Subject: Re: Newbie question concerning summations/loops in IDL
Posted by Chris[6] on Wed, 30 Jul 2008 02:27:23 GMT
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On Jul 29, 1:12 pm, mbwel...@gmail.com wrote:
> Hello,
>
> I have need of some experienced users with sort of a newbie question.
>
> I am writing a code that needs a summation in it, this is what I have
> thus far:
>
> v= ; volume of region
> a= ; area of region
> o= 60*!pi/180 ; fault dip angle
> g= ; scaling factor
> t= 150 ; elastic lithosphere thickness
> h= ; depth of faulting
>
> ind_small = where(thaext[1,*] lt t)
> ind_large = where(thaext[1,*] ge t)
> thaext_small = thaext[*,ind_small]
> thaext_large = thaext[*,ind_large]
>
> ens=(sin(o)*cos(o)/v)* ; horizonatal normal strain for small faults
> enl=(cos(o)/a)* ; horizonatal normal strain for
> large faults
> evs=(-sin(o)*cos(o)/v)* ; vertical normal strain for small faults
> evl=(-cos(o)/a)* ; vertical normal strain for large
faults
>
> The summation needs to be after * in the ens, enl, evs and evl
> fields.
> It must be of the form:
> summation N, i=0 [Di Li Hi] for small faults, where N = ind_small, Hi=
> T/sin(o) and
> summation N, i=0 [Di Li] for large faults, where N=ind_large
>
> Could anyone provide any insight/guidance?
>
> Thanks,
> ~Matt

I don't know what some of your variables are (Li? Di?), but you might
want to look at TOTAL() to start- you can use that to do most
summation tasks.