

- 1) Manual assembly
- 2) By using an assembler.

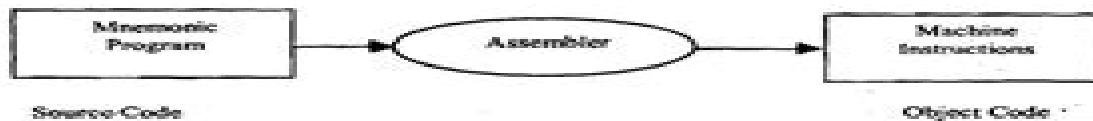
Manual Assembly

It was an old method that required the programmer to translate each opcode into its numerical machine language representation by looking up a table of the microprocessor instructions set, which contains both assembly and machine language instructions. Manual assembly is acceptable for short programs but becomes very inconvenient for large programs. The Intel SDK-85 and most of the earlier university kits were programmed using manual assembly.

Using an Assembler

The symbolic instructions that you code in assembly language is known as - Source program.

An assembler program translates the source program into machine code, which is known as object program.



The steps required to assemble, link and execute a program are:

Step 1: The assembly step involves translating the source code into object code and generating an intermediate .OBJ (object file) or module.

The assembler also creates a header immediately in front of the generated .OBJ module; part of the header contains information about incomplete addresses. The .OBJ module is not quite in executable form.

Step 2: The link step involves converting the .OBJ module to an .EXE machine code module. The linker's tasks include completing any address left open by the assembler and combining separately assembled programs into one executable module.

The linker:

- combines assembled module into one executable program
- generates an .EXE module and initializes with special instructions to facilitate its subsequent loading for execution.

Step 3: The last step is to load the program for execution. Because the loader knows where the program is going to load in memory, it is now able to resolve any remaining address still left incomplete in the header. The loader drops the header and creates a program segment prefix (PSP) immediately before the program is loaded in memory.

Solution Manual Of Assembly Language Programing

Ahmed K. Noor,Harvey G. McComb

Solution Manual Of Assembly Language Programing:

Assembly Language Programming for the IBM System 370 and Compatible Computers: Student's solution manual
Michael D. Kudlick,1988 Solutions Manual - ARM Assembly Language CRC Press,2009-04-28 Suitable for those with some background in digital logic and high level programming this work serves as a text for new programmers as well as a reference for students and professionals It focuses on what is needed to compile for ARM details real assembly uses and explores situations that programmers may ultimately encounter **Assembly Language Programming for the IBM System 370 and Compatible Computers** Michael D. Kudlick,1988 Microcomputer Assembly Language Programming
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Presents a comprehensive business oriented approach to teaching assembly language programming on IBM and IBM compatible computers **68000 Assembly Language Programming and Interfacing** Ambrose Barry,1992 Using an integrated applications format this book provides novice computer users a solid and complete foundation in both language programming and interfacing techniques KEY TOPICS The book explains each new idea and concept with a set of step by step instructions for its application in real life situations Coverage is aimed at readers with no previous computer or digital experience *NASA Conference Publication ,1982*

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