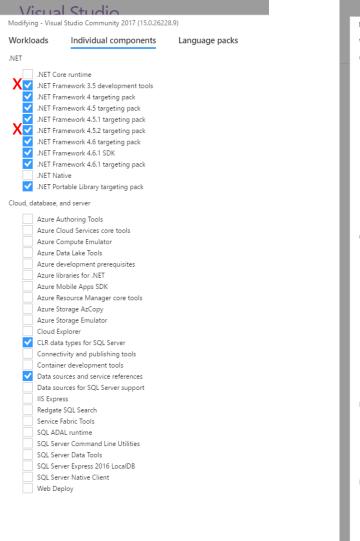
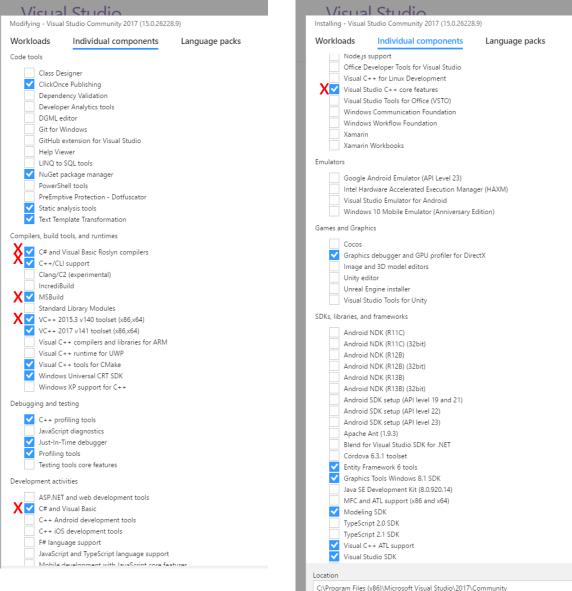


Download Visual Studio 2017 Community





 Make sure that the highlighted components are selected (required because our main development platform is VS 2015)



## Visual Studio

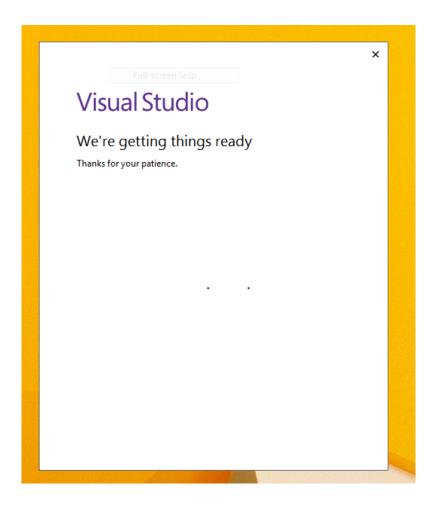
Products		
Installed  Visual Studio Community 2017		Welcome!  We invite you to go online to hone your skills and find additional tools to support your development workflow.
Acquiring Microsoft.VisualStudio.Debugger.Remote 17% Applying Microsoft.ServiceHub 1%		Learn Whether you're new to development or an experienced developer, we have you covered with our tutorials, videos, and sample code.
Cancel Available		Marketplace Use Visual Studio extensions to add support for new technologies, integrate with other products and services, and fine-tune your experience.
Visual Studio Enterprise 2017  Microsoft DevOps solution for productivity and coordination across teams of any size	Visual Studio Professional 2017  Professional developer tools and services for small teams	Need some help? Check out the Microsoft Developer Community where developers provide feedback and answers to many common problems.
License terms   Release notes (15.0.26228.9)	License terms   Release notes (15.0.26228.9)	Get help from Microsoft at Visual Studio Support
		1.5.30308.1

Visual Studio 2017 is getting installed

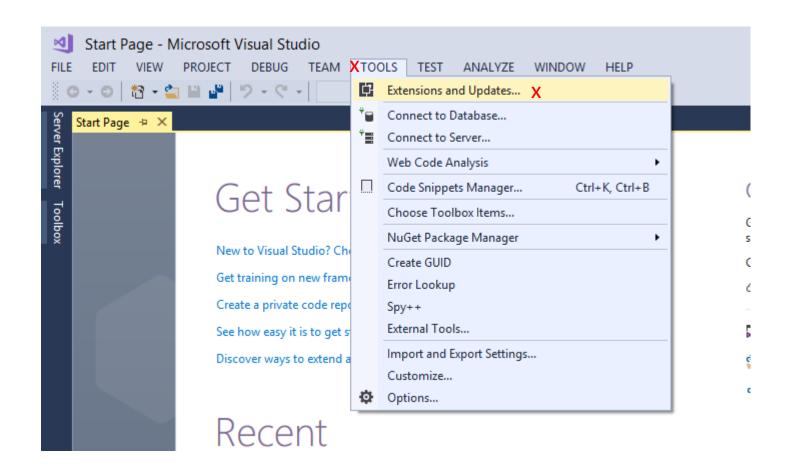
## Microsoft Build Tools 2015



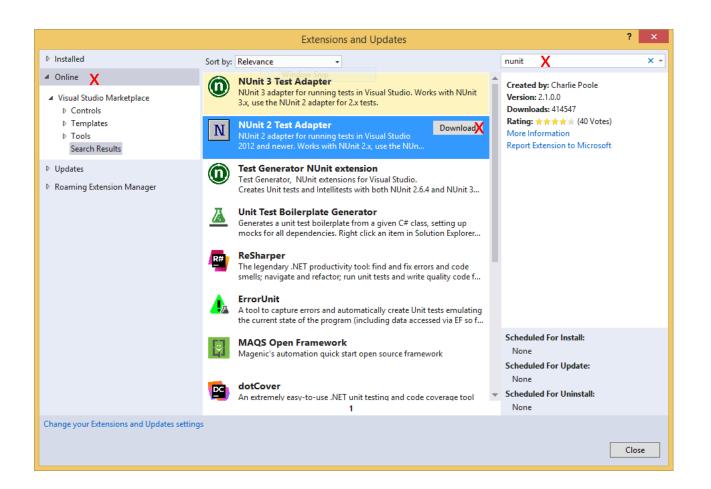
 Download Microsoft Build Tools 2015 from <u>https://www.microsoft.com/en-us/download/details.aspx?id=48159</u> (required because our main development platform is VS 2015)



• Start Visual Studio



Open Tools -> Extensions and Updates

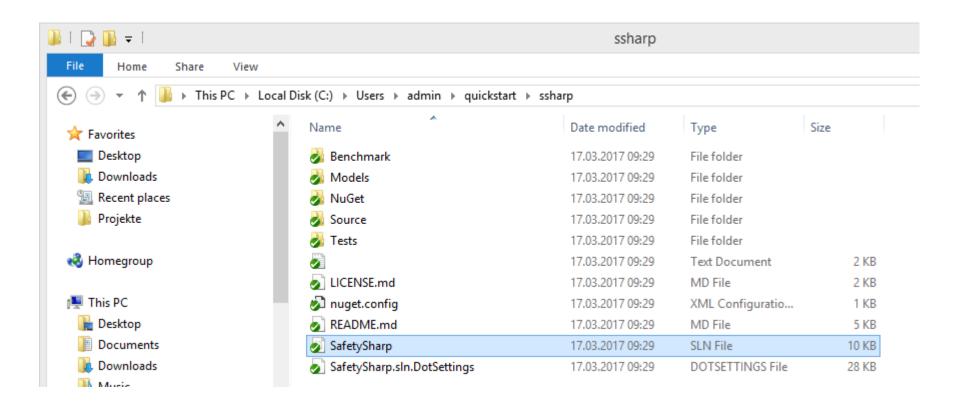


- Select "Online"
- search for "nunit" on the right
- Download Nunit 2 Test Adapter

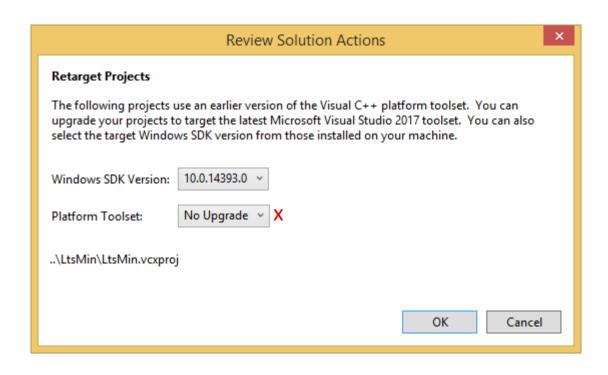
```
Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.

C:\Users\admin\quickstart\git clone https://github.com/isse-augsburg/ssharp.git Cloning into 'ssharp'...
remote: Counting objects: 18713, done.
remote: Compressing objects: 190% (78/78), done.
Receiving objects: 3% (562/18713)
```

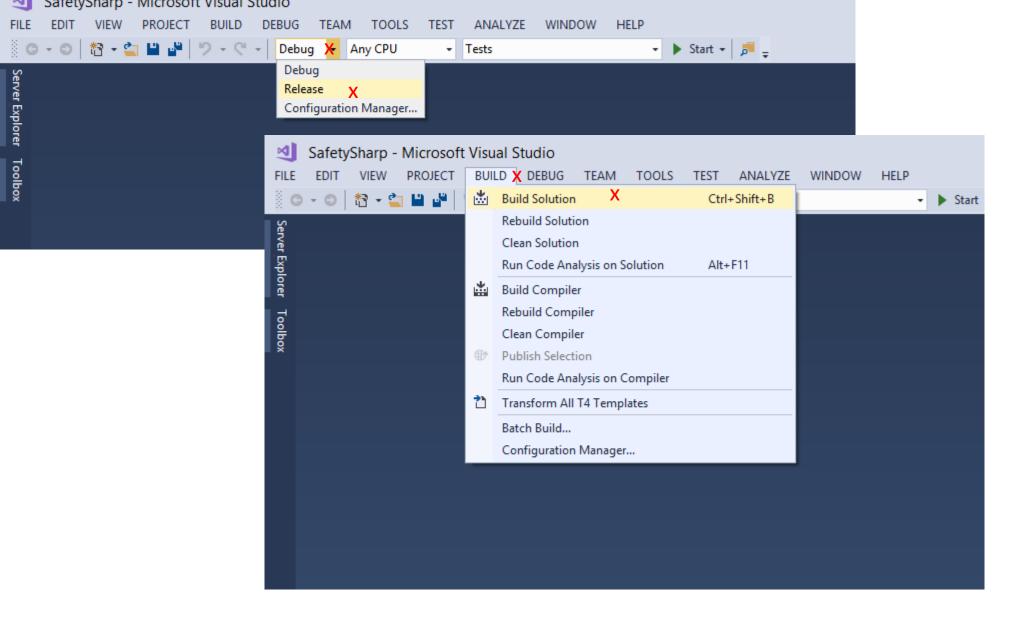
- Download our git repositiory from https://github.com/isse-augsburg/ssharp.git
- You can use your favorite git tool for that



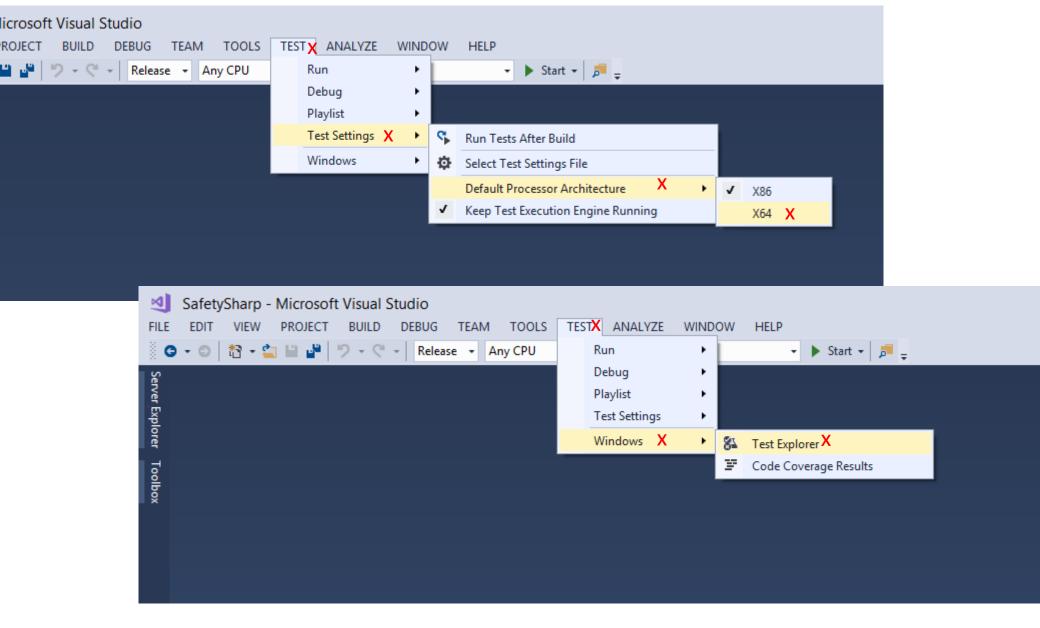
Open the SafetySharp.sln solution file



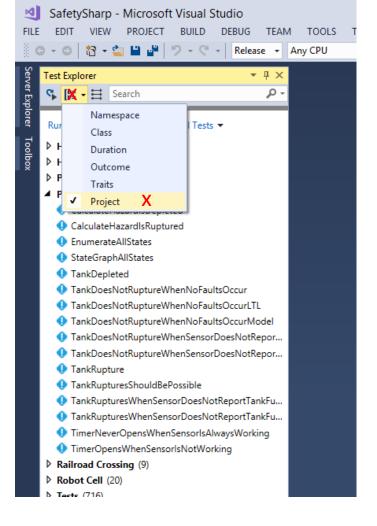
 Select Platform Toolset "No Upgrade" (required because our main development platform is VS 2015)



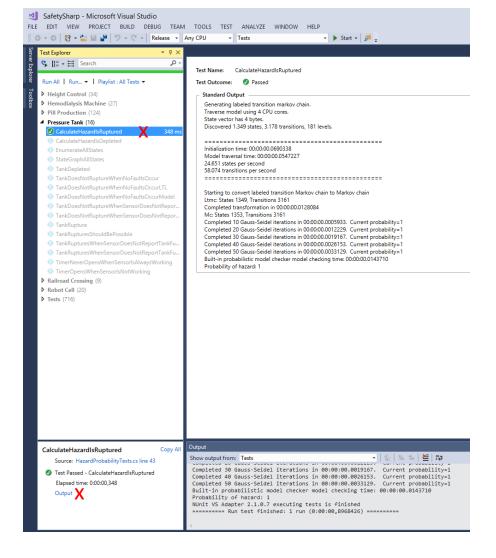
 Select "Release" and run "Build->Build Solution" to create an optimized build



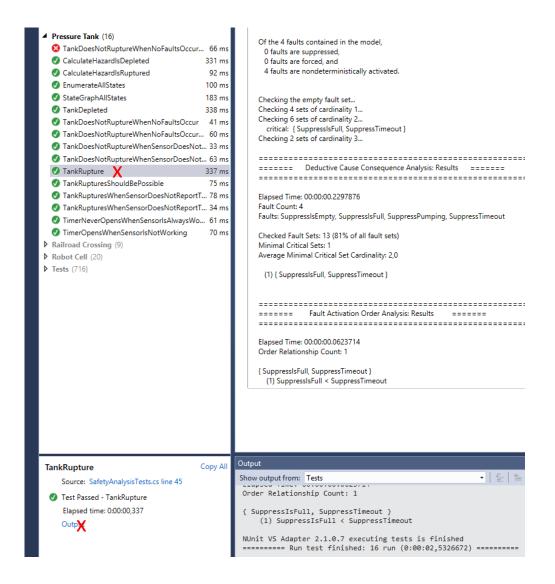
- Select X64 as processor architecture for the tests
- Open the Test Explorer



- Sort the test cases by project
- You may need to restart Visual Studio to see all projects in the test explorer



- Right click on "CalculateProbability…, and select "run…" to conduct a quantitative analysis
- The hazard probability is shown in the main windows after clicking "Output"



- Right click on "CalculateProbability..." and select "run..." to conduct a DCCA analysis
- The minimal cut sets are shown in the main windows after clicking "Output"