Project Number 611411

D5.2 – Analytical Platform Model (User Manual)

Version 1.0

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CNRS

This project uses the SimGrid [1] tool model for fast simulations of Cloud and HPC systems. The latest version of SimGrid is recommended. The energy consumption estimation tool is integerated to the versions later than 3.11.1.

* 1. **Library Path**

To compile the project, you’ll need to install “g++” with some external libraries (Xerces) and SimGrid tool. Once you install such external libraries, update the paths related to these libraries in the Makefile located in main project directory:

* Xerces, for XML parsing
  + Update the variable “XERCES\_DIR” of ./Makefile
* SimGrid
  + Update SimGrid Installation path in variable “INSTALL\_PATH” of ./Makefile
  1. **Additional Tools**

For visualization of temporal results, the vite tool sgould have been installed. In Ubuntum Vita can be installed from terminal with following command:

sudo apt-get install vite

**c. Compile\_and\_Execute.sh**

This script file compiles and executed the simulator source code, generates the simulation results in the form of output files and finally loads the Vite tool to display the waveform to visualize the core activity during simulations.

# References

[1] SimGrid. <http://simgrid.gforge.inria.fr/>