Subject: Re: Multiple parameters for ZEROFCN
Posted by wlandsman on Tue, 03 Jan 2012 02:48:59 GMT
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One problem with the built-in IDL functions based on IMSL or Numerical Recipes is that they don't accept _EXTRA keyword to supply additional parameters to user-supplied function.

One ugly but efficient workaround is to use a common block in your user function and the calling procedure to pass and modify the Y parameter.

Alternatively, you could find your zeros using
http://idlastro.gsfc.nasa.gov/ftp/pro/math/zbrent.pro
which does accept _EXTRA keywords (so your Y parameter would need to be accepted as a keyword).   A couple of notes:

1. ZBRENT requires one to first bracket the location of the zeros.
2. I'm not sure that the function you supplied has any zero -- as opposed to discontinuities.

--Wayne