
Subject: rIDL command line replacement

Posted by [Michael Galloy](#) on Mon, 23 May 2011 19:59:06 GMT

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For those interested in my command line replacement for IDL that offers tab completion and other similar features, I added a real build system to it this weekend. If you were interested in rIDL before, but couldn't build it on your system, this should be a huge improvement. I'm betting there are still kinks in the system, but it builds on my Mac OS X and Linux system easily. The new system should even work on Windows, but I don't have experience there (though I would help a Windows developer get it going if they were interested).

For details on how to get the code and build it, see the article on my site:

<http://michaelgalloy.com/2011/05/23/ridl-cmake-ified.html>

Mike

--

Michael Galloy

www.michaelgalloy.com

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

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Subject: Re: rIDL command line replacement

Posted by [cgguido](#) on Wed, 25 May 2011 17:45:32 GMT

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Hey,

having some issues with the install, can I post here for help?

Thanks,

G

Subject: Re: rIDL command line replacement

Posted by [cgguido](#) on Wed, 25 May 2011 18:42:51 GMT

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That's like asking if I can ask a question.... how overcomplicated of me :-(

Here we go. I am on Mac OS X 10.5.8 and run :

```
sudo cmake -DReadline_INCLUDE_DIR=/sw/include/readline \
```

```
-DReadline_LIBRARY=/sw/lib/libreadline.5.0.dylib
```

and get:

```
-- IDL library: /Applications/itt/idl/idl80/bin/bin.darwin.x86_64/libidl.dylib
-- IDL include: /Applications/itt/idl/idl80/external/include
-- Found GNU Readline: /sw/lib/libreadline.5.0.dylib
-- Configuring done
-- Generating done
-- Build files have been written to: /Users/cgguido/ridl
```

So far so good. Then I run:

```
sudo gnumake
```

and get:

```
Scanning dependencies of target ridl
[ 14%] Building C object src/CMakeFiles/ridl.dir/ridl.c.o
/Users/cgguido/trunk/src/ridl.c: In function 'ridl_printfunmap':
/Users/cgguido/trunk/src/ridl.c:393: warning: initialization makes pointer from integer without a cast
/Users/cgguido/trunk/src/ridl.c: In function 'main':
/Users/cgguido/trunk/src/ridl.c:835: error: 'rl_event_hook' undeclared (first use in this function)
/Users/cgguido/trunk/src/ridl.c:835: error: (Each undeclared identifier is reported only once
/Users/cgguido/trunk/src/ridl.c:835: error: for each function it appears in.)
gnumake[2]: *** [src/CMakeFiles/ridl.dir/ridl.c.o] Error 1
gnumake[1]: *** [src/CMakeFiles/ridl.dir/all] Error 2
gnumake: *** [all] Error 2
```

Any ideas?

Many thanks,
Gianguido

Subject: Re: rIDL command line replacement
Posted by [Michael Galloy](#) on Wed, 25 May 2011 20:47:51 GMT
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On 5/25/11 12:42 PM, Gianguido Cianci wrote:

```
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> -DReadline_LIBRARY=/sw/lib/libreadline.5.0.dylib
```

```
>
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>
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> -- IDL include: /Applications/itt/idl/idl80/external/include
> -- Found GNU Readline: /sw/lib/libreadline.5.0.dylib
> -- Configuring done
> -- Generating done
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>
>
> So far so good. Then I run:
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> /Users/cgguido/trunk/src/ridl.c:393: warning: initialization makes pointer from integer without a
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> /Users/cgguido/trunk/src/ridl.c:835: error: for each function it appears in.)
> gnumake[2]: *** [src/CMakeFiles/ridl.dir/ridl.c.o] Error 1
> gnumake[1]: *** [src/CMakeFiles/ridl.dir/all] Error 2
> gnumake: *** [all] Error 2
```

Yes, your Readline version is too old. I'm still researching which version you really need; 6.1 will work, probably 6.0 also.

I'm trying to figure out a way to test the Readline version when configuring so that you will get a more reasonable error message.

By the way, do "svn up" regularly because I've been making a lot of updates as people give feedback on their particular systems.

Also, you shouldn't have to do a "sudo" until you do your "make install".

Mike

--

Michael Galloy

www.michaelgalloy.com

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

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Subject: Re: rIDL command line replacement
Posted by [cgguido](#) on Thu, 26 May 2011 16:14:45 GMT
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#0 Thanks for your help and for leading me too #1 below :-)

#1 Homebrew is awesome:

Have installed readline 6.2.1 and pointed cmake to it. All seems fine there now.

#2 Next issue: gnumake quits because it doesn't like my IDL installation?

Linking C executable ridl

ld: warning in /Applications/itt/idl/idl80/bin/bin.darwin.x86_64/libXm.dylib, file is not of required architecture

ld: warning in /Applications/itt/idl/idl80/bin/bin.darwin.x86_64/libMesaGL6_2.dylib, file is not of required architecture

ld: warning in /Applications/itt/idl/idl80/bin/bin.darwin.x86_64/libMesaGLU_6_2.dylib, file is not of required architecture

ld: warning in /Applications/itt/idl/idl80/bin/bin.darwin.x86_64/libOSMesa6_2.dylib, file is not of required architecture

ld: warning in /Applications/itt/idl/idl80/bin/bin.darwin.x86_64/libidl.dylib, file is not of required architecture

Undefined symbols:

"_IDL_ToutPush", referenced from:

 _ridl_initnotebook in ridl_logging.c.o

 _ridl_initlog in ridl_logging.c.o

"_IDL_Initialize", referenced from:

 _main in ridl.c.o

"_IDL_Cleanup", referenced from:

 _ridl_exit in ridl.c.o

 _ridl_executeline in ridl.c.o

 _main in ridl.c.o

 _main in ridl.c.o

"_IDL_UicbRegExitDone", referenced from:

 _main in ridl.c.o

"_IDL_RuntimeExec", referenced from:

 _main in ridl.c.o

"_IDL_UicbRegShowCompileErr", referenced from:

 _main in ridl.c.o

"_IDL_DebugGetStackDepth", referenced from:

 _ridl_printsource in ridl.c.o

"_IDL_UicbRegWorkingDirChange", referenced from:

 _main in ridl.c.o

"_IDL_UicbRegPromptChange", referenced from:

 _main in ridl.c.o

"_IDL_MessageDefineBlock", referenced from:

 _main in ridl.c.o

"_IDL_UicbRegRlineFromKbrd", referenced from:


```
_ridl_setpreference in ridl_preferences.c.o
_ridl_setpreference in ridl_preferences.c.o
_ridl_setpreference in ridl_preferences.c.o
_ridl_setpreference in ridl_preferences.c.o
```

ld: symbol(s) not found

collect2: ld returned 1 exit status

gnumake[2]: *** [src/ridl] Error 1

gnumake[1]: *** [src/CMakeFiles/ridl.dir/all] Error 2

gnumake: *** [all] Error 2

Subject: Re: rIDL command line replacement

Posted by [Michael Galloy](#) on Thu, 26 May 2011 16:49:07 GMT

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On 5/26/11 10:14 AM, Gianguido Cianci wrote:

> #0 Thanks for your help and for leading me too #1 below :-)

>

> #1 Homebrew is awesome:

>

> Have installed readline 6.2.1 and pointed cmake to it. All seems fine there now.

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> ld: warning in /Applications/itt/idl/idl80/bin/bin.darwin.x86_64/libMesaGLU_6_2.dylib, file is not of required architecture

> ld: warning in /Applications/itt/idl/idl80/bin/bin.darwin.x86_64/libOSMesa6_2.dylib, file is not of required architecture

> ld: warning in /Applications/itt/idl/idl80/bin/bin.darwin.x86_64/libidl.dylib, file is not of required architecture

> Undefined symbols:

> "_IDL_ToutPush", referenced from:

> _ridl_initnotebook in ridl_logging.c.o

> _ridl_initlog in ridl_logging.c.o

> "_IDL_Initialize", referenced from:

> _main in ridl.c.o

> "_IDL_Cleanup", referenced from:

> _ridl_exit in ridl.c.o

> _ridl_executeline in ridl.c.o

> _main in ridl.c.o

> _main in ridl.c.o

> "_IDL_UicbRegExitDone", referenced from:

> _main in ridl.c.o

```

> "_IDL_RuntimeExec", referenced from:
>   _main in ridl.c.o
> "_IDL_UicbRegShowCompileErr", referenced from:
>   _main in ridl.c.o
> "_IDL_DebugGetStackDepth", referenced from:
>   _ridl_printsource in ridl.c.o
> "_IDL_UicbRegWorkingDirChange", referenced from:
>   _main in ridl.c.o
> "_IDL_UicbRegPromptChange", referenced from:
>   _main in ridl.c.o
> "_IDL_MessageDefineBlock", referenced from:
>   _main in ridl.c.o
> "_IDL_UicbRegRlineFromKbrd", referenced from:
>   _main in ridl.c.o
> "_IDL_FindNamedVariable", referenced from:
>   _ridl_get_structurefields_list in ridl_completion.c.o
>   _ridl_get_localvariables_list in ridl_completion.c.o
> "_IDL_UicbRegLnitTextDone", referenced from:
>   _main in ridl.c.o
> "_IDL_UicbRegDeathHint", referenced from:
>   _main in ridl.c.o
> "_IDL_GetUserInfo", referenced from:
>   _main in ridl.c.o
>   _ridl_initialize_history in ridl_history.c.o
> "_IDL_SysvVersion", referenced from:
>   _IDL_SysvVersion$non_lazy_ptr in ridl.c.o
>   _IDL_SysvVersion$non_lazy_ptr in ridl_logging.c.o
> "_IDL_ToutPop", referenced from:
>   _ridl_executeline in ridl.c.o
>   _ridl_executeline in ridl.c.o
>   _ridl_executeline in ridl.c.o
> "_IDL_ExitRegister", referenced from:
>   _main in ridl.c.o
> "_IDL_ExecuteStr", referenced from:
>   _ridl_printsource in ridl.c.o
>   _ridl_executestr in ridl.c.o
>   _ridl_launcheditor in ridl.c.o
>   _ridl_getevents in ridl.c.o
>   _ridl_executeline in ridl.c.o
>   _main in ridl.c.o
>   _main in ridl.c.o
>   _main in ridl.c.o
>   _ridl_get_structurefields_list in ridl_completion.c.o
>   _ridl_remove_structurefields_list in ridl_completion.c.o
>   _ridl_get_localvariables_list in ridl_completion.c.o
>   _ridl_remove_localvariables_list in ridl_completion.c.o
>   _ridl_notebookgraphic in ridl_logging.c.o
>   _ridl_magic_help in ridl_magic.c.o

```

```
> _ridl_setpreference in ridl_preferences.c.o
> ld: symbol(s) not found
> collect2: ld returned 1 exit status
> gnumake[2]: *** [src/ridl] Error 1
> gnumake[1]: *** [src/CMakeFiles/ridl.dir/all] Error 2
> gnumake: *** [all] Error 2
>
```

I will follow up on this one via email.

Mike

--

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