Windows Assembly Programming Tutorial

Version 1.02

Copyright © 2003, Jeff Huang. All rights reserved.
"This is for all you folks out there, who want to learn the magic art of Assembly programming."
- MAD

Introduction

I have just started learning Windows assembly programming yesterday, and this tutorial is being written while I'm learning the language. I am learning assembly from reading various tutorials online, reading books, and ask questions in newsgroups and IRC. There are a lot of assembly programming tutorials online, but this tutorial will focus on Windows programming in x86 assembly. Knowledge of higher level programming languages and basic knowledge of computer architecture is assumed.

Why Assembly?

Assembly has several features that make it a good choice many some situations.

1. **It's fast** – Assembly programs are generally faster than programs created in higher level languages. Often, programmers write speed-essential functions in assembly.

2. **It's powerful** – You are given unlimited power over your assembly programs. Sometimes, higher level languages have restrictions that make implementing certain things difficult.

3. **It's small** – Assembly programs are often much smaller than programs written in other languages. This can be very useful if space is an issue.

Why Windows?

Assembly language programs can be written for any operating system and CPU model. Most people at this point are using Windows on x86 CPUs, so we will start off with programs that run in this environment. Once a basic grasp of the assembly language is obtained, it should be easy to write programs for different environments.
End of ebook preview
Download the full PDF tutorial from the link below:

Click Here