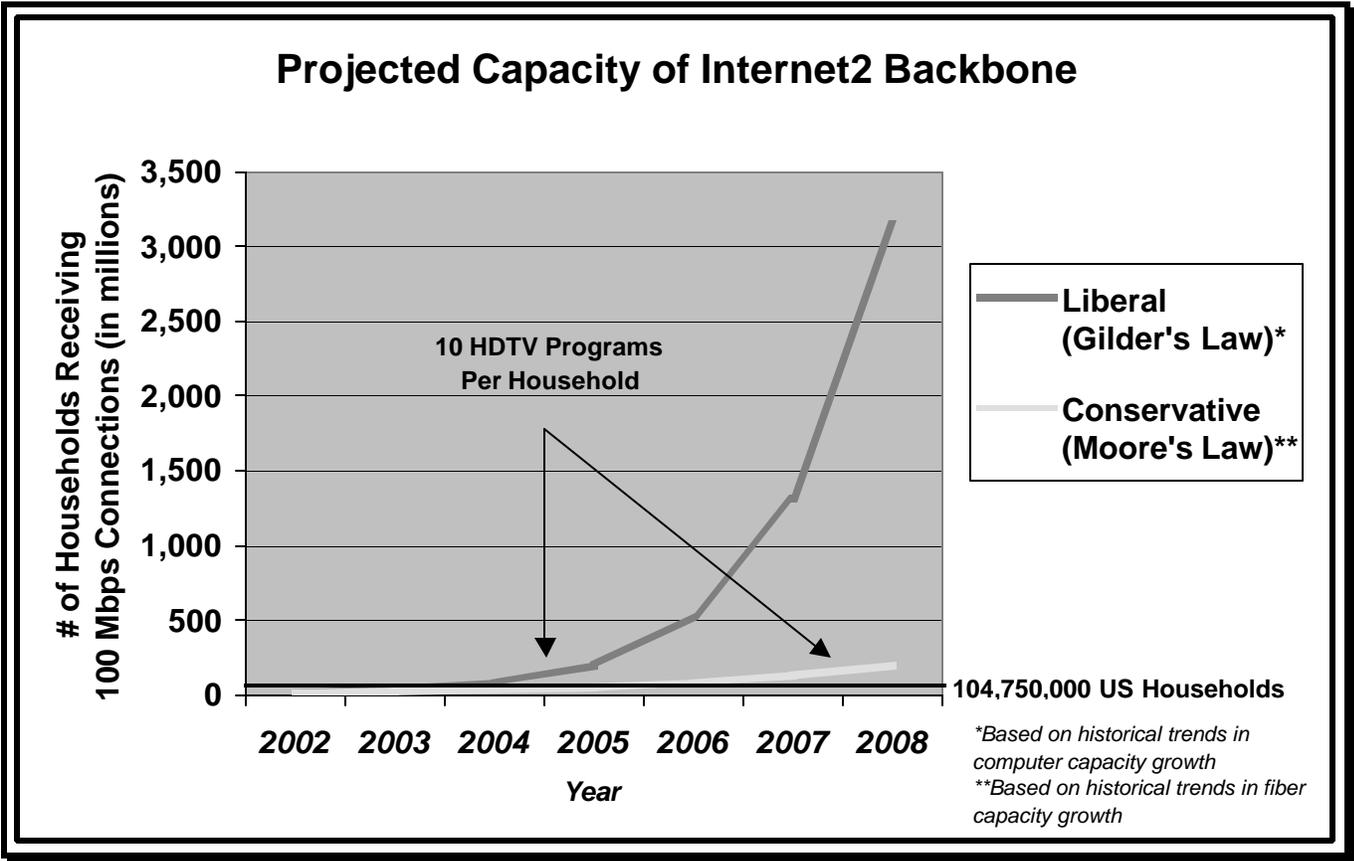


**INTERNET2 BACKBONE:  
CURRENT AND FUTURE CAPACITY**

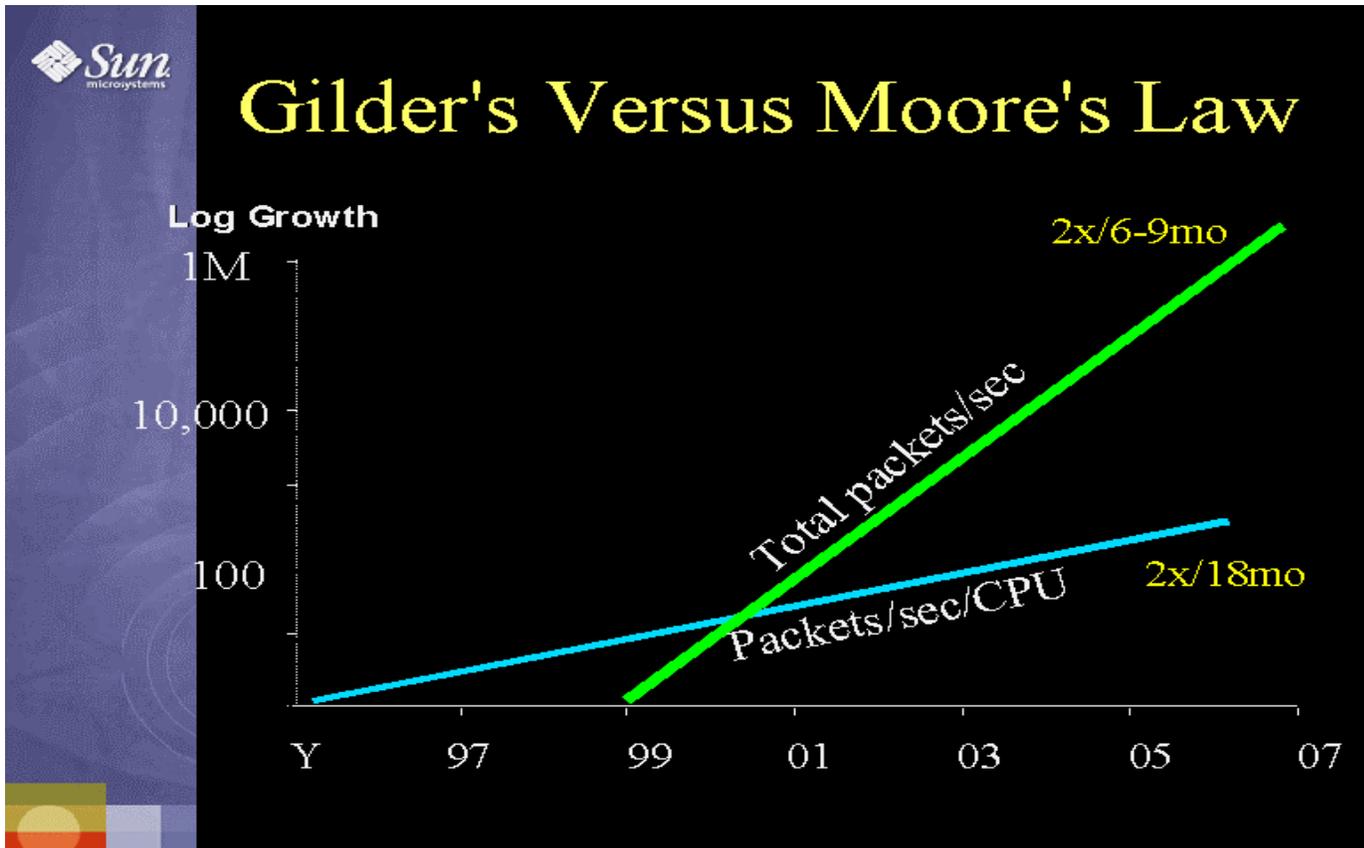
<b>Current Capacity of Existing Internet2 Backbone (as of December 31, 2001)</b>	
<b>Conduits (effective)</b>	<b>8</b>
<b>Fibers per Conduit</b>	<b>48</b>
<b>Wavelengths per Fiber</b>	<b>320</b>
<b>Gigabits per second (Gbps) per Wavelength</b>	<b>10 Gbps</b>
<b>Bandwidth required for 5 HDTV Programs per Household</b>	<b>100 Mbps</b>
<b># of 100 Megabits per second (Mbps) Data Streams per Wavelength</b>	<b>100</b>
<b># of Households Able to Receive 100 Mbps (5 HDTV Programs)</b>	<b>12,288,000</b>

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.