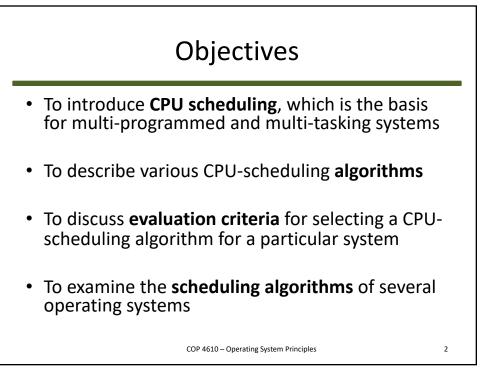
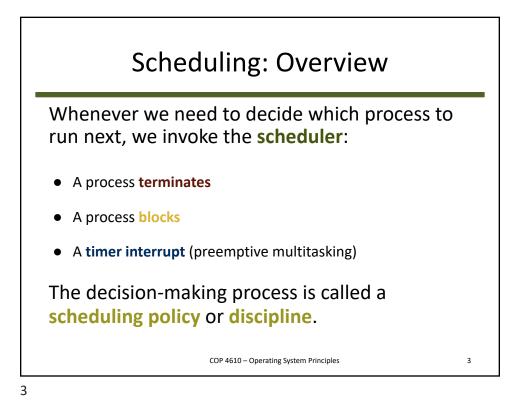
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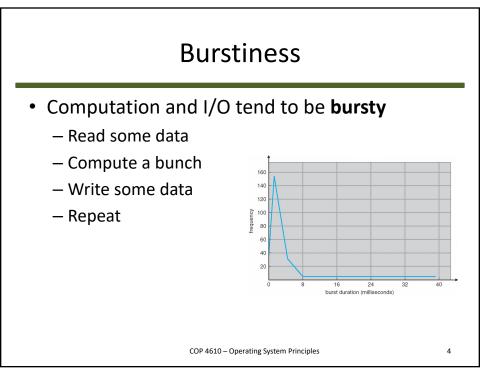
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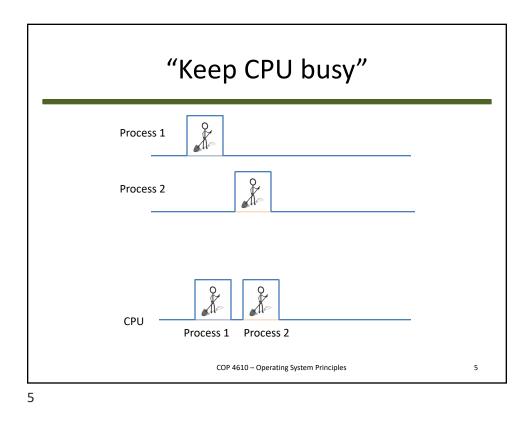
Scheduling

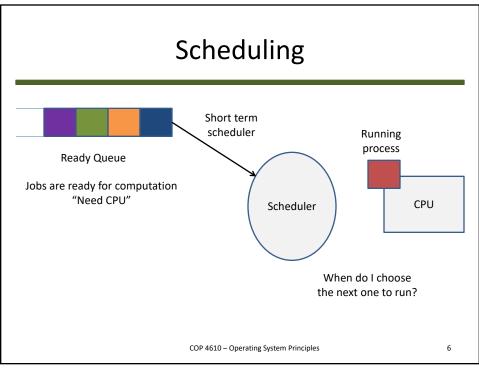
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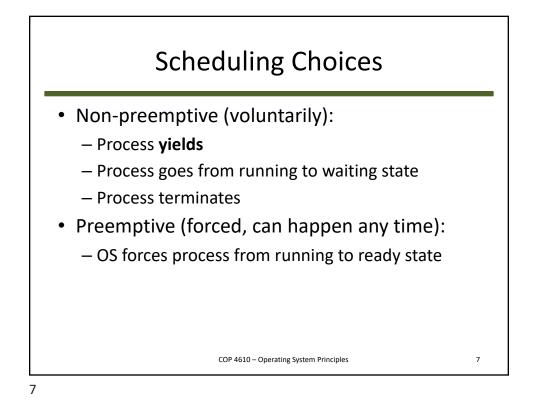


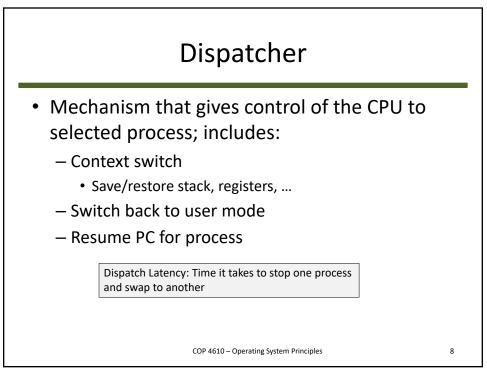


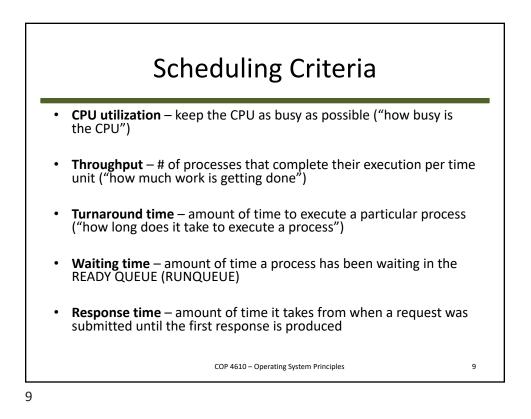


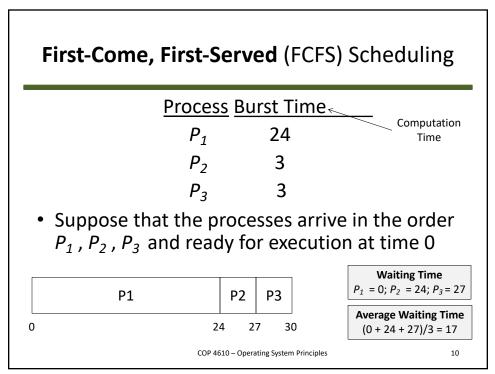


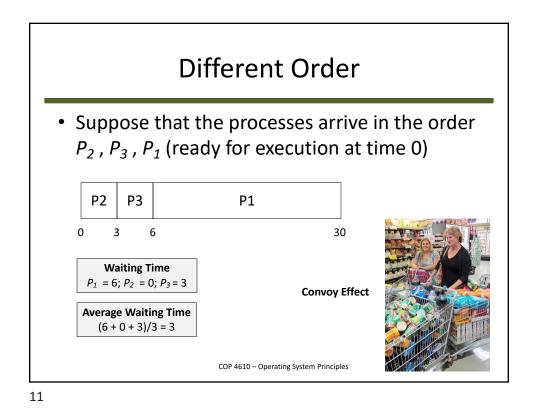


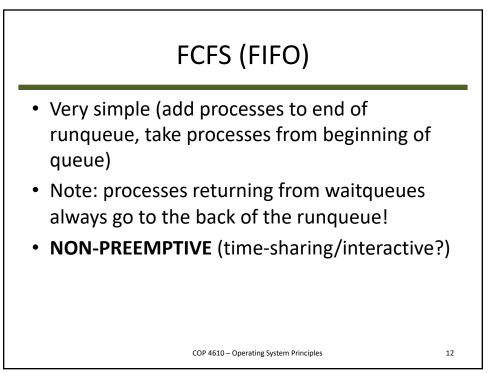


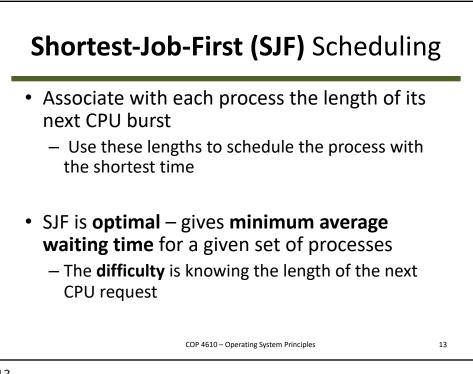


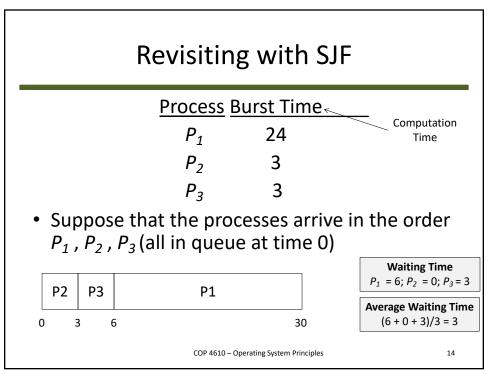


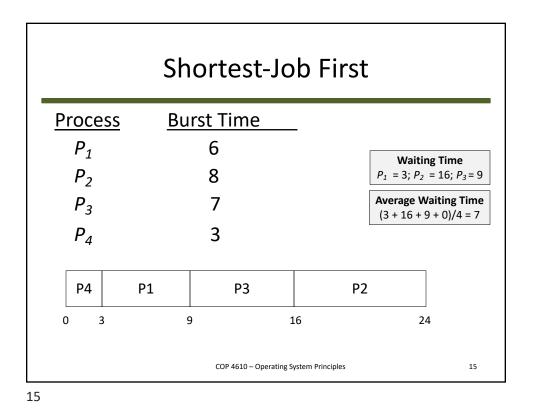




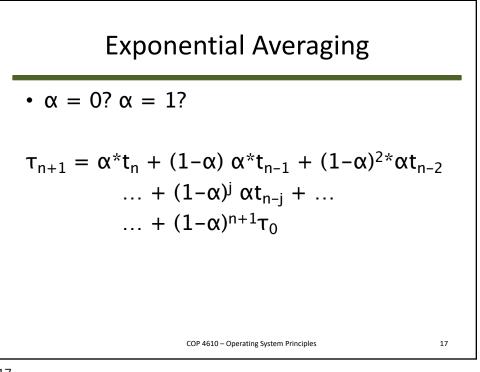


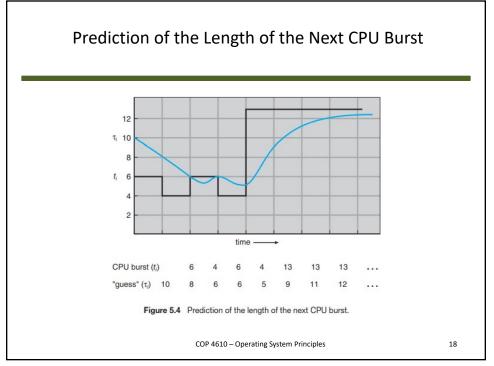


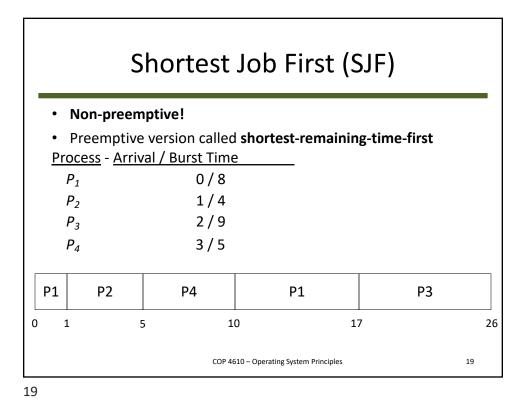


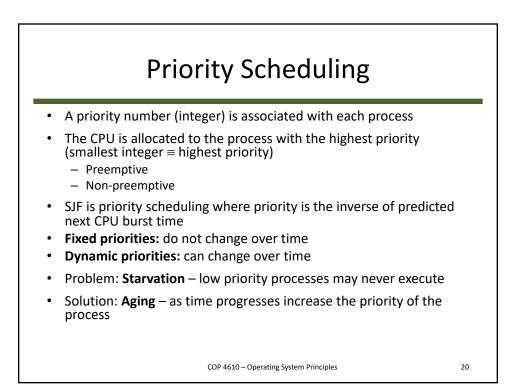


Determining Length of Next CPU Burst Can only estimate the length – should be similar to the previous one - Then pick process with shortest predicted next CPU burst Can be done by using the length of previous CPU bursts, using exponential averaging 1. t_n = actual length of n^{th} CPU burst 2. τ_{n+1} = predicted value for the next CPU burst $\tau_{n+1} = \alpha t_n + (1-\alpha)\tau_n.$ 3. α , 0 $\leq \alpha \leq 1$ Also called 4. Define : EWMA **E**xponential Weighted Commonly, α set to $\frac{1}{2}$ Moving Average COP 4610 – Operating System Principles 16









Example of Priority Scheduling			
Process	<u>Burst Time</u>	<u>Priority</u>	
<i>P</i> ₁	10	3	
P ₂	1	1	
<i>P</i> ₃	2	4	
P_4	1	5	
P ₅	5	2	
 Low number = high priority 			
 Dynamic versus static/fixed priority 			
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