Subject: Re: max, mean, min of array
Posted by dinhnq on Mon, 07 Jan 2002 10:52:37 GMT

Thank you all for your suggestions. Now it works.

Dinh Huong

Wayne Landsman <landsman@mpb.gsfc.nasa.gov> wrote in message
news:<3C38AA76.69754BEC@mpb.gsfc.nasa.gov>...
> Dinh Huong wrote:
>
>> Dear Lists,
>>
>> I have an array of 400,400,10 contains 10 month Tï¿½ of 400x400 pixel
>> area. I am trying to calculate min, max, mean Tï¿½for 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....)