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The history of operating systems in computer science dates back to the early days of computing when computers were used primarily for scientific and military purposes. Over the decades, the evolution of operating systems has played a major role in shaping the development of computer science, enabling innovative solutions and advancements in technology.

The first operating system, known as the "Initial Program Loader" (IPL), was developed in the late 1940s for the Electronic Numerical Integrator and Computer (ENIAC). It was a set of bootstrapping instructions loaded into the computer's memory that enabled it to perform basic functions such as reading and writing data. Soon, other early operating systems like IBM's GMOS (General Motors Operating System) and AT&T's UNIX emerged in the 1960s and 1970s.

The introduction of UNIX marked a significant shift in the history of operating systems, as it represented a fundamental change in how computers were used. It was designed to be a multi-user, multitasking system, allowing multiple users to access and use the computer's resources simultaneously. This paved the way for the development of time-sharing systems, allowing for more efficient use of computer resources.

In the 1980s, the most commercially successful operating system, Microsoft's MS-DOS, was introduced. It was a command-line based system that offered users a more user-friendly interface compared to previous systems. However, it was still limited in its capabilities and required users to have a good understanding of the underlying commands and functions.

The 1990s saw the rise of graphical user interface (GUI) operating systems, with the introduction of Windows and Mac OS. These operating systems provided a more visually appealing and user-friendly interface, making computers more accessible to the general public. The development of Windows also kickstarted the era of personal computing, as it became the standard operating system for most computers sold to consumers.

In the late 1990s and early 2000s, the Linux operating system gained popularity. It was developed as an open-source alternative to proprietary operating systems like Windows and Mac OS. Linux offered users a stable and efficient system, and its open-source nature allowed for easier customization and development.

The 21st century has seen the emergence of mobile operating systems, with the rise of smartphones and tablets. The Android operating system, developed by Google, has become the most widely used mobile operating system, while Apple's iOS and Microsoft's Windows Mobile continue to compete in the market.

The advancement of technology has also led to the development of cloud-based operating systems, where most of the processing and storage is done on remote servers rather than on

the user's device. This has allowed for easier access to data and services from anywhere, at any time.

In recent years, the lines between operating systems have become blurred, with the integration of features from different systems. For example, Microsoft's Windows 10 now allows users to use both the traditional desktop interface and a mobile-style interface, blurring the lines between traditional desktop and mobile operating systems.

In conclusion, the history of operating systems in computer science has been a continuous cycle of evolution and innovation. From the basic bootstrapping instructions of the IPL to the cloud-based systems of today, operating systems have played a crucial role in shaping the development of computing and technology. With the constant advancement of technology, it will be interesting to see how operating systems continue to evolve in the future and what impact they will have on the world of computing.

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