Subject: Re: Optimizing code for faster calculation
Posted by Heinz Stege on Thu, 13 Mar 2014 13:34:10 GMT
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On Wed, 12 Mar 2014 23:33:31 -0700 (PDT), Kenneth D wrote:

> Is there anything else I can do? That is, besides taking out iterations, they simply must be there to do what I need.

Since the array min_rmse has only 200 elements, I doubt that it is possible to make this part of the code significantly faster.

Otherwise for me it seems, that "modeled_class" beeing a string array is more the bottleneck than the where function. It may help to change the code to something like the following. Start with the lines which can be executed somewhere in the header of your code:

```
modeled_class=lonarr(200)
temp=["soil","quag","grass",...,"unmodeled"]  ; unique values only!
modeled_class_names=temp[sort(temp)]
unmodeled=value_locate(modeled_class_names,"unmodeled")
```

Then write the respective indicees into the long integer array modeled_class.

This way the lines whithin the iteration can be changed to

```
exceed_subs = where(min_rmse GT rmse_threshold, counter)
if counter GT 0 then modeled_class(exceed_subs) = unmodeled
```

Are such changes possible with your code?

Cheers, Heinz