

Clean Installation step-by-step:

1. Git Bash Installation (Included Screenshots)
2. ITK download [master] (Included Screenshots)
3. CMake setup (Included Screenshots)

CMake: ITK Toolkit Configuration and Project Generation (CMakeCache.txt)

4. VS 14 2015: BUILD-ALL (VS\_14\_2015\_OUTPUT.txt)

5. .../ITK\_bin/bin/Debug/ and .../ITK\_bin/lib/Debug/ contents.

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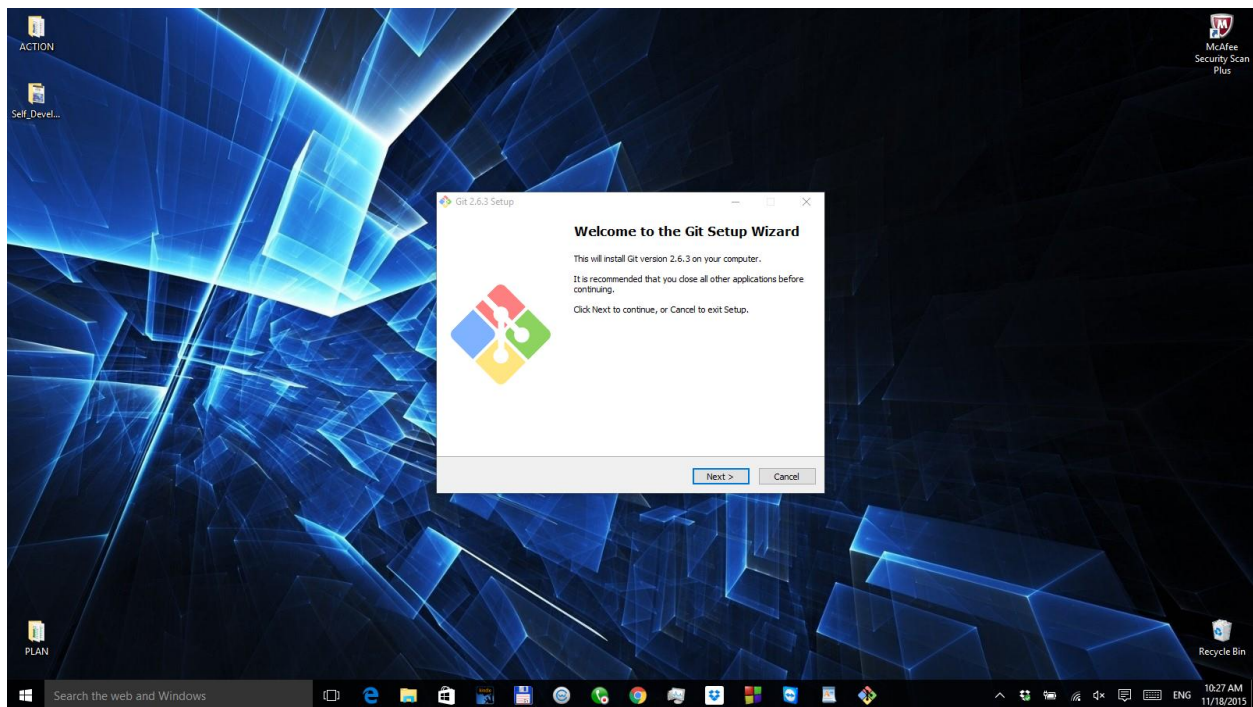
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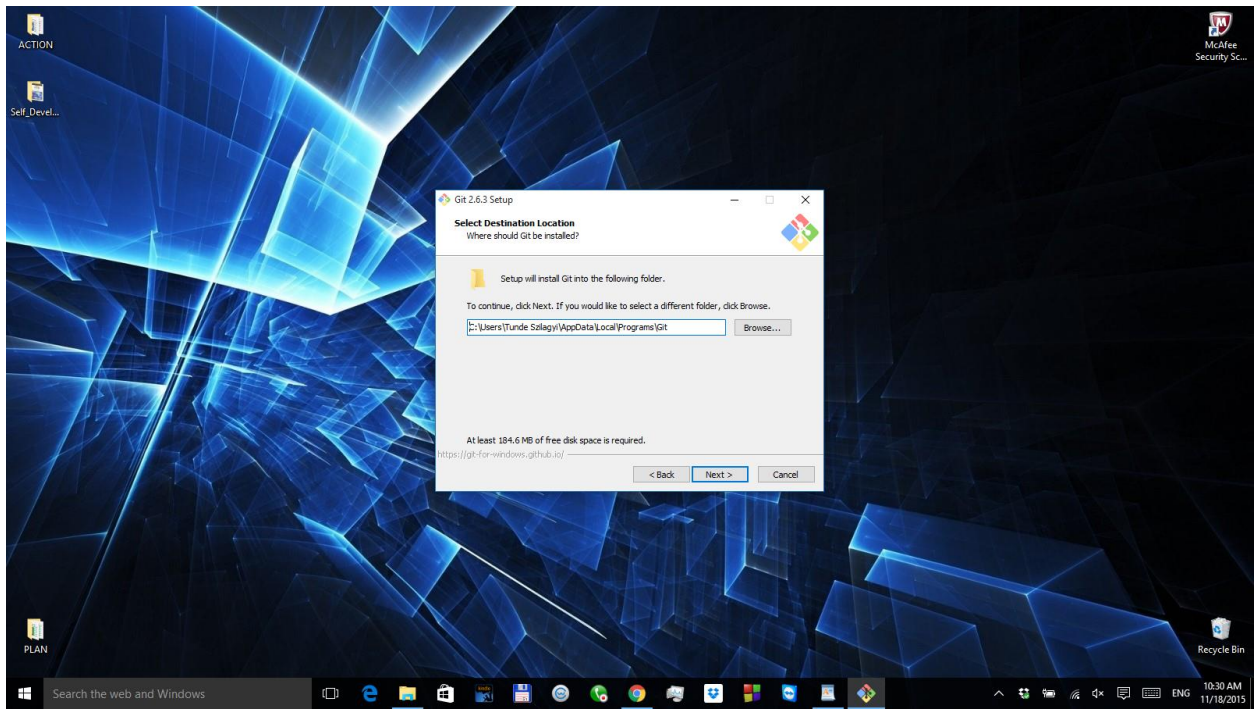
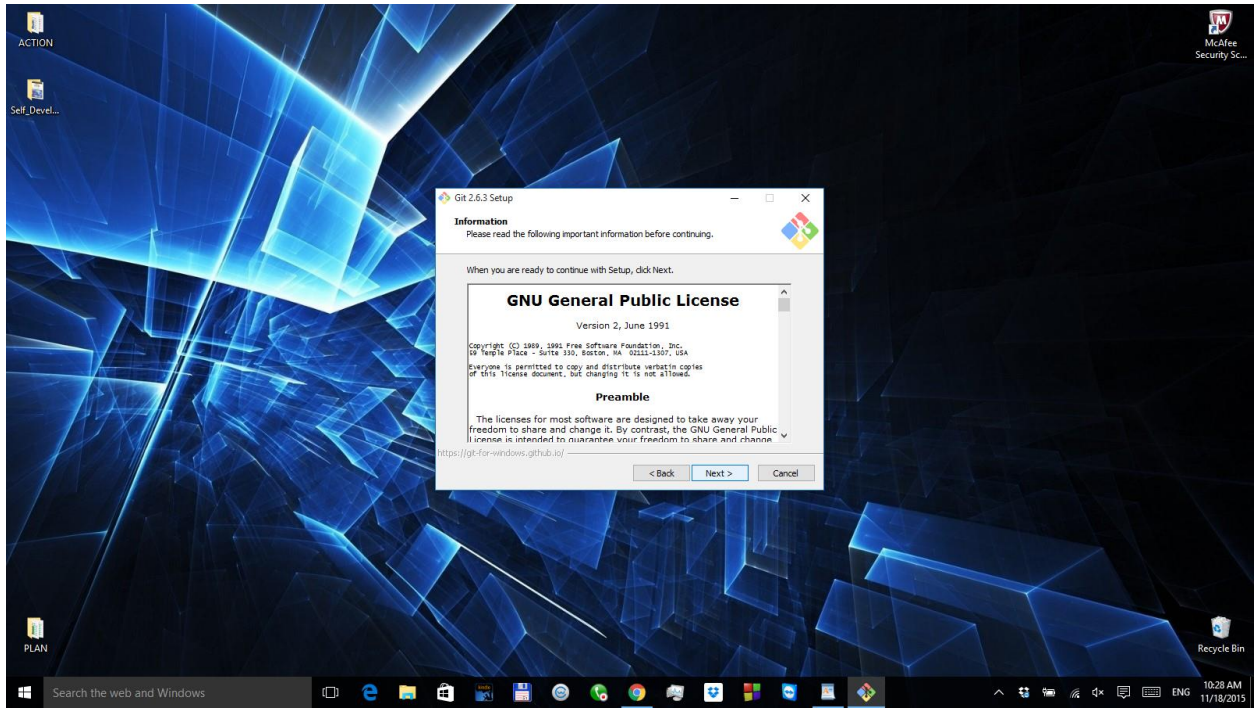
1. Git Bash Installation

source:

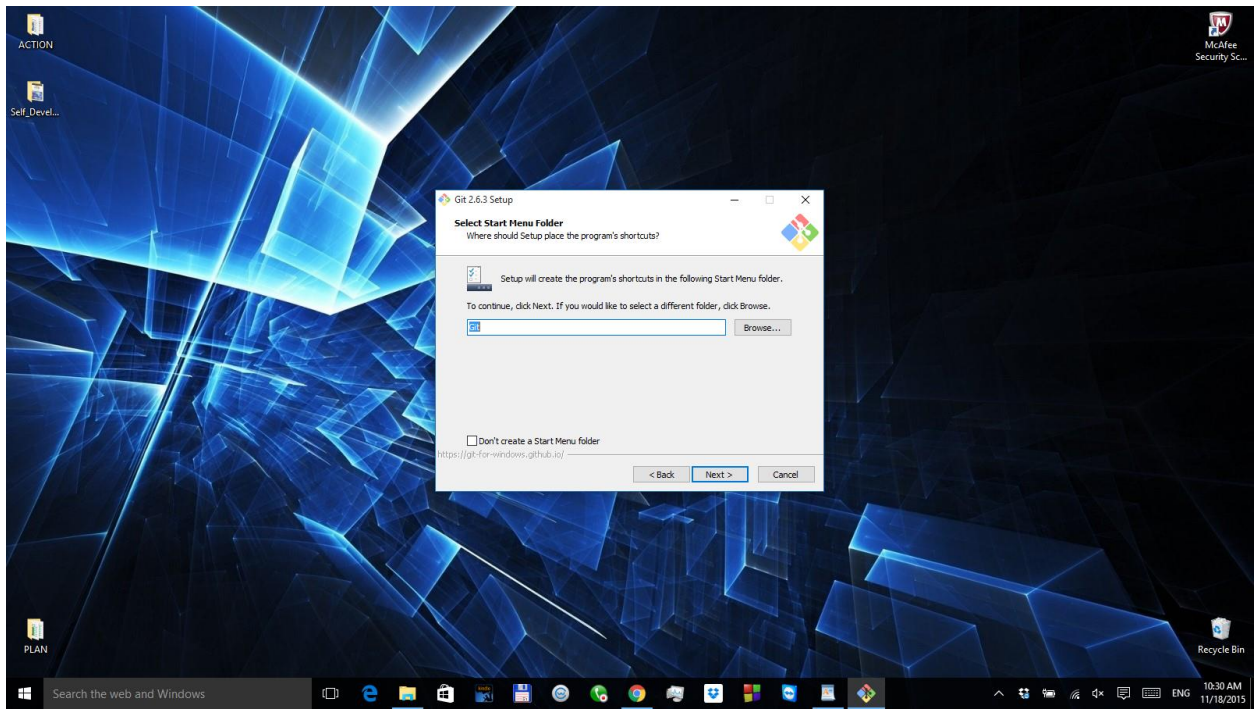
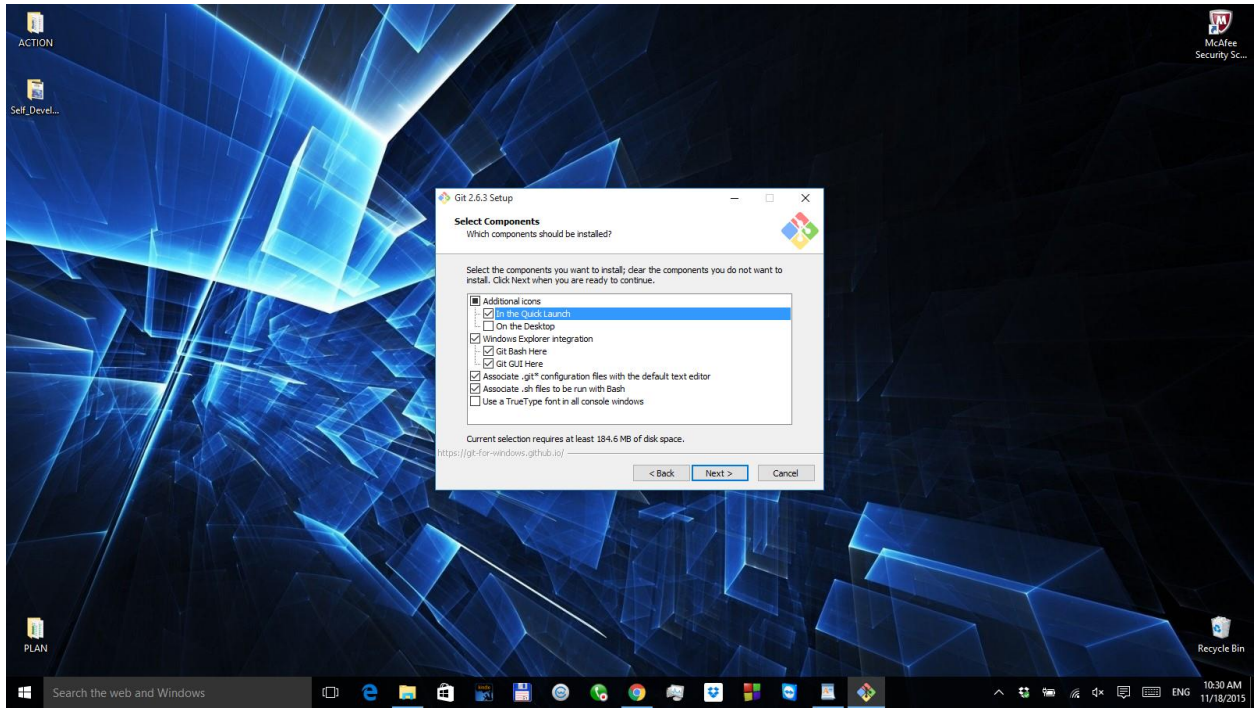
<https://git-for-windows.github.io/>

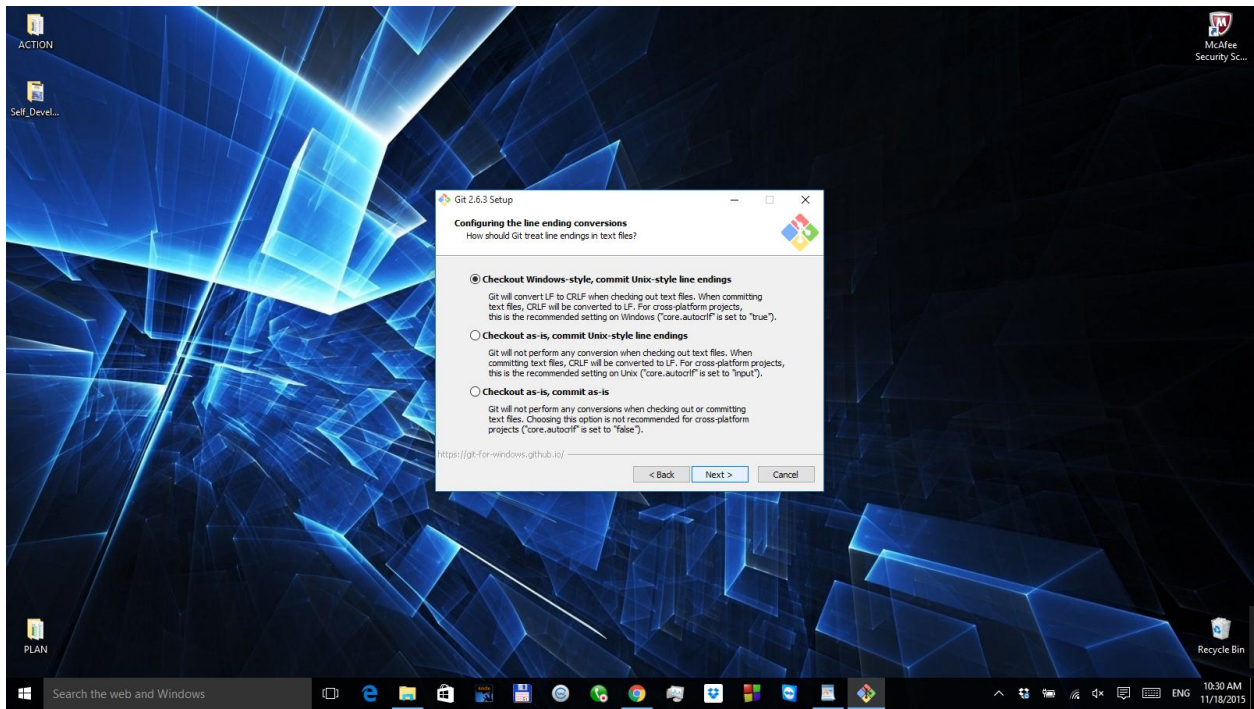
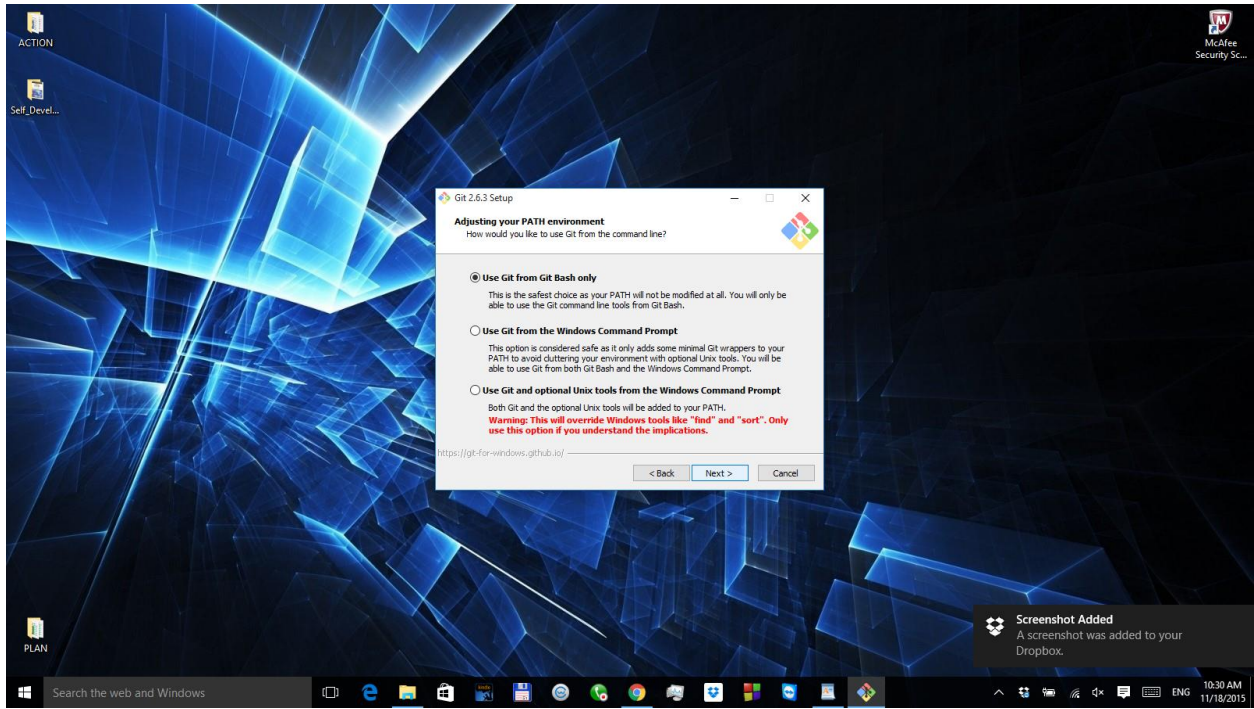
Git-2.6.3-64-bit.exe



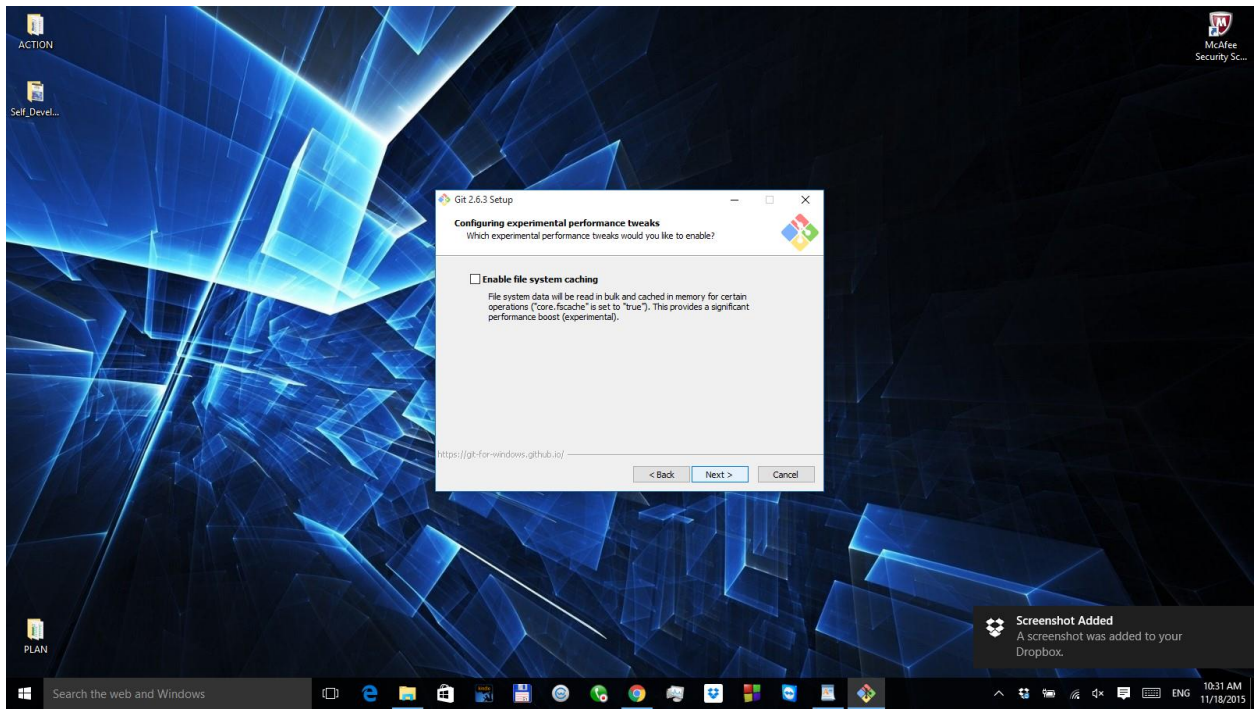
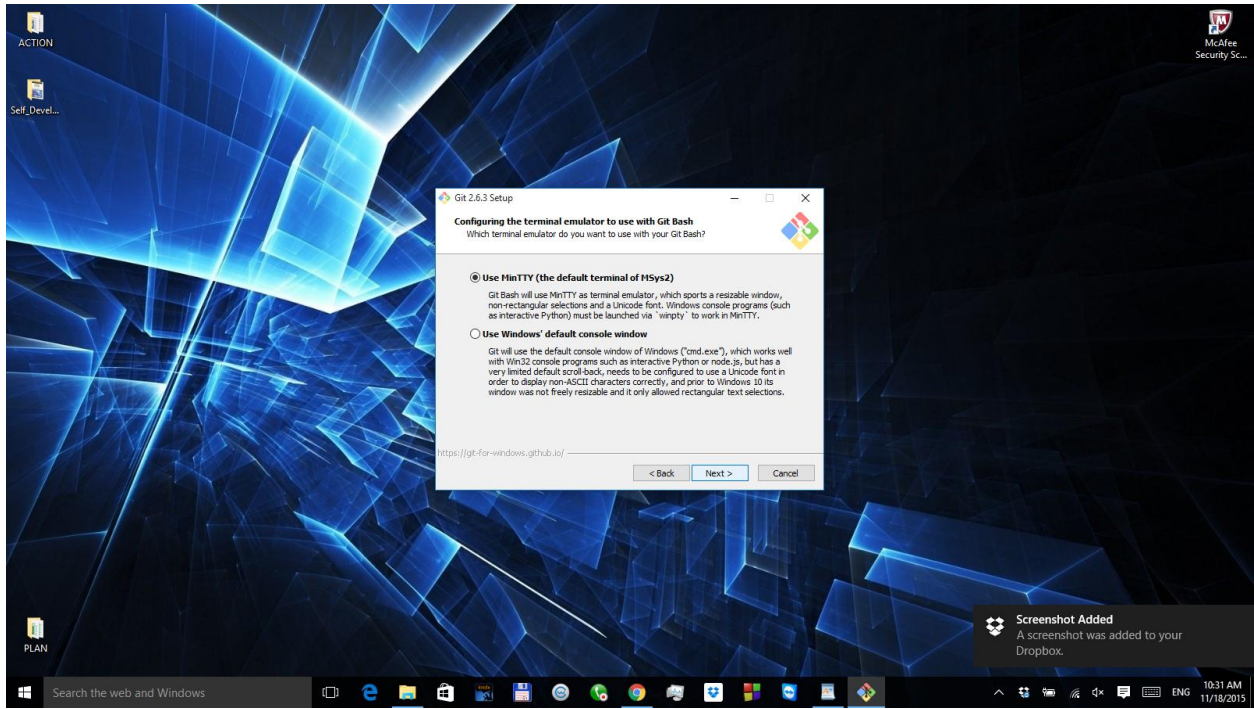


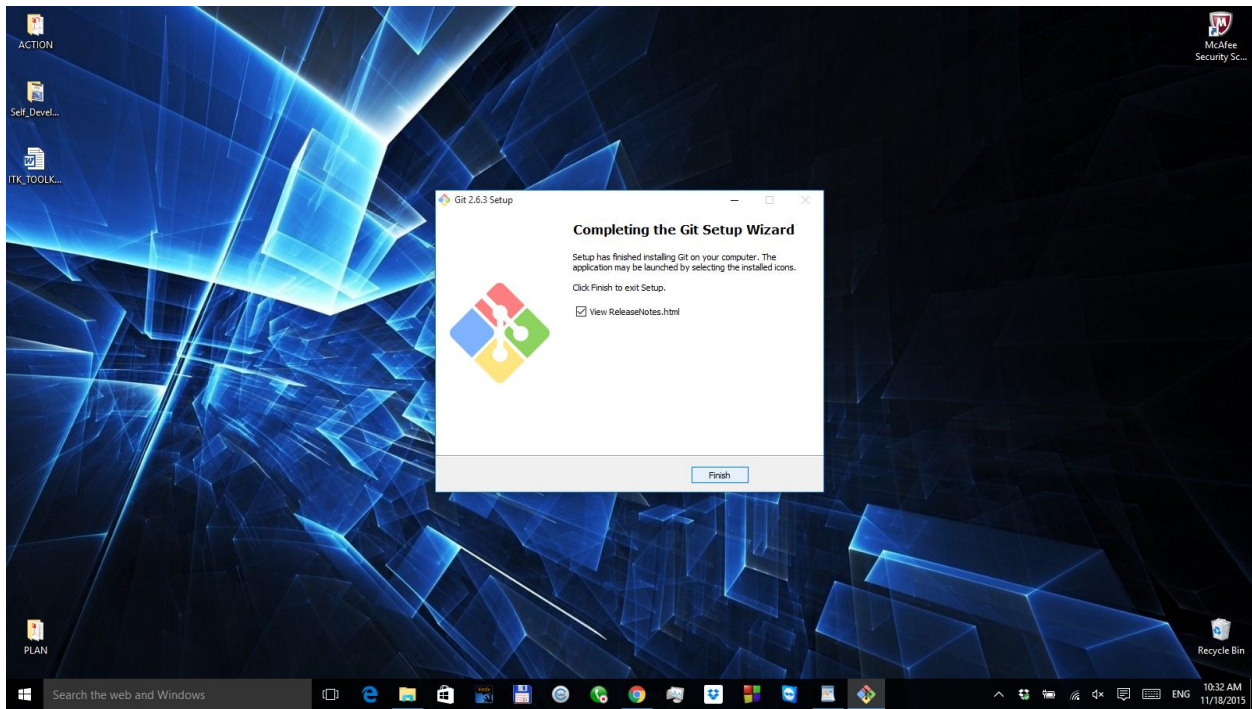










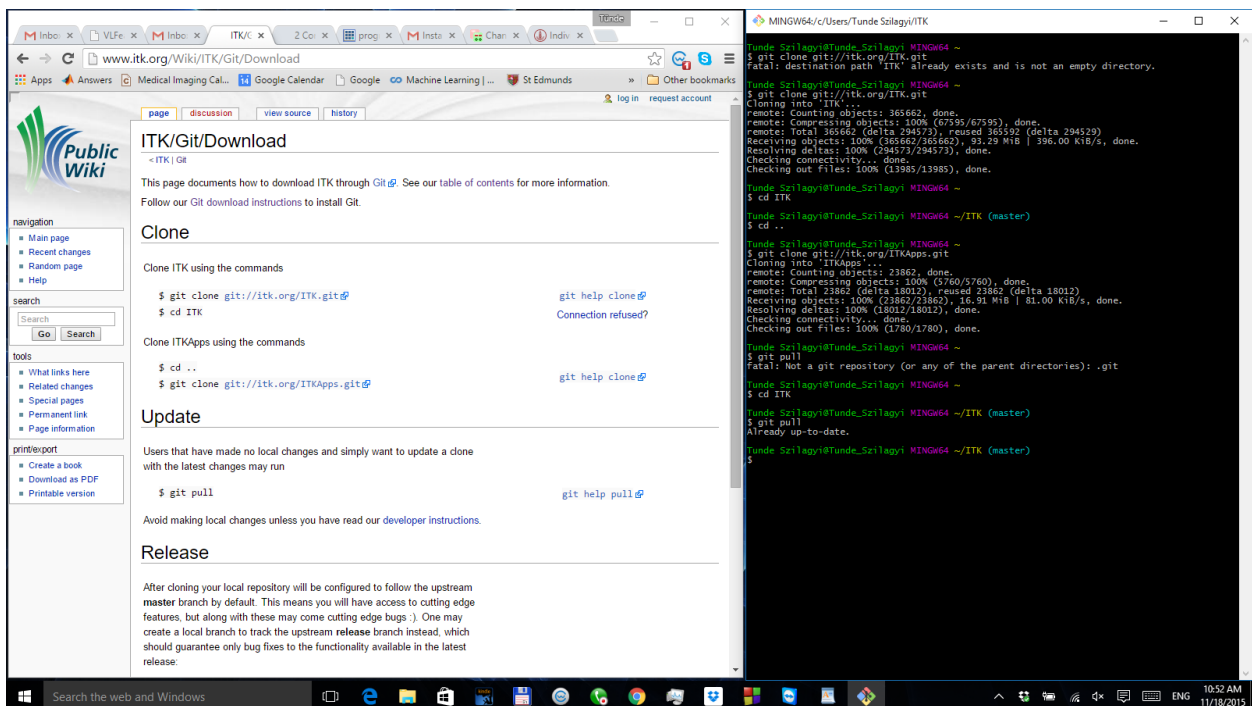


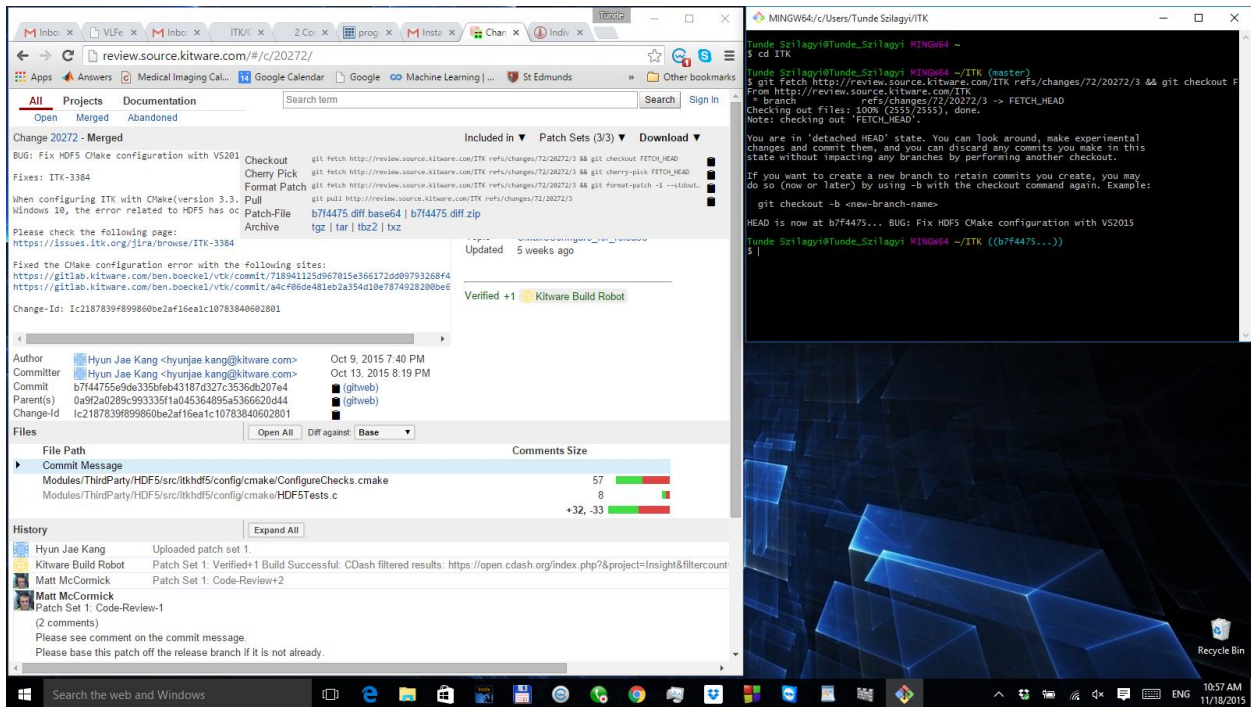
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## 2. ITK Toolkit Download

source:

<http://www.itk.org/Wiki/ITK/Git/Download>





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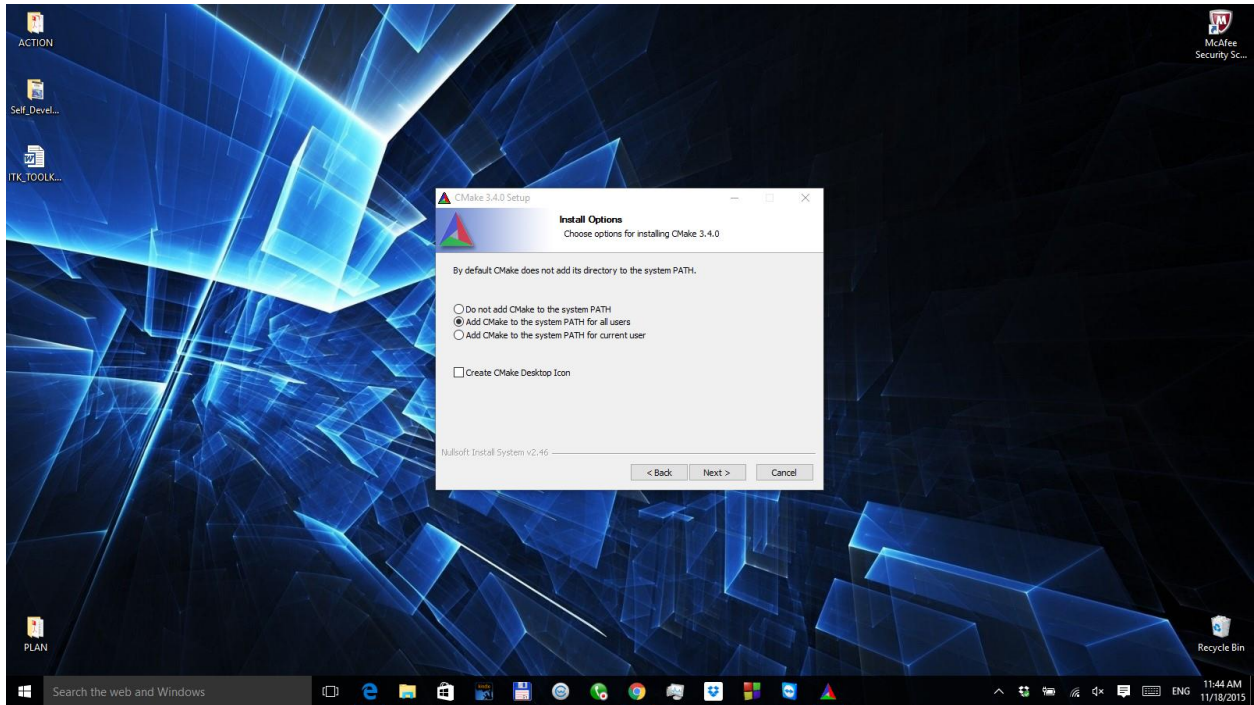
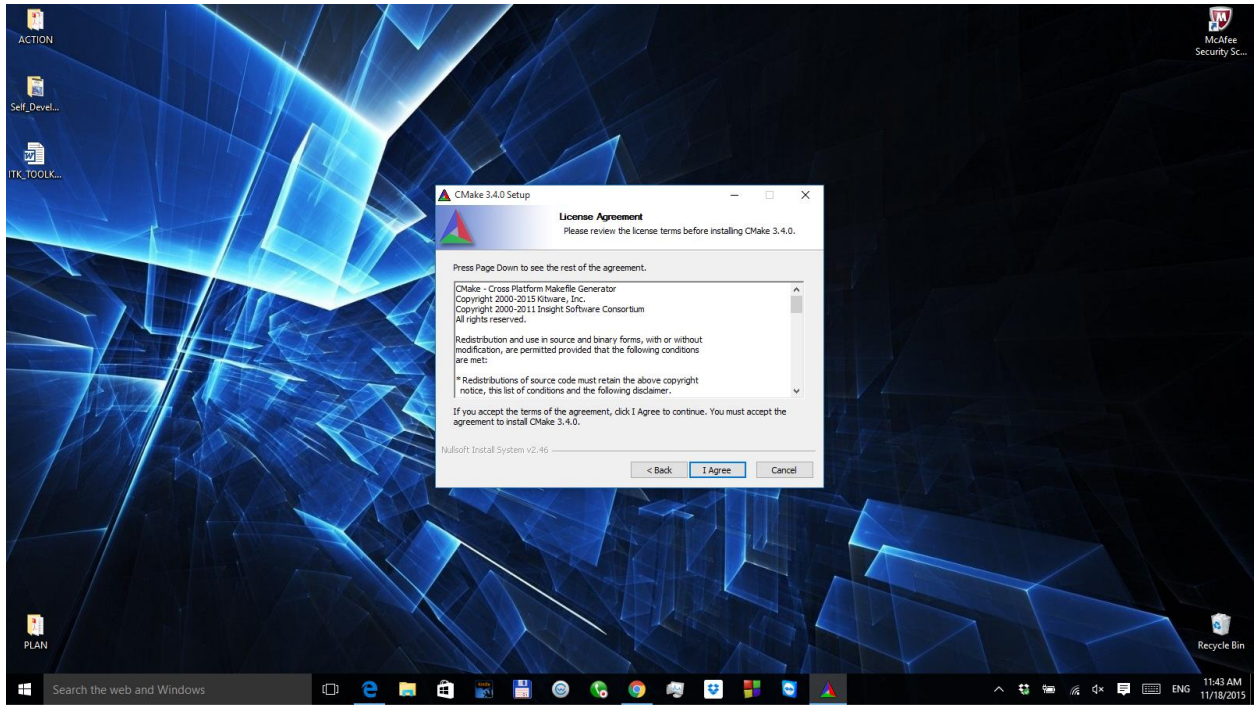
### 3. Download and Install CMake: configure and generate ITK Toolkit

source:

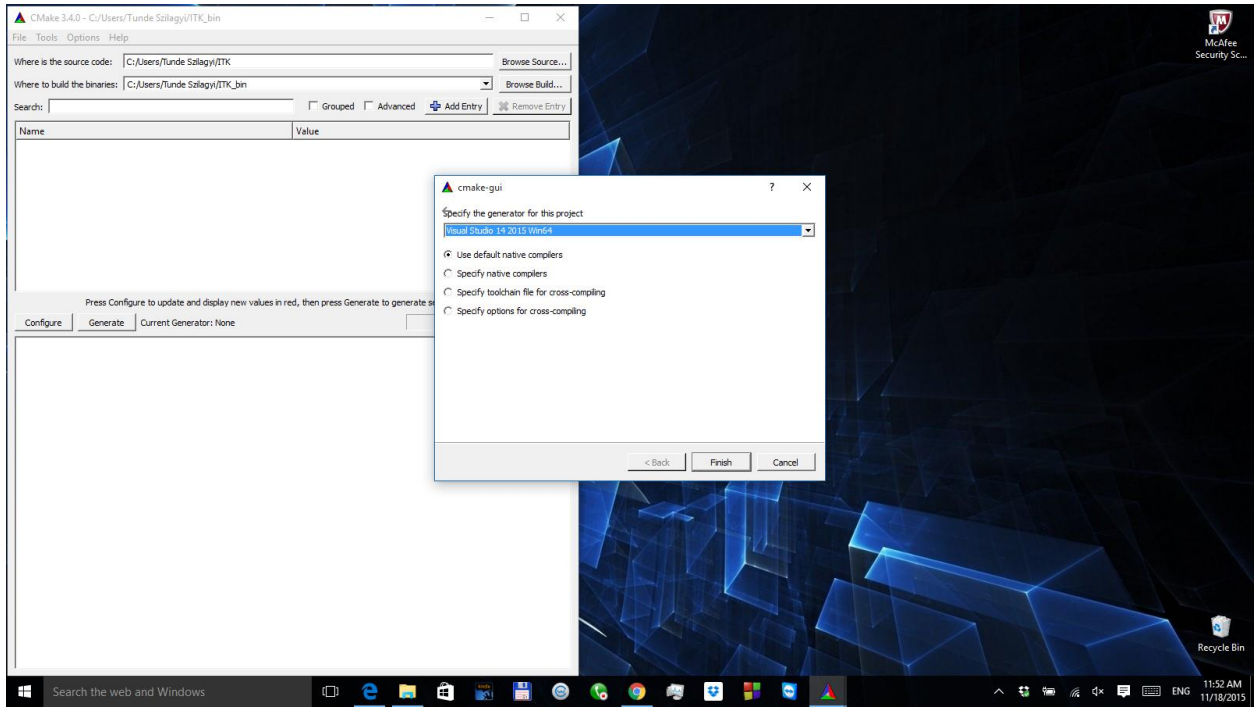
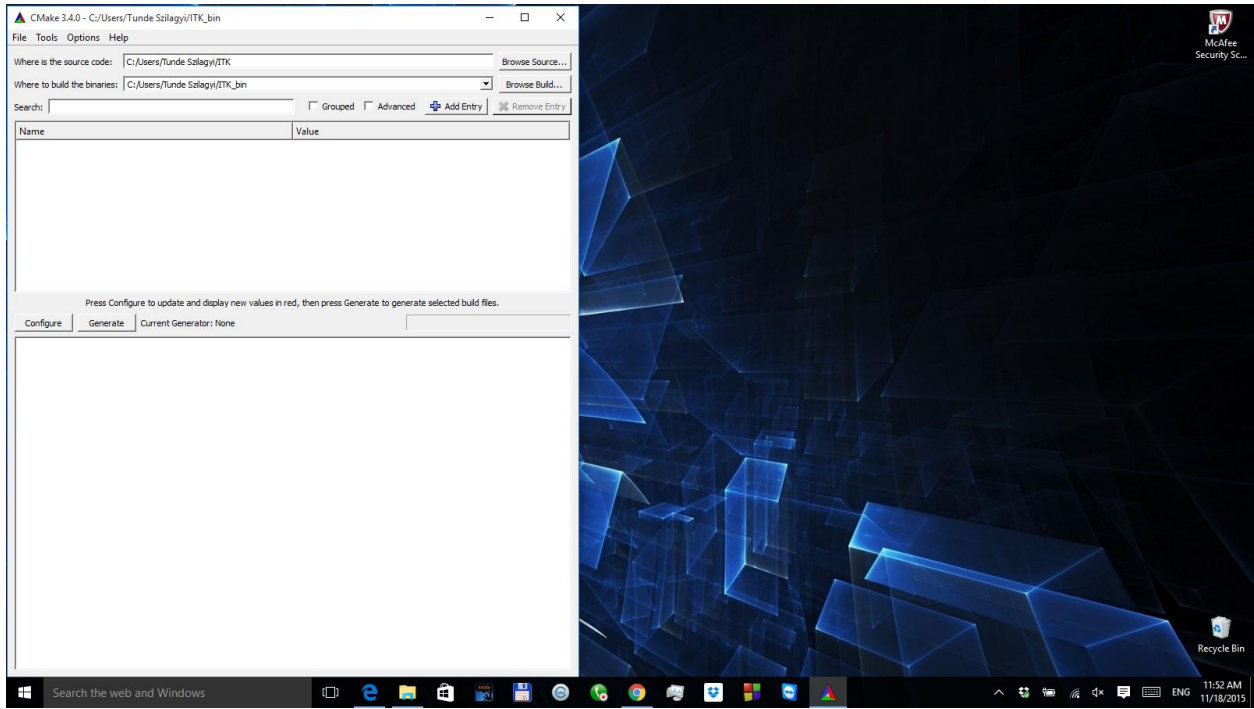
<https://cmake.org/download/>

Binary Distribution: cmake-3.4.0-win32-x86.exe









CMake 3.4.0 - C:/Users/Tunde Szilagy/ITK\_bin

File Tools Options Help

Where is the source code: C:/Users/Tunde Szilagy/ITK Browse Source...

Where to build the binaries: C:/Users/Tunde Szilagy/ITK\_bin Browse Build...

Search: [ ] Grouped [ ] Advanced [x] Add Entry [x] Remove Entry

| Name                      | Value                                   |
|---------------------------|---|
| BUILD_EXAMPLES            | <input type="checkbox"/>                |
| BUILD_SHARED_LIBS         | <input type="checkbox"/>                |
| CMAKE_CONFIGURATION_TYPES | Debug;Release;MinSizeRel;RelWithDebInfo |
| ITK_V3_COMPATIBILITY      | <input checked="" type="checkbox"/>     |
| ITK_BUILD_DEFAULT_MODULES | <input checked="" type="checkbox"/>     |
| ITK_WRAP_PYTHON           | <input type="checkbox"/>                |

Press Configure to update and display new values in red, then press Generate to generate selected build files.

Configure Generate Current Generator: Visual Studio 14 2015 Win64

```
Looking for stat64 - not found
Looking for sigsetjmp
Looking for sigsetjmp - not found
Looking for taname
Looking for taname - not found
Checking for InitOnceExecuteOnce - Success
Performing Test InitOnceExecuteOnce - Success
Performing Other Test INLINE_TEST__inline - Success
Performing Other Test INLINE_TEST__inline__ - Failed
Performing Other Test INLINE_TEST__inline - Success
Checking for appropriate format for 64 bit long:
HDFS: Checking for appropriate format for 64 bit long: found "i64"
checking IF converting from long double to integers is accurate... yes
Checking IF converting from long double to integers works... yes
checking IF accurately converting from integers to long double... yes
Checking IF accurately converting unsigned long to floating-point values... no
Checking IF accurately rounding converting floating-point to unsigned long values... yes
Checking IF correctly converting long double to unsigned int values... yes
Checking IF compiling long long to floating-point typecasts work... yes
Checking IF converting unsigned long long to long double with precision... no
Checking IF overflows normally converting floating-point to integer values... yes
Checking IF correctly converting long double to (unsigned) long long values... yes
Checking IF correctly converting (unsigned) long long to long double values... yes
Checking IF alignment restrictions are strictly enforced... yes
Filter ZLIB is ON
Could NOT find Perl (missing: PERL_EXECUTABLE)
Configuring done
```

CMake 3.4.0 - C:/Users/Tunde Szilagy/ITK\_bin

File Tools Options Help

Where is the source code: C:/Users/Tunde Szilagy/ITK Browse Source...

Where to build the binaries: C:/Users/Tunde Szilagy/ITK\_bin Browse Build...

Search: [ ] Grouped [ ] Advanced [x] Add Entry [x] Remove Entry

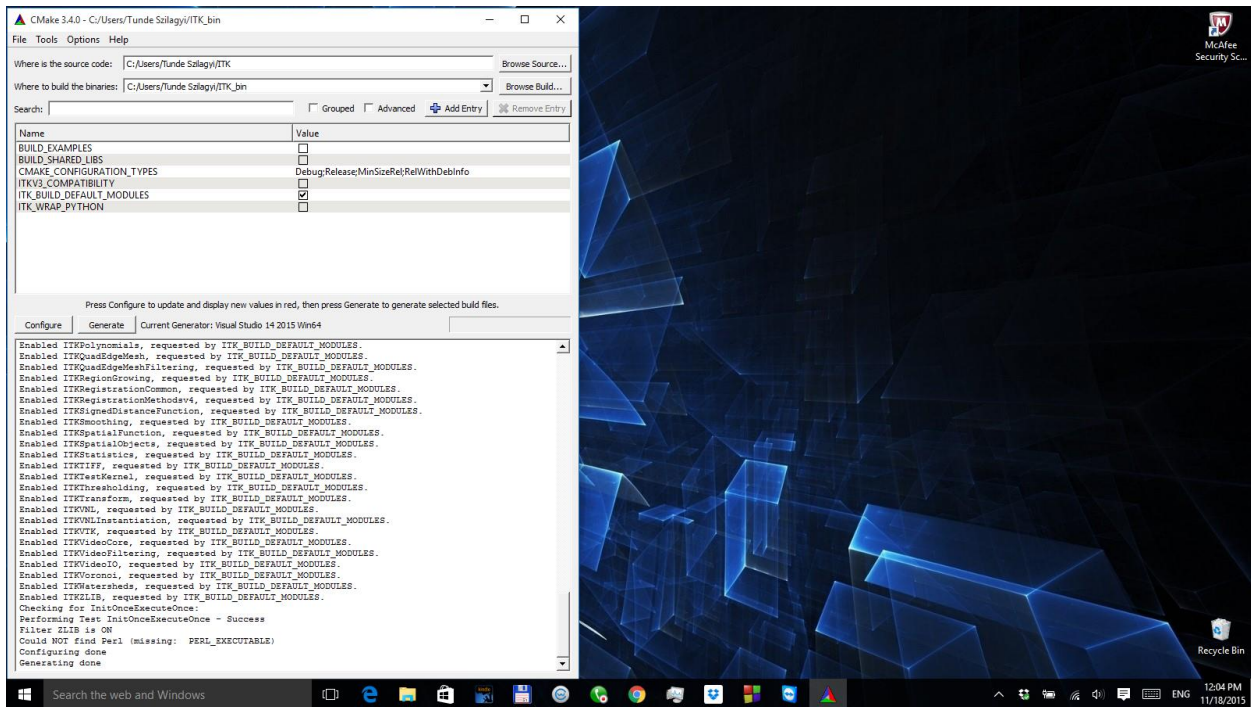
| Name                      | Value                                   |
|---------------------------|---|
| BUILD_EXAMPLES            | <input type="checkbox"/>                |
| BUILD_SHARED_LIBS         | <input type="checkbox"/>                |
| CMAKE_CONFIGURATION_TYPES | Debug;Release;MinSizeRel;RelWithDebInfo |
| ITK_V3_COMPATIBILITY      | <input checked="" type="checkbox"/>     |
| ITK_BUILD_DEFAULT_MODULES | <input checked="" type="checkbox"/>     |
| ITK_WRAP_PYTHON           | <input type="checkbox"/>                |

Press Configure to update and display new values in red, then press Generate to generate selected build files.

Configure Generate Current Generator: Visual Studio 14 2015 Win64

```
Enabled ITKPath, requested by ITK_BUILD_DEFAULT_MODULES.
Enabled ITKPolynomials, requested by ITK_BUILD_DEFAULT_MODULES.
Enabled ITKQuadEdgeMesh, requested by ITK_BUILD_DEFAULT_MODULES.
Enabled ITKQuadEdgeMeshFiltering, requested by ITK_BUILD_DEFAULT_MODULES.
Enabled ITKRegistration, requested by ITK_BUILD_DEFAULT_MODULES.
Enabled ITKRegistrationCommon, requested by ITK_BUILD_DEFAULT_MODULES.
Enabled ITKRegistrationMethodv4, requested by ITK_BUILD_DEFAULT_MODULES.
Enabled ITKSignedDistanceFunction, requested by ITK_BUILD_DEFAULT_MODULES.
Enabled ITKSmoothing, requested by ITK_BUILD_DEFAULT_MODULES.
Enabled ITKSpatialFunction, requested by ITK_BUILD_DEFAULT_MODULES.
Enabled ITKSpatialObjects, requested by ITK_BUILD_DEFAULT_MODULES.
Enabled ITKStatistics, requested by ITK_BUILD_DEFAULT_MODULES.
Enabled ITKTIFF, requested by ITK_BUILD_DEFAULT_MODULES.
Enabled ITKTestImage, requested by ITK_BUILD_DEFAULT_MODULES.
Enabled ITKThresholding, requested by ITK_BUILD_DEFAULT_MODULES.
Enabled ITKTransform, requested by ITK_BUILD_DEFAULT_MODULES.
Enabled ITKXML, requested by ITK_BUILD_DEFAULT_MODULES.
Enabled ITKXMLInstantiation, requested by ITK_BUILD_DEFAULT_MODULES.
Enabled ITKVideo, requested by ITK_BUILD_DEFAULT_MODULES.
Enabled ITKVideoCore, requested by ITK_BUILD_DEFAULT_MODULES.
Enabled ITKVideoFiltering, requested by ITK_BUILD_DEFAULT_MODULES.
Enabled ITKVideoIO, requested by ITK_BUILD_DEFAULT_MODULES.
Enabled ITKXorOps, requested by ITK_BUILD_DEFAULT_MODULES.
Enabled ITKwatersheds, requested by ITK_BUILD_DEFAULT_MODULES.
Enabled ITKZLIB, requested by ITK_BUILD_DEFAULT_MODULES.
Checking for InitOnceExecuteOnce - Success
Performing Test InitOnceExecuteOnce - Success
Filter ZLIB is ON
Could NOT find Perl (missing: PERL_EXECUTABLE)
Configuring done
```





Results in the respective folders:

| c:\Users\Tunde Szilagy\ITK_bin\bin\Debug\* |       |             |                  |      | c:\Users\Tunde Szilagy\ITK_bin\lib\Debug\* |       |            |                  |      |
|--|-------|-------------|------------------|------|--|-------|------------|------------------|------|
| Name                                       | Ext   | Size        | Date             | Attr | Name                                       | Ext   | Size       | Date             | Attr |
| [.]  | <DIR> |             | 11/18/2015 17:59 |      | [.]  | <DIR> |            | 11/18/2015 17:42 |      |
| ITKTransform Test Driver                   | ilk   | 54,512,988  | 11/18/2015 17:59 |      | itkAlgorithmsPrint Test                    | exp   | 7,990      | 11/18/2015 17:22 | a    |
| ITKTransform Test Driver                   | pdb   | 44,994,560  | 11/18/2015 17:59 | a    | itkAlgorithmsPrint Test                    | lib   | 14,020     | 11/18/2015 17:22 | a    |
| ITKTransform Test Driver                   | exe   | 21,840,896  | 11/18/2015 17:59 | a    | itkAlgorithmsPrint Test2                   | exp   | 7,993      | 11/18/2015 17:22 | a    |
| ITKRegistrationMethodsV4 Test Driver       | ilk   | 146,067,092 | 11/18/2015 17:59 | a    | itkAlgorithmsPrint Test2                   | lib   | 14,064     | 11/18/2015 17:22 | a    |
| ITKRegistrationMethodsV4 Test Driver       | pdb   | 93,081,600  | 11/18/2015 17:59 | a    | itkAlgorithmsPrint Test3                   | exp   | 7,993      | 11/18/2015 17:22 | a    |
| ITKRegistrationMethodsV4 Test Driver       | exe   | 40,144,384  | 11/18/2015 17:59 | a    | itkAlgorithmsPrint Test3                   | lib   | 14,064     | 11/18/2015 17:22 | a    |
| ITKVideoCore Test Driver                   | ilk   | 36,001,376  | 11/18/2015 17:58 | a    | itkAlgorithmsPrint Test4                   | exp   | 7,993      | 11/18/2015 17:22 | a    |
| ITKVideoCore Test Driver                   | pdb   | 38,498,304  | 11/18/2015 17:58 | a    | itkAlgorithmsPrint Test4                   | lib   | 14,064     | 11/18/2015 17:22 | a    |
| ITKVideoCore Test Driver                   | exe   | 17,906,688  | 11/18/2015 17:58 | a    | ITKBiasCorrection-4.8                      | lib   | 300,458    | 11/18/2015 17:20 | a    |
| ITKThresholding Test Driver                | ilk   | 70,748,896  | 11/18/2015 17:58 | a    | ITKBioCell-4.8                             | lib   | 3,266,492  | 11/18/2015 17:20 | a    |
| ITKThresholding Test Driver                | pdb   | 43,683,840  | 11/18/2015 17:58 | a    | ITKCommon1 Test Driver                     | exp   | 4,709      | 11/18/2015 17:26 | a    |
| ITKThresholding Test Driver                | exe   | 21,214,720  | 11/18/2015 17:58 | a    | ITKCommon1 Test Driver                     | lib   | 8,620      | 11/18/2015 17:26 | a    |
| ITKRegistrationCommon Test Driver          | ilk   | 116,075,796 | 11/18/2015 17:58 | a    | ITKCommon-4.8                              | lib   | 43,256,852 | 11/18/2015 17:18 | a    |
| ITKRegistrationCommon Test Driver          | pdb   | 79,368,192  | 11/18/2015 17:58 | a    | ITKDIOMPParser-4.8                         | lib   | 9,933,182  | 11/18/2015 16:52 | a    |
| ITKRegistrationCommon Test Driver          | exe   | 32,836,608  | 11/18/2015 17:58 | a    | itkdouble-conversion-4.8                   | lib   | 488,378    | 11/18/2015 16:48 | a    |
| ITKStatistics Test Driver                  | ilk   | 65,575,336  | 11/18/2015 17:57 | a    | ITKEXPAT-4.8                               | lib   | 536,394    | 11/18/2015 16:48 | a    |
| ITKStatistics Test Driver                  | pdb   | 57,167,872  | 11/18/2015 17:57 | a    | ITKFEM-4.8                                 | lib   | 24,751,998 | 11/18/2015 17:21 | a    |
| ITKStatistics Test Driver                  | exe   | 23,918,080  | 11/18/2015 17:57 | a    | ITKFEMRegistration Test Driver             | exp   | 16,770     | 11/18/2015 17:27 | a    |
| ITKTestKernel Test Driver                  | ilk   | 34,084,932  | 11/18/2015 17:55 | a    | ITKFEMRegistration Test Driver             | lib   | 28,952     | 11/18/2015 17:27 | a    |
| ITKTestKernel Test Driver                  | pdb   | 37,040,128  | 11/18/2015 17:55 | a    | ITKFEM Test Driver                         | exp   | 16,742     | 11/18/2015 17:31 | a    |
| ITKTestKernel Test Driver                  | exe   | 17,567,744  | 11/18/2015 17:55 | a    | ITKFEM Test Driver                         | lib   | 28,076     | 11/18/2015 17:31 | a    |
| ITKSpatialObjects Test Driver              | ilk   | 65,875,596  | 11/18/2015 17:55 | a    | itkgdcmcharls-4.8                          | lib   | 3,160,452  | 11/18/2015 16:51 | a    |
| ITKSpatialObjects Test Driver              | pdb   | 55,767,040  | 11/18/2015 17:55 | a    | itkgdcmCommon-4.8                          | lib   | 6,230,168  | 11/18/2015 16:49 | a    |
| ITKSpatialObjects Test Driver              | exe   | 23,024,640  | 11/18/2015 17:54 | a    | itkgdcmDICT-4.8                            | lib   | 8,219,086  | 11/18/2015 16:52 | a    |
| ITKSmoothing Test Driver                   | ilk   | 41,675,804  | 11/18/2015 17:53 | a    | itkgdcmDSED-4.8                            | lib   | 40,285,256 | 11/18/2015 16:51 | a    |
| ITKSmoothing Test Driver                   | pdb   | 43,438,080  | 11/18/2015 17:53 | a    | itkgdcmIOD-4.8                             | lib   | 6,778,548  | 11/18/2015 16:52 | a    |
| ITKSmoothing Test Driver                   | exe   | 20,030,976  | 11/18/2015 17:53 | a    | itkgdcmjpeg12-4.8                          | lib   | 806,428    | 11/18/2015 16:49 | a    |
| ITKSpatialFunction Test Driver             | ilk   | 33,291,348  | 11/18/2015 17:53 | a    | itkgdcmjpeg16-4.8                          | lib   | 807,058    | 11/18/2015 16:50 | a    |
| ITKSpatialFunction Test Driver             | pdb   | 36,532,224  | 11/18/2015 17:53 | a    | itkgdcmjpeg8-4.8                           | lib   | 804,864    | 11/18/2015 16:51 | a    |
| ITKSpatialFunction Test Driver             | exe   | 17,350,656  | 11/18/2015 17:52 | a    | itkgdcmMEXD-4.8                            | lib   | 56,876,292 | 11/18/2015 17:18 | a    |
| ITKSignedDistanceFunction Test Driver      | ilk   | 34,003,276  | 11/18/2015 17:52 | a    | itkgdcmMSFF-4.8                            | lib   | 90,797,944 | 11/18/2015 17:17 | a    |
| ITKSignedDistanceFunction Test Driver      | pdb   | 37,425,152  | 11/18/2015 17:52 | a    | itkgdcmopenjpeg-4.8                        | lib   | 928,718    | 11/18/2015 16:51 | a    |
| ITKSignedDistanceFunction Test Driver      | exe   | 17,702,912  | 11/18/2015 17:52 | a    | itkgdcmsocketxx-4.8                        | lib   | 1,187,254  | 11/18/2015 16:52 | a    |
| ITKRegionGrowing Test Driver               | ilk   | 38,717,632  | 11/18/2015 17:52 | a    | ITKgiftio-4.8                              | lib   | 367,404    | 11/18/2015 16:52 | a    |
| ITKRegionGrowing Test Driver               | pdb   | 39,596,032  | 11/18/2015 17:52 | a    | itkhw5-con-4.8                             | lib   | 6,648,650  | 11/18/2015 16:52 | a    |