

**git\_comments:**

1. VS 2015
2. VS 2017
3. !/usr/bin/env python -\*- coding: utf-8 -\*-
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**git\_commits:**

1. **summary:** [MXNET-769] Usability improvements to windows builds (#11947)  
**message:** [MXNET-769] Usability improvements to windows builds (#11947) \* Windows scripted build Adjust Jenkins builds to use ci/build\_windows.py Issues: #8714 #11100 #10166 #10049 \* Fix bug \* Fix non-portable ut \* add xunit

**github\_issues:**

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('node:', 'DESKTOP-VODR440') ('release:', '10') ('version:', '10.0.15063') -----Hardware Info-----
- ('machine:', 'AMD64') ('processor:', 'Intel64 Family 6 Model 158 Stepping 9, GenuineIntel') Name
Intel(R) Core(TM) i7-7700K CPU @ 4.20GHz -----Network Test----- Setting timeout: 10 Timing
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PYPI: https://pypi.python.org/pypi/pip, DNS: 0.0160 sec, LOAD: 0.5770 sec. Timing for FashionMNIST:
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<https://zh.gluon.ai>, DNS: 1.2210 sec, LOAD: 1.1330 sec. `` Package used (Python/R/Scala/Julia): (I'm using ...) For Scala user, please provide: 1. Java version: (`java -version`) 2. Maven version: (`mvn -version`) 3. Scala runtime if applicable: (`scala -version`) For R user, please provide R `sessionInfo()`: ## Build info (Required if built from source) Compiler (gcc/clang/mingw/visual studio): MXNet commit hash: (Paste the output of `git rev-parse HEAD` here.) Build config: (Paste the content of config.mk, or the build command.) ## Error Message: (Paste the complete error message, including stack trace.) error

C2668: "mshadow::cuda::IndexFill": 对重载函数的调用不明确

d:\cjsx\_project\mxnet\src\operator\tensor\ordering\_op-inl.h 414 error C2668:

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#### 7. **title:** win10 cuda8.0 vs2013 compile problem

**body:** Note: Providing complete information in the most concise form is the best way to get help. This issue template serves as the checklist for essential information to most of the technical issues and bug reports. For non-technical issues and feature requests, feel free to present the information in what you believe is the best form. For Q & A and discussion, please start a discussion thread at

<https://discuss.mxnet.io> ## Description (Brief description of the problem in no more than 2 sentences.) ##

Environment info (Required) win10, CUDA 8.0 GA1 (Sept 2016), vs2013(update5), CMake 3.10.0-rc5,

OpenBLAS-v0.2.14-Win64-int32, noOPENCV `` What to do: 1. Download the diagnosis script from

<https://raw.githubusercontent.com/apache/incubator-mxnet/master/tools/diagnose.py> 2. Run the script using `python diagnose.py` and paste its output here. -----Python Info----- ('Version:', '2.7.14')

('Compiler:', 'MSC v.1500 64 bit (AMD64)') ('Build:', ('default', 'Oct 15 2017 03:34:40')) ('Arch:', ('64bit', 'WindowsPE')) -----Pip Info----- ('Version:', '9.0.1') ('Directory:',

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Build info (Required if built from source) Compiler (gcc/clang/mingw/visual studio): MXNet commit

hash: (Paste the output of `git rev-parse HEAD` here.) Build config: (Paste the content of config.mk, or

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C2668: "mshadow::cuda::IndexFill": 对重载函数的调用不明确

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#### 8. **title:** win10 cuda8.0 vs2013 compile problem

**body:** Note: Providing complete information in the most concise form is the best way to get help. This issue template serves as the checklist for essential information to most of the technical issues and bug reports. For non-technical issues and feature requests, feel free to present the information in what you believe is the best form. For Q & A and discussion, please start a discussion thread at <https://discuss.mxnet.io> ## Description (Brief description of the problem in no more than 2 sentences.) ## Environment info (Required) win10, CUDA 8.0 GA1 (Sept 2016) ,vs2013(update5), CMake 3.10.0-rc5, OpenBLAS-v0.2.14-Win64-int32 ,noOPENCV `` What to do: 1. Download the diagnosis script from <https://raw.githubusercontent.com/apache/incubator-mxnet/master/tools/diagnose.py> 2. Run the script using `python diagnose.py` and paste its output here. -----Python Info----- ('Version:', '2.7.14') ('Compiler:', 'MSC v.1500 64 bit (AMD64)') ('Build:', ('default', 'Oct 15 2017 03:34:40')) ('Arch:', ('64bit', 'WindowsPE')) -----Pip Info----- ('Version:', '9.0.1') ('Directory:', 'C:\ProgramData\Anaconda2\lib\site-packages\pip') -----MXNet Info----- No MXNet installed. -----System Info----- ('Platform:', 'Windows-10-10.0.15063') ('system:', 'Windows') ('node:', 'DESKTOP-VODR440') ('release:', '10') ('version:', '10.0.15063') -----Hardware Info----- - ('machine:', 'AMD64') ('processor:', 'Intel64 Family 6 Model 158 Stepping 9, GenuineIntel') Name Intel(R) Core(TM) i7-7700K CPU @ 4.20GHz -----Network Test----- Setting timeout: 10 Timing for MXNet: <https://github.com/apache/incubator-mxnet>, DNS: 0.0030 sec, LOAD: 2.1560 sec. Timing for PYPI: <https://pypi.python.org/pypi/pip>, DNS: 0.0160 sec, LOAD: 0.5770 sec. Timing for FashionMNIST: <https://apache-mxnet.s3-accelerate.dualstack.amazonaws.com/gluon/dataset/fashion-mnist/train-labels-idx1-ubyte.gz>, DNS: 0.0480 sec, LOAD: 1.5730 sec. Timing for Conda: <https://repo.continuum.io/pkgs/free/>, DNS: 0.2040 sec, LOAD: 0.8270 sec. Timing for Gluon Tutorial(en): <http://gluon.mxnet.io>, DNS: 0.5800 sec, LOAD: 0.4390 sec. Timing for Gluon Tutorial(cn): <https://zh.gluon.ai>, DNS: 1.2210 sec, LOAD: 1.1330 sec. `` Package used (Python/R/Scala/Julia): (I'm using ...) For Scala user, please provide: 1. Java version: (`java -version`) 2. Maven version: (`mvn -version`) 3. Scala runtime if applicable: (`scala -version`) For R user, please provide R `sessionInfo()`: ## Build info (Required if built from source) Compiler (gcc/clang/mingw/visual studio): MXNet commit hash: (Paste the output of `git rev-parse HEAD` here.) Build config: (Paste the content of config.mk, or the build command.) ## Error Message: (Paste the complete error message, including stack trace.) error C2668: “mshadow::cuda::IndexFill”: 对重载函数的调用不明确

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9. **title:** win10 cuda8.0 vs2013 compile problem

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10. **title:** win10 cuda8.0 vs2013 compile problem

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```

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# 11. **title:** win10 cuda8.0 vs2013 compile problem

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idx1-ubyte.gz, DNS: 0.0480 sec, LOAD: 1.5730 sec. Timing for Conda:  
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 d:\cjsx\_project\mxnet\src\operator\tensor\indexing\_op.h 731 ## Minimum reproducible example (If you  
 are using your own code, please provide a short script that reproduces the error. Otherwise, please provide  
 link to the existing example.) win10, CUDA 8.0 GA1 (Sept 2016) ,vs2013(update5), CMake 3.10.0-rc5,  
 OpenBLAS-v0.2.14-Win64-int32 ,noOPENCV ## Steps to reproduce (Paste the commands you ran that  
 produced the error.) 1.environment: win10, CUDA 8.0 GA1 (Sept 2016) ,vs2013(update5), CMake 3.10.0-  
 rc5, OpenBLAS-v0.2.14-Win64-int32 ,noOPENCV 2.error C2668: "mshadow::cuda::IndexFill": 对重载  
 函数的调用不明确 d:\cjsx\_project\mxnet\src\operator\tensor\ordering\_op-inl.h 414 error C2668:  
 "mshadow::cuda::AddTakeGrad": 对重载函数的调用不明确  
 d:\cjsx\_project\mxnet\src\operator\tensor\indexing\_op.h 496 error C2668:  
 "mshadow::cuda::AddTakeGrad": 对重载函数的调用不明确  
 d:\cjsx\_project\mxnet\src\operator\tensor\indexing\_op.h 731 ## What have you tried to solve it? 1. 2.

## github\_issues\_comments:

1. @yajiedesign
2. do you update submodule?
3. I clone recursively the latest version today.I reappeared it on three computer. I try the openblas-v0.2.14-win64-int64, same as
4. include submodule? try use vs2015.
5. better just install via pip if you are not going to modify the source ``pip install mxnet-cu80``
6. For the same code, vs2015 is OK. vs2013 error.
7. @apache/mxnet-committers: This issue has been inactive for the past 90 days. It has no label and needs triage. For general "how-to" questions, our [user forum](<https://discuss.mxnet.io/>) (and [Chinese version](<https://discuss.gluon.ai/>)) is a good place to get help.
8. Hi @junxigauss are you still facing this issue? @nswamy can you add this as 'Windows, 'installation'
9. @nswamy when you add the labels you may want to remove the "Needs Triage" label :)

## github\_pulls:

1. **title:** [MXNET-769] Usability improvements to windows builds  
**body:** ## Description ## This PR makes it a single command to build MXNet in windows. Adjusts CI to use the windows build script Greatly simplifies the windows build and test logic, making it contained on the MXNet repository and able to reproduce locally with ease. #8714 #11100 #10166 #10049 ## Checklist ## ### Essentials ### Please feel free to remove inapplicable items for your PR. - [x] The PR title starts with [MXNET-\$JIRA\_ID], where \$JIRA\_ID refers to the relevant [JIRA issue](<https://issues.apache.org/jira/projects/MXNET/issues>) created (except PRs with tiny changes) - [x] Changes are complete (i.e. I finished coding on this PR) - [x] All changes have test coverage: - Unit tests are added for small changes to verify correctness (e.g. adding a new operator) - Nightly tests are added for complicated/long-running ones (e.g. changing distributed kvstore) - Build tests will be added for build configuration changes (e.g. adding a new build option with NCCL) - [x] Code is well-documented: - For user-facing API changes, API doc string has been updated. - For new C++ functions in header files, their functionalities and arguments are documented. - For new examples, README.md is added to explain the

what the example does, the source of the dataset, expected performance on test set and reference to the original paper if applicable - Check the API doc at [http://mxnet-ci-doc.s3-accelerate.dualstack.amazonaws.com/PR-\\$PR\\_ID/\\$BUILD\\_ID/index.html](http://mxnet-ci-doc.s3-accelerate.dualstack.amazonaws.com/PR-$PR_ID/$BUILD_ID/index.html) - [x] To the my best knowledge, examples are either not affected by this change, or have been fixed to be compatible with this change

#### github\_pulls\_comments:

1. Awesome!
2. @Chancebair
3. @KellenSunderland @lebeg
4. Comments will be addressed in a future PR

#### github\_pulls\_reviews:

1. Is this addition needed? Looks like you only removed from this file.
2. **body:** Should be two spaces between defs.  
**label:** code-design
3. Don't need this line, info is default.
4. @KellenSunderland Python disagrees: `` pllarroy@186590d670bd:0:~\$ python Python 2.7.15 (default, May 1 2018, 16:44:37) [GCC 4.2.1 Compatible Apple LLVM 9.0.0 (clang-900.0.39.2)] on darwin Type "help", "copyright", "credits" or "license" for more information. >>> import logging >>> logging.info("Hi Kellen") >>> >>> ``
5. it's needed for get\_mxnet\_root
6. Ahh, sorry. Default is warning.
7. Would it be possible to bring it into the same format as our runtime functions on unix where we have all runtime functions (builds and tests) defined in that one file and it then goes into multiple branches? This allows us to be consistent in the methodology and you can see everything by looking at one file.
8. That looks nice!
9. Should we maybe take "Visual Studio 14 2015 Win64" and put it into a constant at the top? This will allow us to see which compilers we're aiming for.
10. Would it be possible to use a built-in python mechanism to compress the files opposed to requiring 7zip as a dependency?
11. **body:** Could you add some documentation here? I don't understand what nix\_build means here - my first thought would be "unix based build", but that wouldn't make sense in this context  
**label:** documentation
12. **body:** Shall we maybe print a message when we auto-assume a path? Otherwise the error might say that C:\mxnet\openblas is missing although it actually means that people didn't set OpenBLAS\_HOME properly. It might confuse users when they think it has to be at a specific path.  
**label:** code-design
13. Ah, now I get it. But why are we offering unix compilation in a file which is only for windows compilation? Seems like we're mixing concerns here a bit.
14. What happens if a user runs this script two times in a row? Would it override during unpacking, skip silently or throw an error? It seems like there is a hard requirement for the 7z file here, although some people might want to compile themselves and then just run the tests
15. **body:** Do you think it makes sense to auto-detect the path (maybe from PATH) instead of hardcoding it?  
**label:** code-design
16. Are you changing the behaviour here? It seems like we are not writing to model/ but into the root.
17. it works as expected, tar is not available on windows. The test would fail otherwise.
18. good point, I would like to address this in the future, also when we update to vs2017. I tested locally and worked fine.
19. possibly. We were using 7z before, seems it's more widespread in windows than targz. Didn't want to change this functionality ATM.
20. **body:** this code would be extended in the future, is supposed to be used only on windows for now and from CI, once it's ready for users we will add it to the documentation.  
**label:** documentation
21. **body:** This will be adressed in a future PR when we handle dependencies, right now is too much for a single PR.  
**label:** code-design

22. this is not exposed to users right now.
23. works fine.
24. I have the feeling is not easy to do so reliably. This makes sure you are in that virtualenv. Also difficult to set virtualenv from powershell. We can refine further, but I don't want to play with this any further ATM.
25. Do you know how to do this in powershell? it would take some time for marginal benefits right now. I'm open to do so in the future, but not inclined to do it further in this PR.
26. I mean that we are now extracting to a different path (the root of the mxnet source) opposed to the subdirectory "models".

**jira\_issues:**

1. **summary:** Windows installation improvements

**description:** Improvements to windows installation and Windows slaves on CI

**jira\_issues\_comments:**