ISC and CGN
(What’s a Nice Open Source Company Like You Doing Writing Code Like This?)

Suzanne Woolf
Internet Systems Consortium
What is ISC’s role with CGN?

• We have funding to develop an open source implementation of the technology generally referred to as “carrier grade NAT”

• Prototype in userland on Comcast standard platform: Linux on commodity hardware.
  – Demonstrates basic functionality
  – Test to baseline performance
  – Kernel version harder to build, but expected to perform better
  – No idea how to quantify this yet
Next steps

• Better logging
  – Ports mapped
  – Tunnel set up/tear down
  – Packet headers

• Configuration interface

• Performance

• Integrate concepts from aplusp (moves NAT closer to user control)
Why is ISC doing this?

• We know some people think CGN is evil
• We believe the idea is sound: IPv6 deployment will be aided by moving the solution closer to the problem
  – Content providers don’t need IPv6, they have IP addresses
  – End users don’t need IPv6, they have IP addresses (usually NATted)
  – Access providers are running out of addresses
Why, con’t

• Freely available open source lets everyone look at the ideas and the code, take whatever they can use….

• Including aplusp and other refinements to move control closer to the user
Moving along

• Sharing early pre-alpha/prototype code with a few “friends and family” soon– see us if you’re interested

• CGN Forum for other potential partners who might want to work with us on future development

• More work on the prototype and the kernel mode version