IPWAVE

IETF Hackathon

Simulation Guide

Simulation Environment

- OS: Ubuntu 16.04

- Simulators:
  - SUMO 1.0.0
  - OMNeT++ 5.4.1
- GNU GCC 7.3

- Open Sources:
  - https://github.com/ipwave-hackathon-ietf/ipwave-hackathon-ietf-112
  - Veins 5.0
  - INET 3.6.6

Configurations

- Install OMNeT++ following the procedure in the installation manual: https://doc.omnetpp.org/omnetpp/InstallGuide.pdf

- Install proper SUMO version

- Import projects in OMNeT++ work space

  - Import INET by

  File → Import → General → Existing projects into workspace

  - Similarly, as INET, import SimuLTE

  - Import veins:

  Specifically, search for nested project and install both veins and veins_inet3 projects.

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Project References

- Activate project features to ensure SimuLTE runs correctly.

- Right-click on lte project and choose Properties

- Then, Project References and tick inet, veins and veins_inet3

- Run the scenario in veins:

  python2 sumo-launchd.py

- Run the simulation by:

  *lte → simulations → mode4 → omnetpp and in set inifile configuration, choose **Hachathon112***

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References:

http://www.cs.ucc.ie/cv2x/media/OpenCV2X_Documentation.pdf