
Subject: make_dll and call_external....

Posted by [fabrice.monti](#) on Thu, 24 Feb 2005 12:49:59 GMT

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in a recent post, i tried to remote a CCD by "mil.h" library and a call_external procedure.... Rick and Mark tried to help me, but i haven't a good background to do this... Today I read "the external development guide" and a tutorial about this subject... and i always have a probleme....

step by step, i wrote a C code. and i would like to call with IDL.
this code is binarize a image... it very simple for the moment, i will see the next later...

my C code is : (name is binarize_call.c)

```
# include <stdio.h>
# include "export.h"
```

```
uchar binarize (int argc, char *argv)
{
  UCHAR *data,*data_tmp,t,new_t;
  IDL_LONG64 s0,s1;
  IDL_LONG n,i,n0,n1;

  data=(uchar *) argv[0];
  n=(IDL_long *) argv[1];

  s0=0;data_tmp=data;
  for (i=n;i--;) s0+=(*data_tmp++);
  new_t=s0/n;
  do {
    t=new_t;
    n0=n1=0;s0=s1=0;
    for(i=n,data_tmp=data;i--;data_tmp++)
      if ((*data_tmp) < t) {n0++;s0+=(*data_tmp);}
      else {n1++;s1+=(*data_tmp);}
    new_t=(n1*s0+n0*s1)/(2*n0*n1);
  } while (t != new_t);

  for(data_tmp=data,i=n;i--;data_tmp++)
    *data_tmp = *data_tmp > t;
  return t;
}
```

my IDL code is:

```
pro test_call
make_dll, "binarize_call", "binarize", compile_directory= ".",
```

```

dll_path=dll
image= read_image(filepath("mr_abdomen.dcm",
subdirectory=["examples","data"]))
window, 0, xs=512, ys=256
tv, image,0
res= call_external (dll, "binarize", image, n_elements(image),
/b_value,/unload, /cdecl)
help, result
tvsc1, image,1
end

```

and the output is:

```

'cl' n'est pas reconnu en tant que commande interne
ou externe, un programme ex&#8218;cutable ou un fichier de commandes.
cl -D_DLL -DWIN32 -D_MT /nologo /I"C:\Program
Files\RSI\IDL60\external\include" /c "C:\Program
Files\RSI\IDL60\binarize_call.c"
/Fo"binarize_call_1260_ANALIMAGES.obj"
Impossible de trouver C:\Program
Files\RSI\IDL60\binarize_call_1260_ANALIMAGES.exp
Impossible de trouver C:\Program
Files\RSI\IDL60\binarize_call_1260_ANALIMAGES.lib
Impossible de trouver C:\Program
Files\RSI\IDL60\binarize_call_1260_ANALIMAGES.obj
% CALL_EXTERNAL: Error loading sharable executable.
        Symbol: binarize, File = .\binarize_call.dll
        ERROR_MOD_NOT_FOUND
% Execution halted at: $MAIN$          12 C:\Program
Files\RSI\fabrice\test_call.pro

```

My compiler is a freeware "microsoft visual C++ toolkit".(MVC++)

in the output, IDL search the 'CL'. This file is include in the MVC++ folder, but i don't where is the setting path to permit IDL to found this file. I tried to save the path in a general setting but it doesn't work....

the !Make_dll setting is:

```

compile_directory : C:\Documents and
Settings\montifl.idl\idl_6_0_Win32_x86_m32_f64\compile_dir
compile_name :    Microsoft Visual C++ 7.0
CC : cl %X -D_DLL -DWIN32 -D_MT /nologo /I"C:\Program
Files\RSI\IDL60\external\include" /c %C /Fo%O
LD :link /out:%L /nologo /nodefaultlib /dll %O /def:%E "C:\Program
Files\RSI\IDL60\bin\bin.x86\idl32.lib" msvcrt.lib kernel32.lib %X

```

I hope that somebody will be able to help me..

thanks
