## Subject: MSC15 and 2014 sources - problem with Stream Posted by NilaT on Fri, 22 Jul 2016 06:26:51 GMT

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Hello,

I already started a thread on a wrong forum, please move or delete the Thread from there and put it in here.

http://www.ultimatepp.org/forums/index.php?t=msg&th=9720 &start=0&

My problem is, I'm using the latest Upp (9251) with 2014 sources and compile with MSC15.

But when I call Cout() in my prog, it crashes.

This only happens with MT flag and in optimal mode (debug runs fine)

The same error can be produced on the newest 2015 sources, when putting CoutUTF8() before the first Cout().

I'm running Win 10 Pro.

You can see the error in the other thread as well, but it's:

Exception at 0x00AB60C7 (address changes every time) in (Projectname).exe: 0xC0000005:

Access violation at read at position 0x0000004.

The error seems to occur in function void Stream::Put(const char \*s).

See attachment.

Thanks for the quick reply, as I need this program really quick.

//edit:

Okay guys, I'm kind of confused now.

When I start the little test program from the other thread with 2015 sources, it works fine. In 2014 sources, it crashes.

BUT, when I start MY program in 2015 sources, it crashes as well as on 2014 sources.

Very confusing.

Any help would be very appreciated......

## File Attachments

1) crash.png, downloaded 361 times

Subject: Re: MSC15 and 2014 sources - problem with Stream

Posted by mirek on Fri, 22 Jul 2016 08:15:48 GMT

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Do you call Cout from threads?

Subject: Re: MSC15 and 2014 sources - problem with Stream

```
In this particular example, no.
My code starts as following:
CONSOLE_APP_MAIN
  String cmd = "";
  const Vector<String>& argc = CommandLine();
  if (argc.GetCount()>0)
    cmd = argc[0];
  bool progCheck = true;
  for (int c=0;c<argc.GetCount();c++)</pre>
  //if(_stricmp(argv[c], "noProgCheck") == 0)
  if(argc[c] == "noProgCheck")
 { progCheck = false;
 break:
 }
  }
  Cout() << "\n----\n":
  Cout() << PROG DESCRIPTION;
  Cout() << " ";
  Cout() << PROG COPYRIGHT;
  Cout() << "\n";
  Cout() << "Rel.: ";
  Cout() << PROG_VERSION;
  Cout() << " / ";
  Cout() << DATABASE_VERSION;
  Cout() << " ":
  Cout() << cmd;
  Cout() << "\n----\n";
```

and crashes at the very first Cout().

We use sockets in this program as well, that's why we need MT.

It seems to be a compiler problem, as it happens with 2014 sources and 2015 sources.

The funny thing is, that my little testprogram worked...

And when we compile our program with older upp (same sources though), and older compiler (VS2012) it works fine.

Do you know any compiler flag we should try??

Subject: Re: MSC15 and 2014 sources - problem with Stream

## Posted by mirek on Fri, 22 Jul 2016 09:18:01 GMT

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Looking at screenshot, I have to say I am a bit confused what is "sources" and what is "compiler"

Looks like you are using in Visual Studio to compile?

Mirek

Subject: Re: MSC15 and 2014 sources - problem with Stream Posted by NilaT on Fri, 22 Jul 2016 09:51:41 GMT

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Not to compile but to debug, because VS has more capabilities in debugging release/optimal versions.

May I can call you and you can do a TV session?

Because I don't know what to do anymore.

Things are very strange... Because our project works fine with 2012 compiler and 2014 sources.

But won't work with 2014 sources and 2015 compiler.

And it won't work with 2015 sources and 2015 compiler either.

When I do a little testprog, it works with 2015 sources, but won't with 2014. Compiler is 2015.

I think it's better if you actually see what I do...

Sources = Uppsrc Compiler = MSC15

//edit: I did get another error recently, but only once and I didn't made a screenshot, sorry. But the callstack said something like: Put > printf (is put really calling printf?!) > lambda ....
So, could it be some sort of C++11 issue?

Subject: Re: MSC15 and 2014 sources - problem with Stream

Posted by mirek on Fri, 22 Jul 2016 13:57:49 GMT

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It really looks like Cout is not properly initialized...

Mirek

Subject: Re: MSC15 and 2014 sources - problem with Stream

Posted by mirek on Fri, 22 Jul 2016 14:00:19 GMT

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Try to replace

```
Stream& Cout()
return Single<CoutStream>();
with
Stream& Cout()
{
  static CoutStream x;
  return x:
}
```

Subject: Re: MSC15 and 2014 sources - problem with Stream Posted by NilaT on Mon, 25 Jul 2016 07:13:25 GMT

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Hi mirek,

thanks, works like a charm now.

Could you explain what happened? Must be a ONCELOCK issue?!

Subject: Re: MSC15 and 2014 sources - problem with Stream Posted by mirek on Mon, 25 Jul 2016 13:50:50 GMT

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Well, I am afraid that this is in fact very bad news....

It looks like MSC15 sometimes has troubles with static inside template (as in Single): (I have already experienced something somewhat similar. It looks like only some installations of MSC15 are affected though, compile on different computer and it works.

Mirek

Subject: Re: MSC15 and 2014 sources - problem with Stream Posted by NilaT on Tue, 26 Jul 2016 08:33:16 GMT

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Well, it seems like there are more and more problems coming up with MSC15, this time with 2010 sources (in another project).

A simple Format("%s %d", "bla", 1); results in a crash in optimal mode, debug works fine though. Exception: C0000005 at 150C170 EXCEPTION\_ACCESS\_VIOLATION reading at 0000001C Callstack is in the picture. Thanks for help. //edit: Same fix seems to work. I changed Single to: template <class T> T& Single() { #ifndef flagMSC15 static T \*p; ONCELOCK { static T o; p = &o;return \*p; #else static T x; return x; #endif } File Attachments

Subject: Re: MSC15 and 2014 sources - problem with Stream Posted by mirek on Wed, 27 Jul 2016 04:29:22 GMT

1) crash.png, downloaded 329 times

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Actually, that sounds like a good news for a change. For C++11, this is a correct implementation. The whole point of Single was that before C++11, this code was not MT safe.

Mirek

Subject: Re: MSC15 and 2014 sources - problem with Stream Posted by NilaT on Wed, 27 Jul 2016 06:38:23 GMT

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Well, all projects seem to work for now, maybe we face some detailed errors when we test specific packages/functions, but a first test was fine.

Thanks for the help!