

Microsoft Macro Assembler x86 MASM Programmierung

Dauer: 4 Tage

Kursbeschreibung

The Microsoft Macro Assembler 8.0 (MASM) is a tool that consumes x86 assembly language programs and generates corresponding binaries. Assembly language programs built with MASM can be edited and debugged using Visual C++ 2005 Express Edition. This installation requires the Visual C++ 2005 Express Edition to be installed on the computer.

This download is for non-commercial use only, see the EULA during installation for more details.

Themenschwerpunkte

- **Microsoft Macro Assembler (MASM) Overview**
 - Installing and Using MASM
- **Organizing Segments**
 - Memory Segments; Segment Directives
 - Memory Model
 - Small, Medium, Compact, Large, Flat and Huge Models
- **Programming Overview**
 - Defining and Using Simple Data Types, Data Initialization, Constants, Statements, Working with Simple Variables, Moving Data
 - Addition, Subtraction, Multiplication and Division
 - Logical Instructions
 - Shifting and Rotating Bits
 - Operands
 - Register Operands, Direct Memory Operands, Indirect Memory Operands
- **Complex Data Types**
 - Arrays, Strings, Records, Structures, and Unions
- **Controlling Program Flow**
 - Jumps, Loops, Procedures
- **Sharing Data and Procedures Among Modules and Libraries**
 - Organizing Modules
 - PUBLIC and EXTERN
- **Mixed-Language Programming**
 - Naming and Calling Conventions
 - The C Calling Convention
- **Using Macros**
 - Text Macros
 - Creating Macro Procedures
 - Passing Arguments to Macros
- **Topical Cross-Reference for:**
 - Processor Instructions, Symbols and Directives
- **Glossary**

Voraussetzungen

Programmier-Kenntnisse.

Zielgruppe

Systemnahe Programmierung

Begleitendes Kursmaterial

- Kursordner (englisch)