**To run the tests:**

In order to run an experiment, the following steps should be followed:

* Create a folder to collect all the scripts needed for the experiment execution. For instance, call it “*/scriptsIE*”
  + Copy all the files from the folder “*scripts/expExecution*” to the newly created folder “*/scriptsIE*” , except the file *runtest\_exp.sh.*
* Create a folder for the experiment, e.g.: “/*Experiment1*”
* Copy the files *runtest.sh* in the experiment folder
* Edit, if needed, the *runtest.sh* file changing the following row:

export PARENT\_NAME=`dirname $PWD`

export SCRIPTDIR=$PARENT\_NAME/expExecution

depending on the path of the folder */scriptsIE*

Choose the experiment workload script: *WorkalodFixed.sh* or *WorkloadVariable.sh*, by uncommenting the desired script, according to the experiment to perform. Currently the former is selected.

In the *kill\_after\_time.sh* file, set the duration of the experiment (currently is set at 6 hours).

Then, move within the directory of the experiment to run and launch the *runtest.sh* script.

**Note:** the names of the packages within the Workload script refer to a **Nexus** device; to apply these tests on a different device, there could be needed to replace the name with the exact name of the packages on the target device. This should be done in the workload scripts “*Workload.sh*”.

**After the test:**

The two types of the analysis to conduct are related to the Launch time of the activities and to the Memory consumption.

Hence, out of the files generated (that could allow other fine-grain analyses that we neglect), the following files must be considered:

* For the launch time analysis the “D*isplayed.txt*”;
* For memory analysis, the “*meminfo.txt*” file.

The scripts for the analysis of such files are described in the CONTENT.docx file. To use them, follow the steps below.

For launch time analysis:

* Copy the file “*Displayed.txt*” from the experiment folder (e.g., */Experiments/EXP\_1*) to the “*TestScripts/scritps/analysis/LaunchTime*” folder.
* Run: ./*generate\_Time\_data.sh Displayed.txt*
  + Results will be in the folders *Slopes, Time\_results, TimePlotsTemp*
* For a new analysis, the folders must be cleaned manually

For memory analysis:

* Copy the file “*meminfo.txt*” file from the experiment folder (e.g., */Experiments//EXP\_1*) to the “*TestScripts/scritps/analysis/Memory*” folder.
* Run: ./*generate\_Meminfo\_data.sh meminfo.txt* 
  + Results will be in the folder *Plots*
* Run: *generate\_Meminfo\_data\_Slopes.sh meminfo.txt* 
  + Results will be in the file *slope\_exp.txt*
* Run: *generate\_Global\_Meminfo\_data.sh meminfo.txt* 
  + Results will be in the file *mem\_other\_exp.txt* and the folder *global/EXP/*
* For a new analysis, the folders must be cleaned manually