

## EduMIPS Simulator Setup

### Steps to build EduMIPS64 from Source on ECE Lab Workstations (Windows)

1. Download the “ECSE425\_Project.zip” folder from Mycourses.  
It contains the manual, some example benchmarks and two folders:  
EduMIPS simulator  
Apache Ant (v1.10.5)
2. Unzip the compressed folders to a new folder “Tools” in your work drive (e.g. G:/ drive in ECE Lab Workstations)
3. Go to Start Menu, search for – “Edit environment variables for your account”
4. Add two new variables **ANT\_HOME** and **JAVA\_HOME** as follows –

ANT_HOME	G:\Tools\apache-ant-1.10.5-bin\apache-ant-1.10.5
AWP_LOCALE191	en-us
Home	P:\
JAVA_HOME	C:\Program Files\Java\jdk1.8.0_171

Find the PATH variable and select new and add the following two lines

%JAVA_HOME%\bin
%ANT_HOME%\bin

5. Go to start menu and search for Command Prompt (cmd)  
Go to your work drive by  
**G:**  
Type the following commands to ensure that the Java path and ANT path are set correctly  
**java -version**  
**ant -version**
6. Now use cd to go to the EduMIPS folder (shown below)
7. And run the following command  
**ant svnjar**

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P:\>G:

G:\>java -version
java version "1.8.0_171"
Java(TM) SE Runtime Environment (build 1.8.0_171-b11)
Java HotSpot(TM) 64-Bit Server VM (build 25.171-b11, mixed mode)

G:\>ant -version
Apache Ant(TM) version 1.10.5 compiled on July 10 2018

G:\>cd Tools
G:\Tools>cd edumips64-0.5.3

G:\Tools\edumips64-0.5.3>ant svnjar
Buildfile: G:\Tools\edumips64-0.5.3\build.xml

init:
[mkdir] Created dir: G:\Tools\edumips64-0.5.3\edumips
[mkdir] Created dir: G:\Tools\edumips64-0.5.3\edumips\edumips64\img
[mkdir] Created dir: G:\Tools\edumips64-0.5.3\edumips\edumips64\data
[mkdir] Created dir: G:\Tools\edumips64-0.5.3\edumips\edumips64\utils
[mkdir] Created dir: G:\Tools\edumips64-0.5.3\edumips\edumips64\help
[mkdir] Created dir: G:\Tools\edumips64-0.5.3\edumips\edumips64\help_en
[mkdir] Created dir: G:\Tools\edumips64-0.5.3\edumips\edumips64\help_it

svnjar:
[javac] G:\Tools\edumips64-0.5.3\build.xml:64: warning: 'includeantruntime' was not set, defaulting to build.sysclasspath=last; set to false for repeatable builds
[javac] Compiling 161 source files to G:\Tools\edumips64-0.5.3\edumips
[javac]
[javac] WARNING
[javac]
[javac] The -source switch defaults to 1.8 in JDK 1.8.
[javac] If you specify target 5 you now must also specify -source 5.
[javac] Ant will implicitly add -source 5 for you. Please change your build file.
[javac] Note: Some input files use unchecked or unsafe operations.
[javac] Note: Recompile with -Xlint:unchecked for details.

makeGUIJar:
[copy] Copying 25 files to G:\Tools\edumips64-0.5.3\edumips\edumips64\help\en\html
[copy] Copying 5 files to G:\Tools\edumips64-0.5.3\edumips\edumips64\help\en
[copy] Copying 26 files to G:\Tools\edumips64-0.5.3\edumips\edumips64\help\it\html
[copy] Copying 4 files to G:\Tools\edumips64-0.5.3\edumips\edumips64\help\it\img
[copy] Copying 4 files to G:\Tools\edumips64-0.5.3\edumips\edumips64\help\en\img
[copy] Copying 5 files to G:\Tools\edumips64-0.5.3\edumips\edumips64\help\it
[copy] Copying 21 files to G:\Tools\edumips64-0.5.3\edumips\edumips64\img
[copy] Copying 8 files to G:\Tools\edumips64-0.5.3\edumips\edumips64\data
[copy] Copying 2 files to G:\Tools\edumips64-0.5.3\edumips\edumips64\utils
[copy] Copying 137 files to G:\Tools\edumips64-0.5.3\edumips\com
[copy] Copying 198 files to G:\Tools\edumips64-0.5.3\edumips\javax
[jar] Building jar: G:\Tools\edumips64-0.5.3\edumips64-svn.jar
[signjar] Signing 188: G:\Tools\edumips64-0.5.3\edumips64-svn.jar to G:\Tools\edumips64-0.5.3\edumips64-svn.jar as edumips64
[signjar] jar signed.
[signjar]
[signjar] Warning:
[signjar] The signer certificate has expired.
[signjar] No -tsa or -tsacert is provided and this jar is not timestamped. Without a timestamp, users may not be able to validate this jar after the signer certificate's expiration date (2011-07-09) or after any future revocation date.

[delete] Deleting directory G:\Tools\edumips64-0.5.3\edumips

BUILD SUCCESSFUL
Total time: 0 seconds

```

- The simulator would be built in the same EduMIPS folder as “edumips64-svn.jar”