1. Mengapa kita perlu mempelajari Sistem Operasi?

Answer:

As a student of Informatics Technology Department, Operating System knowledge is needed to make a program. As an intermediary between user and the hardware, the OS plays a big role for the program to run. Not to mention the various OS the developer has to procure for the user for various platform.

1. Apa pentingnya Sistem Operasi di era digital saat ini?

Answer:

OS is critical in the digital as every hardware require an OS to be operated by users.

1. Menurut Anda bagaimana Sistem Operasi di masa mendatang?

Answer:

In the future OS will always try to catch up to current technological advancement and user needs as various open-source OS try to produce the best user experience for various platform.

1. Jelaskan Sistem Operasi dari sudut pandang Pemrogram/Programmer!

Answer:

As programmer, OS is instrumental to the program they try to make. The programmer would have various control depending on the feature they have.

1. Jelaskan struktur sistem operasi Windows pada gambar berikut:



Answer:

Windows NT has two main components: user mode and kernel mode. The kernel manages device drivers and synchronization, while the Executive manages I/O, object, security, and process management. The user mode subsystems use the I/O manager to communicate with the kernel mode device drivers. Windows Driver Model exists in the intermediate layer, and the lowest level drivers are either legacy or PnP hardware buses.

1. Jelaskan gambar berikut ini!



Answer:

The three main states of a process in an operating system are running, waiting, and ready. Running means that the process is currently being executed by the CPU. Waiting means that the process is waiting for a specific event, such as I/O or a signal. Ready means that the process is waiting to be assigned to the CPU.