1.

Graphical user interface, text

Description automatically generated2. **What the minimum and maximum download speed you recorded at each of these sites. Include the speed, and the site at which the speed was recorded.**

The minimum was 207.8 Mbps and the maximum was 240 Mbps

3. **What was the minimum and maximum upload speed you recorded at each of these sites. Include the speed, and the site at which the speed was recorded.**

The minimum was 5.82 Mbps and the maximum 6.08Mbps

4. **Was there a significant difference in download and upload speed? a. What was the difference? b. What factors do you think could be contributing to this difference?**

The download speed was significantly faster than the upload speed. The difference was 200+ Mbps, I think some of the factors would be that upload is constantly being used by applications while download is only when you are actively needing to download something.

5. **What was the minimum and maximum latency you recorded?**

Idle latency is 12, download latency is 55, upload latency is 110

6. **Is the device you used to run these tests using a wired ethernet connection, or a WiFi connection? a. How could the type of network connection impact your results?**

WiFi connection, I would imagine that download and upload would be faster through a wired connection rathe than through wifi. An extreme example as to why would to us optical fiber as an example. Optical fiber moves at the speed of light (minus the fact that the distance to travel is 1.5x in length). This is much faster than the speed that data can travel through air as a medium.

7.

Google.com  


8. **What were the minimum, maximum, and average ping times for all 14 IP addresses in the United States and World boxes?**

UVU Utah  


Lehi, Utah  


LA, California  


Denver, Colorado  
Icon

Description automatically generated

New York  


Hawaii  


Russia  


Japan  


Australia  


Canada  


Brazil  


Ireland  


South Africa  


India  


9. **For the United States, what location had the lowest minimum ping time?**

UVU Utah

10. **For the United States, what location had the highest minimum ping time?**

Hawaii

11. **For the World, what location had the lowest minimum ping time?**

Ireland

12. **For the World, what location had the highest minimum ping time?**

South Africa

13. **What location had the greatest difference in its minimum and maximum ping times? a. What do you think could have caused such a variance in ping times, especially given that both times were for the same location?**

India, the population density means more devices that can cause interference

14. **What other factors would cause the increased ping times you saw in the United States ping times vs. the World ping times?**

Population density equaling increased traffic