Subject: Re: Connecting GPC to IDL

Posted by KRDean on Fri, 17 Jun 2011 14:15:21 GMT

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On Jun 17, 6:46 am, Haje Korth <a href="mailto:kajeko...@gmail.com">hajeko...@gmail.com</a> wrote:
> Were you able to successfully compile any of the small example
> programs in the IDL external directory?
>
  On Jun 16, 5:21 pm, kBob < krd...@gmail.com > wrote:
>
>
>
>> On Jun 14, 3:44 pm, kBob < krd...@gmail.com> wrote:
>
>>> On Jun 11, 10:07 am, Michael Galloy <mgal...@gmail.com> wrote:
>>> kBob <krd...@gmail.com> wrote:
>>> > On Jun 10, 7:52 am, Haje Korth <a href="mailto:relation">+ Agieko...@gmail.com</a> wrote:
>>> >> Kelly: I have always found using gcc with IDL on Windows to be a
>>> >> difficult endeavor. Also, the use of make_dll is optional and in the
>>> >> past has made life more difficult rather than easier. I suggest
>>> >> grabbing the free edition of Visual Studio Express and creating the
>>> >> dll this way. Just remember to export the functions you will be
>>> >> accessing from IDL. This is definitely an advanced topic, so start
>>> >> with the simple examples in the external directory of the IDL distro.
>>>> >> Haie
>>> > On Jun 9, 10:35 am, kBob < krd...@gmail.com> wrote:
>
>>> >> On Jun 6, 2:11 pm, kBob < krd...@gmail.com> wrote:
>>>> I would like to use the General Polygon Clipper (GPC) thur IDL.
>>>> This is a software package written in C that is available from
>>> >>> Manchester that clips polygons.
>>>> Has anyone implement this in IDL, already?
>
>>>> I assume MAKE_DLL is the way to go.
>>>> Kelly Dean
>>>> >>> Milliken, CO
>>> >>> I am still looking into this, as time allows.
>
>>> >> I ahve reviewed some different ways to implement this, I have
>>>> >>> determine that the following routines can be used :
>
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>>>> >>> LINKIMAGE
>>>> >>> SPAWN
>>>> >>> MAKE_DLL
>>>> >>> CALL EXTERNAL
>>> >>> CALL_EXTERNAL/MAKE_DLL
>>> >> There is a nice example to use CALL_EXTERNAL/MAKE_DLL, but MAKE_DLL is
>>>> giving me problems as I am trying to use the gcc compiler. There is a
>>> >>> ITTVIS Tech Tip that helps, but another problem appears while dealing
>>> >>> with the IDL example.
>>> >>> There is a GCP DLL provided thru the MatLab Contrib site. I am playing
>>> >>> around with this in CALL_EXTERNAL, bypassing the MAKE DLL.
>>> Sorry, that this is turning into a blog, but I find it helps to scatch
>>> >>> some notes down once in awhile for future reference.
>>>> Selly Dean
>>> >>> Milliken, CO- Hide quoted text -
>>> >> Show quoted text -
>>> > Yes, apparently the ITTVIS example assumes you have Microsoft Visual
>>>> > installed.
>>>> Well, I spent most of the day installing Microsoft Visual C++ 10.0 and
>>>> > regist for the free version.
>>>> > So far, here are the problems I am having:
>>>> > cl.exe : Solution ?
>>>> > mspdb100.dll pop-up : Solution ?
>>>> > stdio.h 'no such file': Solution?
>>>> > I am sure the problems are related to path, as all these file are
>>>> > within the new install of MS Visual Studio 10.0.
>>>> > Kelly
>>> Make sure to launch IDL from the special command line provided by VS (or
>>> set your path and possibly other environment variables accordingly).
>>>> Mike
>>> --www.michaelgalloy.com
>>>> Research Mathematician
>>>> Tech-X Corporation- Hide quoted text -
>>> - Show quoted text -
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>>> Becoming a little wiser.
>>> Visual Studio Command Prompt is looking for "vcvarsall.bat"
>>> I did install MinGW. From the MinGW shell prompt I was able to make a
>>> DLL -
     gcc -Wall -shared gpc.c -o gpc.dll
>>> However, this is a 32-bit DLL. The IDL 64-bit version using
>>> CALL EXTERNAL doesn't like the DLL.
>>> Although, the IDL 32-bit version does like the DLL, but IDL promptly
>>> crashes.
>>> Progress!
>>> Kelly- Hide quoted text -
>>> - Show quoted text -
>> Still working on it, but starting to lose steam.
>> Tried to use gcc from CYGWIN to compile C source code. Failed. Reports
>> from
>> from tech support and other IDL users, avoid doing this.
>> Installed Visual C++ (express) as recommended by tech support and
>> other IDL
>> users. Used the Visual Command Prompt, but still unable to make a 32-
>> bit
>> DLL without getting some kind of warning or error.
>> Installed MinGW as suggested by tech support and other IDL users. From
>> experience, they have more success with compiling 3rd party packages
>> with this
>> package. I was able to creating a 32-bit DLL with ggc in the MinGW
>> shell. Used
>> -shared option to gcc to create a DLL. For example :
     gcc -Wall -shared gpc.c -o gpc.dll
>>
>> Despite the success of creating a DLL, the 32-bit IDL 6.4 crashes when
>> CALL_EXTERNAL
>> is used to access this sharable library. For sure, I didn't use the
>> compiler properly
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>> to create a sharable DLL.
> Found a sharable DLL for the General Polygon Clipper at Mathworks
>> (circa 2005). Needs
>> a MatLab library to work. I didn't purse this much further, as I no
>> long have MatLab
>> on my desktop.
>
> New Life! Michael Galloy announced his book is available - Modern IDL.
>> There is a whole
>> chapter about this External Development. So, there is lots of new
>> ideas to try. Even
> a Python example. GPC has a Python wrapper.
>
Kelly- Hide quoted text -

Nope!

> - Show quoted text -

I have been working with the ITTVIS example routine SIMPLE_VARS.pro

Common errors are undefine reference, unrecognize commands (CL), missing libraries (mspdb100.dll), and cannot find <stdio.h>.

Kelly