Subject: How to use SPAWN for creating multiple output files? Posted by atmospheric physics on Wed, 11 Jun 2014 10:00:57 GMT

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Hello,

I have multiple *.nc files. I want to create SHA 256 checksum file for each of the datafile.

In linux shell, I get the checksum info as:

\$ sha256sum XYZ_1000.nc'

89654655f1a75fc398fb86c9f56c255bb991768eb223a6defa1f1d5d0ede f6aa XYZ_1000.nc

So, I tried to use the same in IDL as below:

IDL> spawn, 'sha256sum XYZ_201304000.nc' 89654655f1a75fc398fb86c9f56c255bb991768eb223a6defa1f1d5d0ede f6aa XYZ_1000.nc

As I have created all the *.nc data files in IDL program, I would like to add few lines below to create respective checksum file (e.g., <myfile>.sha256).

I have my datafiles as - XYZ_1000.nc, XYZ_1001.nc, XYZ_1002.nc, I would like to copy the checksum output

89654655f1a75fc398fb86c9f56c255bb991768eb223a6defa1f1d5d0ede f6aa

to the new file - XYZ_1000.sha256

I know it can be done directly on linux terminal but I want to create simultaneously in the IDL code.

Can anyone help me how I can do this in IDL using SPAWN command?

Thanks in advance, Madhavan

Subject: Re: How to use SPAWN for creating multiple output files? Posted by on Wed, 11 Jun 2014 12:40:30 GMT

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Den onsdagen den 11:e juni 2014 kl. 12:00:57 UTC+2 skrev Madhavan Bomidi:

- > Hello.
- > I have multiple *.nc files. I want to create SHA 256 checksum file for each of the datafile.
- > In linux shell, I get the checksum info as:
- > \$ sha256sum XYZ_1000.nc'

```
>
  89654655f1a75fc398fb86c9f56c255bb991768eb223a6defa1f1d5d0ede f6aa XYZ 1000.nc
>
 So, I tried to use the same in IDL as below:
>
  IDL> spawn, 'sha256sum XYZ_201304000.nc'
  89654655f1a75fc398fb86c9f56c255bb991768eb223a6defa1f1d5d0ede f6aa XYZ_1000.nc
>
> As I have created all the *.nc data files in IDL program, I would like to add few lines below to
create respective checksum file (e.g., <myfile>.sha256).
  I have my datafiles as - XYZ_1000.nc, XYZ_1001.nc, XYZ_1002.nc, ....
>
>
  I would like to copy the checksum output
  89654655f1a75fc398fb86c9f56c255bb991768eb223a6defa1f1d5d0ede f6aa
> to the new file - XYZ 1000.sha256
> I know it can be done directly on linux terminal but I want to create simultaneously in the IDL
code.
> Can anyone help me how I can do this in IDL using SPAWN command?
> Thanks in advance,
> Madhavan
Something like this should work (untested):
IDL> myfile='XYZ 1000'
IDL> spawn, 'sha256sum '+myfile+'.nc > '+myfile+'.sha256'
```

Subject: Re: How to use SPAWN for creating multiple output files? Posted by Matthew Argall on Wed, 11 Jun 2014 13:02:06 GMT View Forum Message <> Reply to Message

Here is a longer solution. Creating the file with ">" as Mats suggested is probably faster, but in this manner you can store the checksum into a variable in case you want to do something with it.

```
theFiles = file_search('XYZ_*.nc')
basename = file_basename(theFiles, '.nc')
dirname = file_dirname(theFiles)
output_filenames = filepath(basename + '.sha256', ROOT_DIR=dirname)
for i = 0, nFiles - 1 do begin
```

```
spawn, 'sha256sum ' + theFiles[i], checksum openw, lun, output_filenames[i], /GET_LUN printf, lun, checksum free_lun, lun endfor
```

Subject: Re: How to use SPAWN for creating multiple output files? Posted by atmospheric physics on Wed, 11 Jun 2014 14:24:55 GMT View Forum Message <> Reply to Message

Thank you both...

On Wednesday, June 11, 2014 3:02:06 PM UTC+2, Matthew Argall wrote: > Here is a longer solution. Creating the file with ">" as Mats suggested is probably faster, but in this manner you can store the checksum into a variable in case you want to do something with it. > > > > theFiles = file_search('XYZ_*.nc') basename = file basename(theFiles, '.nc') > > dirname = file dirname(theFiles) > > output_filenames = filepath(basename + '.sha256', ROOT_DIR=dirname) > > for i = 0, nFiles - 1 do begin > > spawn, 'sha256sum ' + theFiles[i], checksum > > > > openw, lun, output_filenames[i], /GET_LUN > > printf, lun, checksum > > free lun, lun >

> endfor