# DSP-LAB 2016-17 Secure Java Secure Native Interface using Intel SGX

# **Instructions for running the Java-Server for Arithmetic Evaluator on Ubuntu 16.xx vanilla**

**Prerequisites**

1. Installation of **Java Runtime Environment 1.8** on vanilla Ubuntu.
2. Installation of **Intel SGX\_SDK** for Linux.

Preferred path is: **‘/opt/intel/sgxsdk/’**

1. Add the environment variable for SGX simulation as follows:

$export LD\_LIBRARY\_PATH=**‘/opt/intel/sgxsdk/sdk\_libs’**

**Setting Up and Running the Java Application**

1. Copy the project “**SGX\_Evaluator**” into the Ubuntu OS for simulation.
2. Path to the folder containing the script “**App\_Run.sh**” to start the application is as follows:

“**SGX\_Evaluator\SGX\_Evaluator\sgx\App\_Run.sh**”

1. Give permissions to execute the script “**App\_Run.sh**”.
2. Run the script “**App\_Run.sh**” to start the SGX-enabled Java server side application.