Subject: Re: segment vector with missing data
Posted by Chad on Tue, 04 Nov 2008 21:37:10 GMT
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On Nov 4, 4:28 pm, David Fanning <n...@dfanning.com> wrote:
> Chad Bender writes:
>> This should be an easy problem, but I'm having a hard time figuring it
>> out without using a bunch of loops. I've got a vector with N-elements
>> (typically N~1000, but could be any number), with some NaNs
>> interspersed. Typically, there will be a block of NaNs together, but
>> a single NaN by itself is also possible. I want to extract the short
>> segments of good data, and their corresponding indices from the
>> original vector.
>
> How about this:
>
> goodIndices = Where(Finite(array) EQ 0, COMPLEMENT=badIndices)
>
> The goodIndices finds all the good data, the badIndices
> finds all the NANs.
>
Yes, that is part of the answer. But then I still need to loop
through the the 'goodIndices' or 'badIndices' vectors to find
continuous segements.

My original posts were too brief because hitting enter seems to
correspond to hitting send in google (which is what I get for not
using a real newsgroup reader). Let me try and describe the problem
better.

These vectors are spectra with missing data. I want to extract each
good segement one at a time so I can perform FFT operations on it. So
I need to parse the index arrays to find continuous segments, get the
beginning and end indices, and store the resulting sub-segment. There
are probably 10 or so continuous sub-segments per spectrum.

It seems to me that there should be some application of HISTOGRAM that
gets me the indices of all of the continuous segments at once, but I
haven't been able to figure it out.