Subject: Re: ABOUT DLL WITH VC++ IN IDL. HELP! Posted by rivers on Thu, 07 May 1998 07:00:00 GMT

View Forum Message <> Reply to Message

In article <35502831.1546E712@teb.upm.es>, Julio Gustavo Perez Fernandez <gustavo@teb.upm.es> writes:

- > Hi!, my name is Gustavo. I am working in the Group of Telemedicine
- > and Bioengineering at the Polytechnical University of Madrid, I am
- > interested in building DLLs with VC++, to use them in IDL ver 5.0.If
- > somebody could provide me with some information about how to do it.
- > We are using CALL\_EXTERNAL function but we have some troubles.
- > Some questions:
- > Do we have to use "\_\_declspec(dllexport)" or ".def" ?
- > What are the link options that we have to use?
- > We would like to know if it is possible to link VC++ .LIB with a
- > programm in IDL.

There is an example provided in the idl50\external\sharelib directory. It includes an example makefile and .def file. I have been using CALL\_EXTERNAL under Windows NT 4.0 with no problem. Note that in IDL 5.1 RSI changed the way strings are passed to CALL\_EXTERNAL under Windows. The good news is that they made it compatible with the way it works on Unix. The bad news is that you need 2 different DLLs if you want to support both IDL 5.1 and previous versions of IDL.

\_\_\_\_\_\_

Mark Rivers (773) 702-2279 (office)
CARS (773) 702-9951 (secretary)
Univ. of Chicago (773) 702-5454 (FAX)
5640 S. Ellis Ave. (708) 922-0499 (home)

Chicago, IL 60637 rivers@cars.uchicago.edu (e-mail)

or:

Argonne National Laboratory (630) 252-0422 (office)

Building 434A (630) 252-0405 (lab)

9700 South Cass Avenue (630) 252-1713 (beamline)

Argonne, IL 60439 (630) 252-0443 (FAX)

Subject: Re: ABOUT DLL WITH VC++ IN IDL. HELP! Posted by medimage on Fri, 08 May 1998 07:00:00 GMT View Forum Message <> Reply to Message

In article <EsKE7u.2wz@midway.uchicago.edu>, rivers@cars3.uchicago.edu wrote:
I have VC++5.0, I used it to create .dll files, but every time I ran idl call\_external, it crashes. It seems IDL only call direct C instead of C++.

## Any help, please!!!!

>

- > There is an example provided in the idl50\external\sharelib directory.
- > It includes an example makefile and .def file. I have been using CALL EXTERNAL
- > under Windows NT 4.0 with no problem. Note that in IDL 5.1 RSI changed the way
- > strings are passed to CALL\_EXTERNAL under Windows. The good news is that they
- > made it compatible with the way it works on Unix. The bad news is that you
- > need 2 different DLLs if you want to support both IDL 5.1 and previous versions
- > of IDL.

>

>

> Mark Rivers (773) 702-2279 (office)
> CARS (773) 702-9951 (secretary)
> Univ. of Chicago (773) 702-5454 (FAX)

> 5640 S. Ellis Ave. (708) 922-0499 (home)

> Chicago, IL 60637 rivers@cars.uchicago.edu (e-mail)

> > or:

> Argonne National Laboratory

(630) 252-0422 (office)

> Building 434A

(630) 252-0405 (lab)

> 9700 South Cass Avenue

(630) 252-1713 (beamline)

> Argonne, IL 60439

(630) 252-0443 (FAX)

> >

----= Posted via Deja News, The Leader in Internet Discussion ==-----http://www.dejanews.com/ Now offering spam-free web-based newsreading

Subject: Re: ABOUT DLL WITH VC++ IN IDL. HELP! Posted by rivers on Sat, 09 May 1998 07:00:00 GMT View Forum Message <> Reply to Message

Hi,

- > I have VC++5.0, I used it to create .dll files, but every time I ran
- > idl call\_external, it crashes. It seems IDL only call direct C instead of
- > C++.

I am not sure what you mean by this. You can definitely use the VC++5.0 compiler, but the code which IDL calls directly must be C, not C++. However,

you can just write a thin wrapper layer in C (which you normally need to write anyway because of the way IDL passes parameters), and your C wrapper can call C++ functions. I have done this successfully.

I will repeat the recommendation in my last post, try to build the example in the IDL external directory.

I just did this under IDL 5.0, Windows NT 4.0, VC++ 5.0

I simply typed the following commands:

# This command puts the VC++ programs in your path

c:"\program files\devstudio\vc\bin\vcvars32.bat"

c: # Go to c:

cd rsi\idl50\external\sharelib # Go to IDL example directory

del dlltst32.dll # Delete the RSI provided dll

copy makefile.win makefile # Copy the example makefile nmake # Run make to compile and link

Now run the dll in IDL IDL> cd, 'external\sharelib' IDL> dlltst32

This worked fine for me.

·-----

Mark Rivers (773) 702-2279 (office)
CARS (773) 702-9951 (secretary)
Univ. of Chicago (773) 702-5454 (FAX)
5640 S. Ellis Ave. (708) 922-0499 (home)

Chicago, IL 60637 rivers@cars.uchicago.edu (e-mail)

or:

Argonne National Laboratory (630) 252-0422 (office)

Building 434A (630) 252-0405 (lab)

9700 South Cass Avenue (630) 252-1713 (beamline)

Argonne, IL 60439 (630) 252-0443 (FAX)