## Subject: Re: Newbie question concerning summations/loops in IDL Posted by Wox on Wed, 30 Jul 2008 08:33:22 GMT

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On Tue, 29 Jul 2008 23:19:19 -0700 (PDT), mbweller@gmail.com wrote:

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> On Jul 29, 7:27�pm, Chris <beaum...@ifa.hawaii.edu> wrote:
>> 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:
ين يرزية المرزية المرزية المرزية المرزية المرزية المرزية
>>> a= � � � � � � � � � ï½½ % j½ ï½½ %
آزيٰ آزيٰ آزيٰ area of region آزيٰ آزيٰ آزيٰ area of region
>>> o= 60*!pi/180 "¿½ "¿½ "¿½ "¿½ "¿½; fault dip angle
تز½ تز½ تز½ تز½ تز½; scaling factor
>>> t= 150 � � � � � � � � �;
elastic lithosphere thickness
آزِيُّ آزِيُّ آزِيُّ آزِيُّ آزِيُّ آزِيُّ depth of faulting
>>
>>> ind small = where(thaext[1,*] It t)
>>> ind_large = where(thaext[1,*] ge t)
>>> thaext_small = thaext[*,ind_small]
>>> thaext_large = thaext[*,ind_large]
>>
>>> ens=(sin(o)*cos(o)/v)* � � � � � � � �
تزير تزير: horizonatal normal strain for small faults
ترنة الأرزية ا
strain for
>>> large faults
>>> evs=(-sin(o)*cos(o)/v)* � ス ス � � ï½½ ï½½ i½½
ϊ¿½; vertical normal strain for small faults
>>> evl=(-cos(o)/a)* � � � � � � ï½½ ï½½ ï½½
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) ï¿1/2and
>>> 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.
> L and D are data from a ascii table that is already ready in, while i
> is the indice of the summation. I've looked at total, but the examples
> were sorely lacking. I was hoping that perhaps a useful example, given
> my code and desire, could be supplied.
> ~Matt
```

I'm not sure what you mean with "summation N, i=0 [Di Li Hi] ... where N=ind\_small". The index i goes from 0 to what? And what are you summing? D[i]\*L[i]\*H[i]?