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background

This book has two major objectives: to teach procedures for the design of software systems and to provide a basis for judgement in the design of software. To facilitate our task, we have taken specific examples from systems programs. We discuss the design and implementation of the major system components.

What is systems programming? You may visualize a computer as some sort of beast that obeys all commands. It has been said that computers are basically people made out of metal or, conversely, people are computers made out of flesh and blood. However, once we get close to computers, we see that they are basically machines that follow very specific and primitive instructions.

In the early days of computers, people communicated with them by *on* and *off* switches denoting primitive instructions. Soon people wanted to give more complex instructions. For example, they wanted to be able to say $X = 30 + Y$; given that $Y = 10$, what is X ? Present day computers cannot understand such language without the aid of systems programs. Systems programs (e.g., compilers, loaders, macro processors, operating systems) were developed to make computers better adapted to the needs of their users. Further, people wanted more assistance in the mechanics of preparing their programs.

Compilers are systems programs that accept people-like languages and translate them into machine language. Loaders are systems programs that prepare machine language programs for execution. Macro processors allow programmers to use abbreviations. Operating systems and file systems allow flexible storing and retrieval of information (Fig. 1.1).

There are over 100,000 computers in use now in virtually every application. The productivity of each computer is heavily dependent upon the effectiveness, efficiency, and sophistication of the systems programs.

In this chapter we introduce some terminology and outline machine structure and the basic tasks of an operating system.

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