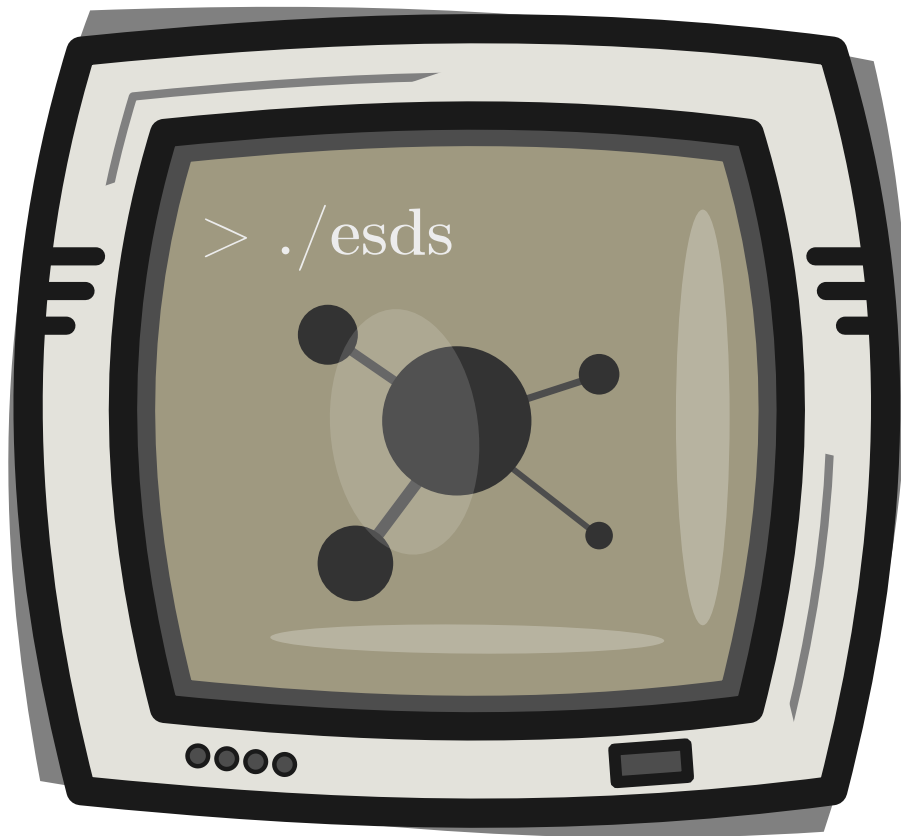


# ESDS User Manual

September 12, 2022



ESDS an Extensible Simulator for Distributed Systems

Written by Loic Guegan and Issam Raïs

# 1 Architecture of ESDS

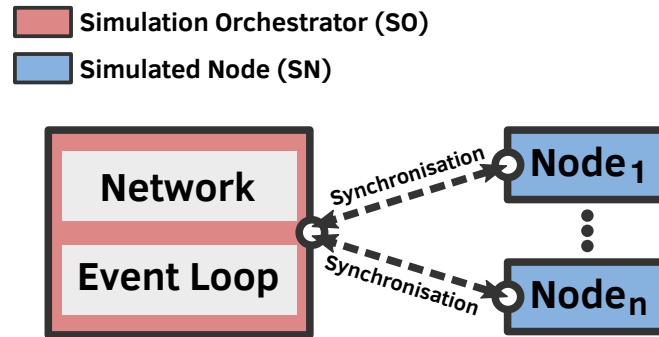


Figure 1: Simulation architecture used by ESDS

ESDS simulator comprises two major components: 1) The Simulation Orchestrator(SO) 2) The Simulated Nodes (SN). This architecture is depicted in Figure 1. The SO is the main process in charge of implementing the simulation main loop. It instantiates the network (e.g bandwidths andlatencies), collects and processes the events (e.g communications,turn on/off). The nodes on the other hand are threads that simulate the nodes behaviors.