
Subject: Re: max, mean, min of array

Posted by [Wayne Landsman](#) on Sun, 06 Jan 2002 19:50:14 GMT

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Dinh Huong wrote:

> Dear Lists,

>

> I have an array of 400,400,10 contains 10 month $T_i \frac{1}{2}$ of 400x400 pixel

> area. I am trying to calculate min, max, mean $T_i \frac{1}{2}$ for each pixel and

> output is 400x400 image. How to solve this by IDL?

> Any help will be appreciate,

In IDL V5.5, if you have a 400 by 400 by 10 array, you can find the maximum over the 3rd dimension using the DIMENSION keyword.

```
IDL> pixmax = max(array, dimen=3)          ;Return a 400 x 400  
array
```

In earlier versions of IDL you have to loop over each pixel, and (as David mentioned) Craig Markwardt's CMAPPLY will make sure that this looping is done as efficiently as possible.

--Wayne

P.S. While I am grateful to RSI for adding dimension-specific capabilities in V5.5 to MIN, MAX, FFT, and SMOOTH, I would still very much like to see the same capability added to MEDIAN. (The customer is never satisfied....)
