Subject: programmatically compile a procedure without a .pro extension Posted by wlandsman on Sun, 25 Aug 2013 01:10:20 GMT

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Does anyone know if there is a way to programmatically compile a procedure that does not have a .pro extension? For example, if I have a file named a1.bak containing the following 4 lines:

pro a1 print,'Inside procedure a1' return end

then the user can successfully compile this using

IDL> .run a1.bak

But the tools to programmatically compile a file don't work in this case, i.e.

IDL> resolve_routine,'a1.bak' or IDL> file compile,'a1.bak'

where file_compile is from Craig Markwardt's library http://www.physics.wisc.edu/~craigm/idl/down/file_compile.pr o

It is reasonable to ask why I would not simply use a .pro extension. But the answer is fairly complicated so I don't (yet) want to distract from the straightforward question above. Thanks, --Wayne

Subject: Re: programmatically compile a procedure without a .pro extension Posted by Heinz Stege on Sun, 25 Aug 2013 12:10:37 GMT View Forum Message <> Reply to Message

If you don't want to get a .pro file by renaming (or making a copy of) the .bak file, you can do something like the following. The routine below creates a temporary .pro file and includes the files with other extensions by use of the @ include file character:

```
pro compile,filenames;

tempfile='compile_temp'
openw,lun,/get_lun,tempfile+'.pro'
printf,lun,'@'+filenames,form='(a)'
free_lun,lun;
catch,error
if ~error then resolve_routine,tempfile
```

```
catch,/cancel;
end
```

The catch statement suppresses an error message from the compiler, that there is no compile_temp routine.

Note that you can specify the filenames by a string array, if you want to compile more than one file.

Cheers, Heinz

Subject: Re: programmatically compile a procedure without a .pro extension Posted by wlandsman on Mon, 26 Aug 2013 03:23:53 GMT View Forum Message <> Reply to Message

Heinz,

Thanks. That is an elegant use of CATCH.

I still have mild trepidation about requiring an arbitrary user to have write access to a disk. But I've never had any problem using IDL_TMPDIR as a scratch writeable directory, so I should probably stop worrying. --Wayne

On Sunday, August 25, 2013 8:10:37 AM UTC-4, Heinz Stege wrote: > If you don't want to get a .pro file by renaming (or making a copy of) > > the .bak file, you can do something like the following. The routine > > below creates a temporary .pro file and includes the files with other > extensions by use of the @ include file character: > > > pro compile, filenames > > tempfile='compile_temp' openw,lun,/get_lun,tempfile+'.pro' > printf,lun,'@'+filenames,form='(a)'

> free_lun,lun

```
>
> ;
> catch,error
> if ~error then resolve_routine,tempfile
> catch,/cancel
> ;
> end
>
> The catch statement suppresses an error message from the compiler,
 that there is no compile_temp routine.
>
>
>
> Note that you can specify the filenames by a string array, if you want
 to compile more than one file.
>
> Cheers, Heinz
```