



















## CIDR

- Forget these fixed classes, use arbitrary bit boundaries
- 128.9.0.0/16 --- the network is the top 16 bits of the address
  - I.e., **0x80 09** 00 00
- can give people parts of an old class B, or multiple adjacent old class Cs - 128.9.240.0/20 --- 4k hosts
   the slash separates the non-host part from the

host part, measured in bits: 128.9.240.0/20 means

20 bits of 0x8009f000

- 192.168.4.0/22 --- 2k hosts

3d\_addressing: CSci551 SP2006 © 2003 John Heidemann

The market: NAT
NAT: Network Address Translation

"Give us one IP address, we give your several computers the world"

NAT gateway *maps* internal IP addresses to a single (or a few) IP address











