Subject: Re: SVDFIT Problems
Posted by Chris Torrence on Tue, 03 Sep 2002 15:20:39 GMT
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Hi Bill,

Actually, the SVDFIT code *does* use THRESH = TOL*wmax. If you look carefully at the IDL code, around line 249, there is the following line:

small=WHERE(variance LE max(variance)*thresh, cc)

(The variable name "thresh" was an unfortunate choice, and should really have been "tol".)

Internally, the C code is identical to the Numerical Recipes code, except for the TOL value, which is 1e-9 for both single and double precision. We could consider adding a TOL keyword to the SVDFIT function, which would allow the user to change this default.

Cheers,

Chris

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"Bill" <wclodius@lanl.gov> wrote in message news:3D6F97ED.C81C6C00@lanl.gov...

- > In my occaisional attempts to use SVDFIT I have had problems in that it
- > reports singular solutions when other fitting routines, e.g., REGRESS,
- > have had not problems. The obvious source of the problems is that within
- > the routine the line

> THRESH = 1.0E-9

> does not correspond to the definition in Numerical Recipes

THRESH = TOL*wmax