Subject: Array elements extraction
Posted by moxament on Sat, 29 Aug 2009 16:21:40 GMT
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Dear All,

I have a question in IDL and I need your help please!! The question is
the following:

Let's say that we have the following three-dimensional array I = array
(6, 4, 3):

```
3 8 9 2 9 4   2 4 1 8 9 2 6 3 6 3 4 5
2 4 8 2 1 9   3 2 3 3 9 1 2 3 1 1 9 0
2 1 3 2 3 2   2 9 0 3 0 1 3 5 2 9 9 8
4 5 1 9 2 2   2 9 3 0 2 2 2 4 8 2 9 3
```

I need to move a 3x3 window and extract the elements of I in each step
of the moving window in a new array. For example, when the window is
on the element (2, 1, 3) the extracted array is:

```
M =  8 4 3
     9 1 6
       2 8 3
       4 2 3
       8 3 1
       2 3 1
       1 9 5
       3 0 2
       2 3 9
```

For each step the needed number = determinant(transpose(m) # m) which
will be stored in a new array D. Attention should be paid when the
window moves on the edges of the array I.

Thank you in advance!!

MD