

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/'`

3. 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"`
3. Give permissions to execute the script "**App_Run.sh**".
4. Run the script "**App_Run.sh**" to start the SGX-enabled Java server side application.