
Subject: Re: User functions and data name conflicts
Posted by [David Fanning](#) on Tue, 04 Sep 2001 17:31:00 GMT
[View Forum Message](#) <> [Reply to Message](#)

Richard Smart (smart@to.astro.it) writes:

- > Our system have just upgraded to a new IDL with more user
- > functions, one of these new ones is pm, and obsolete
- > procedure to print matrices, one of the structured variables I
- > have been using for the last few years also has this name
- > and I have a few 1000 lines of code using this variable in
- > various ways, now none of my code runs as the variable conflicts
- > with the function, is there any way to tell IDL to ignore this
- > particular user function or do I have to go back and change
- > my variable name?

Are you sure!?

I've heard of functions being confused with variables,
but I've never, ever heard of variables being confused
with functions.

In any case, take the darn PM function out of the
obsolete directory if you aren't using it. Or, remove
the obsolete directory from the path. Or, if you *have*
to have the PM function available for someone in your
organization, move it to a ReallyReallyObsolete subdirectory,
and let them add that directory to their path. :-)

Cheers,

David

--

David W. Fanning, Ph.D.
Fanning Software Consulting
Phone: 970-221-0438, E-mail: david@dfanning.com
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
Toll-Free IDL Book Orders: 1-888-461-0155

Subject: Re: User functions and data name conflicts
Posted by [Kristine Hensel](#) on Wed, 05 Sep 2001 01:40:43 GMT
[View Forum Message](#) <> [Reply to Message](#)

David Fanning wrote:

- >
- > Richard Smart (smart@to.astro.it) writes:

>
>> Our system have just upgraded to a new IDL with more user
>> functions, one of these new ones is pm, and obsolete
>> procedure to print matrices, one of the structured variables I
>> have been using for the last few years also has this name
>> and I have a few 1000 lines of code using this variable in
>> various ways, now none of my code runs as the variable conflicts
>> with the function, is there any way to tell IDL to ignore this
>> particular user function or do I have to go back and change
>> my variable name?
>
> Are you sure!?
>
> I've heard of functions being confused with variables,
> but I've never, ever heard of variables being confused
> with functions.

If pm is used as an array variable, the problem could come from using pm() instead of pm[]. In which case, the choice is between replacing the ()'s or replacing the pm's. (I'd choose the latter.)

Kristine

Subject: Re: User functions and data name conflicts
Posted by [R.Bauer](#) on Wed, 05 Sep 2001 07:14:35 GMT
[View Forum Message](#) <> [Reply to Message](#)

David Fanning wrote:

>
> Richard Smart (smart@to.astro.it) writes:
>
>> Our system have just upgraded to a new IDL with more user
>> functions, one of these new ones is pm, and obsolete
>> procedure to print matrices, one of the structured variables I
>> have been using for the last few years also has this name
>> and I have a few 1000 lines of code using this variable in
>> various ways, now none of my code runs as the variable conflicts
>> with the function, is there any way to tell IDL to ignore this
>> particular user function or do I have to go back and change
>> my variable name?
>
> Are you sure!?

Yes I am too.

First time we got such a problem was by an upgrade

to 5.4.1.

The function `file_info` was added by Version 5.4.1.

Version 5.4.1 is only available on unix systems as patch. In this version this function is undocumented.

In the next version 5.5 it is documented.

(I got a lot of fun because this changes were done one day before I gave a lecture about some routines of our library.

A lot of examples and routines were changed in the night before the lecture. The update was necessary because of a bug in the license management by floating licenses.)

In our earlier library we had a same named function which returns a named structure too. The 5.4.1 function returns a same named structure with different tags.

The name is defined. So you can build the `file_info` "object-structure" by

```
a={file_info}
```

```
IDL> a={file_info}
```

```
IDL> help,a,/str
```

```
** Structure FILE_INFO, 21 tags, length=60:
```

NAME	STRING	"
EXISTS	BYTE	0
READ	BYTE	0
WRITE	BYTE	0
EXECUTE	BYTE	0
REGULAR	BYTE	0
DIRECTORY	BYTE	0
BLOCK_SPECIAL	BYTE	0
CHARACTER_SPECIAL	BYTE	= 0
NAMED_PIPE	BYTE	0
SETUID	BYTE	0
SETGID	BYTE	0
SOCKET	BYTE	0
STICKY_BIT	BYTE	0
SYMLINK	BYTE	0
DANGLING_SYMLINK	BYTE	= 0
MODE	LONG	0
ATIME	LONG64	0
CTIME	LONG64	0
MTIME	LONG64	0
SIZE	LONG64	0

If it is possible to start our own routine the routine itself stops by an error in the moment the structure is created because of the name conflict.

In our case it was necessary to change the routine name and the structure name
in all routines where it was used.

This is easily done by idlde.

First do a text search on all routines and load them into idlde.

By the replace you can select all windows and then replace your string to another.

Then try compile each routine and store it.

I expect some more problems because normally I am using names for routines and structures

by the meaning what the routine did. I welcome new routines by new versions because

RSI learns by what the users are doing which routines are necessary.

I will not give stupid names to my routines because nobody else will find and use these routines.

So there is some risk that some versions later the routine name or structure name is used internally.

But I don't understand why patches are not documented!!

In newer documentations should be a list of the named structures too and which changes were done to them.

cheers

Reimar

>

> I've heard of functions being confused with variables,

> but I've never, ever heard of variables being confused
> with functions.
>
> In any case, take the darn PM function out of the
> obsolete directory if you aren't using it. Or, remove
> the obsolete directory from the path. Or, if you *have*
> to have the PM function available for someone in your
> organization, move it to a ReallyReallyObsolete subdirectory,
> and let them add that directory to their path. :-)
>
> Cheers,
>
> David
>
> --
> David W. Fanning, Ph.D.
> Fanning Software Consulting
> Phone: 970-221-0438, E-mail: david@dfanning.com
> Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
> Toll-Free IDL Book Orders: 1-888-461-0155

--
Reimar Bauer

Institut fuer Stratosphaerische Chemie (ICG-1)
Forschungszentrum Juelich
email: R.Bauer@fz-juelich.de
<http://www.fz-juelich.de/icg/icg1/>

=====

a IDL library at Forschungszentrum Juelich
http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_lib_intro.html

<http://www.fz-juelich.de/zb/text/publikation/juel3786.html>
=====

read something about linux / windows
<http://www.suse.de/de/news/hotnews/MS.html>