Subject: Re: Best fit line for sinusoid
Posted by liam.steele on Wed, 30 Sep 2015 14:51:31 GMT

On Wednesday, 30 September 2015 15:37:47 UTC+1, David Fanning wrote:
> liam.steele@gmx.co.uk writes:
>
>> I was wondering if there was a 'simple' way to get IDL to plot a best fit line for a sinusoidally-varying data set. For example, say temperatures were recorded each hour for 5 days at a certain location, with each measurement having an error of 2 deg C. Then we would have something like:
>>
>> day = findgen(121)/24
>> temp = 15 + 10*sin(10*!pi*findgen(121)/120) + 5*randomu(seed, 121)
>> error = fltarr(121)+2
>>
>> Is it possible from these three arrays for IDL to work out and plot a best fit line? I have searched online, and can't really find what I'm looking for. (surprisingly I have never had to plot a best fit line to anything before!)
>
> You will do well to start here:
>
>   http://cow.physics.wisc.edu/~craigm/idl/fitting.html
>
> Cheers,
>
> David
> --
> David Fanning, Ph.D.
> Fanning Software Consulting, Inc.
> Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
> Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Aha! That looks far more useful than anything I found. Thanks very much.