
Subject: Using zlib and IDL 6.1 in a DLM

Posted by [Maurizio Tomasi](#) on Wed, 21 Dec 2005 18:13:35 GMT

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Hello to everybody,

I am writing a huge IDL 6.1 program under OpenSUSE Linux 10.0 which should call some C functions defined using a Dynamic Linked Module. Those function are already written and use the GTK+ library. They work fine, however PNG icons are not displayed and instead a "Fatal error in PNG image file: zlib version error" message is printed (the dialog box however opens and show a "X" where the image should have been placed).

After some thoughts, I found the problem lies in the fact that the IDL libraries to be linked with my shared library already provide zlib functions, but they are from zlib 1.1.4 (while my GTK+ libraries use 1.2.3).

The following test program shows what happens:

```
-----  
#include <stdio.h>  
#include <zlib.h>  
  
int  
main (void)  
{  
    puts (zlibVersion ());  
  
    return 0;  
}  
-----
```

If I compile and run it, I get the following:

```
$ gcc -o test2 test2.c -lz  
1.2.3  
$
```

Now I modify it so that becomes a shared library:

```
-----  
#include <stdio.h>  
#include <zlib.h>  
#include "idl_export.h"  
  
IDL_VPTR  
print_zlib_version (void)  
{
```

```
puts (zlibVersion ());  
  
return NULL;  
}
```

When I compile the shared library, I get the following:

```
-----  
$ 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  
$ idl  
IDL Version 6.1 (linux x86 m32). (c) 2004, Research Systems, Inc.  
Trial version expires on 31-dec-2005.  
Licensed for personal use by INAF-Catania only.  
All other use is strictly prohibited.  
IDL> linkimage, 'PRINT_ZLIB_VERSION', 'test.so'  
IDL> print_zlib_version  
1.1.4  
-----
```

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

Thank you very much,
Maurizio.
