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Subject: MAX function in IDL8.0

Posted by [Anne Martel](#) on Fri, 08 Oct 2010 13:25:24 GMT

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I was happy to see that the new version of IDL includes a `DIMENSION` keyword for the `max` function but I don't understand why the `max_subscript` feature returns indices relative to the whole array, rather than the index in the dimension specified. A simple example to illustrate this:

If I create a 2D array `q`:

```
q=[[1,4,3,2,7,0],[2,4,1,3,4,1]]
```

and run

```
IDL> print,q
      1   4   3   2   7   0
      2   4   1   3   4   1
```

```
IDL> marr = max(q,ind,dim=2)
```

The returned max array is as expected:

```
IDL> print,marr
      2   4   3   3   7   1
```

The `max_subscripts` are

```
IDL> print,ind
      6   1   2   9   4  11
```

but what i would prefer is the subscripts in the 2nd dimension

```
IDL> print,ind/6
      1   0   0   1   0   1
```

In this example it is trivial to convert to what I want but if, for example I want to generate a time to peak map from a dynamic sequence of images , or return the most likely class from a stack of probability maps, then I still have to write a procedure to do this.

Can anyone think of some example where the way `max_subscript` is implemented is superior or should I just campaign for a modification in some future release?

Anne

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