
Subject: Re: RESOLVE_ROUTINE essentially unusable on linux?

Posted by [Michael Galloy](#) on Wed, 10 Aug 2011 18:38:00 GMT

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On 8/10/11 12:36 PM, Brian Wolven wrote:

> I understand this - linux is case sensitive:

>

> IDL> .compile sis_bin_mapped_data

> % Error opening file. File: sis_bin_mapped_data

> IDL> .compile SIS_BIN_MAPPED_DATA

> % Error opening file. File: SIS_BIN_MAPPED_DATA

> IDL> .compile SIS_bin_mapped_data

> % Compiled module: SIS_BIN_MAPPED_DATA.

>

> But there seems to be no way to get it to work at all with this approach:

>

> IDL> resolve_routine,/EITHER,'sis_bin_mapped_data'

> % Attempt to call undefined procedure/function: 'SIS_BIN_MAPPED_DATA'.

> % Execution halted at: \$MAIN\$

> IDL> resolve_routine,/EITHER,'SIS_BIN_MAPPED_DATA'

> % Attempt to call undefined procedure/function: 'SIS_BIN_MAPPED_DATA'.

> % Execution halted at: \$MAIN\$

> IDL> resolve_routine,/EITHER,'SIS_bin_mapped_data'

> % Attempt to call undefined procedure/function: 'SIS_BIN_MAPPED_DATA'.

> % Execution halted at: \$MAIN\$

>

> SIS_bin_mapped_data.pro is in the current working directory. Seems like the only solution is to rename all files in upper case? Am I missing something?

All lowercase will work. Also, this is important for automatic routine compilation, i.e., naming your files correctly so that IDL finds the routines in them.

Mike

--

Michael Galloy

www.michaelgalloy.com

Modern IDL, A Guide to Learning IDL: <http://modernidl.idldev.com>

Research Mathematician

Tech-X Corporation

Subject: Re: RESOLVE_ROUTINE essentially unusable on linux?

Posted by [Brian Wolven](#) on Wed, 10 Aug 2011 18:58:59 GMT

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Thanks, sort of. ;) Unfortunately there are many years worth of code involved, contributed by multiple people from multiple organizations, each with their own naming scheme. While I have no

problem going through and renaming everything myself, the repercussions would be a bit painful at this point.

The automatic resolve_routine approach does work fine on my Mac, so perhaps I'll just make a saveset and run from that on the linux side rather than mirroring the code and compiling it there.

Subject: Re: RESOLVE_ROUTINE essentially unusable on linux?

Posted by [Michael Galloy](#) on Wed, 10 Aug 2011 19:57:11 GMT

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On 8/10/11 12:58 PM, Brian Wolven wrote:

> Thanks, sort of. ;) Unfortunately there are many years worth of code involved, contributed by multiple people from multiple organizations, each with their own naming scheme. While I have no problem going through and renaming everything myself, the repercussions would be a bit painful at this point.

>

> The automatic resolve_routine approach does work fine on my Mac, so perhaps I'll just make a saveset and run from that on the linux side rather than mirroring the code and compiling it there.

Yes, a .sav file for other platforms would be a good workaround.

Mike

--

Michael Galloy

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Modern IDL, A Guide to Learning IDL: <http://modernidl.idldev.com>

Research Mathematician

Tech-X Corporation

Subject: Re: RESOLVE_ROUTINE essentially unusable on linux?

Posted by [David Fanning](#) on Thu, 11 Aug 2011 23:09:46 GMT

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Brian Wolven writes:

> SIS_bin_mapped_data.pro is in the current working directory. Seems like the only solution is to rename all files in upper case? Am I missing something?

All files should be named in LOWERCASE!!

Cheers,

David

--

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

Subject: Re: RESOLVE_ROUTINE essentially unusable on linux?
Posted by [Brian Wolven](#) on Fri, 12 Aug 2011 18:15:43 GMT
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I'd prefer lowercase myself, but IDL insists on referring to them in uppercase.

I think this is just another unfortunate consequence of people being forced to work with case-insensitive operating systems and straying away from primal unix. Of course I also do all of my editing in vim and typesetting in latex, and only run IDL from the command line. And stay off of my lawn. ;)

Subject: Re: RESOLVE_ROUTINE essentially unusable on linux?
Posted by [David Fanning](#) on Fri, 12 Aug 2011 18:25:11 GMT
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Brian Wolven writes:

> I'd prefer lowercase myself, but IDL insists on referring to them in uppercase.

Well, don't confuse the way IDL refers to file (always UPPERCASE in error messages), and the way IDL looks for files (always lowercase file names). If you follow the rule that all IDL files should be named with lowercase characters, then things work normally. It is the Mac users, I notice, who usually get into trouble. :-)

Cheers,

David

--

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

Subject: Re: RESOLVE_ROUTINE essentially unusable on linux?

Posted by [Brian Wolven](#) on Fri, 12 Aug 2011 18:41:17 GMT

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I just don't like the fact that IDL always seems to be shouting at me. =P

The thing that was disconcerting here is that the routine failed to work even when the case was specified exactly - it is in fact the result of operations using the FILE_SEARCH and FILE_BASENAME routines. So IDL is fine with mixed case in that usage, and doesn't mind it in .COMPILE or .RUN statements, but suddenly gets all uppity when you try RESOLVE_ROUTINE. Internally inconsistent, IMO, but then I guess I should have known better, eh?

Subject: Re: RESOLVE_ROUTINE essentially unusable on linux?

Posted by [David Fanning](#) on Fri, 12 Aug 2011 18:58:03 GMT

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Brian Wolven writes:

> I just don't like the fact that IDL always seems to be
> shouting at me. =P

Ah, well...

> The thing that was disconcerting here is that the routine
> failed to work even when the case was specified exactly -
> it is in fact the result of operations using the FILE_SEARCH
> and FILE_BASENAME routines. So IDL is fine with mixed case
> in that usage, and doesn't mind it in .COMPILE or .RUN
> statements, but suddenly gets all uppity when you try
> RESOLVE_ROUTINE. Internally inconsistent, IMO, but then
> I guess I should have known better, eh?

Those of use who have been programming for 25+ years notice the same inconsistencies in our own programs. I wish God has made us all Republicans so we wouldn't be afflicted with this terrible disease. :-(

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

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

Subject: Re: RESOLVE_ROUTINE essentially unusable on linux?
Posted by [Brian Wolven](#) on Fri, 12 Aug 2011 19:11:51 GMT
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- > Those of use who have been programming for 25+ years
- > notice the same inconsistencies in our own programs.
- > I wish God has made us all Republicans so we wouldn't
- > be afflicted with this terrible disease. :-(

Are there then *no* Republican programmers? ;)

Subject: Re: RESOLVE_ROUTINE essentially unusable on linux?
Posted by [Kenneth P. Bowman](#) on Fri, 12 Aug 2011 21:33:59 GMT
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In article <MPG.28af1df5bd57f525989939@news.giganews.com>,
David Fanning <news@idlcoyote.com> wrote:

- > Brian Wolven writes:
- >
- >> I'd prefer lowercase myself, but IDL insists on referring to them in uppercase.
- >
- > Well, don't confuse the way IDL refers to file (always
- > UPPERCASE in error messages), and the way IDL looks
- > for files (always lowercase file names). If you follow
- > the rule that all IDL files should be named with lowercase
- > characters, then things work normally. It is the Mac users,
- > I notice, who usually get into trouble. :-)
- >

Don't go blaming us for that! I never have these problems. :-)

Ken

Subject: Re: RESOLVE_ROUTINE essentially unusable on linux?
Posted by [Brian Wolven](#) on Fri, 12 Aug 2011 21:44:46 GMT
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If you develop and run in the same environment you're not likely to have problems. If you need portability, you'll have to watch out for gotchas like this when going from one OS to another.
