Subject: Re: Problem with gaussfit in IDL/v5.5 Posted by Craig Markwardt on Fri, 16 Nov 2001 20:41:25 GMT View Forum Message <> Reply to Message

thompson@orpheus.nascom.nasa.gov (William Thompson) writes:

- > We found a problem with the procedure gaussfit which is supplied with IDL/v5.5.
- > It appears that somebody at RSI tried to improve the algorithm for generating
- > the initial guess, but didn't guite complete the job. I've informed RSI, and
- > decided to also inform the newsgroup. The simple fix is to change the line

. . .

Hi Bill--

That's an interesting report. If you are interested in a different approach to estimating the parameters of peaks, then you might be interested in MPFITPEAK, which is based on the MPFIT fitting routines.

I was having real problems with noisy data, that didn't work very well with GAUSSFIT. I found that a better approach is to compute the \*area\* above and below the mean, and that gives a much better handle on the position and width of the peak. It is very robust, even for very broad and noisy peaks.

However, if this is important to you:

if nt gt 5 then a = [a, c[2]]

[ indicating you need the quadratic approximation to the background before you begin fitting] then MPFITPEAK may not be for you. It doesn't pre-fit the background level, instead assuming it is constant.

Craig	
	craigmnet@cow.physics.wisc.edu Remove "net" for better response