



# Reversing: Secrets of Reverse Engineering

By Eldad Eilam

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## Reversing: Secrets of Reverse Engineering By Eldad Eilam

Beginning with a basic primer on reverse engineering—including computer internals, operating systems, and assembly language—and then discussing the various

applications of reverse engineering, this book provides readers with practical, in-depth techniques for software reverse engineering. The book is broken into two parts, the first deals with security-related reverse engineering and the second explores the more practical aspects of reverse engineering. In addition, the author explains how to reverse engineer a third-party software library to improve interfacing and how to reverse engineer a competitor's software to build a better product.

- \* The first popular book to show how software reverse engineering can help defend against security threats, speed up development, and unlock the secrets of competitive products
- \* Helps developers plug security holes by demonstrating how hackers exploit reverse engineering techniques to crack copy-protection schemes and identify software targets for viruses and other malware
- \* Offers a primer on advanced reverse-engineering, delving into "disassembly"—code-level reverse engineering—and explaining how to decipher assembly language

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## **Editorial Review**

### From the Back Cover

Sometimes, the best way to advance is in reverse

If you want to know how something works, you take it apart very carefully. That's exactly what this book shows you—how to deconstruct software in a way that reveals design and implementation details, sometimes even source code. Why? Because reversing reveals weak spots, so you can target your security efforts. Because you can reverse-engineer malicious code in order to neutralize it. Because understanding what makes a program work lets you build a better one. You'll learn how here.

- Learn to read compiler-generated assembly language code for IA-32 compatible processors
- Decipher an undocumented file format or network protocol
- Understand when reverse engineering is legal, and when—and why—it may not be
- See how hackers use reversing to defeat copy protection technology
- Find out how to pull the plug on malicious code
- Determine how to prevent others from reversing your code, and find out how effective such steps can be
- Explore reverse engineering on the .NET platform and its assembly language, MSIL
- Observe the dissection of a real-world malicious program and see how the attacker used it to control infected systems

### About the Author

**Eldad Eilam** is a consultant in the field of reverse engineering. He assists clients with operating system and in-depth software reverse engineering, and has devoted several years to developing advanced reverse engineering techniques.

## **Users Review**

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#### **Sandra Murray:**

As people who live in often the modest era should be up-date about what going on or details even knowledge to make all of them keep up with the era which can be always change and advance. Some of you maybe may update themselves by reading books. It is a good choice for you but the problems coming to you actually is you don't know which you should start with. This Reversing: Secrets of Reverse Engineering is our recommendation to make you keep up with the world. Why, since this book serves what you want and need in this era.

#### **Daniel Gutierrez:**

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