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Subject: Re: Calculate median of stacks of images using IDL

Posted by [Phillip Bitzer](#) on Sun, 08 Jun 2014 19:06:47 GMT

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On Friday, June 6, 2014 3:46:37 PM UTC-5, Nitsorn Wongsajjathiti wrote:

> Hi,

>

> I am trying to compute a median of a stack of images in TIF format for my research. From another source I found out a way to compute this from stack of images present in a GDF format, using

>

>

>

> IDL> buf=read\_gdf('demo.gdf')

>

So, I suppose READ\_GDF is from another library, yes? Do you need things in GDF?

If you have TIFFs, you can just use READ\_TIFF, and create a 3d array like David suggests.

Depending on how many TIFFs you have, you may find this modification to David's snippet to be slightly more efficient:

```
filenames = file_search("my_filename_regex*.tif", COUNT=fileCount) ;get the filenames, and how many
```

```
isGood = QUERY_TIFF(filenames[0], tiffInfo) ;get information about the first TIFF file
```

```
;assuming the TIFFs are 8 bit...if 16bit you can change to UINTARR
```

```
buf = BYTARR([tiffInfo.resolution, fileCount]) ;assuming all TIFFs are the same size, preallocate the array
```

```
FOREACH f in filenames DO $
```

```
  buf[0, 0, i] = READ_TIFF(f) ;read each TIFF into the buf array
```

```
b = median(buf, /double, dimension=3)
```

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