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Subject: Re: signal processing package for IDL  
Posted by [ritscher](#) on Wed, 29 Jul 1992 13:53:20 GMT  
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In response to the above two postings:

>> 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 pwave? Any pointer will be  
>> appreciated.

>>

[...]

> FIR filtering is, of course, supported by PV-wave's convolution operation,  
> but there doesn't seem to be any operation for doing recursive filters  
> without doing it sample-by-sample with an explicit loop - horribly slow.

The signal processing capabilities of packages such as MATLAB are glaringly missing from IDL. Why don't we users write our own signal processing toolkit as a set of IDL .pro files? Research Associates Inc supports this kind of activity through their user library files.

I have written two .pro files for IIR filtering called in a similar manner to the MATLAB filter.m and filtfilt.m files. Send mail to [ritscher@crd.ge.com](mailto:ritscher@crd.ge.com) if you would like me to mail you these.

Have others written signal processing routines that are in a condition ready to be shared? If so, please send mail to me, or post their availability to this news group or to [comp.lang.idl](mailto:comp.lang.idl).

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