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Subject: Re: How to link IDL files

Posted by [Vapuser](#) on Wed, 24 Mar 1999 08:00:00 GMT

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VU KHAC Tri <tvk@info.fundp.ac.be> writes:

```
> Hi,  
> I'm am IDL newbie.  
> I want to write some IDL procedures split in different files. How can I  
> call a pro in a file from another pro in another file.  
> Best regards,  
>  
>  
> --  
> #+++++#####  
> | VU KHAC TRI |
```

This is probably a FAQ, but I couldn't check the FAQ to be sure, so I'll answer it anyway.

The short, and slightly incorrect, answer is, put 1 procedure/function per file, give the file the same name as the procedure/function with a .pro extension, e.g. if the function is named 'my\_funct' then name the file 'my\_funct.pro' and make sure that the IDL variable !path contains the directory(ies) wherein these files reside. In UNIX, you do this last part by correctly defining the environmental variable IDL\_PATH. If you do these things, IDL will find and compile the procedures automatically when it first sees them.

The long answer is:

Search in the IDL help file on the system variable '!path' and read it. Look at the part in you paper documentation about defining this variable and read it. In Unix land, this variable is controlled by the environment variable IDL\_PATH which you should set in, if you're using csh or one of it's variants, either your .login or your .[t]cshrc, if not, your .profile or whichever shell initialization files you need. I don't know how it's done in Windows. (By the way, it would help if you gave us info about the system you're using. Do a

IDL> print,!version

and report the output.)

!path is a list of directories the IDL interpreter searches when trying to resolve a procedure/function call that isn't internal to IDL. Upon encountering a unresolved IDL procedure/function call, the interpreter

looks for a file in the path with the same name and a '.pro' extension. This places some restrictions on the names of procedures/functions if they are to be automatically compiled in this manner. For instance, you can't name a file 'a-b.pro', although this is a legitimate file name in Unix, since the interpreter would interpret the attempt at calling 'a-b,arg' as... well.. a syntax error. Also be aware that in Unix, the case of the file name is significant, but the case of the function/procedure call isn't! (e.g. you can call the function `a=ThisIsAFunction()` but IDL will look for the file 'thisisafunction.pro') So, best practice is to give unix files all lowercase names. When the interpreter finds the file, it compiles it, then executes the named procedure/function (provided the procedure/function is defined by that file. So, best practice is to name the procedure/function the same as the filename.) By the way, you can define more than one procedure/function in a file, but you should always have the procedure/function with the same name as the file as the last one in that file.

A piece of syntactic sugar. In unix, when you set the path in the shell initialization files, you can tell IDL to search all the directories below a certain one by prepending a '+' to the path.

Thus, `setenv`

```
IDL_PATH \+ /some/directory/path:\+ /some/other/path
```

means search *\*all\** directories below the two directories '/some/directory/path' and '/some/other/path'

This is probably true for windows/mac too, I don't know.

whd

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