

stdout redirection

Source:

<http://www.tech-archive.net/Archive/DotNet/microsoft.public.dotnet.languages.vc/2004-10/0793.html>

From: Nadav (*Nadav_at_discussions.microsoft.com*)

Date: 10/23/04

Date: Sat, 23 Oct 2004 04:29:02 -0700

Hi,

Introduction:

I am trying to redirect stdout to a RichEdit control, this is done by initiating a StringWriter, associated it with a StringBuilder and setting the Console.Out to the String Writer, when ever the RichEdit is to be updated text from the StringBuilder is being copied.

The Problem:

What was just described works well as long as I am dealing with managed code, my managed app loads some inproc unmanaged DLLs using PInvoke, these DLLs are using printf*. * to write to the stdout, BUT when redirecting stdout in the manner just described all of the data being printed by the unmanaged app doesn't show on the redirected console output.

I have tried redirecting the unmanaged code output in the following manner:

```
int fd = 0;
FILE *fp = 0;
fd = _open_osfhandle((long)GetStdHandle(STD_OUTPUT_HANDLE),_O_APPEND);
fp = _fdopen(fd,"w");
*stdout = *fp;
setvbuf(stdout, NULL, _IONBF, 0);
```

But apparently it doesn't work: `_open_osfhandle` returns -1. (internally `GetFileType` doesn't recognize the stdout handle returned by `GetStdHandle` As a valid file handle

What should I do how can I redirect the unmanaged stdout to the same destination as the managed stdout? I would expect the unmanaged code to transparently write to the redirect stdout.

Any help would be appreciated.

--

Nadav

<http://www.ddevel.com>