

Will there be an Internet in 5 years?

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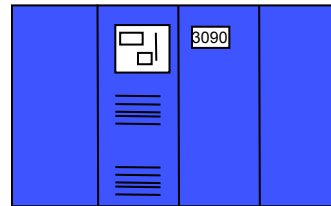
inet-1

what was the Internet?

inet-2



or



| Dest Addr | Src Addr | payload |
|-----------|----------|---------|
|-----------|----------|---------|

- 0/ multiplexed utilization of **existing** networks
- 1/ **survivability** in the face of failure
- 2/ support **multiple types** of communications service
- 3/ accommodate a **variety** of network types
- 4/ permit **distributed management** of resources
- 5/ **cost effective**
- 6/ **low effort** to attach a host
- 7/ **account** for use of resources

!security
!QoS
!efficiency

inet-3

e2e!

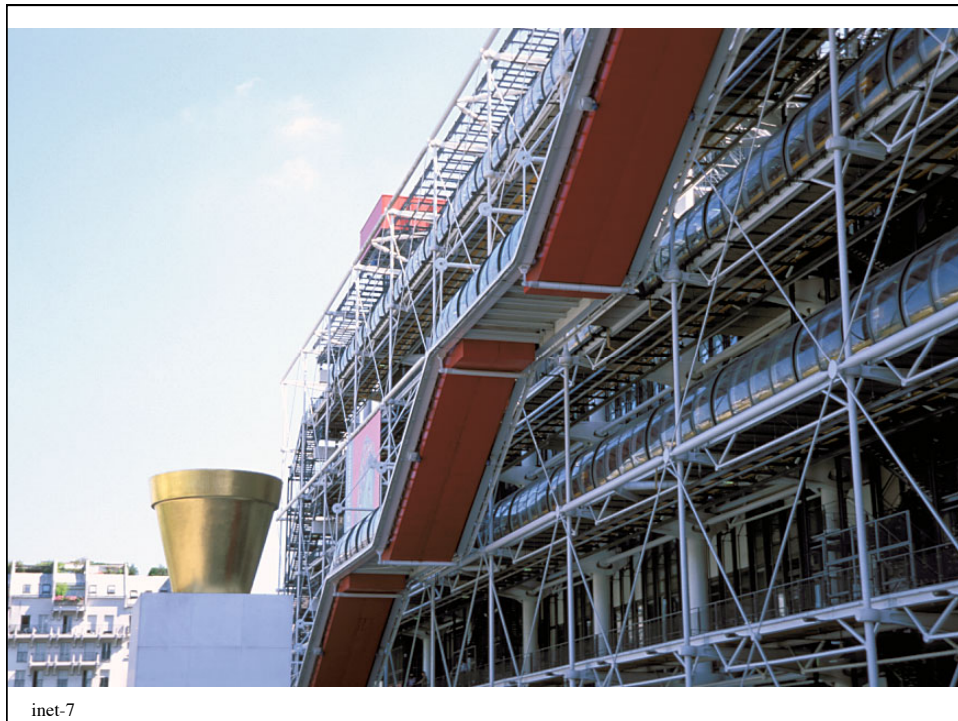
inet-4

what did they think the Internet was?

inet-5



inet-6



what is the Internet now?

inet-8



three ghosts of Internet future?

inet-10

we built it!

Internal Revenue Service
DEPARTMENT OF THE TREASURY

too important for the geeks

IP

“make sure it stays good”

inet-11

A

content

Qwest
Spirit of Service™

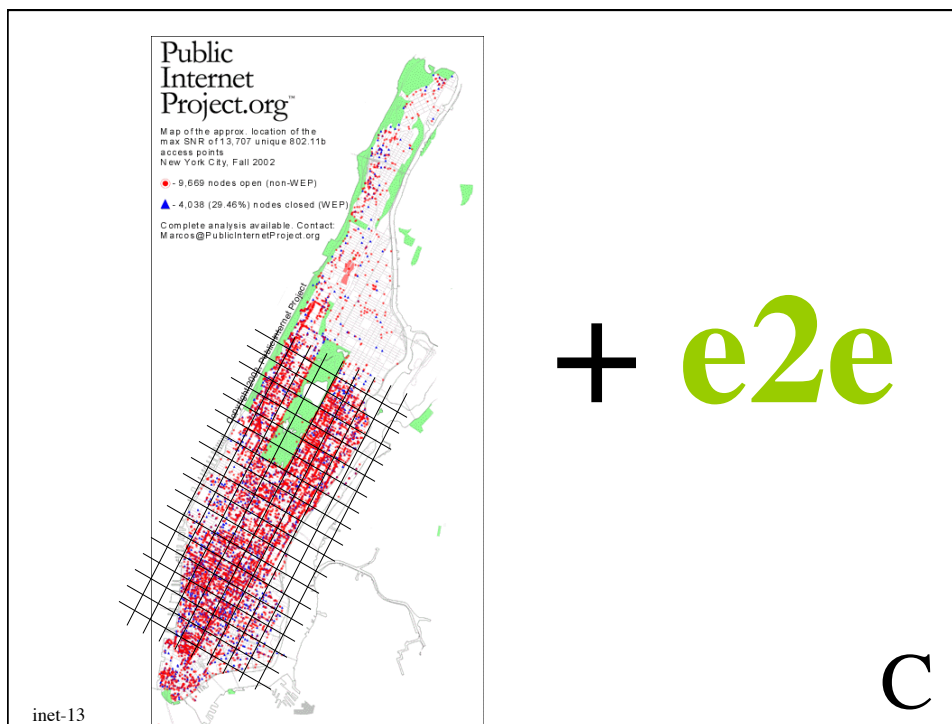
VoD

BELLSOUTH

games

inet-12

B



next time? (or is it now?)

support existing networks

datagram-based decisions that made a difference

creating the **router** function

split TCP **and** IP

DARPA fund Berkeley to add TCP/IP to **UNIX**

CSNET and **CSNET/ARPANET** deal

NSF **require TCP/IP** on NSFnet

ISO **turn down** TCP/IP

NSF Acceptable Use Policy (**AUP**)

minimal regulation

inet-14



it is NOW
(and it is us)

inet-15

inet-16