

Operating Systems (UE18CS302)

Unit 1

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1 What is an Operating System

Definition 1. A system program that acts as an intermediary between user and the computer hardware being used.

1.1 Goals of an OS

1. Execute user programs, make problem solving easier for the user.
2. Make the system convenient to use.
3. Use computer hardware resources in the most efficient manner possible.

User convenience and optimized resource usage most of the time are contradictory goals, which involves a trade-off to achieve the optimum balance.

1.2 The User's view of an OS

The end user of a computer system defines the Operating System in the following manner:

- Offers convenient access to computational power, while being *easy* to use and offering *good* performance.
- The end user does not care much about actual resource usage in the computer.

The user level definition of an OS may even vary based on the computation environment.

- Workstations and mainframe computers must share system resources fairly among all users.
- A handheld system is resource poor and must be optimized for high battery life and ease of use.
- An embedded system or an IoT device does not have any User Interface (UI) and must be optimized for a specific task only.

1.3 The system view of an OS

From the point of view of actual computing, the OS may be defined as the following:

- **The OS is a resource manager.** It allocates the computing resources in a fair and efficient manner to all programs that request for access to these resources.
- **The OS is a control program.** It controls the execution of programs and prevents errors/misuse of the computing resources by these programs.

Operating Systems Concept Solution Manual

Michael Rajnik



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