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Subject: Process Class wrapper for pipes in windows/linux

Posted by [yeus](#) on Fri, 24 Aug 2007 13:56:38 GMT

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does something like this already exist in ultimate++? If not, will it be added some time?

Some class, which wraps redirecting of streams between pipes stdout/int, stderr, creating your own streams to communicate between processes using pipes..

(I am mainly talking about a wrapper for the windows-api-function `_popen(...)`, and the posix standard functions `popen(...)`)

Greetings, Tom

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Subject: Re: Process Class wrapper for pipes in windows/linux

Posted by [mirek](#) on Sat, 25 Aug 2007 08:16:59 GMT

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Search for "SlaveProcess".

Also, look into ide sources, Console.cpp or GDB interface.

Mirek

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Subject: Re: Process Class wrapper for pipes in windows/linux

Posted by [yeus](#) on Sun, 26 Aug 2007 15:53:35 GMT

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thx... i have looked through the sources.. but i still have no clue how to use SlaveProcess... Somehow it gives me an error all the time, because Slave process is pure virtual, although i am using "StartLocalProcess" and such stuff... I must admit: I have no clue, how SlaveProcess works ^^.

What would i need to do to achieve something like this with UPP:

```
FILE pipe=_popen("gnuplot.exe","w"); //start process
```

```
fprintf(pipe,"plot sin(x) \n"); //execute command in remote process
fflush(pipe);
```

```
_pclose(pipe);
```

greetings, Tom

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Subject: Re: Process Class wrapper for pipes in windows/linux  
Posted by [mirek](#) on Sun, 26 Aug 2007 17:52:36 GMT  
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Should be something like:

```
One<SlaveProcess> p = StartLocalProcess("gnuplot w");  
if(p) // started OK  
    p.Write("plot sin(x)\n");
```

Mirek

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Subject: Re: Process Class wrapper for pipes in windows/linux  
Posted by [yeus](#) on Mon, 27 Aug 2007 11:14:34 GMT  
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ahh i figured what my problem was: I #included the <web/sproc.h>-file and not the <web/web.h>.  
For some Reason the compiler had problems linking all that stuff...

Here is my code so far:

```
One<SlaveProcess> pipe;  
pipe=StartLocalProcess("pgnuplot");  
  
if(pipe){  
    pipe->Write("plot sin(x)\n");  
  
    cout<<"running...\n";  
    String s;  
    Sleep(10000);  
    pipe->Kill();  
    cout<<"gnuplot returned: "<<pipe->GetExitCode();  
}/*/
```

I got the problem, that In this code "pipe" is NEVER invalid, as long as I have pgnuplot as starting command. Even if there appears a problem with starting pgnuplot for example, if I use invalid options and similar stuff.

Second Problem is, that for some reason I can not use the Kill()-Command. I am just not able to finish gnuplot when I started it...

Any idea on this?

Greetings, Tom...

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Subject: Re: Process Class wrapper for pipes in windows/linux  
Posted by [mirek](#) on Mon, 27 Aug 2007 13:29:53 GMT  
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Maybe a PATH problem?

Mirek

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Subject: Re: Process Class wrapper for pipes in windows/linux  
Posted by [yeus](#) on Mon, 27 Aug 2007 14:14:29 GMT  
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hmmm.... I made some further research and it seems that the Slaveprocess functions somehow interfere with the Sleep() function of U++...

All i can say is: as soon as I avoid using the Sleep function everything works just as expected...

Form the moment on, when I call the sleep function, the "pipe" object somehow gets disconnected from the process it owns, and I can not use the write, kill, read or whatever command then anymore....

greetings, Tom

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Subject: Re: Process Class wrapper for pipes in windows/linux  
Posted by [yeus](#) on Tue, 28 Aug 2007 17:00:57 GMT  
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luzr is this a bug or something that you`d expect? Or Am I doing something wrong?

Greetings, Tom

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Subject: Re: Process Class wrapper for pipes in windows/linux  
Posted by [mirek](#) on Tue, 28 Aug 2007 17:07:58 GMT  
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Well, is not it actually possible that process is finished while sleeping? (OTOH, in that case, it should still be kept as zombie).

All I can say is that SlaveProcess is extensively used in theide and (obviously) it seems to work.

Mirek

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