Subject: Quickest method for calculation
Posted by jaz on Mon, 24 May 2010 11:25:25 GMT
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Due to the size of the simulations i'm running, my programs are incredibly memory intensive.

As a result, some of the calculations are taking quite a large amount of time to compute. Here is an example:

These are the array sizes:-

top_tem = fltarr(200000,2002)
y.rho = fltarr(200000,2002)
temperature = fltarr(200000,2002)

and this is one of the calculations i do, which takes quite a while:

top_tem = TEMPORARY(top_tem) + (y.rho^2.0 * temperature)

i use TEMPORARY so that it doesn't eat up much memory.
But, is there a better way to do this calculation? Would it be better to break it up somehow?

Any advice would be great.

Subject: Re: Quickest method for calculation
Posted by James[2] on Wed, 26 May 2010 16:16:09 GMT
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Your floating point arrays take approximately 1.6 GB each. Do you have enough memory to hold three of them, plus a fourth for temporary calculations? If not, you might want to split the processing into smaller chunks.