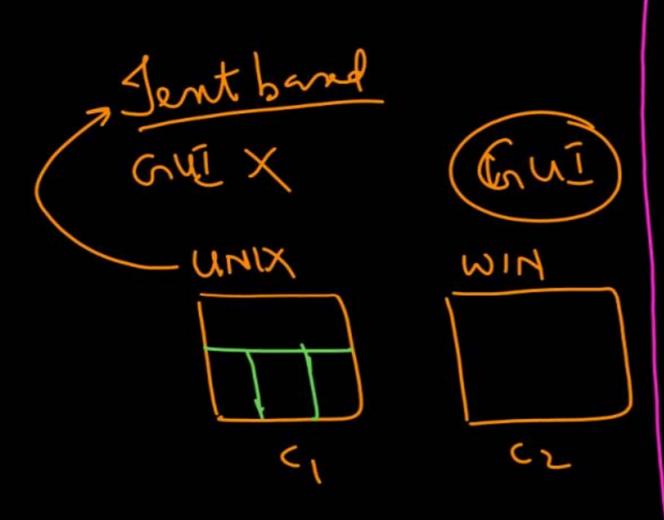
Functions & Goals of OS



A Convenience 3 efficiency S S Robustness -> Reliability to Scalability -> Portability

Primary God Jos

Sat: 5-9 Sum: 9am-1Pm

Aboility to evolve

1., For (von-Neumann) Arch. Primary Goals is Computing Domain changes, Goals changes 1 Real time Compuling: (RTOS) (RTS) Systems that operate in VXWOORS Strict Deadlines (Jime Constraints)

En: Missile Control,

Satillite, ATC, Military operations

Aluckean Systems Nuclear Sys ...

Real time Systems Enguing System (Bank ATM) Hand -> Deadlines Not strict - Deadlines are very tight -> No loss Destruction (strict) - heavy losses Kimary Goal) RTOS Destriction

Mobile 0.5 (Mobile Computing) -> Primary Goal > Convenience efficiency Battery Power

Parallel Computing Domain : Amoeba (|Xulti-processor Systems) Distributed CPUI CPUZ

Types of 0. S? 1930-401 Disk Jechnology (Cend-Readen) * Uniprogrammed & Multiprogrammed Gen: (19 % - 50) Mag. Tapes 3rd Gen.: 1950 - 60's (Mag. Disk)

Uniprogramme: Ability of the 0.5 to Laad and enecute a single program in Memory Drawback : Illeners of Inelliciency qu

Ability of 0.5 to Load and Multiprogramming. manage execution of Multiple Ready to Run programs in S_ Area Memory, Objective 9 M.Pros Thrubut 74 Man cpu wiliz Min. Illemen of

Thruput: reo of Programs/ Tasks/appl.
Completed per unit time; 10 program - 60 m 10 - (1/6)

4x60

Pr. M.Pros Multiprogramming (UNIX; LINUX; WINDOWS; No forceful sealled Pre Emptive N.Fr) A Completion function cell to 0.5 20 to IO for availing OS Service voluntaril Enporte Prehmption: Pr.M.Pr is CPY Starvation Multitasking 47 Priority responsivening) -> Jime Interactivemen