
Subject: Re: Problems getting CURVEFIT to work
Posted by [Craig Markwardt](#) on Sat, 16 Nov 2002 04:38:47 GMT
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"Pavel A. Romashkin" <pavel_romashkin@hotmail.com> writes:

> Jonathan Greenberg wrote:
>>
>> Hello again Craig:
>>
>> You MPCURVEFIT function is terrific! I've started using it instead of
>> CURVEFIT. One quick question, how does it deal with NaN values? I started
>> including NaN values in my regressions, and I noticed some strange behavior
>> from the output -- ideally it should just ignore the X,Y that has a NaN for
>> the X value, but is this actually the case?
>
> Aha! This handling of NaNs is the only part I couldn't figure out why it
> was not there.
> All I do is filter my own data for NaNs before fitting.
> I guess Craig got distracted and didn't put WHERE(FINITE()) into his code...
> And of course, the program is excellent. No question there.

Hi Pavel--

There is no formal requirement that X and Y have the same dimensions for most of the MPFIT family routines. Thus, doing the kind of filtering you suggest gets a little tricky.

In more recent versions of MPFIT, I actually check for NaNs or Infinities, and notify the user of a problem. If you have NaNs, that is a problem. If certain points are to be ignored, then set their WEIGHTS equal to zero. I don't think that CURVEFIT handles NaNs either. Not that that's a good excuse (-) but I think it's better for the user to be explicit about what to do.

Happy fitting!
Craig

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