

Measurement Accuracy & ANOVA

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I have some time latency data for some processing on a single computer, and I wanted to use ANOVA to determine the effect of certain factors on it.

Here`s the problem: The computer clock precision is very good (\ll 1 ms), but the timestamps of each time measurement are reported only to a resolution of 1 ms. The latencies are for individual messages, and the processing time are as low as 10 ms. So, a message latency is calculated from two very precise times. The variance of the time latency is \ll 1 ms.

The result is that I have many data points with 0 variance (to a resolution of 1 ms). So, it seems I have no variance to analyze.

Please advise as to my alternatives. Thanks, Alan

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