
Subject: Re: idl program for calling c program
Posted by [rogass](#) on Thu, 11 Mar 2010 22:28:03 GMT
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On 7 Mrz., 16:54, ngg2424 <ngg2...@gmail.com> wrote:

> hi.....
> im new to idl but im supposed to do project based on image
> processing.Hence this question--
> my project is a simple security monitoring system which controls a
> door by authenticating a persons image.
> my problem is that i have to send a signal from the pc to the
> microcontroller through uart(for it to recognise and open the
> door).the signal can be generated by the c program it seems...i
> require the codings for this....pls help.....

Hi,
on Windows it may be like this:

```
pro
  cr_test_c_capabilities,routinename=routinename,sampleparamete
r=sampleparameter,routinepath=routinepath

routinename = keyword_set(routinename)?
routinename : 'my_greatest_c_programm_ever'
sampleparameter = keyword_set(sampleparameter) ? sampleparameter : 10.
routinepath = keyword_set(routinepath)? routinepath : 'c:\'

PRINT, 'Compiler: ',!MAKE_DLL.COMPILER_NAME
;correct make_dll settings
!make_dll.cc = 'cl %X -D_DLL -DMSWIN -DWIN32 -D_MT /nologo /I"C:
\Program Files\ITT\IDL64\external\include" /c %C /Fo%O'

if !version.os_family eq 'Windows' then begin
filename = routinename+'.c'

;creating source code within IDL
GET_LUN, u
OPENW, u, routinepath+filename
printf,u,'#include <stdio.h>'
printf,u,'#include <stdlib.h>'
printf,u,'int main(int argc, char* argv[])'
printf,u,'{return 5+atoi(argv[1]);}'
free_lun,u

;set environment variables in both windows and idl
SETENV, 'INCLUDE=C:\Program Files (x86)\Microsoft Visual Studio 9.0\VC
\Include;%INCLUDE%'
SETENV, 'LIB=C:\Program Files (x86)\Microsoft Visual Studio 9.0\VC\lib;
```

```

%LIB%'
SETENV, 'PATH=C:\Program Files (x86)\Microsoft Visual Studio 9.0\VC
\bin;%PATH%'
spawn, 'Set PATH=C:\Program Files (x86)\Microsoft Visual Studio 9.0\VC
\bin;%PATH%'
spawn, 'Set INCLUDE=C:\Program Files (x86)\Microsoft Visual Studio
9.0\VC\Include;%INCLUDE%'
spawn, 'Set LIB=C:\Program Files (x86)\Microsoft Visual Studio 9.0\VC
\lib;%LIB%'

;compile .c and make binary and dll
spawn, '%systemroot%\system32\cmd.exe /c C:\Progra~2\MICROS~1.0\VC\bin
\cl.exe /LD /Gd -nologo '+routinepath+filename
spawn, '%systemroot%\system32\cmd.exe /c C:\Progra~2\MICROS~1.0\VC\bin
\cl.exe '+routinepath+filename
make_dll,routinename,routinename, input_directory=routinepath,/
nocleanup

;execute script
spawn, routinename+'
'+strcompress(sampleparameter),result,exit_status=a
endif else begin

endelse
print,'Result: ',a
end

```

As you can see, 'my' cl comes from VisualC.

Hope it helps somehow.

Cheers

CR
