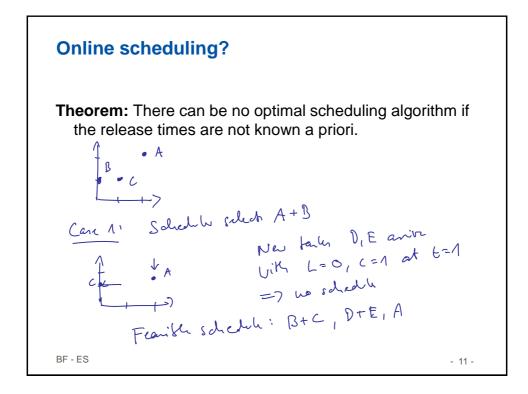
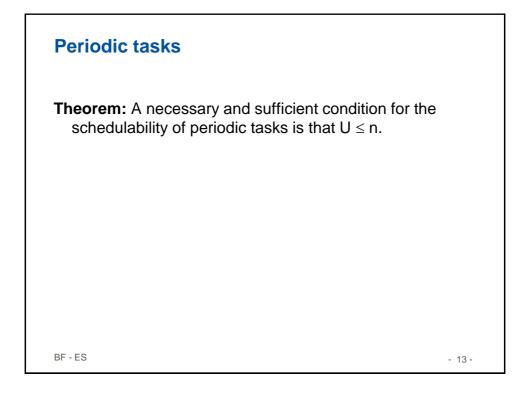


$$SCP(t,k) = \lim_{\substack{k \in I \\ k \neq k \in I}} - \sum_{\substack{k \in I \\ k \neq k \neq I}} \frac{\sum_{\substack{k \in I \\ k \neq k \neq I}} - \sum_{\substack{k \in I \\ k \neq I \\ k \neq I}} \frac{\sum_{\substack{k \in I \\ k \neq I}} \sum_{\substack{k \in I \\ k \neq I}} \frac{\sum_{\substack{k \in I \\ k \neq I}} \sum_{\substack{k \in I \\ k \neq I}} \frac{\sum_{\substack{k \in I \\ k \neq I}} \sum_{\substack{k \in I \\ k \neq I}} \sum_{\substack{k \in I \\ k \neq I}} \frac{\sum_{\substack{k \in I \\ k \neq I}} \sum_{\substack{k \in I \\ k \neq I}} \sum_{\substack$$

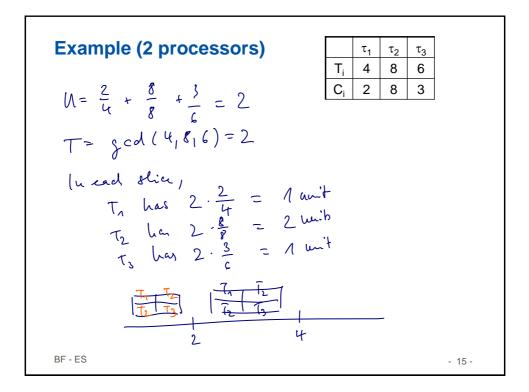
$$\begin{split} & \underbrace{\operatorname{CP}(t,t)}_{t \in \mathbb{Z}} \underbrace{\operatorname{CP}(t,t)}_{$$

$$SCP(t,k) = \underbrace{kr}_{k \in k} - \underbrace{\sum_{k \in k} C(t) - \sum_{k \in k} (k - L(t))}_{Notode to talk on the terms}$$
Councides a token that mand horizefully:
LLX choosen token in FR first
=) token in PR:
Cohristen to a SCP: - (k - Li (t+1) +
(k+n - Li (t+1))
Li (t+n) = Li (t) tn
= 0
BF-ES
$$- 10-$$





Scheduling idea
 Divide the time line into time slices such that each period of each process is divided into an integral number of time slices. Slice length T = GCD(T₁,,T_n).
 2. Within each time slice, allocate processor time in proportion to the utilization U_i = C_i/T_i originating from the various tasks. Processing time per slice r_i = TU_i = TC_i/T_i. Hence, each task runs T_i/T_i = T_i/T_i = C_i time units within its period.
 3. Allocate r_i according to the following algorithm (a) Look for the first processor proc_j that has free capacity in its time slices. (b) Allocate that portion of r_i to proc_j that proc_j can accommodate. (c) If all of r_i has been allocated then proceed with the next task (goto step a). (d) Otherwise allocate the remainder of r_i to proc_{j+1}. proc_{j+1} has enough spare capacity as it has not previously been used and r_i ≤ T due to U_i ≤ 1. Furthermore, due to r_i ≤ T, we don't generate temporal overlap between the two partial runs of task i.
BF - ES - 14 -



Scheduling idea	
This scheme works if	
the load isn't too high:	
$U = \sum_{i \in M} \frac{C_i}{T_i} \le n$	
and	
• the time slices allocated have integral length:	
$r_i = TU_i = T\frac{C_i}{T_i} \in N$ for each $i \in M$	
BF - ES	- 16 -

