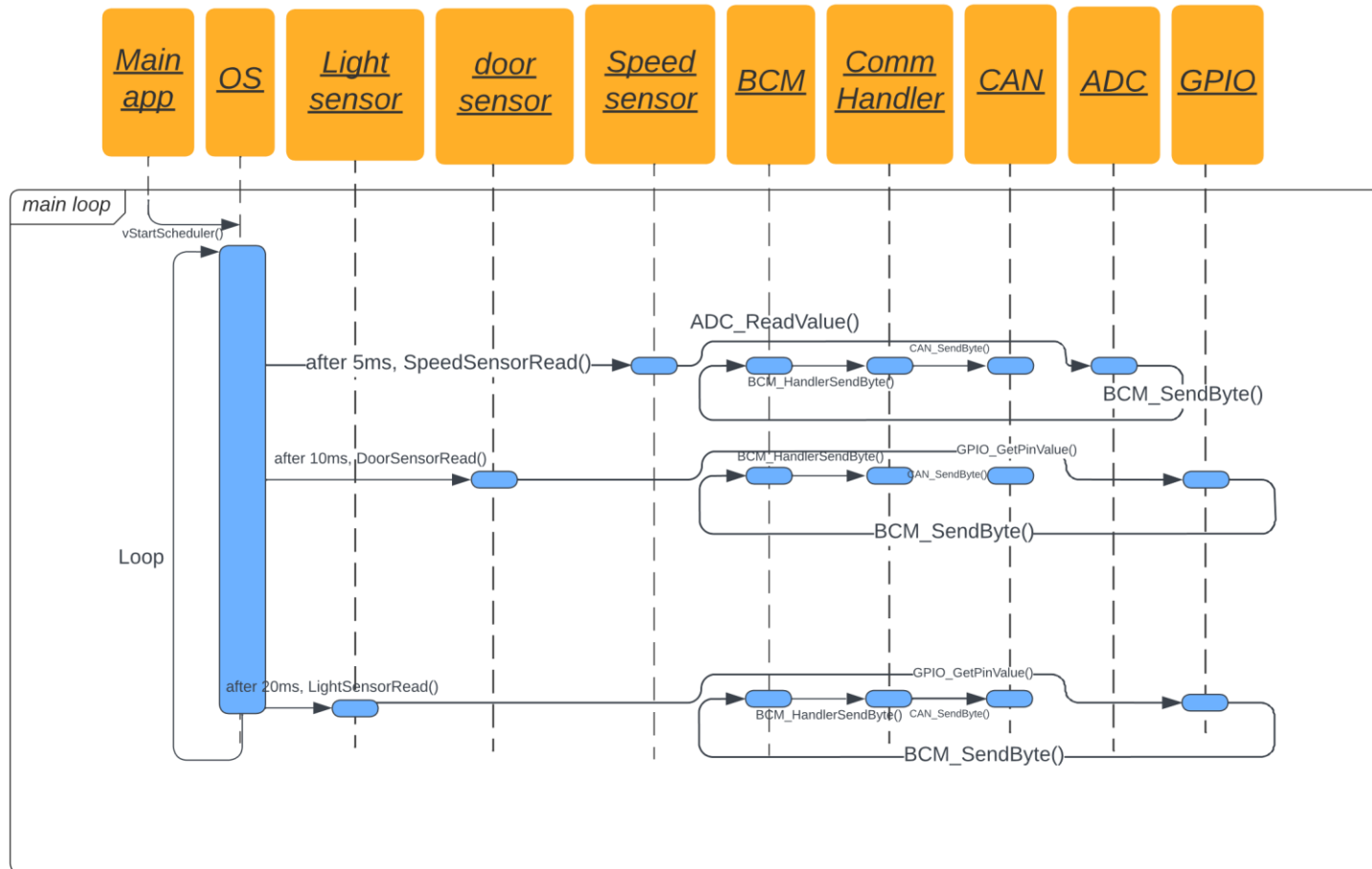
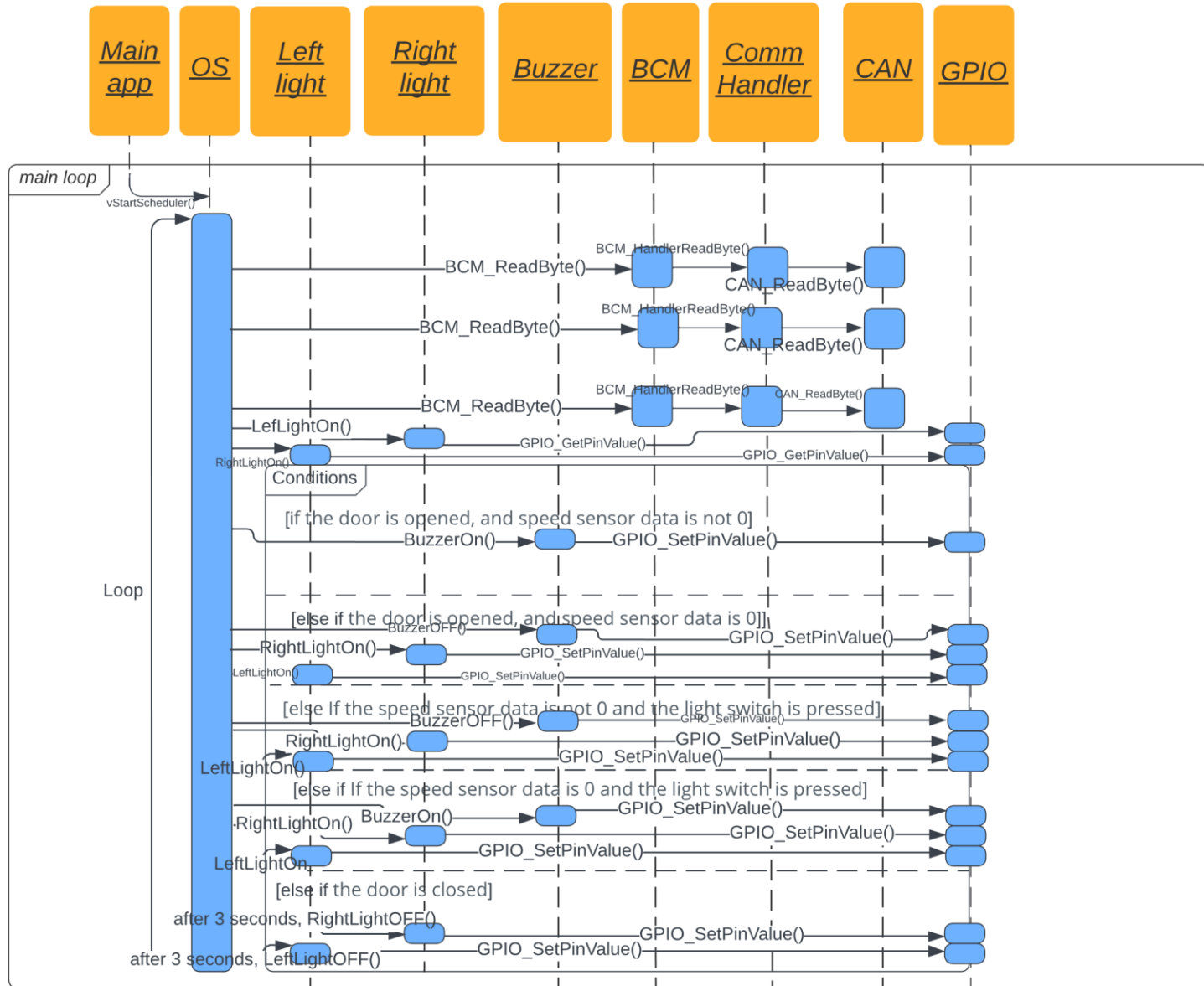


Sequence diagram for ECU1



Sequence diagram for ECU2



Calculating cpu load:

Assuming that periodicity equals deadline and

Assuming all tasks' execution time is 2ms

Applying the tasks on the offline simulator pointed that the cpu load is 65%

The screenshot displays two Qt application windows. The 'Model data' window is in the background, showing a table of task configurations. The 'Results' window is in the foreground, displaying simulation results for CPU 1.

Qt Model data - Tasks Table

id	Name	Task type	Abort on miss	Act. Date (ms)	Period (ms)	List of Act. dates (ms)	Deadline (ms)	WCET (ms)	Followed by	priority
1	TASK T1	Periodic	<input checked="" type="checkbox"/> Yes	0	10	-	10	2		0
2	TASK T2	Periodic	<input checked="" type="checkbox"/> Yes	0	20.0	-	20.0	2		0
3	TASK T3	Periodic	<input checked="" type="checkbox"/> Yes	0	5.0	-	5.0	2		0

Qt Results - Observation Window

from 0.00 to 80.00 ms

	Total load	Payload	System load
CPU 1	0.6500	0.6500	0.0000
Average	0.6500	0.6500	0.0000