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Subject: Re: Normalize image after running FLAASH  
Posted by [Josh Sixsmith](#) on Tue, 15 Jul 2014 12:52:55 GMT  
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Well your example of CASE isn't a single value for comparing which CASE to evaluate. You've got an entire array ie "b3 le 0".

Take a look at the example in the help file:

<http://www.exelisvis.com/docs/CASE.html>

It's a single evaluation.

As for other parts of your code.

You've already retrieved the "number of samples (the ns variable)" and the "number of lines" (nl) from you call to "ENVI\_FILE\_QUERY", so you can probably leave out the lines where you redefine them.

Also, I may be wrong, but "b1\*float(b1)/10000 doesn't sound like normalizing your data. A value of 9000 now becomes 8100. It sounds like you just need to apply a scale factor in which case just do "b1 / 10000.0"

Back to dealing with your different cases, of "LE 0", "GE 10000" etc, just evaluate the array in a series of complement expressions that account for you different cases.

$$\text{result} = (\text{b1 le } 0) * 0 + (\text{b1 ge } 10000) * 10000 + ((\text{b1 gt } 0) \text{ and } (\text{b1 lt } 10000)) * (\text{b1} / 10000)$$

That might get you what you're after. It'll use a lot of memory in IDL though. Seeing as you're using ENVI try the 'MATH\_DOIT' routine, and ENVI will tile your data automatically.

Hope that helps

Josh

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