
Subject: Re: a strange loop problem

Posted by [Anthony\[1\]](#) on Tue, 24 Jun 2008 07:33:51 GMT

[View Forum Message](#) <> [Reply to Message](#)

On Jun 24, 3:53 am, bulrushmo...@gmail.com wrote:

```
> What is wrong with the loop for the following:
> i=0
> Print, 'SDS_NAME'+STRTRIM(string(i+1),2), prints SDS_NAME01
> But, Band = hdf_sd_nametoindex(file, 'SDS_NAME'+STRTRIM(string(i+1),
> 2)) is not the same with
>   Band = hdf_sd_nametoindex(file, SDS_NAME01 )
> =====
> SDS_NAME01 = "SREFL_CH1"
> SDS_NAME02 = "SREFL_CH2"
> SDS_NAME03 = "BT_CH3"
> SDS_NAME04 = "BT_CH4"
> SDS_NAME05 = "BT_CH5"
> SDS_NAME06 = "SREFL_CH3"
> SDS_NAME07 = "SZEN"
> SDS_NAME08 = "VZEN"
> SDS_NAME09 = "RELAZ"
> SDS_NAME10 = "QA"
>
> file = hdf_sd_start(fPath_data
> +"AVH09C1.A1998180.N14.002.2007273131632.hdf")
>
> for i=0, 9 do begin
>   Band = hdf_sd_nametoindex(file, 'SDS_NAME'+STRTRIM(string(i+1),2))
>   data = hdf_sd_select(file, Band)
>   hdf_sd_getdata, data, getdata
>   hdf_sd_endaccess, data
>
>   endfor
```

Band = ...(file, 'SDS_NAME01')

is not the same as

Band = ...(file, SDS_NAME01)

Maybe that's the problem?

You could use execute(), e.g.:

```
Void = execute('Band = ...(file,' + string(...) + ')')
```

Or why not put the SDS_NAMES into an array?

```
SDS_NAMES = ["SREFL_CH1", "SREFL_CH2", ...]
```

```
...
```

```
for i = 0, 9 do begin
```

```
  Band = hdf_sd_nametoindex(file, SDS_NAMES[i])
```

...
endfor

Hope that helps!

Cheers,
Anthony
