



Sampling time

- Depending on the processing speed (2MHz in XEP 100 for example) and computations involved the sampling time needs to be judiciously chosen
- Most microprocessors work with integer data type for variables at the root level. If you are using other types of variables unnecessarily, it may increase the computation load drastically
- Experience XEP 100 programming with float.
- Thus during programming one needs to be aware of this issue

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Sampling time

- The sampling time would be chosen first based on the application speed required
- Then choice about microcontroller speed can be made properly by anticipating amount of computations involved
- Computations many times require signal processing which would be considered an additional computation load much more than computation of control law

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