

CALIFORNIA STATE SCIENCE FAIR 2002 PROJECT SUMMARY

Name(s) **Project Number** Matthew I. Wunderlich 22470 **Project Title** Which Is Faster: DSL or Cable? **Abstract Objectives/Goals** My objective was to find out which was a faster modem, DSL or Cable. My was that DSL would be faster. Methods/Materials To perform my experiment, I tested the connection speed of several computers. eight (8) with DSL connections, two (2) with cable connections, and one (1) with a 16-K dial-up modern. I measured connection speed two ways: (1) Using an on-line modern speed tester (http://tech.msn.com/internet/speedtest.asp); and (2) Timing using a stop watch, how long it takes to download a standard file (The Enron Special Investigation Resort # 8.6 M Results Cable was the fastest, followed by DSL, and then, at a much slower speed, a 56-K modem. Cable was about twice as fast as DSL. DSL speed did not vary at different times of day, but cable speed varied by almost a factor of two. File downloads rates were about 8 times slower than connection speed. The type of Internet connection was much more important than computer speed or RAM. **Conclusions/Discussion** Cable was the fastest, although it varied by time olday. At its plowest, it was about the same speed as DSL. The effective speed of using the internet is slower than what providers say in their advertisements. **Summary Statement** I determined that cal modems are faster than DSL modems. Help Received Dad helped type report and discussed the tests with me; friends tested their computers and filled out the data form I gave them.