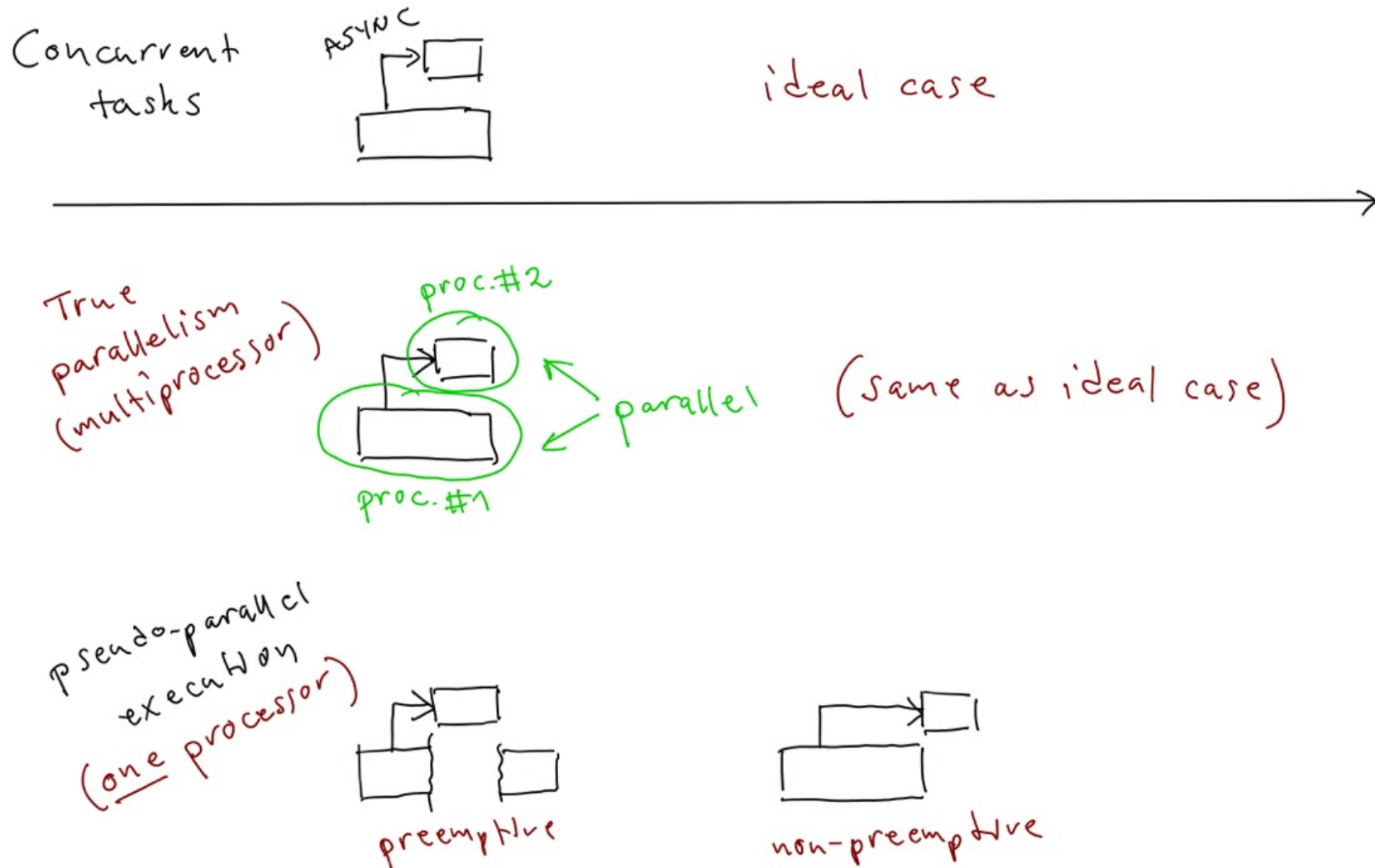
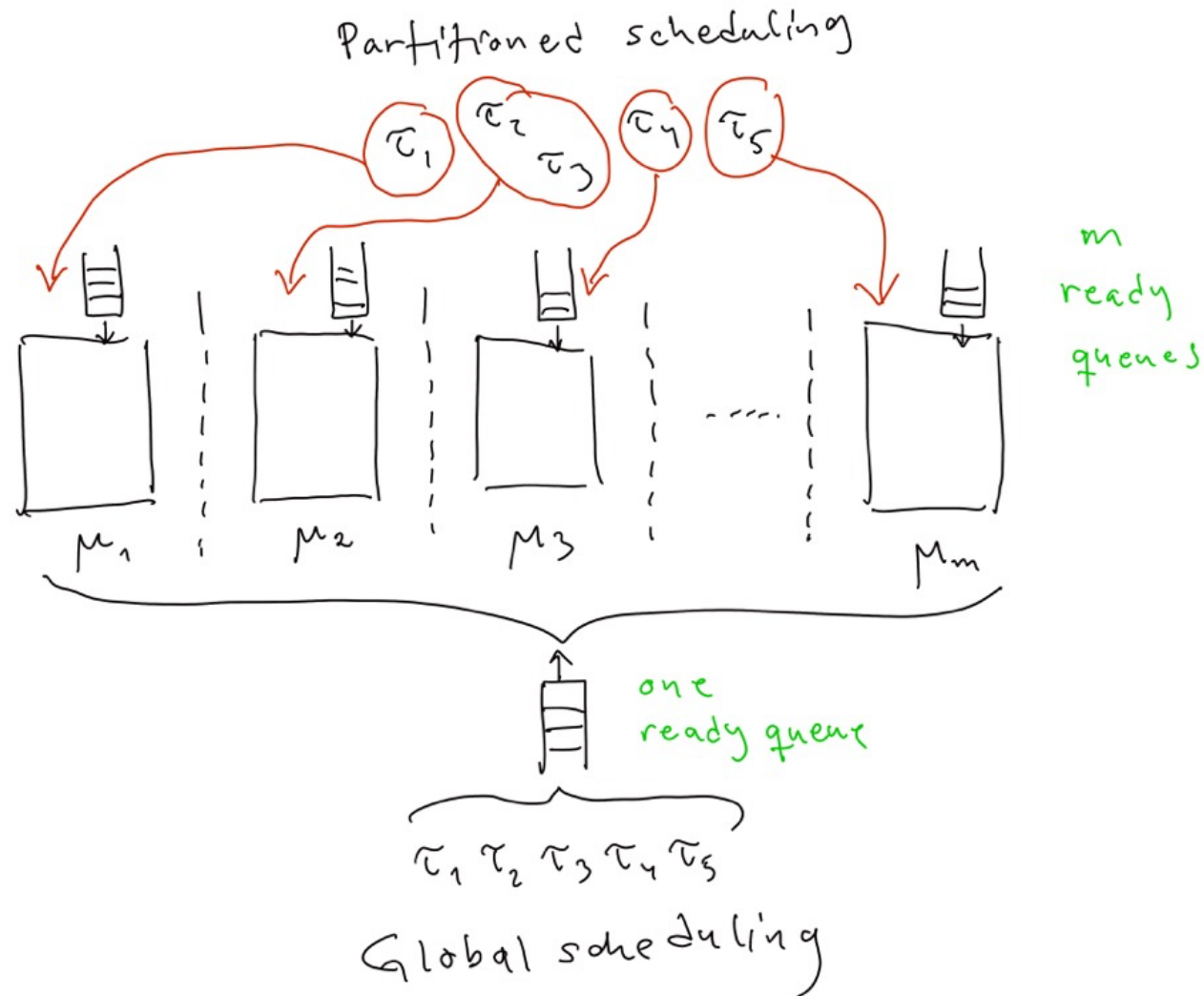


Lecture #14 – blackboard scribble



Lecture #14 – blackboard scribble



Lecture #14 – blackboard scribble

$$RM-US[m/(3m-2)]$$

$m = 3$ processors

Calculate utilization-separation (US) bound:

$$m/(3m-2) = 3/(3 \cdot 3 - 2) = 3/7 \approx 0,43$$

	Task	C_i	T_i	U_i
M_H	τ_1	1	7	0,143
M_L	τ_2	2	10	0,2
H	τ_3	9	20	0,45
H	τ_4	11	22	0,5
L	τ_5	2	25	0,08

Derive priorities:

Based on the US bound (0,43) tasks τ_3 and τ_4 are considered "heavy" tasks, and are assigned highest priority.

The remaining tasks are assigned RM priorities.

This gives two possible priority assignments (high \rightarrow low)

$\tau_3, \tau_4, \tau_1, \tau_2, \tau_5$

or

$\tau_4, \tau_3, \tau_1, \tau_2, \tau_5$