

GUITAR setup, Unix/Linux version:

1. Download / install Ant, the Java JDK, and Subversion (SVN).
 - In a terminal window, type "sudo apt-get install build-essential ant subversion sun-java6-jdk openjdk-6-jdk". This should install the applications necessary.

2. Download the individual GUITAR tools.
 - "https://guitar.svn.sourceforge.net/svnroot/guitar/GUITAR.tool/ GUITAR.tool"

This set of commands will download the four Java tools from the GUITAR repository, along with the central application to run all of them (GUITAR.tool), and place them in a folder called "GUITAR.tool".

3. Build the tools and the necessary files.
 - "cd GUITAR.tool"
 - "ant -f build.xml modules"
 - This command calls the ant compiler to run on the build.xml file. The "modules" target tells the compiler to build all of the necessary files for all of the GUITAR modules.

You are now ready to begin running the GUITAR applications.

4. Ensure you are still in the GUITAR.tool directory, then run the GUIRipper.
 - To run the ripper, enter the following:
"ant -Dproperties=jfcripper.properties -f jfcripper.xml"
 - The -Dproperties switch tells the compiler to use the designated file to control the compilation properties.
 - The program should begin executing, and a GUI window should appear in the upper left corner of your screen. The ripper should progress through the screen, clicking every combination of buttons available to it and recording information about them.
 - After the program finishes, there should be a file called "Project.GUI.xml" in the current directory.
5. Run the GUI to EFG converter.
 - "ant -Dproperties=GUIStructure2GraphConvert.properties -f GUIStructure2GraphConvert.xml"
 - After this program finishes, you should have a file in the current directory called "Project.EFG.xml".
6. Run the TestCaseGenerator.
 - "ant -Dproperties=TestCaseGenerator.properties -f TestCaseGenerator.xml"
 - This program will create a folder called "TC" in the current directory and populate it with test cases that run through the possible ways the GUI can be manipulated.
7. Finally, run the GUIReplayer.
 - This one is much more complicated than the previous tools, because you need to manually specify which test cases you want to run by editing the jfcreplayer.properties file.
 - Within the file, there is a line that reads (by default):
application.testcase-file=t_e37_e5 tst,t_e13_e15 tst,t_e11_e14 tst,t_e46_e8 tst
 - This line specifies which test cases you want to run. You need to look in the TC directory at the *.tsp files in there, and select some (or all) of them to run. When you have decided, copy their names into the properties file using the format specified in the above line (commas between files, no extra spaces) after the "application.testcase-file=".
 - Once you have modified the properties file, use the following command to execute the replayer:
"ant -Dproperties=jfcreplayer.properties -f jfcreplayer.xml"
 - The replayer should now proceed to execute the test cases specified in the properties file. The GUI window from the ripper should pop up, and you can watch as the replayer clicks a few buttons and scrolls through some menus. Depending on how many test cases you added, this process could be very long.

You have now completed the Linux execution of GUITAR.