50 52 Mailinge stime in 1 10001 1 1 1 1 1 1 1 1 1 1 1 1 At - 3-3 A 10 1 -P1 -8-8 RICION P31216-729 19 Calina 100 Par 21 21 21 21 120 mi without the sheller 10000 Average waiting the = 0+3+9+1622 A Evenue specialisad addressing like 12 Recard and an and and Frank Sec in sadicati - Alexandricher and internationally a 3) Priority Baled or Event - Driven 21 Scheduling :- Victor Renord Stalling D' A Pribrity number lintegers is associated with each process. The basic idea is Straight torward : each process is assign ned a Priority, and Priority is allowed to run, Equal - Priority Processes are Scheduled in RCFS order. The Shortest-Job-First (SJF) algorithm is a special Cale of general Priority Scheduling algorithm. STE is a Priority Scheduling where Priority is the Predicted next CPU burlt time. The CPU, is allocated to the Process with the highest Briority (smallel) for integer = Lighest Priority. Fqual Priority Processes are scheduled ECES Priority (an be defined either

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51 internally or, externally. Internally defined Priorities use some measure ble quantifies or equalifies to compute Priority of a Process, Priority Scheduling can be eitter Preemptive or, non-Preemplive. to a three Solars have be Example: consider the following set of five Processes, assumed to have arrived at the Same time. Find everage waiting lub dimendaria 1. Por Light Windows 21 And Irop 10 1.5 mil Process Arrival Time Priority And so and stand OR MA MALARAS Paradennyento Loop LIVAY en Ail 20 21 Ser cardene U.Ra prover Marion 1000 210 220500 Jan 12) I brank chardi by mand man in Mailing time: the repair and P2F Ps= 6-5=1 (1) Martin

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52 PIE16-1026 Manuel Paz 18-2216 - A STATION 19219-1218 Sing all property 1. Average mailing time = 0+1+6+16+18 auto Sond 8.2 mili Sec. 1 march 1 mars AD CONTRACTOR . 4) Round Robin (RR) Scheduling: one of the endelt, Simplest, Fairest and most widely used algorithm is round robin (RR). The round robin Scheduling algorithm is Primarily used in time-Sharing and multi user System convin mment where the frimary requirement is to Provide reasonably good response Homed and in general to share the System Fairly among all System uters. basically the CPU time is divided into the time Slices. Each process is allocated a Small time-Slice called guantum. No Process can run tor more than quantum while others are mailing in the ready guerres After the time as elapsed, the process is preempted and dded to the end of the ready queue TAKE I IN CLEAR CAN

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53 Frample & Marin Hall Marin a Consider the following set of Process with the processing time given in milisero nd and Quantum time is 4 miliser. find average mailing times Marie D. 11 Process Processing time Francis Pincis Pincis Pincis Contra Pincis mont rolaridra 20 stars 0. 103 HILPMON ROJA STOCKE KEENONDRONU =>(1) (fignite charten) 121 P3 R1 R1 4. 7 10 14 waiting time: , will phone P1 = 30-24=6 100- mail bours 227-3 24 alling 13-210-327 i. Average would by time I 6+9+7=17:566; Inolina Indi harder Libert Arthurd D? · CPU utilization - Keep the CPU as busy Cil Possible. CPU utilization = (Processor Busy Time) (Processo (1) pro budy time + processor Idle Time).

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