
Subject: Re: Need help with an Iterative solution in IDL (relative newb question)
Posted by [Jean H.](#) on Thu, 14 Aug 2008 19:12:23 GMT

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mbweller@gmail.com wrote:

> Hi All,
>
> I have up to 5 variables that that I need to vary in order to reach a
> solution range (e.g. solution +- 10%) and the variables themselves
> need to be bounded as not all values are physical possible. I then
> need all the possible combinations that report the correct solution
> range to be saved to an ASCII file, or some other output.
>
> Any assistance would be greatly appreciated.
>
> Thanks in advance,
> ~MAtt

If you are working with integer (if not, think of the index of your float/text/object in an array), I have a set of function that might interest you... it will return all possible combination between the values of different variables.

ex: var1= 1 or 2 or 3
var2 = 4 or 5
var3 = 6

will return

1,4,6
1,5,6
2,4,6
2,5,6
3,4,6
3,5,6

now, if you have many possible value, it might be easier to vary the value "on the fly"...

```
for var1=0,10 do begin
  for var2=12.2,12.4,0.01 do begin
    etc
  end
end
Jean
```