New issue

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Can't build on Windows - No CUDA toolset found error #164

Open

dokluch opened this issue on Oct 7, 2022 · 11 comments

dokluch commented on Oct 7, 2022

• • •

I can't install tiny-cuda-nn neither with **pip**, nor building it with Cmake.

However, Cmake produces at least a **readable** error:

-- Selecting Windows SDK version 10.0.19041.0 to target Windows 10.0.19044.



- -- The CXX compiler identification is MSVC 19.29.30139.0
- CMake Error at C:/Program Files/CMake/share/cmake-3.24/Modules/CMakeDetermineCompilerId.cmake:491 (n No CUDA toolset found.
- Call Stack (most recent call first):
 - C:/Program Files/CMake/share/cmake-3.24/Modules/CMakeDetermineCompilerId.cmake:6 (CMAKE_DETERMINE_
 - C:/Program Files/CMake/share/cmake-3.24/Modules/CMakeDetermineCompilerId.cmake:48 (__determine_compilerId.cmake)
 - C:/Program Files/CMake/share/cmake-3.24/Modules/CMakeDetermineCUDACompiler.cmake:307 (CMAKE_DETERN
 CMakeLists.txt:25 (project)
- -- Configuring incomplete, errors occurred!

See also "C:/Code/tiny-cuda-nn/build/CMakeFiles/CMakeOutput.log".

- C:\Code\tiny-cuda-nn>cmake . -B build
- -- Selecting Windows SDK version 10.0.19041.0 to target Windows 10.0.19044.
- CMake Error at C:/Program Files/CMake/share/cmake-3.24/Modules/CMakeDetermineCompilerId.cmake:491 (n No CUDA toolset found.
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 - CMakeLists.txt:25 (project)
- -- Configuring incomplete, errors occurred!

See also "C:/Code/tiny-cuda-nn/build/CMakeFiles/CMakeOutput.log".

I have CUDA 11.8 **installed**, CUDA_PATH is set properly. Microsoft Visual Studio 2019, Community Edition

Nvidia A6000



you just need to copy all the four files from C:\Program Files\NVIDIA GPU Computing Toolkit\CUDA\v11.7\extras\visual_studio_integration\MSBuildExtensions, and paste them to C:\Program Files (x86)\Microsoft Visual Studio\2019\Enterprise\MSBuild\Microsoft\VC\v160\BuildCustomizations. These paths should be changed to your own.









cwjacklin mentioned this issue on Apr 17, 2023

any windows install document lifeiteng/vall-e#57



tares003 commented on May 1, 2023 • edited ▼

you just need to copy all the four files from C:\Program Files\NVIDIA GPU Computing Toolkit\CUDA\v11.7\extras\visual_studio_integration\MSBuildExtensions, and paste them to C:\Program Files (x86)\Microsoft Visual Studio\2019\Enterprise\MSBuild\Microsoft\VC\v160\BuildCustomizations. These paths should be changed to your own.

Man you saved a week trying to fix this issue!!! Finally solved it !!

what the reason behind this?



wcneill commented on May 27, 2023 • edited ▼

you just need to copy all the four files from C:\Program Files\NVIDIA GPU Computing Toolkit\CUDA\v11.7\extras\visual_studio_integration\MSBuildExtensions, and paste them to C:\Program Files (x86)\Microsoft Visual Studio\2019\Enterprise\MSBuild\Microsoft\VC\v160\BuildCustomizations. These paths should be changed to your own.

Edit: If you do not have the VS IDE installed but are only using the build tools, say in conjunction with VS Code, the solution is about the same. The same directory exists inside of Visual Studio Build Tools:

C:\Program Files (x86)\Microsoft Visual

Studio\2019\BuildTools\MSBuild\Microsoft\VC\v160\BuildCustomizations

I placed those 4 files there and it solved my problem. Thank you.





HenkPoley commented on Jul 31, 2023

Very similar paths for MS VS 2022:

C:\Program Files (x86)\Microsoft Visual Studio\2022\BuildTools\MSBuild\Microsoft\VC\v170\Buil C:\Program Files (x86)\Microsoft Visual Studio\2022\BuildTools\MSBuild\Microsoft\VC\v160\Build



shasha1832 commented on Sep 5, 2023 • edited ▼

Thanks for the info, I have MS VS 2017 build tools but the path C:\Program Files (x86)\Microsoft Visual Studio\2022\BuildTools\MSBuild\Microsoft\VC does not exists

Could some one help here where i can copy the 4 files to which location?

The paths are described here: https://docs.nvidia.com/cuda/cuda-installation-guide-microsoftwindows/index.html#sample-projects

Have you tried looking under:

C:\Program Files (x86)\Microsoft Visual Studio\2017\Community\Common7\IDE\VC\VCTargets\BuildC | iz



The part between 2017 and Common7 might be different based on how much money you get to spend on MS VC 2017.



shasha1832 commented on Sep 5, 2023

Thanks @HenkPoley for the document link. There is a tweak here, we don't have IDE we have only build tools.

Also i am able to find all 4 files in the location C:\Program Files

(x86)\MSBuild\Microsoft.Cpp\v4.0\BuildCustomizations but looks like its depreciated. Question is does the IDE is mandatory for cmake to find cuda. Source code used of CMakeLists.txt if (WIN32)

message("Windows machine found CMAKE_CUDA_COMPILER will be set") set (CMAKE_CUDA_COMPILER "C:/Program Files/NVIDIA GPU Computing Toolkit/CUDA/v11.8/bin/nvcc.exe")

endif()

include(CheckLanguage)

check_language(CUDA)

if (CMAKE_CUDA_COMPILER)

message("Cuda verified ****")

enable_language(CUDA)

set(CUDA_MODE ON)

message("Enabled Cuda")

else()

message(STATUS "No CUDA compiler found; disabling CUDA model")

endif()

The cmake configuration fails with same error - No CUDA toolset found in enable_language(CUDA). I have already invested one day, but nothing helped. if you can help here will be really helpful.

Machine details -

OS Windows 19 Server

Cuda v11.8

Visual Studio build tools (IDE not allowed to be installed)

shasha1832 commented on Sep 5, 2023

. . .

Omg your hints saved my day if we copy that 4 files here C:\Program Files (x86)\Microsoft Visual Studio\2017\BuildTools\Common7\IDE\VC\VCTargets\BuildCustomizations

it works. **zippy**





shawn-peng commented on Sep 15, 2023

• •

Here is my location, if you customized the install location and are not happy with the orphan dir.

"G:\VS_BuildTools\MSBuild\Microsoft\VC\v170\BuildCustomizations"

This is for VSCode2022. Just search "BuildCustomizations" inside the build tools installation dir if the path is different for you.







Failed to build llama-cpp-python imartinez/privateGPT#1116





awijshoff mentioned this issue on Dec 15, 2023

No CUDA toolset found Error even its Found CUDAToolkit withcatai/node-llama-cpp#122



3 tasks

jekeam commented 3 weeks ago • edited ▼

you just need to copy all the four files from C:\Program Files\NVIDIA GPU Computing Toolkit\CUDA\v11.7\extras\visual_studio_integration\MSBuildExtensions, and paste them to C:\Program Files (x86)\Microsoft Visual

Studio\2019\Enterprise\MSBuild\Microsoft\VC\v160\BuildCustomizations. These paths should be changed to your own.

Edit: If you do not have the VS IDE installed but are only using the build tools, say in conjunction with VS Code, the solution is about the same. The same directory exists inside of Visual Studio Build Tools:

C:\Program Files (x86)\Microsoft Visual

Studio\2019\BuildTools\MSBuild\Microsoft\VC\v160\BuildCustomizations

I placed those 4 files there and it solved my problem. Thank you.

My error: No CUDA toolset found

Solution:

I copied the four files from C:\Program Files\NVIDIA GPU Computing

Toolkit\CUDA\v12.1\extras\visual_studio_integration\MSBuildExtensions

And pasted into C:\Program Files\Microsoft Visual

Studio\2022\Community\MSBuild\Microsoft\VC\v170\BuildCustomizations



NicolasKritter mentioned this issue 2 weeks ago

GPU support dont works imartinez/privateGPT#1503



HankTheCrank commented 4 days ago

In case this helps someone else: I was running from an elevated PowerShell window which does not seem to use my account's environment variables. Once I ran in a normal PowerShell window, it all worked.

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А	SSI	q	n	е	es

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

No branches or pull requests

9 participants

















