
Subject: Re: Using zlib and IDL 6.1 in a DLM
Posted by [Craig Markwardt](#) on Wed, 21 Dec 2005 19:51:23 GMT
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Maurizio Tomasi <tomasi@lambrate.inaf.it> writes:

>
> My question is: how can I tell my DLM to use my zlib library instead
> of the one provided by IDL?

Static link instead of dynamic?

Good luck!
Craig

--

Craig B. Markwardt, Ph.D. EMAIL: craigmnet@REMOVEcow.physics.wisc.edu
Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response

Subject: Re: Using zlib and IDL 6.1 in a DLM
Posted by [Maurizio Tomasi](#) on Thu, 22 Dec 2005 08:59:22 GMT
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Craig Markwardt wrote:

> Maurizio Tomasi <tomasi@lambrate.inaf.it> writes:
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> Static link instead of dynamic?
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> Craig

I tried this also (that is, adding "-static -lz" to the end of the line
invoking the compiler), but the result is still the same:

\$ gcc -c -I/opt/idl/idl/external/include test.c -fPIC -DPIC -o test.o
\$ gcc -o test.so -shared test.o -L/opt/idl/idl/bin/bin.linux.x86/ -lidl
-static -lz
\$ idl

IDL Version 6.1 (linux x86 m32). (c) 2004, Research Systems, Inc.
Trial version expires on 31-dec-2005.
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All other use is strictly prohibited.

```
IDL> linkimage, 'PRINT_ZLIB_VERSION', 'test.so'
IDL> print_zlib_version
1.1.4
-----
```

I ever tried to manually include every source file of the zlib into the source code of my app and then linking together all the object files, but (that *is* incredible) nothing changes!

It begins to be a bit frustrating...

Maurizio.

Subject: Re: Using zlib and IDL 6.1 in a DLM
Posted by [Karl\[1\]](#) on Fri, 23 Dec 2005 18:17:50 GMT
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Maurizio Tomasi wrote:

```
> Craig Markwardt wrote:
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> Maurizio.

IDL is overriding the definitions in the shared library. This is normal linux linker/loader behavior. To stop this from happening, use -Bsymbolic.

I also found that I had to link the non-shared libz.

So, the linker command that worked for me is:

```
gcc -shared -o test.so test.o /usr/lib/libz.a -Wl,-Bsymbolic  
-L/tmp/idl/bin/bin.linux.x86 -lidl
```
