Subject: Re: Creating LP Filters
Posted by cristja1 on Wed, 20 Jan 1993 16:37:22 GMT
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bcampbell@ll.mit.edu (Betty Campbell) writes:

> Does anyone know how to/have an example of filtering time history data
> in Wave? The FM gives only examples of filtering image data, we have
> large arrays of noisy sensor data that we would like to low-pass filter.
> Currently we are using Matlab's filters but the hardcopy plots aren't
> nearly as nice and creating ASCII files for data transfer is very
> time-consuming.

> --
> Betty Campbell * MIT Lincoln Laboratory * bcampbell@ll.mit.edu
> (just a displaced Yooper longing for home)
> ------- "Life would be so much simpler if I could just get -------
> a peak at the source code"

Betty, I recently had a similar problem. What I did was to create
IIR filter coefficients in MATLAB and implement them in Pv-Wave. The
recursive equations are simple and are defined in the "HELP FILTER"
command in MATLAB. So, to recap, in MATLAB run an IIR function (i.e.,
BUTTER), save those coefficients, define a function in Pv-Wave that
implements the IIR filter with those coefficients, and process your data.
Good luck. Please feel free to email me if you need more help.

John

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