Subject: Re: newbie wants to call IDL from shell Posted by Vince Hradil on Sat, 12 Jul 2008 01:59:49 GMT View Forum Message <> Reply to Message

On Jul 11, 8:36 pm, Tom Roche <tlro...@gmail.com> wrote: > How to exec IDL procedures from a shell or other programming > environment? (Correctly: see failed attempt below.) Note that I'm not > talking about creating a runtime distribution; I just want to be able > to call a procedure from the OS commandline, not from the IDL > commandline, on a box with IDL installed. Why I ask: > > My group mostly uses IDL to interact with netCDF files. I'm noticing > that, in scripts I've been given, we do a lotta code where we type in > literals to specify files on which to operate, e.g. > > indir = '/path/to' > files = ['foo' , 'bar' , 'baz'] > FOR i = 0, n elements(files)-1 DO BEGIN filename = files[i] infile = indir+'/'+filename doSomethingWith, infile > ENDFOR I'd prefer to use IDL for things it does well, and use something more > general-purpose (e.g. bash, perl, python) (i.e. something I already > know how to use :-) to drive it, e.g. > > # bash > for INFILE in \$(bash fu); do idl < doSomethingWith \$INFILE done > > So I thought I'd start simple: I have a script (my first script that > does something useful!) > > public1:/home/tlr/idl> ls -al regrid_mozt42_tlr.pro> -rw-r--r-- 1 tlr m 755 Jul 10 16:11 regrid_mozt42_tlr.pro > public1:/home/tlr/idl> cat regrid_mozt42_tlr.pro >> COMPILE OPT IDL2 >> PRO regrid_mozt42_tlr >> END > done in the deprecated style above, which works from the IDL shell > with no args (because everything is literal within the *.pro): >

```
> public1:/home/tlr/idl> idl
>> IDL Version 7.0 (linux x86 m32). (c) 2007, ITT Visual Information Solutions
>> IDL> regrid mozt42 tlr
>> % Compiled module: REGRID_MOZT42_TLR.
>> Done.
> Now I just want to run it from the commandline, in the same directory
  as above (which is in my IDL_DIR):
  public1:/home/tlr/idl> idl < regrid_mozt42_tlr.pro
>
>
>> IDL Version 7.0 (linux x86 m32). (c) 2007, ITT Visual Information Solutions
>> PRO regrid_mozt42_tlr
>>
>> % Programs can't be compiled from single statement mode.
> What do I need to do to make that work? Or how else should I do this?
> Apologies if this is a FAQ but I haven't found any answers either
> googling or in the online help. If I should RTFM, please pass pointer.
> TIA, Tom Roche <Tom_Ro...@pobox.com>
Here's what I do:
1- make a .sav file.
IDL> .comp regrid_mozt42_tlr
IDL> resolve all
IDL> save, /routines, file='regrid_mozt42_tlr.sav'
2- make a shell script to call it.
!#/bin/bash
<get command line args etc.
store them in environment variables, and export them
use GETENV() to get them in the idl routine.>
idl -rt=regrid mozt42 tlr.sav
exit
```

You can also pass the cmd-line args to the idl command, but I've been doing it the Env Variable way for so long...

Your mileage may vary.

Cheers, Vince

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