Subject: executing commands and viewing it's result
Posted by TeCNoYoTTa on Wed, 16 Sep 2009 21:36:04 GMT

hello all

how can i execute a command in CMD with U++ and get it's result back

ex.

string result = neededfun("dir");

Subject: Re: executing commands and viewing it's result
Posted by andrei_natanael on Wed, 16 Sep 2009 21:52:20 GMT

There is SysExec package in Bazaar. I think Max wrote it, so if you need some advices you may ask him.

Subject: Re: executing commands and viewing it's result
Posted by TeCNoYoTTa on Wed, 16 Sep 2009 22:42:33 GMT

Thanks

i found this command called system but i get this error

error C3861: 'System': identifier not found

Subject: Re: executing commands and viewing it's result
Posted by dolik.rce on Thu, 17 Sep 2009 00:34:45 GMT

Hi TeCNoYoTTa

I would suggest you function String Sys(const char *cmd), which is defined directly in Core package.

Quote:error C3861: 'System': identifier not found
This sounds like if you forgot to include the header and/or add the package in which System is defined.

Bye
Honza

Subject: Re: executing commands and viewing it's result
Posted by TeCNoYoTTa on Thu, 17 Sep 2009 00:47:14 GMT

View Forum Message <> Reply to Message

thanks but it's not found also

i included Core/Core.h BTW

Subject: Re: executing commands and viewing it's result
Posted by andrei_natanael on Thu, 17 Sep 2009 04:57:31 GMT

View Forum Message <> Reply to Message

TeCNoYoTTa wrote on Thu, 17 September 2009 03:47thanks but it's not found also

i included Core/Core.h BTW

You have to edit assembly in which you work and put an entry pointing to Bazaar. i.e.
Quote: /home/andrei/upp/MyApps;/home/andrei/upp/uppsrc;/home/andrei /upp/bazaar
after that you may access packages from bazaar, so SysExec should be accessible.

Create a project, add SysExec package to it and use it freely.
#include <Core/Core.h>
#include <SysExec/SysExec.h>
using namespace Upp;

CONSOLE_APP_MAIN
{
 String output;
 SysExec("ls", "/home/andrei", output);
 Cout() << output;
}

Subject: Re: executing commands and viewing it's result
Posted by TeCNoYoTTa on Thu, 17 Sep 2009 05:12:29 GMT

View Forum Message <> Reply to Message

thanks but i tried this code and i got this error

 String output;
 SysExec("dir", "c://", output);
 Cout() << output;

HanafiBardo.obj : error LNK2019: unresolved external symbol "bool __cdecl Upp::SysExec(class
Upp::String const &,class Upp::String const &,class Upp::
 String &)" (?SysExec@Upp@@YA_NABVString@1@0AAV21@@Z) referenced in function

_main
D:\Program Files\U++\out\MSC9.Force_size\HanafiBardo.exe : fatal error LNK1120: 1 unresolved externals

i dont know where to edit assembly but i copy/paste sysexec folder in U++MyApp folder

---

Subject: Re: executing commands and viewing it's result
Posted by andrei_natanael on Thu, 17 Sep 2009 06:28:10 GMT
View Forum Message <> Reply to Message

Here is explained how to setup assembly.
Did you included <SysExec/SysExec.h> ? (case sensitive)

Subject: Re: executing commands and viewing it's result
Posted by TeCNoYoTTa on Thu, 17 Sep 2009 07:03:38 GMT
View Forum Message <> Reply to Message

thanks but this code

```
String output="";
String error="";
SysExec("dir","C:\\",output,error);
Cout() << output << "\n"<<error;
```

this is it's output

Error spawning process

<--- Finished in (0:00.48), exitcode: 0 --->

Subject: Re: executing commands and viewing it's result
Posted by andrei_natanael on Thu, 17 Sep 2009 07:19:36 GMT
View Forum Message <> Reply to Message

May you add Cout() << errno; after SysExec call and post the number resulted?

Subject: Re: executing commands and viewing it's result
Posted by koldo on Thu, 17 Sep 2009 07:32:40 GMT
View Forum Message <> Reply to Message

Hello TeCNoYoTTa

You can also use the LaunchCommand function in Bazaar/SysInfo package Smile

String LaunchCommand(const char *cmd)
where cmd is just the command line string. It returns the command output.

It is documented and if you see the code in the same SysInfo.cpp you will see many examples of its use.

This function does work for Windows and Linux. The exception is in basic OS commands in Windows like "dir" and "copy". If you want them to work out of a command line and hidden it will be needed something different.
It is not usually necessary as this commands are so basic that their functionality is included in libraries (list files in folder, copy files, ...).

All other console programs will run perfectly.

Best regards
Koldo

Subject: Re: executing commands and viewing it's result
Posted by mr_ped on Thu, 17 Sep 2009 08:23:43 GMT
View Forum Message <> Reply to Message

"dir" is part of cmd.exe in Windows, so you have to call it from C++ like "cmd.exe -some_options_to_run_DIR_command".

Subject: Re: executing commands and viewing it's result
Posted by koldo on Thu, 17 Sep 2009 09:01:39 GMT
View Forum Message <> Reply to Message

Yes, mr_ped is right

To do a "dir" in Windows you would have to do:

String str = LaunchCommand("cmd.exe /c dir c:\\");
This is because "dir" is not a program.

Best regards
Koldo

Subject: Re: executing commands and viewing it's result
Posted by TeCNoYoTTa on Thu, 17 Sep 2009 18:52:32 GMT

I downloaded the latest version of U++ but i get this error :S :S
when compiling sysinfo

D:\Program Files\U++\bazaar\SysInfo\SysInfo.cpp:11:21: error: rpcsal.h: No such file or directory
D:\Program Files\U++\bazaar\SysInfo\SysInfo.cpp:12:21: error: Wbemidl.h: No such file or directory
D:\Program Files\U++\bazaar\SysInfo\SysInfo.cpp:2267:1: error: unterminated #if
D:\Program Files\U++\bazaar\SysInfo\SysInfo.cpp: In function 'bool GetWMIInfo(Upp::String, Upp::Array<Upp::String>&, Upp::Array<Upp::Value>**)':
D:\Program Files\U++\bazaar\SysInfo\SysInfo.cpp:493: error: 'IWbemLocator' was not declared in this scope
D:\Program Files\U++\bazaar\SysInfo\SysInfo.cpp:493: error: 'pIWbemLocator' was not declared in this scope
D:\Program Files\U++\bazaar\SysInfo\SysInfo.cpp:494: error: 'CLSID_WbemAdministrativeLocator' was not declared in this scope
D:\Program Files\U++\bazaar\SysInfo\SysInfo.cpp:501: error: 'IWbemServices' was not declared in this scope
D:\Program Files\U++\bazaar\SysInfo\SysInfo.cpp:501: error: 'pWbemServices' was not declared in this scope
D:\Program Files\U++\bazaar\SysInfo\SysInfo.cpp:518: error: 'IEnumWbemClassObject' was not declared in this scope
D:\Program Files\U++\bazaar\SysInfo\SysInfo.cpp:518: error: 'pEnumerator' was not declared in this scope
D:\Program Files\U++\bazaar\SysInfo\SysInfo.cpp:525: error: 'WBEM_FLAG_RETURN_IMMEDIATELY' was not declared in this scope
D:\Program Files\U++\bazaar\SysInfo\SysInfo.cpp:535: error: 'IWbemClassObject' was not declared in this scope
D:\Program Files\U++\bazaar\SysInfo\SysInfo.cpp:535: error: 'pClassObject' was not declared in this scope
D:\Program Files\U++\bazaar\SysInfo\SysInfo.cpp:539: error: 'WBEM_INFINITE' was not declared in this scope
D:\Program Files\U++\bazaar\SysInfo\SysInfo.cpp: In function 'bool TakeWindowPlacement(HWND__*, RECT&, POINT&, POINT&, long int&)':
D:\Program Files\U++\bazaar\SysInfo\SysInfo.cpp:2345: error: 'struct WINDOWPLACEMENT' has no member named 'show'
D:\Program Files\U++\bazaar\SysInfo\SysInfo.cpp:2345: error: expected `;' at end of input
D:\Program Files\U++\bazaar\SysInfo\SysInfo.cpp:2345: error: expected `}' at end of input

Subject: Re: executing commands and viewing it's result
Posted by TeCNoYoTTa on Thu, 17 Sep 2009 18:54:59 GMT

TeCNoYoTTa wrote on Thu, 17 September 2009 00:42Thanks

i found this command called system but i get this error

error C3861: 'System': identifier not found

i tried Sys

 String result = Sys("dir c:/");
 Cout() << result << "\n";

but always return empty string

Subject: Re: executing commands and viewing it's result
Posted by TeCNoYoTTa on Thu, 17 Sep 2009 19:09:48 GMT
View Forum Message <> Reply to Message

Thanks All

String ExecuteCMD(String p_CMD)
{
 One<SlaveProcess> sp = StartProcess(p_CMD);
 String Result;
 String k;
 while(sp->IsRunning())
 {
  sp->Read(k);
  Result += k;
 }
 return Result;
}

this function did it

Subject: Re: executing commands and viewing it's result
Posted by koldo on Thu, 17 Sep 2009 20:23:12 GMT
View Forum Message <> Reply to Message

Hello TeCNoYoTTa

You are right. The implementation of LaunchCommand in SysInfo is like yours just using LocalProcess instead of One<SlaveProcess>.

Just in case, SysInfo is complete for Linux and Windows with MSC.

However with MinGW you have to add these files from the MSC install or from other sources:

To Upp\MinGW\include:
- Files Rpcsal.h, DispEx.h, WbemCli.h, WbemDisp.h, Wbemidl.h, WbemProv.h and WbemTran.h
- They can be taken from: \Microsoft SDKs\Windows\v6.1\Include
To Upp\MinGW\lib:
- File wbemuuid.lib
- It can be taken from \Microsoft SDKs\Windows\v6.1\Lib

To simplify it all you can get an updated MinGW 4.4.0 with all includes and libs from
http://sourceforge.net/projects/upp/files/upp/1517/mingw_4_4 _0.7z/download

Best regards
Koldo

Subject: Re: executing commands and viewing it's result
Posted by mirek on Fri, 18 Sep 2009 03:50:55 GMT
View Forum Message <> Reply to Message

In the usvn package, there is the SysConsole class. You might want to check it.

It is sort of waiting for being moved to CtrlLib or something like that, after perhaps some refurbishing. Maybe you can try it out of usvn context to check what is missing for general use?

Mirek

Subject: Re: executing commands and viewing it's result
Posted by koldo on Fri, 18 Sep 2009 07:32:04 GMT
View Forum Message <> Reply to Message

Hello all

Some posts summarized in one...

For Mirek: About SysConsole

Quote:In the usvn package, there is the SysConsole class. You might want to check it.

It is sort of waiting for being moved to CtrlLib or something like that, after perhaps some refurbishing. Maybe you can try it out of usvn context to check what is missing for general use?
I have tested it and I find it useful. In fact I have a class with the same functionality...

Please move it to the main library

I will substitute my class with yours to see if anything else could be necessary.

One thing I would do now is to manage '\r':
Some programs as mencoder or ffmpeg show in a line the status of the process, printing lines one over other

For TeCNoYoTTa: You do not need ExecuteCMD

... as Sys() function just does the same:

```
int Sys(const char *cmd, String& out)
{
 out.Clear();
 LocalProcess p;
 if(!p.Start(cmd))
  return -1;
 while(p.IsRunning()) {
  out.Cat(p.Get());
  Sleep(1); // p.Wait would be much better here!
 }
 out.Cat(p.Get());
 return p.GetExitCode();
}
```
For Mirek and everybody: To organize us a little

I know it is not the first time I tell it, I see many times that different people do the same thing.
It would be great to have a place to put the "THINGS TO DO" so people that have time can take them and do it. If somebody has not time to follow can ask for help and other people can "pass the baton on to the next relay runner".

We had three implementations of Sys(), now we have two implementations of cryptography.

The reason I announce the things I will do months before is just to coordinate with others, but it is not the best way.

Mirek: Thank you for having Bazaar inside Upp. Other projects do not have the same.

However perhaps it is the time to have some kind of better Bazaar inside or outside Upp web page:
- With a project list with description: All the Bazaar packages visible
- With all documentation: Now Bazaar documentation is not in the web page
- With a TO DO board to organize the next things to do. For Bazaar and Upp main packages

Opinions?

Best regards
Koldo

Subject: Re: executing commands and viewing it's result
Posted by andrei_natanael on Fri, 18 Sep 2009 10:17:05 GMT
View Forum Message <> Reply to Message

Would be nice to have a page where are listed all Bazaar packages, their author and a short description and also the projects which someone is doing and will be in bazaar when they are finished so we remove duplicate efforts as you explained with SysExec/SysConsole/ExecuteCMD etc.

Subject: Re: executing commands and viewing it's result
Posted by cbpporter on Thu, 22 Oct 2009 13:05:59 GMT
View Forum Message <> Reply to Message

LaunchCommand seems to be missing from SVN. Has it been removed in favor or something different?

Subject: Re: executing commands and viewing it's result
Posted by mirek on Thu, 22 Oct 2009 18:36:05 GMT
View Forum Message <> Reply to Message

andrei_natanael wrote on Fri, 18 September 2009 06:17Would be nice to have a page where are listed all Bazaar packages, their author and a short description and also the projects which someone is doing and will be in bazaar when they are finished so we remove duplicate efforts as you explained with SysExec/SysConsole/ExecuteCMD etc.

Well, website generator is on svn (uppbox/uppweb), you have an access to it. Maybe you can try to put together such page (within the generator)?

Mirek

Subject: Re: executing commands and viewing it's result
Posted by koldo on Fri, 23 Oct 2009 10:03:12 GMT
View Forum Message <> Reply to Message

Hello cbpporter

I have not removed but commented LaunchCommand functions as Sys functions do the same to avoid duplicities.

I should have to include a changes register

Best regards
Koldo