Subject: Re: Build 2D array from loops
Posted by greg.addr on Mon, 22 Feb 2016 14:30:15 GMT
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On Monday, February 22, 2016 at 2:08:39 PM UTC+1, Matt G wrote:
> Hi, new to IDL so please forgive if very simple request.
>
> I'm trying to build an array where the values stored are in two columns: one with the values of i
in my FOR loop, and the other the output of that FOR loop. To make it more complicated, within
my FOR loop is an IF condition that skips over bad data.
>
> How do I structure this code so that the array is built from the output of my loops?
>
> Cheers

It's often possible to work without loops in IDL. I'd do it something like this:

IDL> i=indgen(10)
IDL> a=i^2 ;replace with your expression
IDL> b=transpose([[i],[a]]) ;combine into two column array
IDL> b
       0   0
       1   1
       2   4
       3   9
       4   16
       5   25
       6   36
       7   49
       8   64
       9   81

Use the where() function to filter out your bad values, e.g.

IDL> q=where(a lt 50) ;keep only values where a<50
IDL> b[*,q]
       0   0
       1   1
       2   4
       3   9
       4   16
       5   25
       6   36
       7   49

cheers,
Greg