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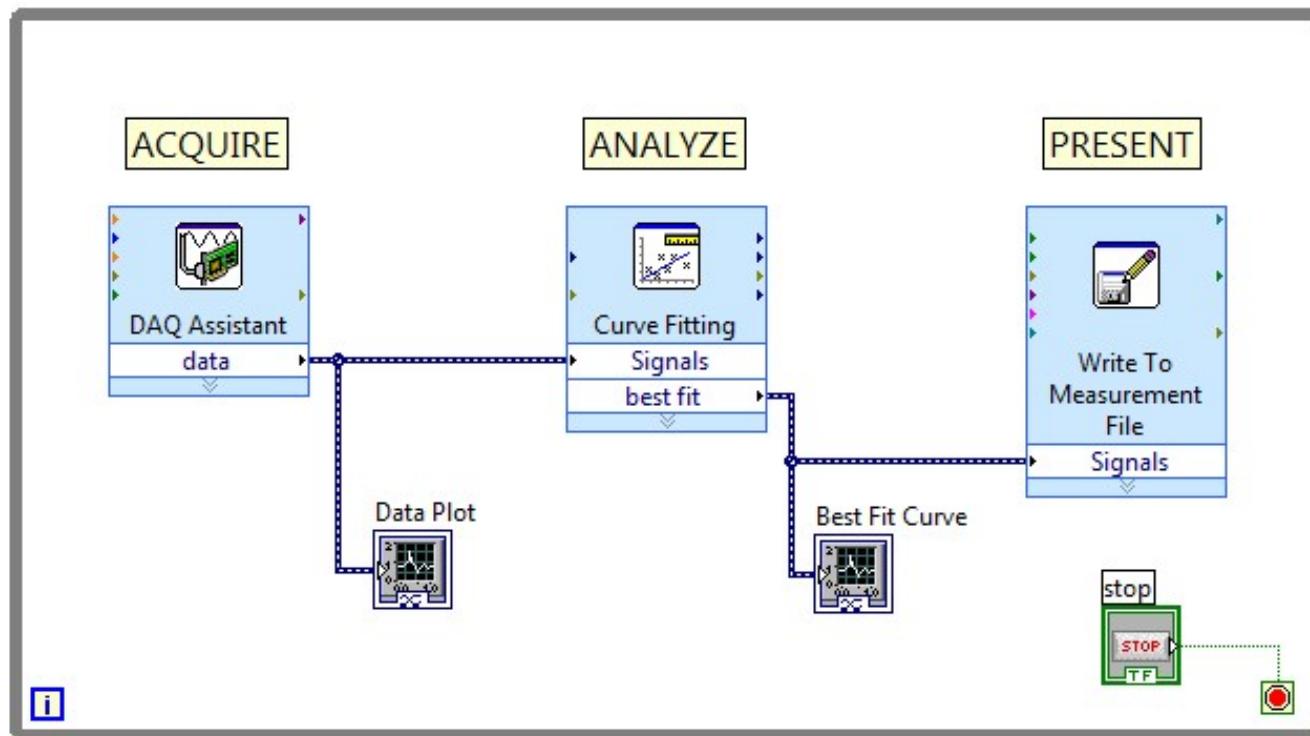


Cyber-Physical Industrial Systems

Module 3 Session 2
Data processing basics
Lecture

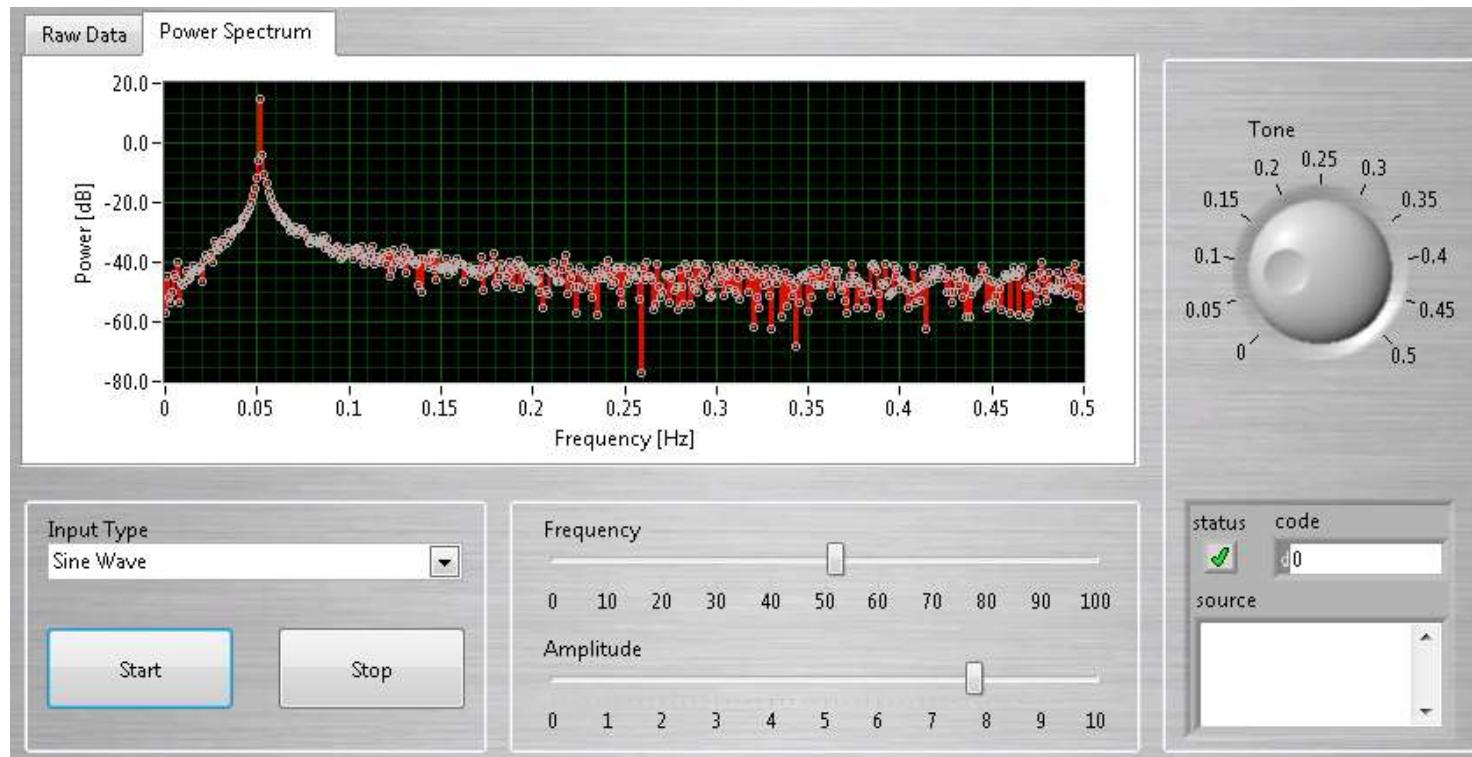


DAQ steps





Data processing example

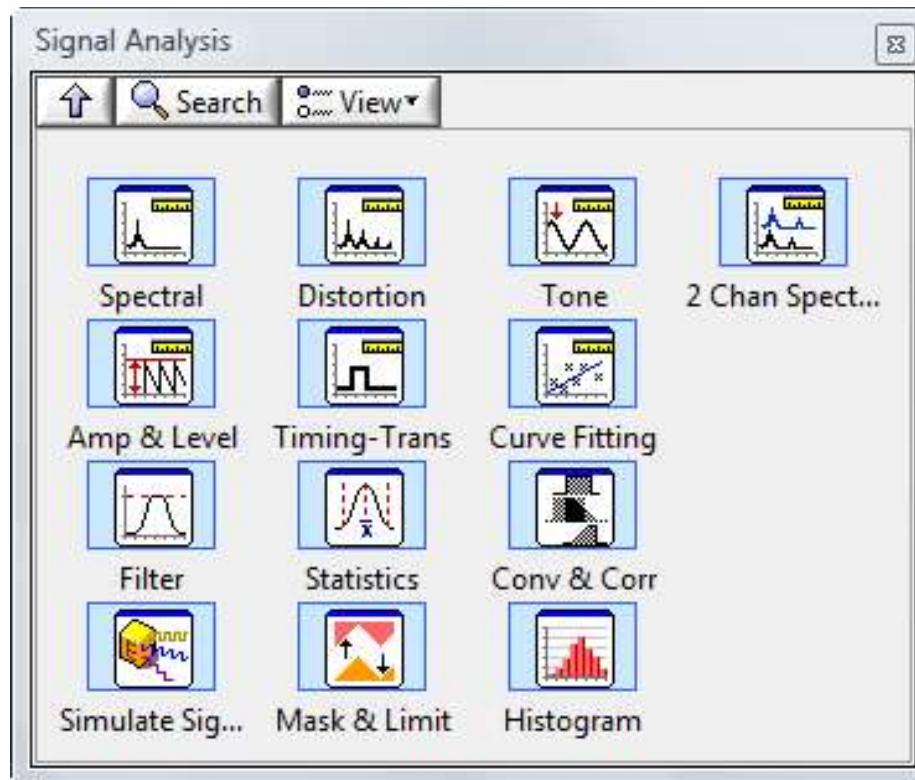


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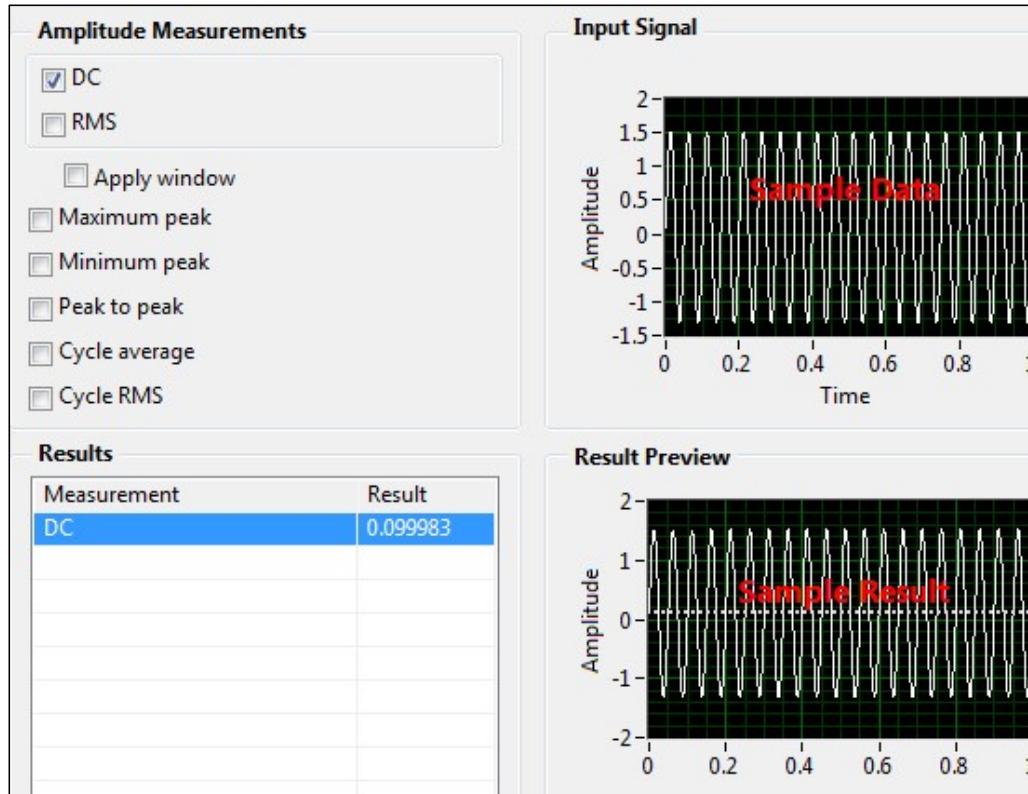
Signal Analysis Express VIs



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Measurement configuration

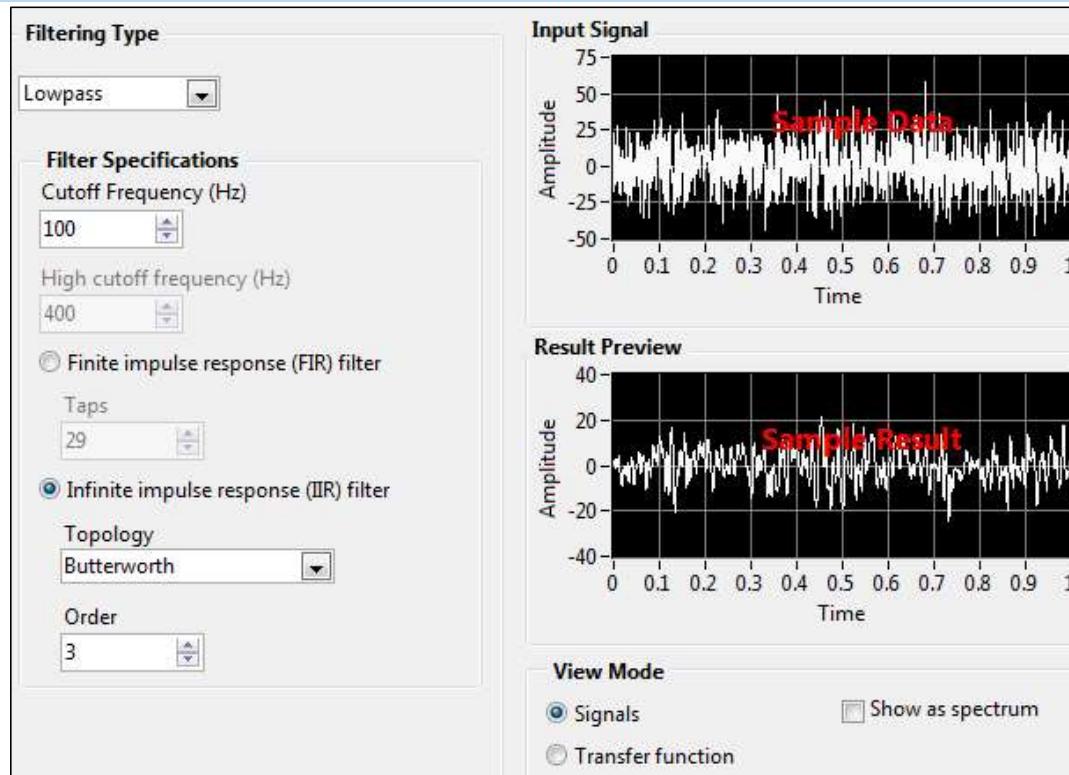


<http://www.ni.com/tutorial/9319/en/>

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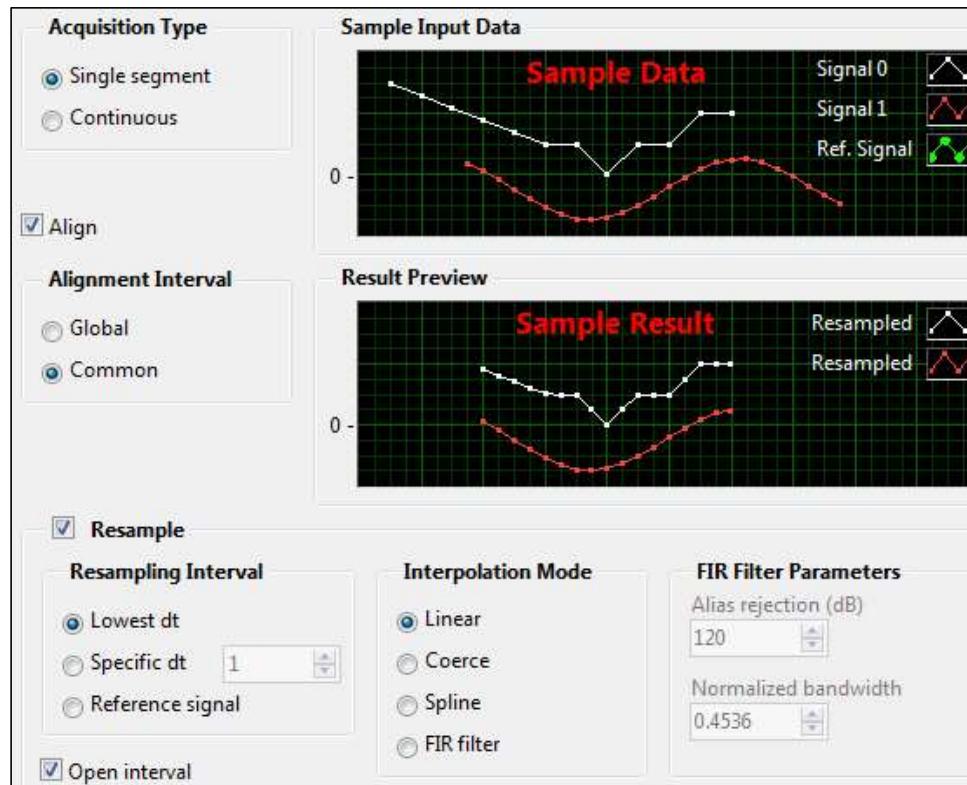
Filter configuration



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Sample configuration

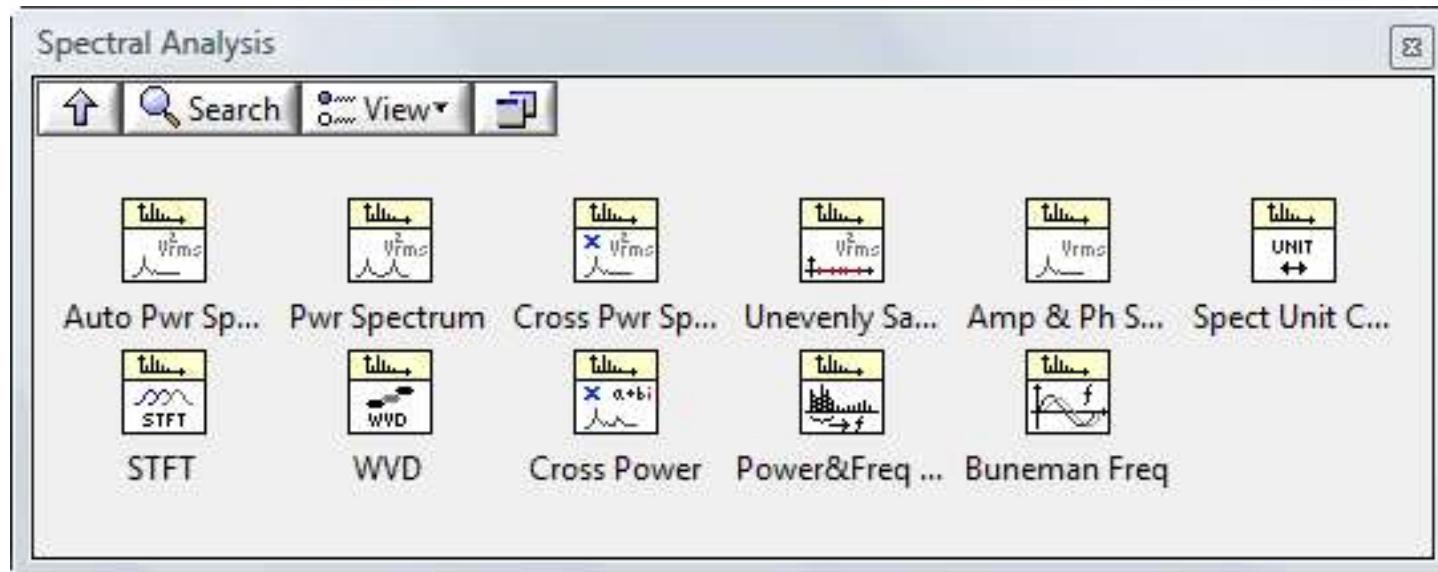


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Spectral analysis VIs

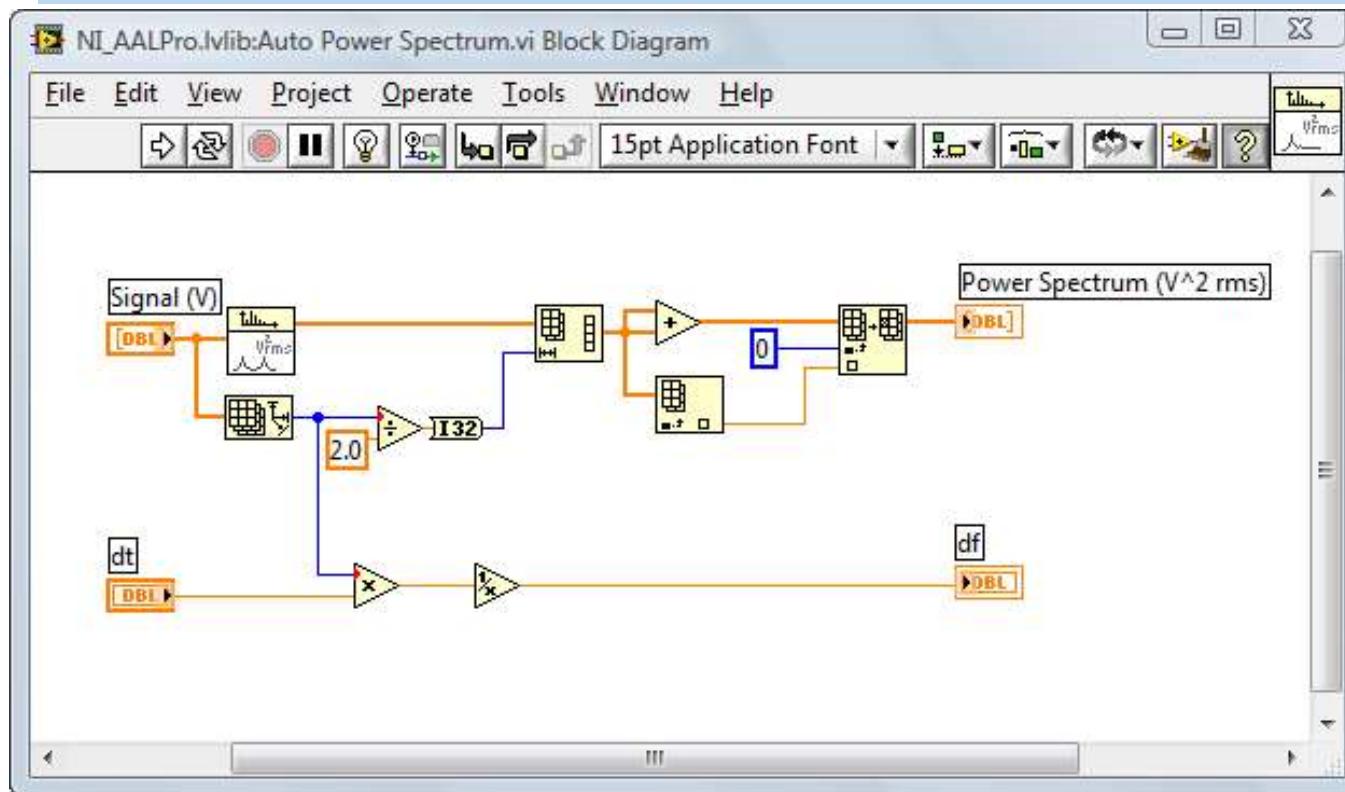


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Auto Power Spectrum VI

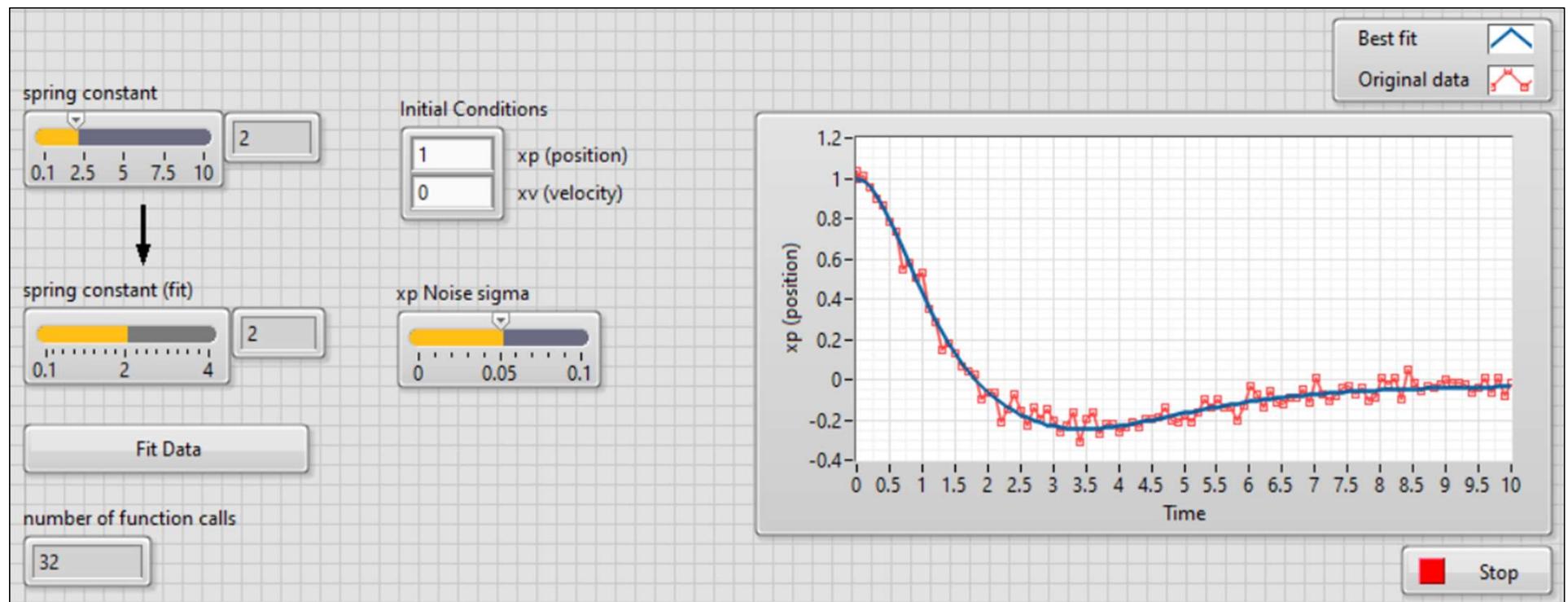


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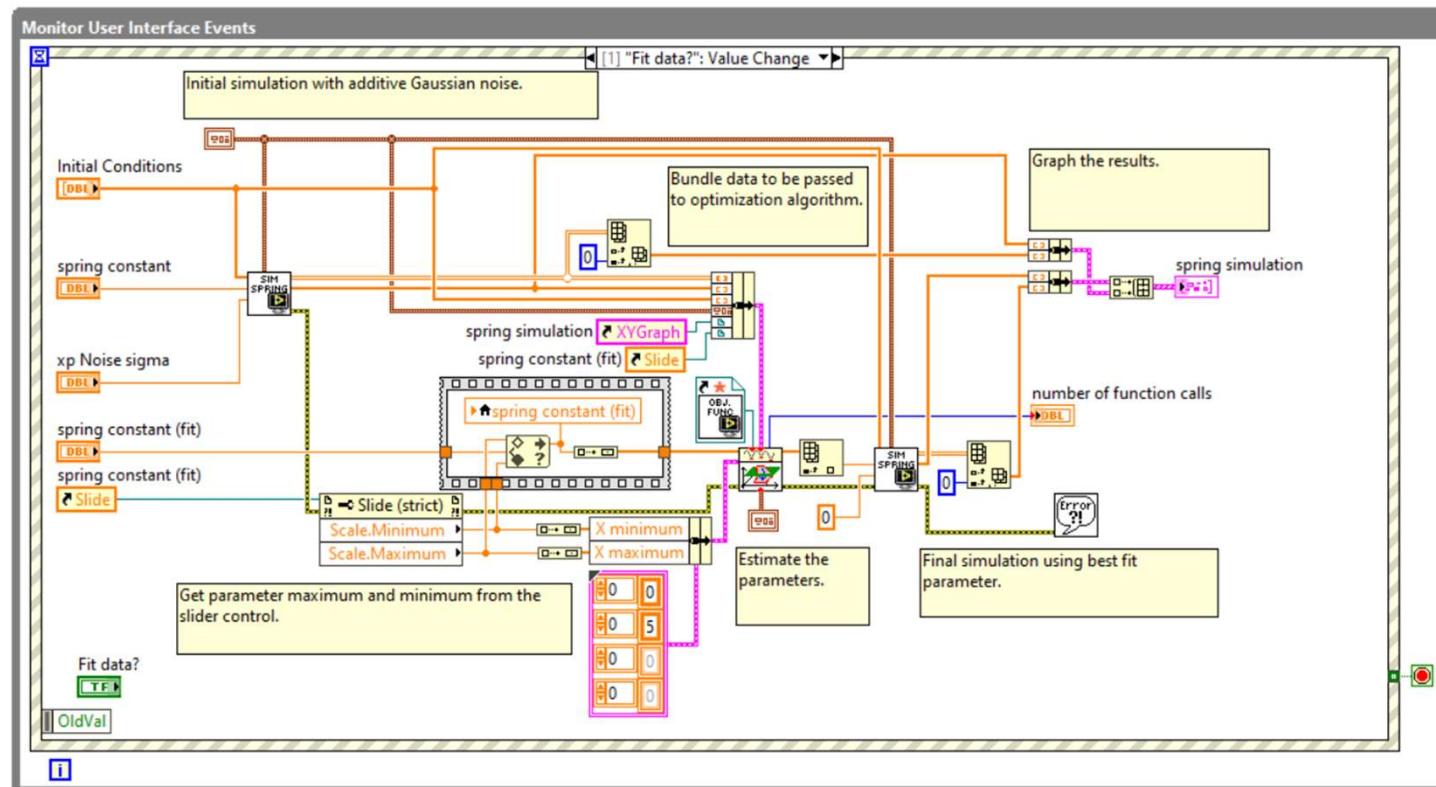
Example: Nonlinear spring constant fit



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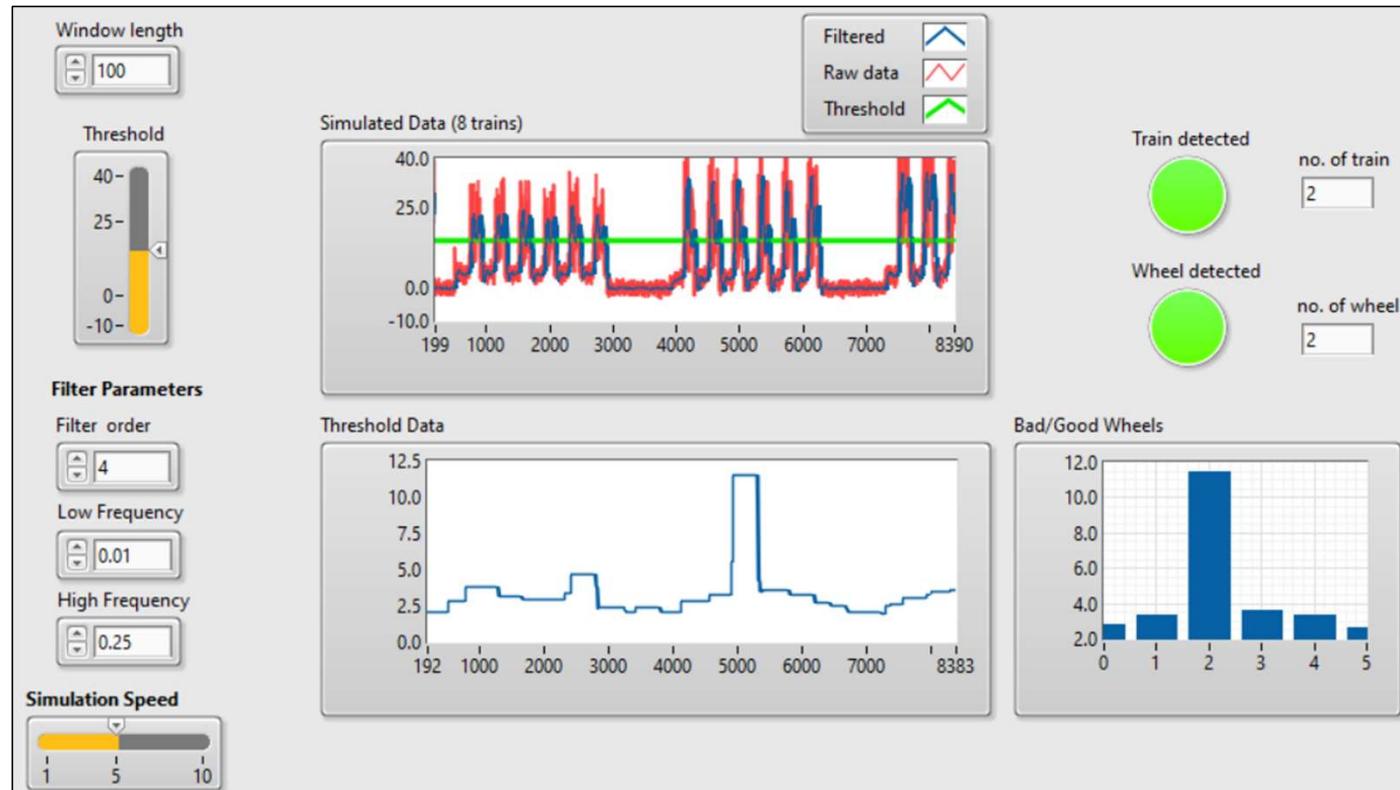
Example: Nonlinear spring constant fit



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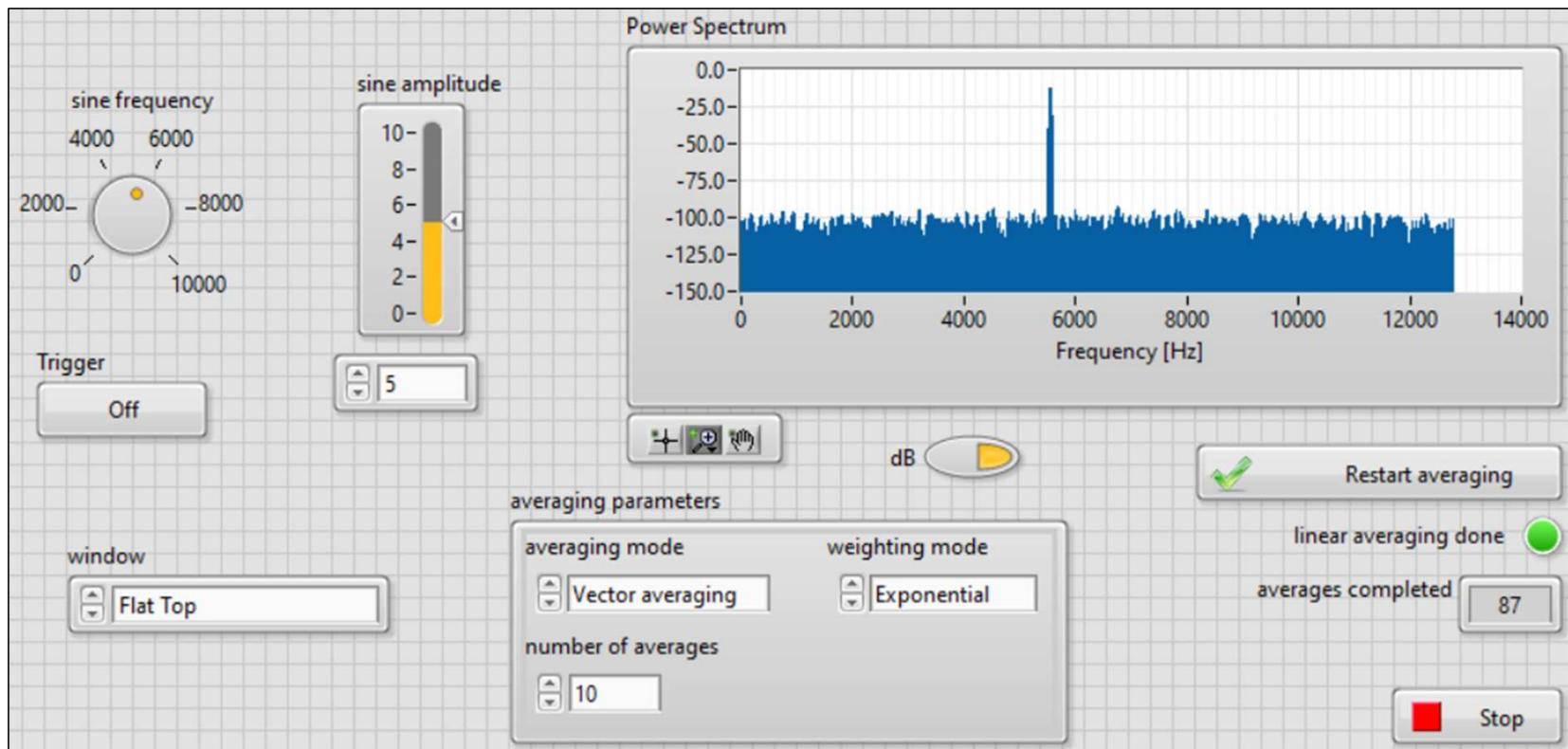
Example: Train wheel detection



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Example: Power spectrum



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