Oliver Luo

| \wedge | | |
|----------|---------|------|
| Sall | 100 | 1 -2 |
| Sprint | (Part) | 1 |
| | 1 / 5/1 | |

Part 1

Data Bandwidth: 80 Mb sec = 80° 2° bits/sec

Q: total expected time required to transmit a 1 Mbyte file

1 Moyte = 8 Mbits

.8 Mb 80Mb = 0.1 seconds = loo milliseconds

100ms + 20ms = [120ms] travel time RTT

Part 2

First Bandwidth: 80 Mb/sec Second Bandwith: 60 Mb/sec

8Mb/60Mb = 0.133 = 133ms

100 ms + 133ms + 20ms = 253ms

Istlink and Link traveltime traveltime RTT

| Source | 8000 | b/s | Sile girival sombis h 2rd 512KB 9 | Dest- | = Looms | | |
|--------|--------------------|-------|---|--|---|----------------|-------|
| | 0,0685 | = 60 | igms to tro | 6Mb/boMb ansferqueu | | | |
| | MB=8Mb/6 0.1335 | | | transfer 1 | MB file | on 2nd/ | |
| | Total time | taken | = 100ms 1 1 1 1 1 1 1 1 1 1 1 1 | + 60.8m T. 512KB across and link | 5 + 133, IMBfi across and line | $\frac{1}{R7}$ | TT |
| | T= 3 | 13.8m | 5/ | | | | pr Ri |
