Subject: Re: Speeding up multiple file reading
Posted by news.qwest.net on Thu, 02 Feb 2006 17:51:27 GMT
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<clivecook59@gmail.com> wrote in message
 news:1138898534.745134.104580@g44g2000cwa.googlegroups.com.. .
> interp_height = 0 + INDGEN(int)*(16 - 0)/FLOAT(int - 1)
>
> for i =0,count1 -1 do begin
>
> data = read_binary_function(binary_file(i))
>
> ch1x = data.ch1x ;1-D
> ch2x = data.ch1x ;1-D
> ch3x = data.ch1x ;1-D
>
> correction = ...
>
> sigheight(i,*) = height * correction
>
> ch1(i,*) = interpol(ch1x,sig_height(i,*),interp_height)
> ch2(i,*) = interpol(ch2x,sig_height(i,*),interp_height)
> ch3(i,*) = interpol(ch3x,sig_height(i,*),interp_height)
>
> endfor

This looks find to me. Perhaps your 90 seconds is a reasonable amount of
time. You could try to see how long each step takes i.e. is most time spent
in your "read_binary_function()" call? If so, probably not much you can
do about it.

One optimization may be as follows;

tempsigheight = height * correction
ch1(i,*) = interpol(ch1x,tempsigheight,interp_height)
ch2(i,*) = interpol(ch2x,tempsigheight,interp_height)
ch3(i,*) = interpol(ch3x,tempsigheight,interp_height)
sigheight(i,*) = tempsigheight

Then you are not selecting a subarray in each of the 3 function calls,
(in total, 3*6000 function calls) but that would only be a minor effect.

Cheers,
bob