvin:

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