Subject: Re: How to speed up code which checks lots of values of an array
Posted by Robin Wilson on Thu, 13 Jan 2011 16:43:09 GMT
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>
> IF(MAX(line[0:section_len - 1]) LE 180) AND (MIN(line[section_len + 1:
> len - 1]) GE 180) THEN
> ; Do stuff
> ENDIF

Thanks for the idea. That increases the speed a bit - the overall time decreases by about a second.

I guess I've made that bit as fast a possible, and I need to deal with the other speed issues with the code...like the fact that the code above is being run inside a FOR loop, which is not the 'IDL way'.

So, does anyone have any idea how the following could be implemented without my FOR loop. I'll describe it in words first, and post code later if people need it:

For each pixel in the image (so, nested FOR loops going over the rows and the columns):
Get a single 1D line centered on the pixel in question (the length is configurable, so it could be a 5 pixel long line, or a 100 pixel long line)
Run the code in the last post on the line
Loop

At the moment I am using a function to extract the X pixel long line from the image. I have a suspicion that this could be done using CONVOL, but I can't see how...Any ideas?

Cheers,

Robin