5 What is an Operating System? 1. A program that acts as an intermediary between a user of a computer El the computer hardware. 2. Example: - windows 10, windows 8, Apple's mor as El Linux.

peration Sustern goals. Execute Juser programs of make solving users problems easier 2. Make the computer system convienient to use. 3. use the computer hardware in an efficient manner .

Computer System Components 1. Hardware - provides basic computing resources (CPU, memory, 110 devices). 2. Operating system - controls El coordinates the use of the hardware among the various application programs for the various users 3. Applications programs- define the ways in which the system resources are used to solve the computing problems of the user (compilers, database systems, video games, business. programs 4. Users (people, machines, other computers).

04 Device management management Processor Functions nanagement accounting Security Eseros Condination detection BetweenSW El USER

or the companies. Systems. Types of Operating systems. Batch os Multipro-Distributed Time-Shaving Ols. Real-time 1. Batch operating system

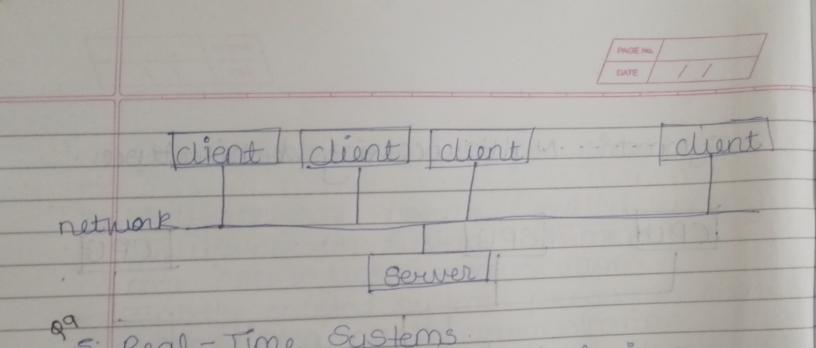
Batch Operating System. operating System. Batch

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- (i) This type of operating system does not interact with the computer directly. (ii) There is an operator which takes Similar jobs having same requirement El group (iii) It is the responsibility of operator to sort the jobs with similor needs - In a punch and system, human invention was required for each punch and, which was an overhead - Thus, in Batch operating system, a collection of cools known as batch used to st submit reducing human. intervention. - atypes of cords were used i) Data cards: used to contain actual information.

(ii) control cards: Used to control the flow of execution.

Distributed Systems. istribute the copy computation among sevoral shysical processors. Losely cop coupled system- each processor has its own local memory; processor communicate with one another through various communications lines, such as high-speed buses on telephone lines. - Advantages of distributed systems: (+) Resources showing. computation speed up-load shaving (iii) Reliability (iv) Communications - Requires networking infrastructure - Local area, networks (LAN) on wide area networks (WAN) - May be either dient-server or peur-to-peur systems. a General structure of client-Server



Real-Time Systems. Often used as a control device in a dedicated application such as controlling scientific experiments, medical imaging systems, industrial control systems, ep some display systems. well-defined fixed-time constraints. Real-Time systems may be either hard on soft real-time a) Hased real-time. TOS-Kernel BSP. custom Hardware

a) Hard real-time serondary storage limited on absent, data stoned in Short Herm memory, or read-only memory (ROM). conflicts with time-sharing systems, not supported by general-purpose operating systems n) soft real-time. - limited utility in industrial control of robotics - useful in applications (multimedia, virtual reality) requiring advanced operating-system - Leatisés

poyating mobile os is a software that allows sones, tablet PCs & other hand held devices to sun applications el programs. Android

-	Disk scheduling.
	0
	Extra (Unit 1)
	Sunge strategy shiver motives contains on
->	Difference between GUI EP CLI
	interaction, file, management process
	aom Climber Gul
1)	stands for command Stands for Graphical
6	line interface user interface.
	It permits the user It permits the user to
	to interact with system interact with system
	using commands. I using graphical controls.
3)	It is fast It is slow
4)	Not much flexible more flexible
5)	User should have Even a beginner can
	good knowledge of leasily handle.
	commands.

-> Mulliprogrammed operating system. 1 Multi-programmed operating system allows multiple programs to run corque concurrent by shaving the CPU. (2) It improves CPU utilization et overall system efficiency (3) It's like having multiple people working on different task at the same times mokeng the most of the available resources, (4) Several jobs are kept in the main memory at the same time Ef the CPO is multipled among them. MINIMORAL OF JACON JOHN 207135 Hora 30 19 and what your son town costs done draw

Operating System JOD1 Joh 2 J063 Job 4