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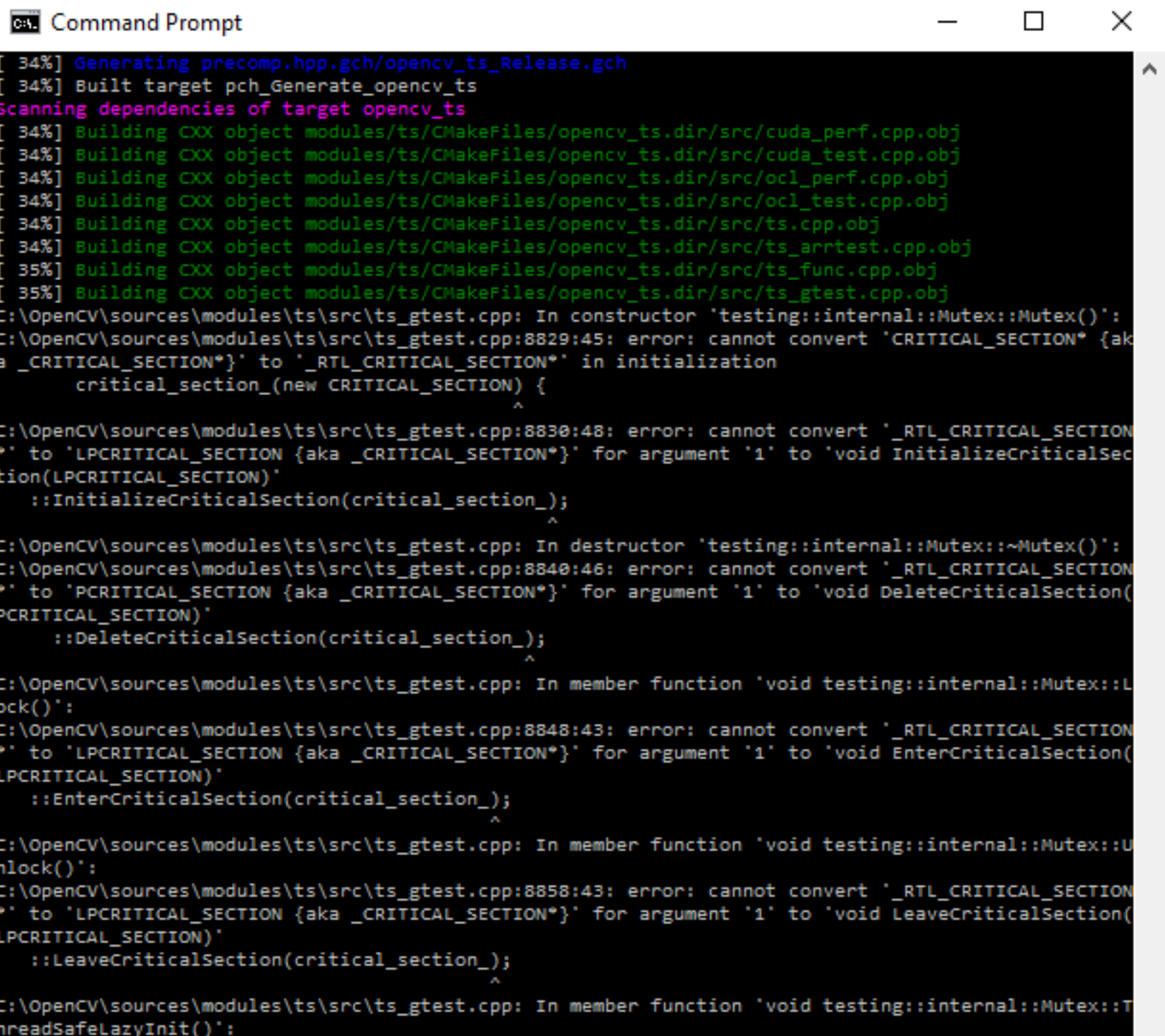
## Cant' build OpenCV 3.2.0 (Mingw32)

Ask Question

I know... Another one of this... But no one else's error is the same as mine and I've been trying to build opencv with mingw32 for days now.

-1

When building OpenCV with mingw the command `mingw32-make` fails at some point trying to compile `sources\modules\ts\src\ts_gtest.cpp` with error pic below:



asked 2 years ago

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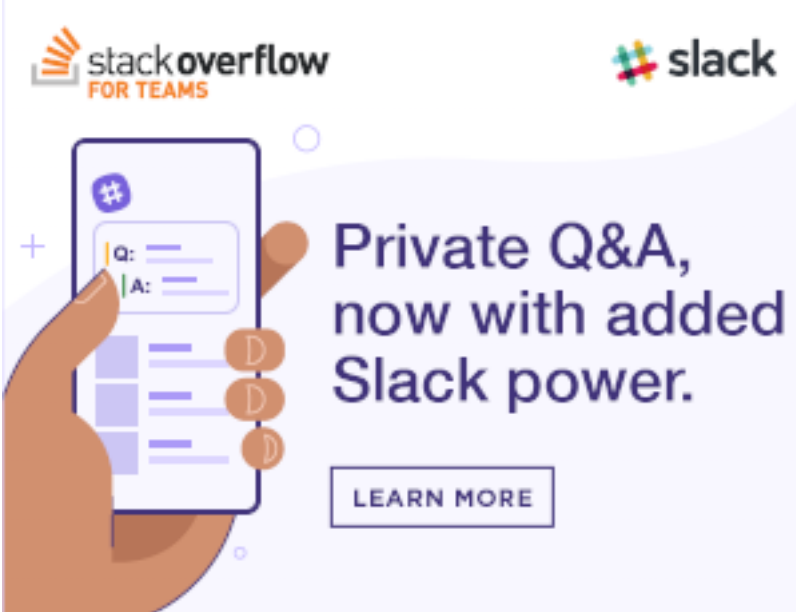
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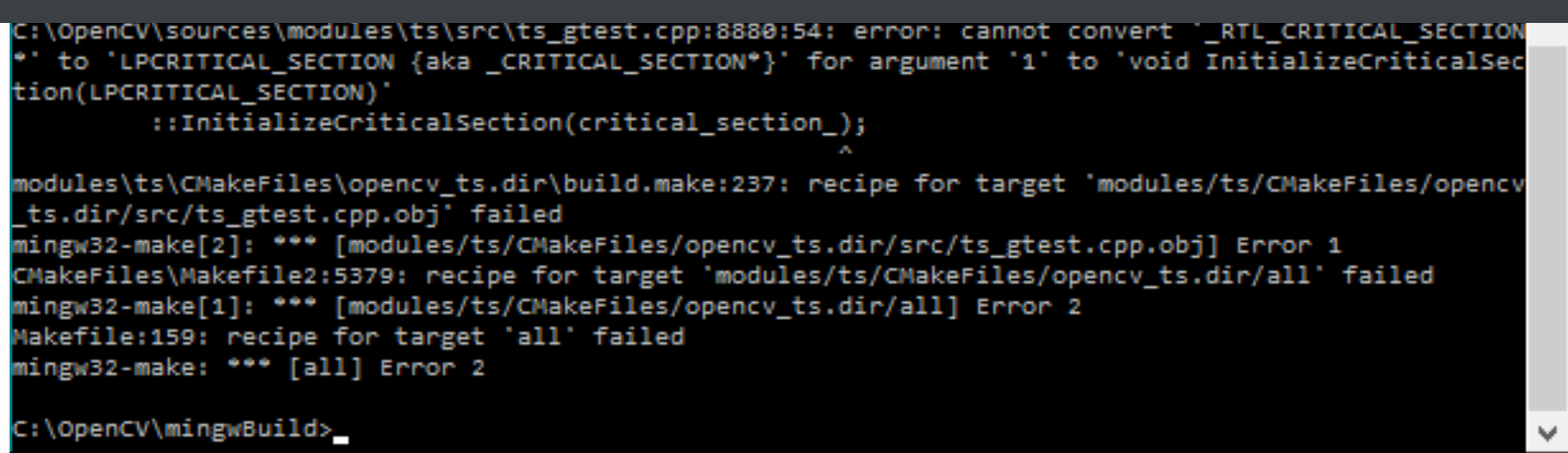
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I've tried following several tutorials, but none work cleanly and this is the best I could get stuff to work.

What I did:

- Installed Mingw and added `C:\Mingw\bin\` to PATH environment variable.
- Installed CMake and added it too to PATH.
- Extracted OpenCV to `C:\` and created folder `C:\opencv\mingwBuild\`
- In CMake-GUI I define source folder as `C:\opencv\sources\` and build folder as `C:\opencv\mingwBuild\`.
- Hit Configure and select `Mingw Makefiles`, with 'Use default native compilers' (have also specified compilers explicitly and the result is the same.).
- Hit Generate, which creates the Makefile.
- I open `C:\Mingw\msys\1.0\msys.bat` to have a console with all variables loaded (have also tried directly from a simple cmd.exe, given that PATH is set for mingw, but I get the same error in compilation). Navigate to `C:\opencv\mingwBuild\` and run `mingw32-make`.

And that's where the error shows up after a while. Any ideas?

opencv cmake mingw32

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asked Dec 24 '16 at 19:13  
A. Vieira  
661 ● 6 ● 18

Don't attach as screenshot. Give the error as text. – [tambre](#) Dec 24 '16 at 20:26

1 Looks like a problem with google test. [1] [2] – [Dan Mašek](#) Dec 24 '16 at 22:03

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2 Answers

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Turns ou gTest was not compiling in Mingw for some reason. As I don't intend to test my code (for now) I removed `opencv_ts` from instalation (by deselecting it in Cmake, after configuring and before generating).

Someone mentions, in the first [link](#) @Dan Masek refers, that GTest has this issue with type conversion under mingw. They say that you can edit `ts_gtest.cpp` to apply the correct conversion, according to error message. That may be a solution if you need this module.

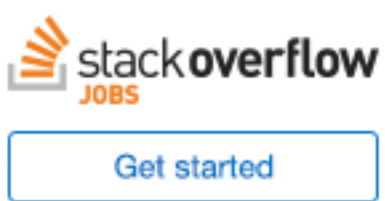
Another comment in [@Dan Masek's second link](#) mentions that gcc's version 5 surpasses the issue, which version 4 has. So, getting a hold of such distro may also be a solution.

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answered Dec 26 '16 at 15:38  
A. Vieira  
661 ● 6 ● 18

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For me it seems to be fixed by applying this fix: <https://github.com/msk-repo01/opencv/commit/9a1835ce6676836ce278d723da4ff55a8f900ff1>

(Also see: <https://github.com/opencv/opencv/issues/8105>)

The fix basically replaces the `"_RTL_CRITICAL_SECTION"` by `"_CRITICAL_SECTION"` for MingW compilers in `modules\ts\include\opencv2\ts\ts_gtest.h` in the following way: The lines

```
// assuming CRITICAL_SECTION is a typedef of _RTL_CRITICAL_SECTION.  
// This assumption is verified by  
// WindowsTypesTest.CRITICAL_SECTIONIS_RTL_CRITICAL_SECTION.  
struct _RTL_CRITICAL_SECTION;
```

(around line 723 in OpenCV 3.2.0 release from Dec. 2016) are replaced by

```
# if GTEST_OS_WINDOWS_MINGW  
// MinGW defined CRITICAL_SECTION and _RTL_CRITICAL_SECTION as two  
// separate (equivalent) structs, instead of using typedef  
typedef struct _CRITICAL_SECTION GTEST_CRITICAL_SECTION;  
# else  
// assuming CRITICAL_SECTION is a typedef of _RTL_CRITICAL_SECTION.  
// This assumption is verified by  
// WindowsTypesTest.CRITICAL_SECTIONIS_RTL_CRITICAL_SECTION.  
typedef struct _RTL_CRITICAL_SECTION GTEST_CRITICAL_SECTION;  
# endif
```

and

```
_RTL_CRITICAL_SECTION* critical_section;
```

is replaced by

```
GTEST_CRITICAL_SECTION* critical_section;
```

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edited May 11 '17 at 17:13

answered May 8 '17 at 17:41  
Jo Korppi  
1 ● 1

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