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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
tvscl, 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\RSIDL60\external\include" /c "C:\Program
Files\RSIDL60\binarize_call.c"
/Fo"binarize_call_1260_ANALIMAGES.obj"
Impossible de trouver C:\Program
Files\RSIDL60\binarize_call_1260_ANALIMAGES.exp
Impossible de trouver C:\Program
Files\RSIDL60\binarize_call_1260_ANALIMAGES.lib
Impossible de trouver C:\Program
Files\RSIDL60\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\montif\idl\idl_6_0_Win32_x86_m32_f64\compile_dir
compilie_name : Microsoft Visual C++ 7.0
CC : cl %X -D_DLL -DWIN32 -D_MT /nologo /I"C:\Program
Files\RSIDL60\external\include" /c %C /Fo%O
LD :link /out:%L /nologo /nodefaultlib /dll %O /def:%E "C:\Program
Files\RSIDL60\bin\bin.x86\idl32.lib" msvcr.lib kernel32.lib %X

```

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

thanks

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Subject: Re: make\_dll and call\_external....  
Posted by [Marc Reinig](#) on Wed, 02 Mar 2005 18:51:39 GMT  
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I prefer making a DLM. Then life seems simpler, at least to me. However:

> 'cl' n'est pas reconnu en tant que commande interne

> ou externe, un programme executable ou un fichier de commandes.

'cl' is not recognized as an internal or external command, a program, executable or a command file.

So your first problem is that cl didn't get executed. You probably need to specify the entire path or have it on your path.

Having no file generated by "make\_dll" led to your other problems

Marco

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Marc Reinig  
UCO/Lick Observatory  
Laboratory for Adaptive Optics

"Fabrice Monti" <fabrice.monti@espci.fr> wrote in message  
news:ba06b53f.0502240449.2b8cd0f9@posting.google.com...

> 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  
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> 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\_LONG 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
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> help, result
> tvscl, image,1
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> and the output is:
>
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> 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  
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> the !Make\_dll setting is:  
> compile\_directory : C:\Documents and  
> Settings\montif\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  
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> I hope that somebody will be able to help me..  
> thanks

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