

INTERNET2 BACKBONE: CURRENT AND FUTURE CAPACITY

Current Capacity of Existing Internet2 Backbone (as of December 31, 2001)

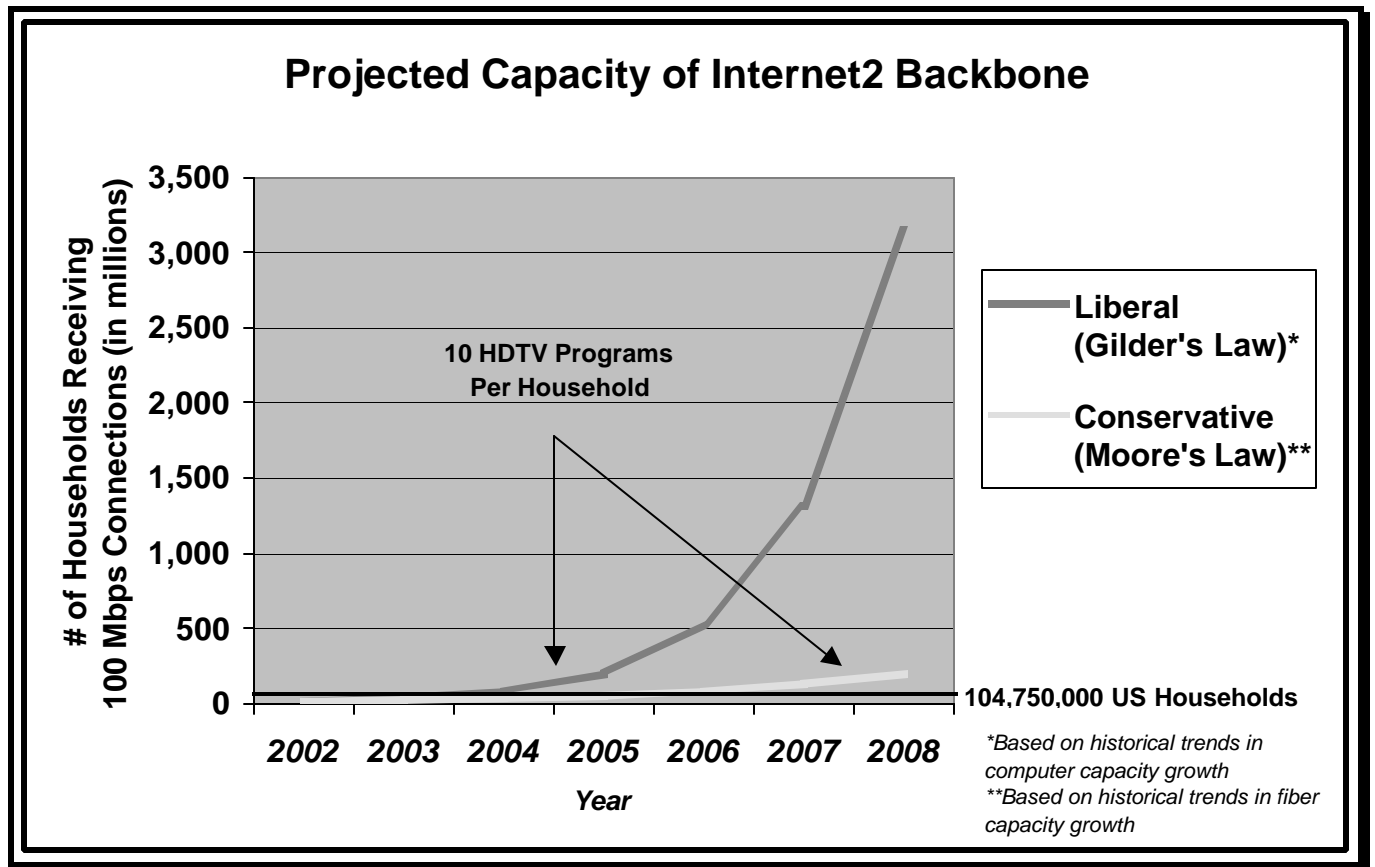
Conduits (effective)	8
Fibers per Conduit	48
Wavelengths per Fiber	320
Gigabits per second (Gbps) per Wavelength	10 Gbps
Bandwidth required for 5 HDTV Programs per Household	100 Mbps
# of 100 Megabits per second (Mbps) Data Streams per Wavelength	100
# of Households Able to Receive 100 Mbps (5 HDTV Programs)	12,288,000

Source: Qwest.

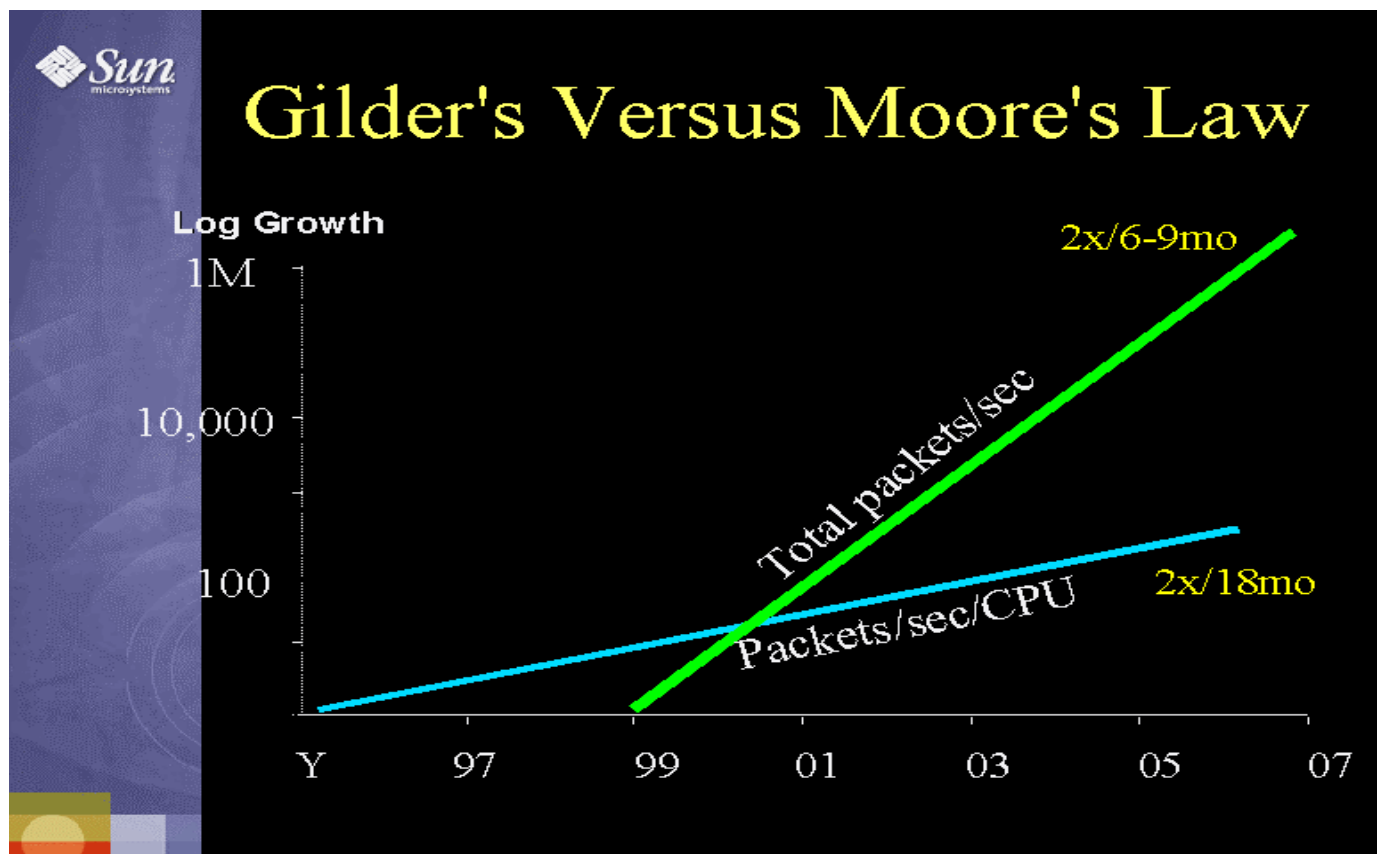
The Bottom Line:

The backbone isn't the problem.

The last mile is the problem.



Source: U.S. Census Bureau (2000) and extrapolation from Qwest data using Gilder's and Moore's Laws.



Source: Jini.org.