

EMBEDDED SYSTEMS

ASSIGNMENT 5

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5.1 State actions

5.2 "Temporal logic events"

5.3 Measuring frequencies

Bild

Method 1:

- ⊕ quite accurate for higher frequencies, as long as sufficiently large window sizes are used
 - ⊖ overshoots and undershoots for lower frequencies as window sizes cannot be chosen infinitely large
 - ⊖ latencies for updates due to large window sizes
- ⇒ window size is always a compromise between accuracy for low frequencies and update latencies, for our purposes a window size of 100 ms, i.e. 100 clocks, was feasible

Method 2:

- ⊕ immediate update
- ⊕ good for lower frequencies
- ⊖ low accuracy for higher frequencies

5.4 Calculating the real-time constraints

5.5 Constructing the controller