Subject: Newbie question concerning summations/loops in IDL
Posted by mbweller on Tue, 29 Jul 2008 23:12:49 GMT
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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