
Subject: Re: Callable IDL on Fedora 1

Posted by [Michael Wallace](#) on Mon, 05 Apr 2004 19:44:33 GMT

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A quick follow-up. If I add the -shared flag to my compilation statement, I do not see the original error. However, there is still a big problem because running ./calltest gives me a segfault. I have LD_LIBRARY_PATH pointing to where it should, /usr/local/rsi/idl/bin/bin.linux.x86.

Ideas?

-Mike

Subject: Re: Callable IDL on Fedora 1

Posted by [Nigel Wade](#) on Tue, 06 Apr 2004 09:28:17 GMT

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Michael Wallace wrote:

> A quick follow-up. If I add the -shared flag to my compilation
> statement, I do not see the original error. However, there is still a
> big problem because running ./calltest gives me a segfault. I have
> LD_LIBRARY_PATH pointing to where it should,
> /usr/local/rsi/idl/bin/bin.linux.x86.
>
> Ideas?
>
> -Mike

I don't know if this is the problem, but FC1 uses the gcc 3.3 compiler. The chances are, that if it works on RH9 but fails on FC1, that it's due to the use of the 3.3 rather than the 3.2 compiler.

It might be worth installing the gcc32 package and trying again using gcc32 in place of gcc as the compiler.

--

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Subject: Re: Callable IDL on Fedora 1

Posted by [Michael Wallace](#) on Tue, 06 Apr 2004 18:38:01 GMT

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- > The chances are, that if it works on RH9 but fails on FC1, that it's due
- > to the use of the 3.3 rather than the 3.2 compiler.
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- > It might be worth installing the gcc32 package and trying again using
- > gcc32 in place of gcc as the compiler.

I tried using gcc32, however I see the very same compilation error I had before, except this time the error references gcc 3.2.3 instead of gcc 3.3.2. It would be nice if RSI would at least provide some documentation that tells which versions of gcc, libc, etc they used to compile.

```
/usr/bin/ld: calltest: hidden symbol `__fixunssfdi' in
/usr/lib/gcc-lib/i386-redhat-linux/3.2.3/libgcc.a(_fixunssfdi.o) is
referenced by DSO
collect2: ld returned 1 exit status
make: *** [calltest] Error 1
```

I also tried using gcc296 but that brought up other errors relating to libXm.a which is part of the openmotif library. I then downgraded the openmotif and openmotif-devel packages and use the RSI provided RPMs instead. I tried compiling with the RSI openmotif RPMs, but no matter what I used (gcc296, gcc32, gcc) nothing got me any farther along in the compile. The classic __fixunssdi error was still present. *Sigh*

-Mike

Subject: Re: Callable IDL on Fedora 1
Posted by [Michael Wallace](#) on Tue, 06 Apr 2004 20:52:16 GMT
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Problem solved! RSI tech support pointed me to a variation of the compile I hadn't tried yet and I can now compile calltest.

Here's a section of the RSI provided Makefile for calltest that defines all of the linker flags.

```
LDLFLAGS= -L$(BINDIR) -ldl -Wl,-rpath,. -Wl,-rpath $(BINDIR)\
/usr/X11R6/lib/libXm.a \
-IXp -L/usr/X11R6/lib -IXpm -IXext -IXt -ISM -IICE -IX11 -ldl \
-ltermcap -lrt -lm -lpthread
```

I changed the reference to libXm.a to refer to the libXm.so shared object instead. Replacing /usr/X11R6/lib/libXm.a with -lXm was the first trick. At this point I still couldn't compile with gcc 3.x. The second trick was to use the gcc 2.96 compiler instead of gcc 3.x. Using

gcc296 and -IXm finally got me a clean compile and an executable that wouldn't segfault.

w00t

-Mike
