Global Purification of Internet Streams
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Motivation
• Various malware on the Internet
  • Internet worms (Codered, Blaster)
  • Mass mailing worms, spam, virus
• Global vs. Local solution
→ Compromised computers can be used for malicious purposes
→ Billions of dollars damage

Approach
• Filtering at transit points
• Feasible: Partial deployment, Automation

Global Protection Filter Placement

Cooperative Filtering
• Defense against zero-day attack
• Detection and Filter nodes cooperate

Simulation and Implementation
• DaSSFNet simulator
  • Simulating 16900+ nodes
• Implementation of worm filtering device
  • Currently supporting 1 Gbs

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