Subject: Re: Question about tutorial in 1D Gaussian Filter
Posted by Craig Markwardt on Tue, 31 Jul 2001 15:08:15 GMT
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coraluk@hkpc.org (Cora) writes:
>> FUNCTION SIMPLEGAUSS, X, P
>>   return, P(2)*EXP(-(X-P(0))^2/(2.*P(1)^2))
>> END

Hi Cora--

Here are the parameters P to SIMPLEGAUSS. Unlike GAUSS1, the final
parameter is simply the maximum value, not the area under the curve.
It's "simple" after all.

P(0) - position of centroid
P(1) - gaussian sigma
P(2) - maximum amplitude (not area of curve)

To use it, check out the tutorial, and try something like this:

```
p = mpfitfun('SIMPLEGAUSS', x, y, err, p0)
bestfit = simplegauss(x, p)
```

Much of this information is in the "frequently asked questions" for
the web page. Or, you can download MPFITPEAK, which is a function
specifically designed for fitting gaussian and other type peaks to
data. It automatically returns the best fit curve.

Craig

http://cow.physics.wisc.edu/~craigm/idl/

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