

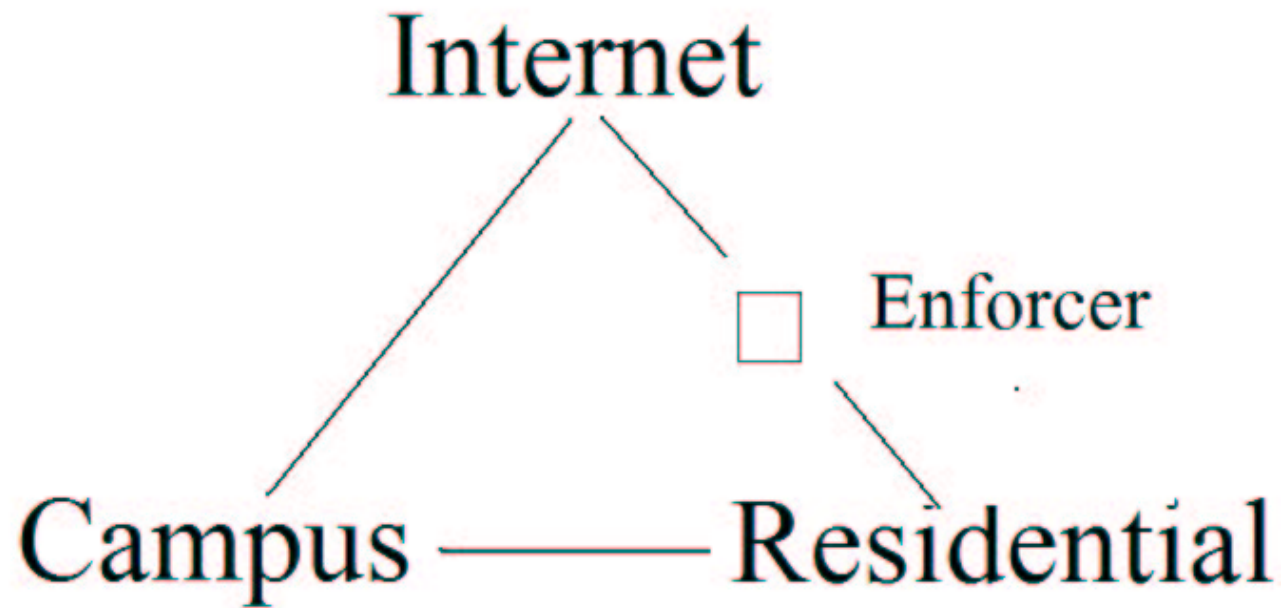
Allot Net Enforcer

Jim Warner, UC Santa Cruz

- Model AC–301
- Spec sheet:
 - 100 Mb/sec performance
 - 65,000 simultaneous connections
 - Hardware bypass on failure
 - YALP 850 MHz Pentium

- Small scale testing Spring 2000
- Arrange net for single point of control for residential computing
- Target set by long division
 - 55 Mb/s 95th percentile with dilution
 - \$1.75 per resident – month

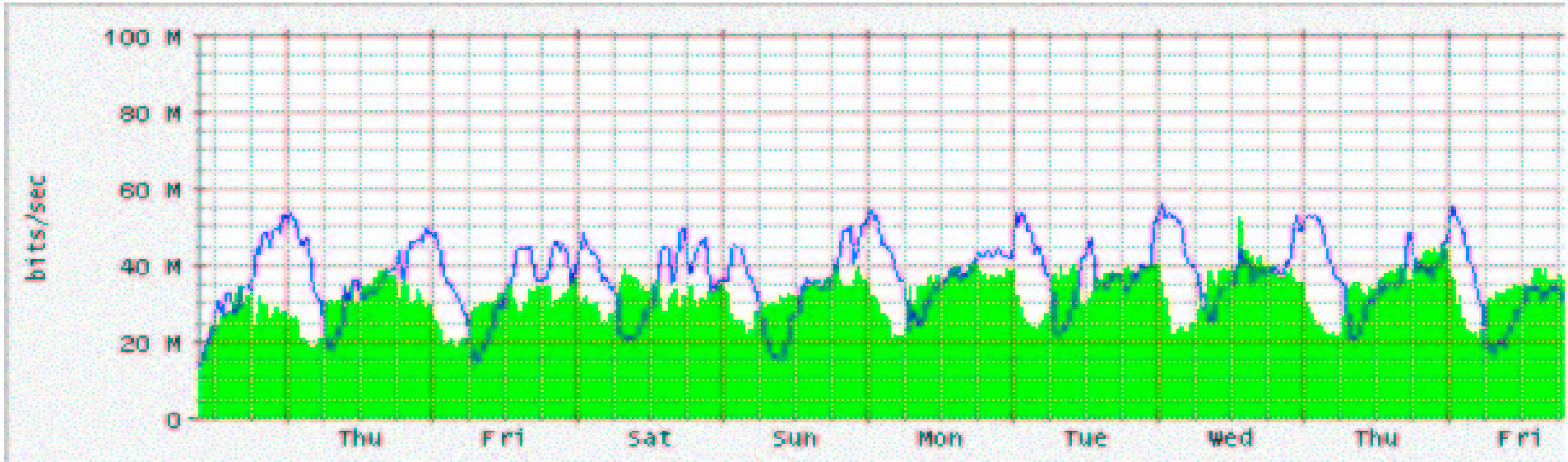
Simple map...



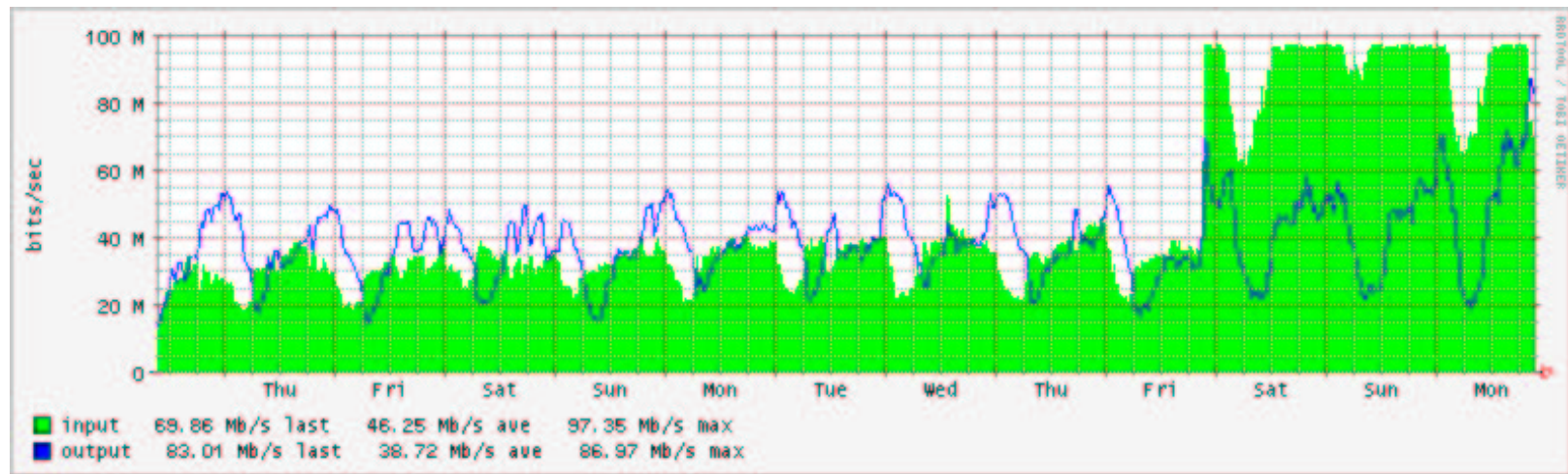
Fall Quarter plan...

- Uniform treatment of all traffic = tragedy of the commons
- Netflow data available to profile traffic
- Allot has kazaa as an application note example
- Proposal: limit TCP port 1214 might achieve our objectives

Appears to work, but...



RESNET TO INTERNET



- Packet loss around 14 percent
- “Enforcer” turned off
- Call tech support

Problem: not enough RAM

- With a limit on bandwidth alone, an unlimited offered load will require an unlimited buffer pool. When the RAM is gone, packets are dropped without regard to priority.
- Limiting BW is not enough. Need connection limits as well.