
OPNET

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Overview

- Original work at MIT, now maintained and marketed by OPNET Inc.
- Discrete event simulator
- OPNET Modeler
 - Hierarchical modeling that mimics real life architecture: Network, Node, and Process Layer modeling
 - At Process Layer, a finite state machine representation is used for modeling, where state behavior is dictated by C code
 - Canned process models are supplied (open code) for many popular communication protocols
 - Decent capabilities for animation, GUI, analysis, debugging, etc.
- **OPNET IT Guru: Deals with only Network Layer; other layers are pre-canned and invisible**

Setup

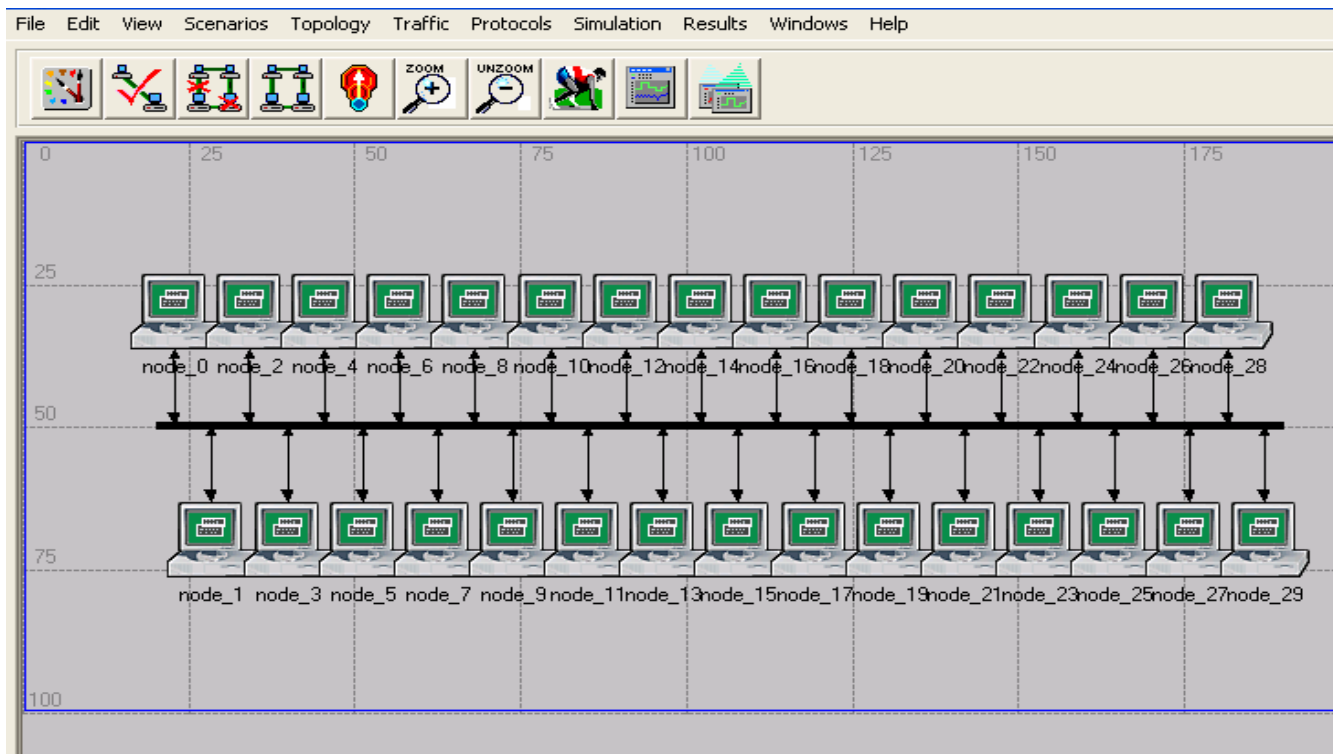
- Software and User Manual
 - Obtain OPNET IT Guru Academic Edition software from http://www.opnet.com/services/university/itguru_academic_edition.html (if installing on your own PC)
 - We will place the chapters of the manual needed on the class syllabus page (might also be available from the textbook website)
- OPNET IT Guru Academic Edition is installed on the EECS instructional Windows machines
 - Can be accessed using your EECS Windows account
 - Can also be accessed by remote terminal service
 - Remote Desktop Connection in Windows XP
 - Will need to know the IP address of the host to access from an off-campus location
 - Class accounts are available from the instructors

Introduction and Tutorials

- Required manual sections will be posted on the class website's syllabus link (available when an assignment is out)
- Go through the "Introduction" of the Experiments Manual to develop a good familiarity with the simulation tool
 - Should not have to change the OPNET preferences
 - Only answer the lab questions indicated for each assignment
- "Introduction" leads you to the following tutorials packaged with the software
 - Introduction
 - Small Internetworks

Demonstration (Ethernet Lab)

- Let's walk through the Ethernet lab (Lab 1 of the Manual):



- First OPNET assignment is the Ethernet lab (Lab 1 of the Manual) – Due back on Tuesday, February 27