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Subject: Re: Using C++ DLM's With IDL?

Posted by [Nigel Wade](#) on Thu, 02 Aug 2001 15:39:25 GMT

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Craig Markwardt wrote:

> Nigel Wade <nmw@ion.le.ac.uk> writes:

>

>>> Yes, I am using g++ on Linux. Do you know off hand how to link

>>> with a shared object library? (libstdc++... is a shared object).

>>>

>>> Thanks.

>>>

>>> K. Banerjee

>>>

>>>

>> -l<library\_name>, in this case <library\_name> is stdc++<whatever>. I

>> don't know which stdc++ library you'll need; I have 5 in my /usr/lib and

>> I haven't a clue what each is for.

>>

>> a shared object is just a library as far as the linker is concerned.

>>

>> If you use g++ I would have thought that g++ would add the correct

>> library to the link command for you, though. Is there a reason you

>> prefer to use ld rather than g++?

>>

>>

>

> Hi Nigel and K.--

>

> I suspect that the C++ runtime system must be initialized before you

> can run a C++ module. I am not sure how this is done, and probably it

> is rather system dependent. The problem is that IDL is not a C++

> program, so this C++ initialization never occurs. I am not sure

> whether it is or is not possible to do this at dynamic load time. Or

> if, such initialization happens automatically with dynamic loading.

>

> An acceptable alternative may be to have your C++ module be a separate

> program, and communicate with IDL using pipes (ie, SPAWN, ...,

> UNIT=unit).

>

> Good luck,

> Craig

>

>

I'm not exactly sure what a "C++ runtime system" might consist of...

Anyway, I've managed to create a simple DLM from C++ source and run it in IDL 5.3. The core code is in C++ (I borrowed it from an example mex file for MATLAB), the DLM interface code is in C. The C++ was compiled with g++, the C code with gcc. Both were linked into a DSO with g++.

Pretty straight forward, and it works just like it does for C and FORTRAN.

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