Subject: send/receive arguments to console(cmd/terminal) in GUI app Posted by dave on Fri, 01 Jul 2011 20:47:23 GMT

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hi,

my GUI app needs to send and receive arguments to the console(cmd in windows/terminal in linux).

I'm stuck!

will somebody help me out.

thanx in advance.

dave

Subject: Re: send/receive arguments to console(cmd/terminal) in GUI app Posted by dolik.rce on Mon, 04 Jul 2011 06:14:33 GMT

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Hi Dave,

Welcome to the forum

Do I understand correctly that you want to execute command line applications from within your app? There is several ways to do that.

First option is the Sys function:int Sys(const char *cmd, String& output); String Sys(const char *cmd); It just executes the command in cmd (which can also contain parameters, just as you would write them to cmd/xterm). The first version returns the exit code of the command and stores all the output it produces in the String output. The second variant returns the output directly (it is meant for really simple commands that never fail).

Second option is to use LocalProcess class. It allows finer control over the executed process. You can interact with it using Read() and Write() functions. For details please refer to the documentation.

Best regards, Honza

Subject: Re: send/receive arguments to console(cmd/terminal) in GUI app Posted by dave on Tue, 05 Jul 2011 20:28:05 GMT

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thank u honza,

i appreciate your help. i had considered these options before but could'nt work it out.

like you said, the string sys function worked just fine. it was heartning to see calc.exe run, but things were short lived. when i tried to give other commands, it failed to execute and GUI stopped responding, even though its process was running (as seen in task manager).

when calc.exe did run, the GUI app was left unresponsive till calc.exe was closed.

is there anything else i need to do or consider?

also the cmd window remains hidden. can i show the cmd window?

regards,

dave

Subject: Re: send/receive arguments to console(cmd/terminal) in GUI app Posted by dolik.rce on Tue, 05 Jul 2011 21:39:08 GMT View Forum Message <> Reply to Message

dave wrote on Tue, 05 July 2011 22:28like you said, the string sys function worked just fine. it was heartning to see calc.exe run, but things were short lived. when i tried to give other commands, it failed to execute and GUI stopped responding, even though its process was running (as seen in task manager).

when calc.exe did run, the GUI app was left unresponsive till calc.exe was closed. It is because Sys() waits till the executed program ends, so it can return its output. If you wish to use your app in between, use LocalProcess: #include <CtrlLib/CtrlLib.h> using namespace Upp;

```
class App:public TopWindow {
typedef App CLASSNAME;
Array<LocalProcess> p;
Button b;
public:
App(){
 Add(b.HCenterPos().VCenterPos());
 b.SetLabel("Push me!"):
 b<<=THISBACK(Launch);
void Launch(){
 // we add a new process to the array and start a command
 p.Add().Start("calc.exe");
}
~App(){
 // if you wish the processes run after closing the app, detach them like this:
 for(int i=0;i<p.GetCount();i++){</pre>
```

```
p[i].Detach();
}
};

GUI_APP_MAIN{
   App().Sizeable().Run();
}
```

dave wrote on Tue, 05 July 2011 22:28also the cmd window remains hidden. can i show the cmd window?IIRC it is Windows itself who decides whether to open the cmd or not. If a GUI app is executed the cmd prompt is not displayed and the apps output/input is not bound to it. (Try executing calc.exe from cmd, if I'm correct it will start the calculator and immediately let you work with the shell). I haven't use windows in a while though, so I might be slightly misinterpreting some things.

You might also try to execute whatever you want as "cmd /c your_command", that should open the cmd.

Honza

Subject: Re: send/receive arguments to console(cmd/terminal) in GUI app Posted by dave on Tue, 05 Jul 2011 22:06:03 GMT

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now thats the nicest explanation anyone can receive. my doubts are laid to rest.

hope this explanation benefits a lot of ppl out there. thank you honza, you are the man of the year.

dave

Subject: Re: send/receive arguments to console(cmd/terminal) in GUI app Posted by dave on Thu, 14 Jul 2011 12:49:13 GMT

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```
local process is the way to go. for example..
int SysConsole::System(const char *cmd) {
```

```
if(!IsOpen())
 Open();
list.Add(AttrText(cmd).SetFont(font().Bold()).Ink(LtBlue));
int ii = list.GetCount();
LocalProcess p;
if(!p.Start(cmd))
 return -1;
String out;
while(p.IsRunning()) {
 String h = p.Get();
 out.Cat(h);
 int If = out.ReverseFind('\n');
 if(If >= 0) {
 AddResult(out.Mid(0, If + 1));
 out = out.Mid(If + 1);
 ProcessEvents();
 Sleep(h.GetCount() == 0); // p.Wait would be much better here!
}
out.Cat(p.Get());
AddResult(out);
ProcessEvents();
int code = p.GetExitCode();
if(code)
 while(ii < list.GetCount()) {</pre>
 list.Set(ii, 0, AttrText((String)list.Get(ii, 1)).SetFont(font).Ink(LtRed));
 ii++;
 }
return code;
}
regards
dave
```