
Subject: Calling IDL from C
Posted by [bujji](#) on Fri, 07 Oct 2005 12:40:59 GMT
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Dear All,

I am trying to call the some IDL routines from C, but any how i do not get sucess.

I am using red hat Linux 9.0 , and my IDL version is 6.1. I am trying to run the example calltest.c program that is given in IDL_6.1/external/callable/calltest.c.

Can any body tell me the exact steps for runing this program on RedHat Linux.

With Regards
Prahlaad Sarma.

Subject: Re: Calling IDL from C
Posted by [James Kuyper](#) on Mon, 10 Oct 2005 11:38:25 GMT
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bujji wrote:

> Haje,
> The error i faced when i compile the C code is as follows
>
> -lxp

That's a very uninformative error message. I strongly suspect that you're misinterpreting something, and that the actual error message is a lot longer than the one you've shown. Please provide the following:

a) The actual text of the code that you can't compile. It would help a lot if you simplify the code as much as it can be simplified, while still producing the error message. Repeatedly cut out parts of the code, and re-compile it, to verify that it still produces the error message. This is primarily for our benefit, but you might also find that it helps you figure out for yourself where the actual problem is.

b) Attempt to compile the code, and show us all of the text associated with that compilation attempt. If you're using a command line interface, issue the command that attempts to compile the code, and show us all of the text from that command line to the bottom of your screen.

Subject: Re: Calling IDL from C

Posted by [bujji](#) on Tue, 11 Oct 2005 05:41:07 GMT

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```
[sukesh@isdlinux call_exeternal]$ gcc -o idl.new $BINDIR/main.o
$LD_FLAGS
```

```
/usr/local/rsi/idl_6.1/bin/bin.linux.x86/main.o(.text+0x31a) : In
```

```
function `main':
```

```
: undefined reference to `IDL_Runtime'
```

```
/usr/local/rsi/idl_6.1/bin/bin.linux.x86/main.o(.text+0x33d) : In
```

```
function `main':
```

```
Hai,
```

```
These are the errors i got when i worked with calltest.c program in
RSI/IDL/external/callable/
```

```
: undefined reference to `IDL_DEclient'
```

```
/usr/local/rsi/idl_6.1/bin/bin.linux.x86/main.o(.text+0x357) : In
```

```
function `main':
```

```
: undefined reference to `IDL_Main'
```

```
/usr/local/rsi/idl_6.1/bin/bin.linux.x86/main.o(.text+0x379) : In
```

```
function `main':
```

```
: undefined reference to `IDL_Main'
```

```
collect2: ld returned 1 exit status
```

Regads,

Prahlad V

Subject: Re: Calling IDL from C

Posted by [Haje Korth](#) on Thu, 13 Oct 2005 05:31:13 GMT

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libidl.so is not in your path. this library contains the references you are missing.

"bujji" <prahlad.sarma@gmail.com> wrote in message

news:1129009267.625551.179380@f14g2000cwb.googlegroups.com.. .

```
> [sukesh@isdlinux call_exeternal]$ gcc -o idl.new $BINDIR/main.o
```

```
> $LD_FLAGS
```

```
> /usr/local/rsi/idl_6.1/bin/bin.linux.x86/main.o(.text+0x31a) : In
```

```
> function `main':
```

```
> : undefined reference to `IDL_Runtime'
```

```
> /usr/local/rsi/idl_6.1/bin/bin.linux.x86/main.o(.text+0x33d) : In
```

```
> function `main':
```

```
> Hai,
```

```
> These are the errors i got when i worked with calltest.c program in
```

```
> RSI/IDL/external/callable/
```

```
>
>
> : undefined reference to `IDL_DEclient'
> /usr/local/rsi/idl_6.1/bin/bin.linux.x86/main.o(.text+0x357) : In
> function `main':
> : undefined reference to `IDL_Main'
> /usr/local/rsi/idl_6.1/bin/bin.linux.x86/main.o(.text+0x379) : In
> function `main':
> : undefined reference to `IDL_Main'
> collect2: ld returned 1 exit status
>
> Regards,
> Prahlad V
>
```

Subject: Re: Calling IDL from C
Posted by [James Kuyper](#) on Fri, 14 Oct 2005 14:47:45 GMT
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raval.chintan@gmail.com wrote:

```
...
> make IDLDIR=$IDL_DIR calltest
> gcc -I/usr/local/rsi/idl_6.2/external/include -o calltest
> /usr/local/rsi/idl_6.2/external/callable/calltest.c
> -L/usr/local/rsi/idl_6.2/bin/bin.linux.x86 -ldl -Wl,-rpath,.
> -Wl,-rpath
> /usr/local/rsi/idl_6.2/bin/bin.linux.x86 /usr/X11R6/lib/libXm.so.3 -IXp
> -L/usr/X11R6/lib -IXpm -IExt -IXt -ISM -IICE -IX11 -ldl -ltermcap -lrt
> -lm -lpthread
>
> The error issued is :
>
> /usr/bin/ld: cannot find -IXp
```

The "-IXp" option makes the linker look for a file named libXp.a or libXp.so in the current list of library search directories. The "-L/usr/X11R6/lib" option adds the /usr/X11R6/lib directory to the current list of library search directories. Where is libXp.* on your system? On my system libXp.so.6 and libXp.so.6.2 are in /usr/X11R6/lib. If it's the same on your system, then you have to put the "-IXp" option after the "-L/usr/X11R6/lib" option. Otherwise the linker isn't looking for it in the right location.

Subject: Re: Calling IDL from C
Posted by [Michael Galloy](#) on Tue, 17 Nov 2009 23:09:59 GMT

Alexander Jesser wrote:

- > Hello,
- > I am not an expert in IDL, but may be somebody can give me answers to
- > my questions. Is it possible to generate a DLL (dynamic link library)
- > from the IDL code? Further, is it possible to call IDL within C code?
- > If yes, how can I do this?

I'm not sure what you mean by "from the IDL code". If you mean can IDL pro code be compiled into a DLL, the answer is no. But, the MAKE_DLL routine will compile C code into a DLL.

It is possible to call IDL from within C code. The interface is called Callable IDL. It is in the "All topics" tab of the online help under IDL Programmers' Guides > External Development Guide > Part III: Techniques that use IDL's Internal API > Callable IDL.

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