

SignalServer – CPU load testing

**(for TOBI internal use only,
must not be published or distributed)**

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Ideas for testing the TOBI signalserver concerning CPU load:

- Measuring CPU time of the process without any additional workload
- Measuring CPU time of the process with heavy additional cpu power consuming workload (e.g. using CPU BurnIn)
- Measuring CPU time of the process with additional workload for the harddisk
- Comparing, how an increased number of channels or an increased samplingrate affects the cpu usage
(don't use the software sinegenerator!
...some additional features might have to be implemented for this test)
- A timestamp is available in the DataPacket. Logging the timestamp should produce a quite linear curve, what happens by increasing the workload?
- If possible:
 - Logging the cpu workload curve for the process and searching for points with increased cpu usage
(don't use the sinegenerator!)

What happens, if the process is not fast enough?