Subject: Re: Dealing with Large data arrays, reducing memory and ASSOC
Posted by JD Smith on Thu, 14 Jun 2007 16:32:00 GMT
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On Thu, 14 Jun 2007 08:08:44 -0500, Kenneth Bowman wrote:

> In article <1181824433.145388.26020@d30g2000prg.googlegroups.com>,
> Ambrosia_Everlovely <ambrosia_everlovely@hotmail.com> wrote:
>
>> [quoted text muted]
>
> I would just do it in slices
>
> dct = COMPLEXARR(512,512,2048)
> FOR j = 0, 511 do dct[*,j,*] = FFT(REFORM(dc[*,j,*]), -1, DIM = 2)
>
> This does access memory in nearly the worst possible way. If you are
> going to be doing this a lot, you might want to consider rearranging the
> data so that t is the first dimension
>
> dct = COMPLEXARR(2048,512,512)
> FOR k = 0, 255 D0 xt[0,0,k] = FFT(REFORM(x[*,*,k]), -1, DIM = 1)

I'd be interested to hear whether this "in order" type of array
re-arrangement results in a real speedup. I had always assumed this
is true, but in recent testing on a very different problem, found
little or no gain, to my surprise.

JD