Subject: Re: CURVEFIT for multiple datasets
Posted by Paul Van Delst[1] on Thu, 31 Jan 2008 16:13:35 GMT
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chloesharrocks@gmail.com wrote:
> Hi Chris
>
> Thanks for your reply. I'm reluctant to use advanced fitting
> programmes as I'm an undergraduate trying to do an MPhys Project and
> I'd rather try and code as much as possible myself so I can get credit
> for it.

Strange approach. Your ultimate goal should be to get the correct answer. That's much easier to do using software you can trust.

Besides, regardless of whether you use IDL's CURVEFIT, or Criag's MPFIT, you're still using "advanced fitting programmes" that you can't take credit for. You can take credit for writing the code that feeds those procedures the data, I guess.

> Luckily, I have found a way to do a fit for 2datasets now - by
> puttting them all into one big array, so hopefully I can extend this
> further so I put 2000+ datasets in one array and then fit an
> exponential to that new array.

What about taking the average of all your datasets (assume the same abscissa values) and fit that using the std dev's of each point as an error estimate?

cheers,

paulv