
Subject: Re: compiling itools and utilities

Posted by [David Fanning](#) on Tue, 23 Mar 2004 13:19:30 GMT

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Nuno Oliveira writes:

> I'm trying to make a .sav file from which I can call some itools and
> utilities. I add the corresponding .pro files (in the case, xvolume.pro and
> ivolume.pro) to a project that I build (and that includes /resolve all). But
> when I try to run it, I get an error, because he needs all the procedures
> that itools and utilities call, like the ones related to creation of
> objects.
>
> Do I need to compile explicitly all the procedures that are associated to
> itools? Or there is another way to get itools on a .sav file to call from
> virtual machine?

You need to know about the undocumented file IDLitResolveITools:

http://www.dfanning.com/itool_tips/runtime.html

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting

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

Subject: Re: compiling itools and utilities

Posted by [Nuno Oliveira](#) on Tue, 23 Mar 2004 16:17:08 GMT

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I try as you said. But I still get problems! The program I want to run is in a project. I try the two ways possible. In one case I compiled the programs of the project first of the project and then did the IDLitResolveITools. The other case I did the opposite.

For each case I get a different error message, but always in the same place. I hope it is not a installation problem. Anyone has a clue about what's going on?

Cheers,

Nuno.

This was for one case.

```
IDL> IDLitResolveTools
% Attempt to call undefined procedure/function: 'FW_UPDATEDATAWINDOW'.
% Error occurred at: RESOLVE_ALL_BODY 280
  /usr/local/rsi/idl_6.0/lib/resolve_all.pro
%          RESOLVE_ALL      331
  /usr/local/rsi/idl_6.0/lib/resolve_all.pro
%          IDLITRESOLVETOOLS 62
  /usr/local/rsi/idl_6.0/lib/itools/framework/idlitresolveitoo ls.pro
%          $MAIN$
% Execution halted at: IDLITRESOLVETOOLS 62
  /usr/local/rsi/idl_6.0/lib/itools/framework/idlitresolveitoo ls.pro

% Attempt to call undefined procedure/function: 'FW_QUERYDEFAULTSTYLE'.
% Error occurred at: RESOLVE_ALL_BODY 280
  /usr/local/rsi/idl_6.0/lib/resolve_all.pro
%          RESOLVE_ALL      332
  /usr/local/rsi/idl_6.0/lib/resolve_all.pro
%          $MAIN$
% Execution halted at: $MAIN$
```

and for the other.

```
IDL> resolve_all
% Restored file: LIVE_DESTROY.
% Compiled module: SLICER3.
% Compiled module: WRITE_IMAGE.
% Compiled module: XLOADCT.
% Compiled module: XVOLUME.
% Compiled module: COLORMAP_APPLICABLE.
% Compiled module: CW_DEFROI.
% Compiled module: CW_RGBSLIDER.
% Compiled module: DIALOG_READ_IMAGE.
% Compiled module: DIALOG_WRITE_IMAGE.
% Attempt to call undefined procedure/function: 'FW_QUERYDEFAULTSTYLE'.
% Error occurred at: RESOLVE_ALL_BODY 280
```

```
/usr/local/rsi/idl_6.0/lib/resolve_all.pro
%      RESOLVE_ALL      332
/usr/local/rsi/idl_6.0/lib/resolve_all.pro
%      $MAIN$
% Execution halted at: $MAIN$
```

"David Fanning" <david@dfanning.com> wrote in message
news:MPG.1ac9e74c31b84918989706@news.frii.com...

> Nuno Oliveira writes:

>

>

> You need to know about the undocumented file IDLitResolveTools:

>

> http://www.dfanning.com/itool_tips/runtime.html

>

> Cheers,

>

> David

> --

> David Fanning, Ph.D.

> Fanning Software Consulting

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Subject: Re: compiling itools and utilities

Posted by [David Fanning](#) on Tue, 23 Mar 2004 17:03:25 GMT

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Nuno Oliveira writes:

> I try as you said. But I still get problems! The program I want to run is in

> a project. I try the two ways possible. In one case I compiled the programs

> of the project first of the project and then did the IDLitResolveTools. The

> other case I did the opposite.

>

> For each case I get a different error message, but always in the same place.

> I hope it is not a installation problem. Anyone has a clue about what's

> going on?

Are these programs *named* properly? That is, the name of the
program file is the same as the *last* program module in the file?

Improper naming is the culprit in the vast majority of these
cases:

<http://www.dfanning.com/tips/namefiles.html>

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting

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Subject: Re: compiling itools and utilities

Posted by [Nuno Oliveira](#) on Tue, 23 Mar 2004 17:26:43 GMT

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Yes, the last program is always the program that gives the name to the file. This is getting weird. For you see how strange this is, forget for one moment the question about iTools. This happens to me also for resolve_all. For what I've just saw, when use the files within the project and use the option BUILD everything goes well. But if pick all the files and compile it individually and the use the command resolve_all I get that message that I've already post. Do you imagine what this could be? I'm a little bit confused.

"David Fanning" <david@dfanning.com> wrote in message
news:MPG.1aca1bc9e2649ed4989707@news.frii.com...

> Nuno Oliveira writes:

>

>> I try as you said. But I still get problems! The program I want to run
is in

>> a project. I try the two ways possible. In one case I compiled the
programs

>> of the project first of the project and then did the IDLitResolveiTools.
The

>> other case I did the opposite.

>>

>> For each case I get a different error message, but always in the same
place.

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>> going on?

>

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> program file is the same as the *last* program module in the file?

> Improper naming is the culprit in the vast majority of these
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>

> <http://www.dfanning.com/tips/namefiles.html>

>

> Cheers,

>
> David
> --
> David Fanning, Ph.D.
> Fanning Software Consulting
> Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Subject: Re: compiling itools and utilities
Posted by [David Fanning](#) on Tue, 23 Mar 2004 17:48:08 GMT
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Nuno Oliveira writes:

> Yes, the last program is always the program that gives the name to the
> file. This is getting weird. For you see how strange this is, forget for one
> moment the question about iTools. This happens to me also for resolve_all.
> For what I've just saw, when use the files within the project and use the
> option BUILD everything goes well. But if pick all the files and compile it
> individually and the use the command resolve_all I get that message that
> I've already post. Do you imagine what this could be? I'm a little bit
> confused.

Are these files (e.g., FW_UPDATEDATAWINDOW) ones that you
created? Are the project directories on your IDL path?

Cheers,

David

--

David Fanning, Ph.D.
Fanning Software Consulting
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Subject: Re: compiling itools and utilities
Posted by [Nuno Oliveira](#) on Wed, 24 Mar 2004 10:53:17 GMT
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Those functions, that it says that are undefined, are not my functions. I
was thinking they were some internal function. There are any suggestions for
a debug action? How can I do something that allows me to see how and where
these functions appear?

My project directories are in IDL path.

Cheers,

Nuno.

"David Fanning" <david@dfanning.com> wrote in message
news:MPG.1aca26459b35486f989709@news.frii.com...

> Nuno Oliveira writes:

>

>> Yes, the last program is always the program that gives the name to the
>> file. This is getting weird. For you see how strange this is, forget for
one

>> moment the question about iTools. This happens to me also for
resolve_all.

>> For what I've just saw, when use the files within the project and use
the

>> option BUILD everything goes well. But if pick all the files and compile
it

>> individually and the use the command resolve_all I get that message that

>> I've already post. Do you imagine what this could be? I'm a little bit

>> confused.

>

> Are these files (e.g., FW_UPDATEDATAWINDOW) ones that you
> created? Are the project directories on your IDL path?

>

> Cheers,

>

> David

> --

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Subject: Re: compiling itools and utilities

Posted by [David Fanning](#) on Wed, 24 Mar 2004 14:06:19 GMT

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Nuno Oliveira writes:

> Those functions, that it says that are undefined, are not my functions. I

> was thinking they were some internal function. There are any suggestions for

> a debug action? How can I do something that allows me to see how and where

> these functions appear?

Well, then I guess I'm back to improper naming.
But, it's not your fault. Blame those SOBs you
got that code from! :-)

Compile the programs from your project. Then type
this:

```
IDL> Help, /Source
```

Examine the list (it will probably be a long one) to
see where these files are. Take them out of whatever
file they are in and name them correctly. Shouldn't
take more than a day or two. :-)

Cheers,

David

--

David Fanning, Ph.D.
Fanning Software Consulting
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Subject: Re: compiling itools and utilities
Posted by [Nuno Oliveira](#) on Wed, 24 Mar 2004 14:34:14 GMT
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I don't what SOBs are, :(

What you are saying is that some functions IDL use can be named not
properly? That would mean that if someone else use the functions I'm using
should get the same problem. Is that it?

You say that maybe FW_UPDATEDATAWINDOW and FW_QUERYDEFAULTSTYLE are
routines
from a file with a different name when they should be the last program of
the file and so giving the file his name?

What I saw from that help, /source is that many from are compiled from the
fw_load_file.sav file. So I don't have access to the code.

Thanks (again).

Cheers,

Nuno.

"David Fanning" <david@dfanning.com> wrote in message
news:MPG.1acb43c466d6801e98970d@news.frii.com...

> Nuno Oliveira writes:

>

>

> Well, then I guess I'm back to improper naming.

> But, it's not your fault. Blame those SOBs you

> got that code from! :-)

>

> Compile the programs from your project. Then type

> this:

>

> IDL> Help, /Source

>

> Examine the list (it will probably be a long one) to

> see where these files are. Take them out of whatever

> file they are in and name them correctly. Shouldn't

> take more than a day or two. :-)

>

> Cheers,

>

> David

>

> --

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Subject: Re: compiling itools and utilities

Posted by [David Fanning](#) on Wed, 24 Mar 2004 14:43:48 GMT

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Nuno Oliveira writes:

> I don't what SOBs are, :(

It's a term of affection, used for close colleagues. :-)

> What I saw from that help, /source is that many from are compiled from the
> fw_load_file.sav file. So I don't have access to the code.

Ah, well. Here we are!

If you are doing this by hand, you will have to restore
all the save files *before* you compile your program.
Then I don't think you will have any problem with the
RESOLVE_ALL.

Cheers,

David

--

David Fanning, Ph.D.

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Subject: Re: compiling itools and utilities

Posted by [Nuno Oliveira](#) on Wed, 24 Mar 2004 15:14:30 GMT

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Well, I made

```
lista = findfile('/rsi/idl_6.0/lib/obsolete/*.sav')
```

And the files are:

fw_load_extension.sav

fw_load_file.sav

fw_load_generic.sav

live_contour.sav

live_control.sav

live_destroy.sav

live_export.sav

live_image.sav

live_info.sav

live_line.sav

live_load.sav

live_oplot.sav

live_plot.sav

live_print.sav

live_rect.sav

live_style.sav

live_surface.sav

live_text.sav

then:

```
for i = 0, n_elements(lista)-1 do restore, lista(i)
```

After this I've compiled my project files and made the `resolve_all` and everything's ok. But what .sav file that was about 2M has about 10M, what is not very nice.

But there is still something strange. I did the `help, /source` after restoring those .sav files and that `fw_updatewindow` that missing is not listed as compiled.

Now I'm going restore one by one and try to see which file fixes the problem.

I'm going to start from that `fw_load_extension.sav`

But still it is not very clear to me what is going on... Shouldn't
resolve_all restore those files? Is this because somewhere I'm using
obsolete routines?

Cheers,

Nuno.

"David Fanning" <david@dfanning.com> wrote in message
news:MPG.1acb4c8d1eacc66298970f@news.frii.com...

> Nuno Oliveira writes:

>

>> I don't what SOBs are, :(

>

> It's a term of affection, used for close colleagues. :-)

>

>> What I saw from that help, /source is that many from are compiled from
the

>> fw_load_file.sav file. So I don't have access to the code.

>

> Ah, well. Here we are!

>

> If you are doing this by hand, you will have to restore

> all the save files *before* you compile your program.

> Then I don't think you will have any problem with the

> RESOLVE_ALL.

>

> Cheers,

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> David

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Subject: Re: compiling itools and utilities

Posted by [David Fanning](#) on Wed, 24 Mar 2004 15:31:10 GMT

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Nuno Oliveira writes:

```
> Well, I made
>
> lista = findfile('/rsi/idl_6.0/lib/obsolete/*.sav')
>
> And the files are:
>
> fw_load_extension.sav
> fw_load_file.sav
> fw_load_generic.sav
> live_contour.sav
> live_control.sav
```

Oh, oh. Live tools!? I'm outa here!

```
> After this I've compiled my project files and made the resolve_all and
> everything's ok. But what .sav file that was about 2M has about 10M, what is
> not very nice.
```

I expect you have more Live Tools than you need. (Some may argue that one is too many, but you get the point.)

```
> But there is still something strange. I did the help, /source after
> restoring those .sav files and that fw_updatewindow that missing is not
> listed as compiled.
```

Humm. Don't know.

```
> But still it is not very clear to me what is going on... Shouldn't
> resolve_all restore those files?
```

I suppose a case could be made for this. But that is not how RESOLVE_ALL works at the moment. Something to bring up with RSI, probably.

```
> Is this because somewhere I'm using obsolete routines?
```

No, using these routines will certainly cause you problems, sooner or later, but those problems will be completely unrelated to the problem we are discussing currently. :-)

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting

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Subject: Re: compiling itools and utilities

Posted by [Nuno Oliveira](#) on Wed, 24 Mar 2004 16:10:28 GMT

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Well, seems the problem was on live_contour.sav

The case is that making that help, /source after restoring this file I don't that procedures that idl was claiming that were missing...

At the moment, if I restore it before compile my project files, and then make the resolve_all, and after that make IDLitResolveTools, then I can save as a SAV file and runs well.

IDL works in mysterious ways?

"David Fanning" <david@dfanning.com> wrote in message news:MPG.1acb57a462788b8e989710@news.frii.com...

> Nuno Oliveira writes:

>

>> Well, I made

>>

>> lista = findfile('/rsi/idl_6.0/lib/obsolete/*.sav')

>>

>> And the files are:

>>

>> fw_load_extension.sav

>> fw_load_file.sav

>> fw_load_generic.sav

>> live_contour.sav

>> live_control.sav

>

> Oh, oh. Live tools!? I'm outa here!

>

>> After this I've compiled my project files and made the resolve_all and

>> everything's ok. But what .sav file that was about 2M has about 10M, what is

>> not very nice.

>
> I expect you have more Live Tools than you need. (Some
> may argue that one is too many, but you get the point.)
>
>> But there is still something strange. I did the help, /source after
>> restoring those .sav files and that fw_updatewindow that missing is not
>> listed as compiled.
>
> Humm. Don't know.
>
>> But still it is not very clear to me what is going on... Shouldn't
>> resolve_all restore those files?
>
> I suppose a case could be made for this. But that is not
> how RESOLVE_ALL works at the moment. Something to bring
> up with RSI, probably.
>
>> Is this because somewhere I'm using obsolete routines?
>
> No, using these routines will certainly cause you
> problems, sooner or later, but those problems will
> be completely unrelated to the problem we are
> discussing currently. :-)
>
> Cheers,
>
> David
> --
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> Fanning Software Consulting
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Subject: Re: compiling itools and utilities
Posted by [David Fanning](#) on Wed, 24 Mar 2004 16:15:14 GMT
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Nuno Oliveira writes:

> IDL works in mysterious ways?

You think? :-)

Cheers,

David

--

David Fanning, Ph.D.

