
Subject: Re: Multiple datasets

Posted by [David Fanning](#) on Wed, 11 Mar 2009 02:27:38 GMT

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Shawn writes:

> But because, the dataset has to specify its dataset name, can anyone
> suggest to me how to create a loop where i can open the datasets in a
> loop. My datasets are named as CAPPI0, CAPPI1 etc. Thanks.

```
IDL> for j=0,20 do print, 'Cappi' + String(j, format='(I0)')
```

Cheers,

David

--

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: Multiple datasets

Posted by [Andi Walther](#) on Wed, 11 Mar 2009 02:28:21 GMT

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I would create a function

```
FUNCTION get_my_data,file, h5_variable_name
  file_ID = H5F_open(file)
  dataset_ID = h5d_open(file_ID, h5_variable_name)
  data_space = h5d_get_space(dataset_ID)
  result_space = h5s_create_simple ([100,100,30])
  ;([x,y,z]) = result_space
  vol_data=h5d_read(dataset_ID)
  ;vol_data=transpose(vol_data)
  vol_data = TRANSPOSE(vol_data, [1, 0, 2])
  vol_data = REVERSE(vol_data, 2)

  h5s_close, result_space
  h5s_close, data_space
  h5d_close , dataset_ID
  h5f_close, file_ID
```

```
return,vol_data
```

```
end
```

and then

```
IDL> dataset_name = 'CAPPI'+STRTRIM(indgen(number_of_datasets),1)
IDL > for i=0,number_of_datasets -1 do dummy = execute
('vol_data'+dataset_name[i] + '= get_my_data('+dataset_name[i]+' )
```

In this way you will have your data stored in arrays
"vol_data_CAPPI0" , etc.
