Subject: Re: signal processing package for IDL Posted by dmatthews on Sun, 26 Jul 1992 20:10:52 GMT

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In article <1992Jul25.142350.26849@afterlife.ncsc.mil>, dpkemp@afterlife.ncsc.mil (David P. Kemp) writes:

- > In article <ghsu.711219193@critical> ghsu@critical.nswc.navy.mil () writes:
- >> I am interested in finding procedures for signal processing (design of
- >> filters, filtering, etc), similar to the signal processing toolbox for
- >> matlab), for IDL. Is there something like that in existence? Is
- >> there such package available for pvwave? Any pointer will be
- >> appreciated.

>>

- > Don't get your hopes up. Filter design is probably best done by
- > a specialized application (there are lots of them), but it would be
- > nice to do the actual filtering in PV-wave.

...

If you don't have to do your filtering in real time, do it in the frequency domain, i.e. take the Fourier transform of the data, _multiply_ the result by the desired transfer function, and transform that result back to the time domain. It's faster and easier to understand than filtering in the time domain directly.

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