Subject: Re: Help me aviod a FOR loop!?!?
Posted by James Tappin on Thu, 25 Apr 2002 14:47:28 GMT
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Sean Davis wrote:

> I don't know if this is possible. I have 4 coeffecients,
> a,c,d,cd, that are each 3191-long arrays, and I would like to construct
> 3191, waveforms (of length 128) from these coefeccients.
>
> Here's what I'm trying to do:
>
> x = FINDGEN(128)
> yfit = FLTARR(128,3191)
>
> yfit = (a/cd)*(exp(-1.*c*x)-exp(-1.*d*x))
>
> In the end, I would like yfit to be an array of (128,3191) or (3191,128).
>
> I can't figure out how to do this without using a FOR loop. Is there any
> hope for doing this without a FOR loop?
>

Try this:
x=findgen(1,128)
d1=intarr[128]
d2=intarr[3191]
yfit= (a/c*d)[*,d1]*(exp(-c[*,d1]*x[d2,*])-exp(-d[*,d1]*x[d2,*])

You could use explicit intarr calls for the dummy indices, but it take more space.

James

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