

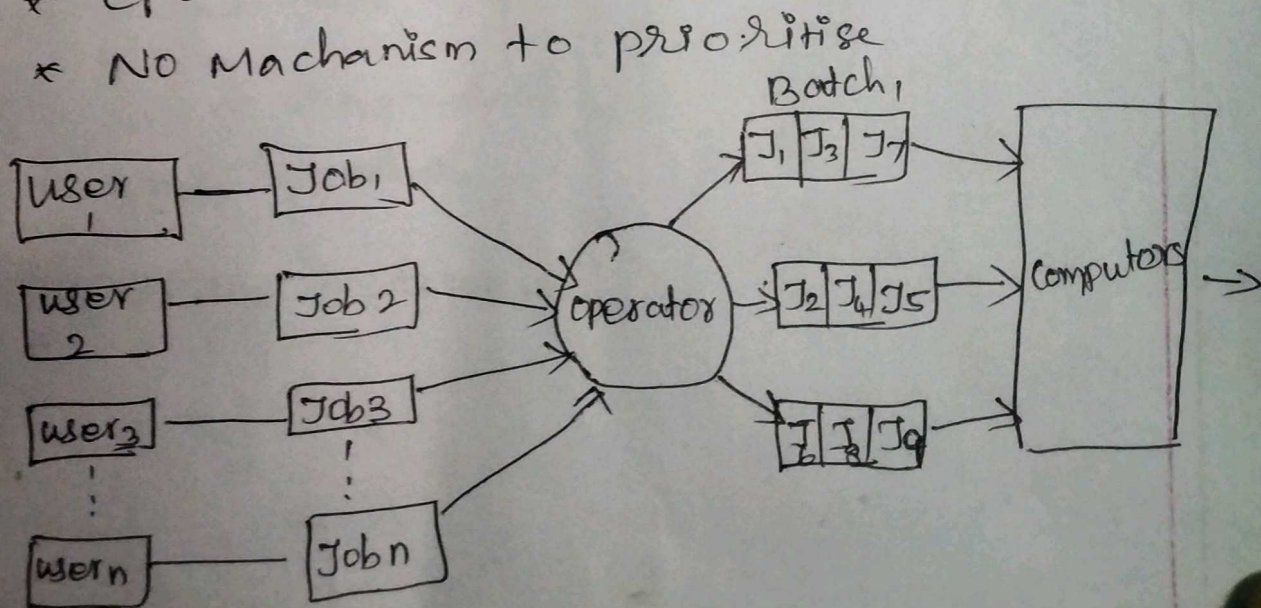
Classification of operating system.

Types of OS

- * Batch operating system.
- * Multiprogramming OS
- * Multitasking OS
- * Multiprocessing OS
- * Realtime OS
- * Network OS

(*) Batch operating system

- * No interaction b/w user & computer
- * Resident monitor
- * Punch cards
- * Payroll system & Bank statements
- * CPU is often idle
- * No mechanism to prioritise



* Multi programming operating system

Program A Run wait Run wait

Program B Run wait Run wait

Program C Run wait Run wait

Combined

Run A	Run B	Run C	Run A	Run B	Run C
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* Multitasking OS

- More than one job at a time
- time slice
- time sharing.

* Multiprocessing OS

- More than one CPU
- 2, 4, 8, or thousands of CPU working together.
- Reliability increased

* Real time OS

- The ability of the OS to provide a required level of service in a bounded response time
- Required to do ~~some~~^{certain} tasks of exact time

Two types of Real time OS

- * Soft RTOS (telephone switching, image processing)
- * Hard RTOS (Flight control system, nuclear power, etc)

* Network OS

→ OS that includes special functions for connecting computers & devices into a local area N/w (LAN) or Internetwork.

Eg) Novell Netware - Banyan VINES, Microsoft windows xp, Linux.