Subject: Re: Speeding up multiple file reading
Posted by clivecook59 on Thu, 02 Feb 2006 16:42:14 GMT
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The code for reading the binary files was not written by me and reads a proprietary data format. I don't think that there is much i can do with that code. However i do perform some operations on the data within the loop and have been trying to relocate them outside of the loop. An example of this is,

```
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
```

So (not sure if this is explained very well) i am using the interpol function to grid the data to a regaular grid governed by the interp_height. I have tried to remove these interpol steps from the loop but with no luck,

```
ch1  = interpol(ch1x,sig_height,interp_height)
```

In this case ch1x,sig_height and interp_height have the same dimensions but does not produce the same results as in the loop. I use rebin to produce a new 2-D array with the same dimension for interp_height as ch1x and sig_height, (transpose(rebin(interp_height,400,100))).

I hope this is clear.

thanks

Clive