Subject: Crash on Cout with MSC15 Posted by NilaT on Wed, 20 Jul 2016 14:12:27 GMT

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Hello.

// edit:

For those who don't want to read all the text below:

What changes have to be done to 2014 sources that MT flag will work with MSC15 like newest (2015) sources do???

Thanks;)

I formated my Laptop recently and decided to install the newest version of Upp and MS VS afterwards.

So I installed Upp 2015.2 (Version 9251) and MS Visual Studio Community 2015 (which is free to download).

I work on a Windows 10 Pro N Laptop.

So, after a few tweaks here and there, everything seems to work fine (despite the Win XP incompatibility, but thats okay)

BUT, I discovered one error which drives me nuts...

Cout() doesn't seem to work properly... printf is no problem though. Sure I could change all Cout() calls to printf but that's not a solution.

The funny thing is, in debug everything works fine, only in optimal the program crashes immediately.

I tried to debug the optimal version in Visual Studio, the error seems to be in:

```
void Stream::Put(const char *s)
{
 while (*s) Put(*s++);
}
```

The error is always the same: (The error is german and I tried to translate it to english as good as I can)

Exception at 0x00AB60C7 (address changes every time) in (Projectname).exe: 0xC0000005: Access violation at read at position 0x0000004.

But the funniest thing is, that this must be something depending on my includes (it's a rather big project)

Because, I made a new test application, only containing the following code: #include <Core/Core.h>

using namespace Upp;

CONSOLE_APP_MAIN

```
{
    Cout() << "\n----\n";
    ReadStdIn();
}
```

and this just works fine, using the SAME sources as the big project.

The \n---... is also the first line in my other project.

Any suggestions?

Any help is very appreciated!

I also tried differend compiler flags (GS) and sources (2014, 2015), always the same result... Everything works, except my "old" project.

//edit: I narrowed it down to the MT flag... Please just create a new multithreaded console project with the content I posted above and try it... It will crash. But why?

//edit2: Okay, only 2014 sources are affected. The newest sources work fine with MT... I'm on it. Please keep this thread if other people have the same issue

Subject: Re: Crash on Cout with MSC15

Posted by deep on Wed, 20 Jul 2016 14:34:59 GMT

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Hi,

In new release "optimal" mode is deprecated.

Quote: The funny thing is, in debug everything works fine, only in optimal the program crashes immediately.

I tried to debug the optimal version in Visual Studio, the error seems to be in:

Check flags for "release" mode.

Or check with "Optimized speed" mode. I faced similar issues with optimal mode.

Subject: Re: Crash on Cout with MSC15

Posted by NilaT on Wed, 20 Jul 2016 14:43:39 GMT

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Thanks for the quick answer,

as I discovered, it has something to do with MT flag and the changes from 2014 sources to 2015. Because the crash only appears in MT with 2014 sources.

MT on 2015 work fine...

I think there must be a significant difference... But where?!

Must be something about that encoding and converting stuff, right?

_

Which flags do you mean exactly, because there are sooo many different flag and option menus in Upp.

But if you mean the Setup > Build options, I got:

Common options: /bigobj /D_ATL_XP_TARGETING /FS

Debug options: -Od

Debug link options: /STACK:20000000

Optimize for speed: -O2 Optimize for size: -O1

Release link options: same as Debug link options

Subject: Re: Crash on Cout with MSC15

Posted by deep on Thu, 21 Jul 2016 05:24:20 GMT

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Hi.

Please check when this gets called first time

void Stream::Put(const char *s)

pointer points to valid "cstring"

Subject: Re: Crash on Cout with MSC15

Posted by NilaT on Thu, 21 Jul 2016 06:25:28 GMT

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Could somebody please confirm the following?

New Console App in latest upp with latest sources, MSC15 on Win 10.

Compile and run in optimal with MT flag!

Code:

#include <Core/Core.h>

using namespace Upp;

```
CONSOLE_APP_MAIN
```

CoutUTF8(); // Without this line, works perfect. With this line = crash (same error as with 2014 upp sources)

Cout() << "\n----\n";

ReadStdIn();
}

```
And explain me where and why? Thanks.
```

```
//edit: Because we work with 2014 sources in our project, please forget that 2015 example. I tried to apply the changes in CoutStream from 2015 to 2014 sources, because I thought a wrong Charset causes the error.
```

```
Afterwards I edited the Stream::Put method:
void Stream::Put(const char *s)
{
  while (*s)
  {
    Put(*s);
    *s++;
  }
}
In debug, Put calls void Put(int c) in Stream.h:
void Put(int c)
```

and then calls _Put, which, in endeffect calls the "new" Put0 which converts the charset.

BUT, in optimal, the error raises in Stream::Put -> Put call.

I debug in Visual Studio, put a Breakpoint on the Put(*s); call and press F11, but I can't jump into the function...

What the heck...

if(ptr < wrlim)
*ptr++ = c;</pre>

_Put(c);

else

// edit:

I tried to compile our project with 2015 sources, same result.

Debug runs fine, optimal crashes.

I attach a pick of our project, compiled with 2014 sources and MSC15 in optimal.

File Attachments

```
1) crash.png, downloaded 355 times
```