

CPU Load for ECU

Assume the periodicity of each task is 20 ms

Task	Deadline	Occurrence during hyper period
Light switch stated	20ms	1
Door sensing	10ms	2
Speed sensing	5ms	4

$$U = \frac{1 * 1 + 1 * 2 + 1 * 4}{20} * 100\% = 35\%$$