

ECU 1

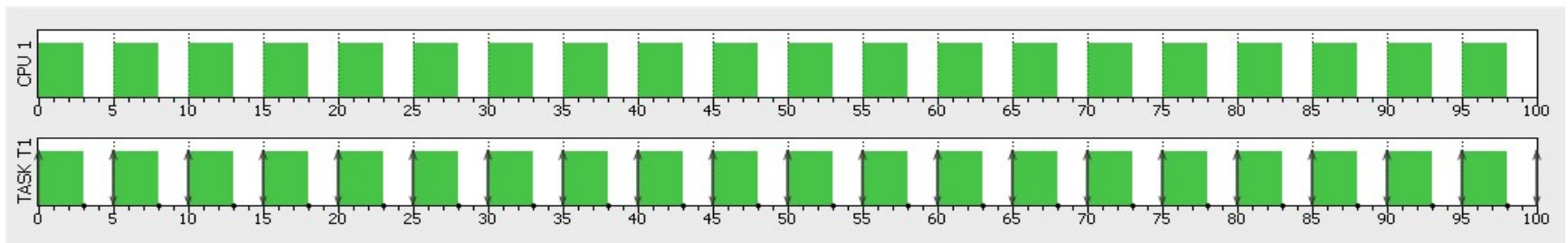
We have 3 tasks, Assuming every task have an execution time 1 mS,

	Period	Exe Time
Task 1	10	1
Task 2	20	1
Task 3	5	1
HyperPeriod	20	
CPU Load %	15	

With what percentage of system bus was busy per 1 second?

Assuming execution time = Sending on Bus time = 1 mS

$$\begin{aligned}
 &= \text{Summation of (Execution time * Period) of each Task} \\
 &= 35 \text{ mS} \quad \text{in period} \quad 100 \text{ mS} \\
 &= 35\% \quad \text{in 1 sec}
 \end{aligned}$$



ECU 2

We have 1 task, Assuming execution time 3 mS,

	Period	Exe Time
Task 1	5	3
HyperPeriod	5	
CPU Load %	60	