
Subject: SAV file call external function problem?

Posted by [Rongchang Chen](#) on Thu, 20 Nov 2008 10:10:57 GMT

[View Forum Message](#) <> [Reply to Message](#)

Hi everyone,

My SAV file use 'call_function' command.

The 'function_name.pro' which called by 'call_function' command is to load image, but every experiment we will create new

'function_name.pro' for the new images, it is impossible to compile and enclose all 'function_name.pro' in SAV file in advance.

Is it possible for SAV file to call external function which doesn't enclose in SAV file?? Thank you very much!!

With best wishes,

Rongchang

Subject: Re: SAV file call external function problem?

Posted by [David Fanning](#) on Thu, 20 Nov 2008 14:07:06 GMT

[View Forum Message](#) <> [Reply to Message](#)

Rongchang Chen writes:

- > My SAV file use 'call_function' command.
- > The 'function_name.pro' which called by 'call_function' command is to
- > load image, but every experiment we will create new
- > 'function_name.pro' for the new images, it is impossible to compile and
- > enclose all 'function_name.pro' in SAV file in advance.
- > Is it possible for SAV file to call external function which doesn't
- > enclose in SAV file?? Thank you very much!!

I presume you mean you are running your SAVE file on either a runtime license or the Virtual Machine.

In either of those cases, there can be no *compiling* of routines. So, you will have had to pre-compile all the functions you intend to call with CALL_FUNCTION and include those in the SAVE file.

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: SAV file call external function problem?
Posted by [R.Bauer](#) on Thu, 20 Nov 2008 14:53:03 GMT
[View Forum Message](#) <> [Reply to Message](#)

David Fanning schrieb:

> Rongchang Chen writes:

>

>> My SAV file use 'call_function' command.

>> The 'function_name.pro' which called by 'call_function' command is to

>> load image, but every experiment we will create new

>> 'function_name.pro' for the new images, it is impossible to compile and

>> enclose all 'function_name.pro' in SAV file in advance.

>> Is it possible for SAV file to call external function which doesn't

>> enclose in SAV file?? Thank you very much!!

>

> I presume you mean you are running your SAVE file

> on either a runtime license or the Virtual Machine.

> In either of those cases, there can be no *compiling*

> of routines. So, you will have had to pre-compile all

> the functions you intend to call with CALL_FUNCTION

> and include those in the SAVE file.

>

> Cheers,

>

> David

a) one could implement a service which sends the function to a server
which returns the compiled sav file.

b) if the function is for only defining vars there are other
possibilities. For further discussions please show the code. e.g.
use a pastebin (<http://paste.pocoo.org>)

cheers

Reimar

cheers

Reimar

Subject: Re: SAV file call external function problem?
Posted by [Rongchang Chen](#) on Fri, 21 Nov 2008 09:49:50 GMT
[View Forum Message](#) <> [Reply to Message](#)

> I presume you mean you are running your SAVE file

> on either a runtime license or the Virtual Machine.

- > In either of those cases, there can be no *compiling*
- > of routines. So, you will have had to pre-compile all
- > the functions you intend to call with CALL_FUNCTION
- > and include those in the SAVE file.

Yes I want to run SAVE file on Virtual Machine.CALL_FUNCTION need pre-compile all routines,can other commands or methods support to call idl routines which doesn't pre-compile in SAVE file? Thank you!

Subject: Re: SAV file call external function problem?
Posted by [R.Bauer](#) on Fri, 21 Nov 2008 10:00:03 GMT
[View Forum Message](#) <> [Reply to Message](#)

Rongchang Chen schrieb:

- >> I presume you mean you are running your SAVE file
- >> on either a runtime license or the Virtual Machine.
- >> In either of those cases, there can be no *compiling*
- >> of routines. So, you will have had to pre-compile all
- >> the functions you intend to call with CALL_FUNCTION
- >> and include those in the SAVE file.
- >
- >
- > Yes I want to run SAVE file on Virtual Machine.CALL_FUNCTION need pre-
- > compile all routines,can other commands or methods support to call idl
- > routines which doesn't pre-compile in SAVE file? Thank you!

where is the example function you create on the fly?

Reimar

Subject: Re: SAV file call external function problem?
Posted by [Rongchang Chen](#) on Fri, 21 Nov 2008 10:07:22 GMT
[View Forum Message](#) <> [Reply to Message](#)

- >> Reimar
- >
- > a) one could implement a service which sends thefunctionto a server
- > which returns the compiledsavfile.
- >
- > b) if thefunctionis for only defining vars there are other
- > possibilities. For further discussions please show the code. e.g.
- > use a pastebin (<http://paste.pocoo.org>)

Thank you for discussion.

I would like the SAVE file which run on Virtual Machine works following way:

1. One can enter the image open function name in the 'widget_text';
 2. GUI get the function name and call the function to open images.
- OK,if the function name is pre-compile then it work well,but if i need to use new function name which doesn't pre-compile in SAVE file,then it doesn't work.Because the function name is change time by time,it's not convenient to recompile again,also not good for source code protect in my opinion.
Can this problem be improve?Thank you!

Best wishes,
Rongchang

Subject: Re: SAV file call external function problem?
Posted by [David Fanning](#) on Fri, 21 Nov 2008 11:06:59 GMT
[View Forum Message](#) <> [Reply to Message](#)

Rongchang Chen writes:

- > Yes I want to run SAVE file on Virtual Machine.CALL_FUNCTION need pre-
- > compile all routines,can other commands or methods support to call idl
- > routines which doesn't pre-compile in SAVE file?

Not to my knowledge, no.

Cheers,

David

--

David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: SAV file call external function problem?
Posted by [R.Bauer](#) on Fri, 21 Nov 2008 11:31:57 GMT
[View Forum Message](#) <> [Reply to Message](#)

David Fanning schrieb:

- > Rongchang Chen writes:
- >
- >> Yes I want to run SAVE file on Virtual Machine.CALL_FUNCTION need pre-

>> compile all routines,can other commands or methods support to call idl
>> routines which doesn't pre-compile in SAVE file?
>
> Not to my knowledge, no.
>
> Cheers,
>
> David
>

The question is how that on the fly created function looks like. If he shares an example we can discuss how that issue could be solved. I assume that most of the code used in that function is already compiled.

Reimar

Subject: Re: SAV file call external function problem?
Posted by [R.Bauer](#) on Fri, 21 Nov 2008 11:39:09 GMT
[View Forum Message](#) <> [Reply to Message](#)

Rongchang Chen schrieb:

>>> Reimar
>> a) one could implement a service which sends thefunctionto a server
>> which returns the compiledsavfile.
>>
>> b) if thefunctionis for only defining vars there are other
>> possibilities. For further discussions please show the code. e.g.
>> use a pastebin (<http://paste.pocoo.org>)
>
> Thank you for discussion.
> I would like the SAVE file which run on Virtual Machine works
> following way:
> 1. One can enter the image open function name in the 'widget_text';
> 2. GUI get the function name and call the function to open images.
> OK,if the function name is pre-compile then it work well,but if i need
> to use new function name which doesn't pre-compile in SAVE file,then
> it doesn't work.Because the function name is change time by time,it's
> not convenient to recompile again,also not good for source code
> protect in my opinion.
> Can this problem be improve?Thank you!
>
> Best wishes,
> Rongchang

If you can share an example source of the function you enter we can discuss how to solve this issue differently.

Reimar

Subject: Re: SAV file call external function problem?
Posted by [David Fanning](#) on Fri, 21 Nov 2008 11:41:06 GMT
[View Forum Message](#) <> [Reply to Message](#)

Reimar Bauer writes:

- > The question is how that on the fly created function looks like. If he
- > shares an example we can discuss how that issue could be solved.
- > I assume that most of the code used in that function is already compiled.

I think at this stage making *any* kind of assumption will only result in increased newsgroup volume. I'm already up at 4AM to deal with the onslaught, but I think in the end the answer won't change. I'm 99 percent sure the answer is "no". :-)

Cheers,

David

--

David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: SAV file call external function problem?
Posted by [Rongchang Chen](#) on Fri, 21 Nov 2008 14:25:29 GMT
[View Forum Message](#) <> [Reply to Message](#)

Thank David and Remimar for your helpful discussion, unfortunately I can't share the source because the software is not only developed by myself, I'm really sorry about this.
Thank you again!

Best wishes,
Rongchang

Subject: Re: SAV file call external function problem?
Posted by [Jean H.](#) on Fri, 21 Nov 2008 15:22:38 GMT
[View Forum Message](#) <> [Reply to Message](#)

Rongchang Chen wrote:

- > Thank David and Remimar for your helpful discussion,unfortunately I
- > can't share the source because the software is not only developed by
- > myself,I'm really sorry about this.
- > Thank you again!
- >
- > Best wishes,
- > Rongchang

I guess both David and Reimar are correct... VM does not allow to run un-compiled code (otherwise nobody would be buying IDL anymore!!!). However, you might have similarities in your images that you can exploit. For example, if the only differences are only the size of the header or the data type, you could have a GUI or a PROMPT that ask for those info, and act, in your pre-compiled code, accordingly...

Jean
