

Exercise 4

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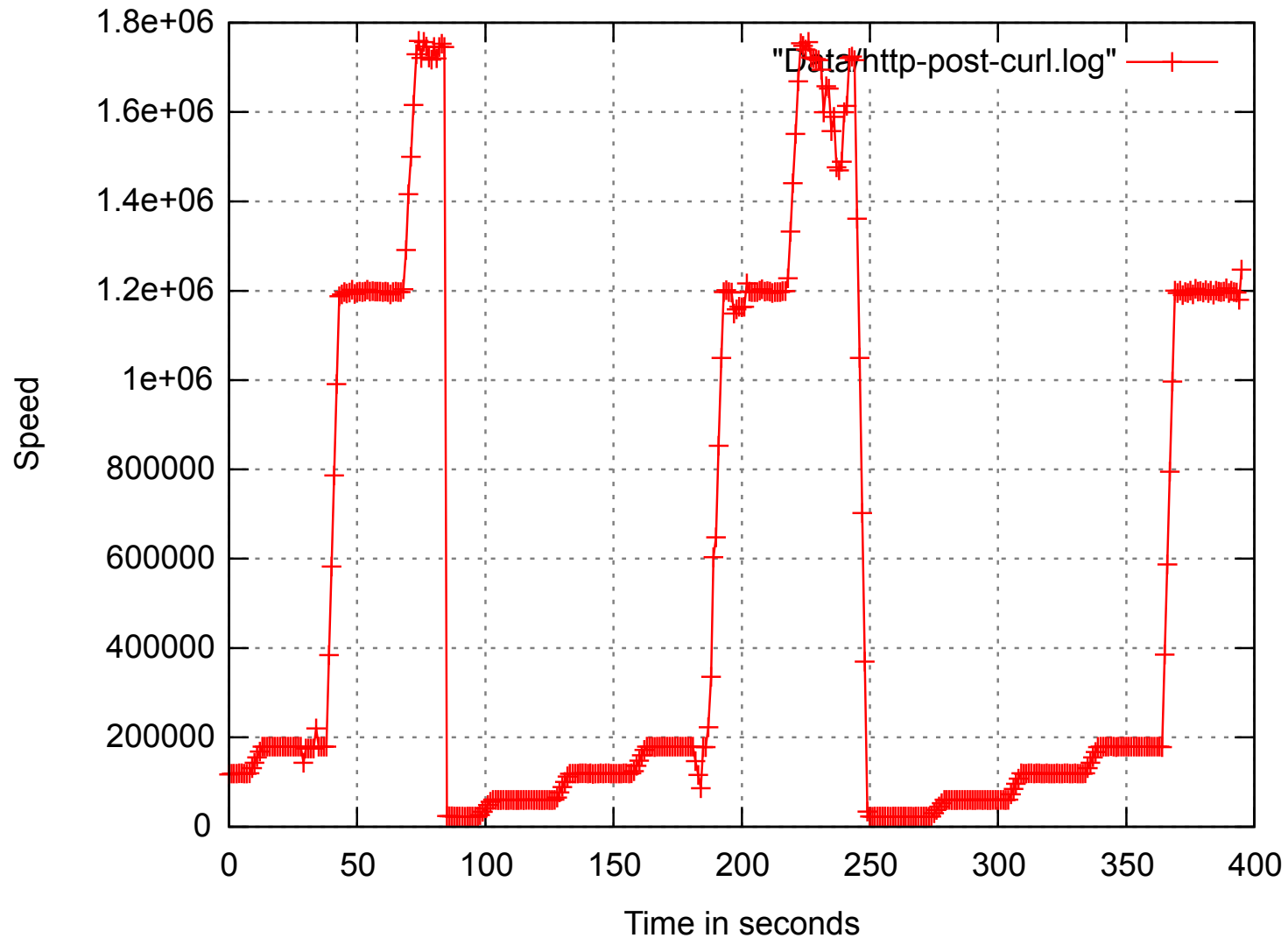
Setup and data collection

- Tools used: bash, curl, tr, cut, cat, awk, grep, gnuplot
- Steps taken:
 - Download `linux-3.9.2.tar.xz` (68.7 MB) (3x)
 - Save curl progress with `tr '\r' '\n'` in file
 - Post process data (filter, select)
 - Plot data (gnuplot)
- Connection: Stw Bonn (PPTP to DFN) via Informatik VPN

Idea from: <http://copperlight.github.io/2014/07/02/measuring-transfer-speed-over-time-with-curl/>

Results HTTP

FTP speed graph (three downloads)

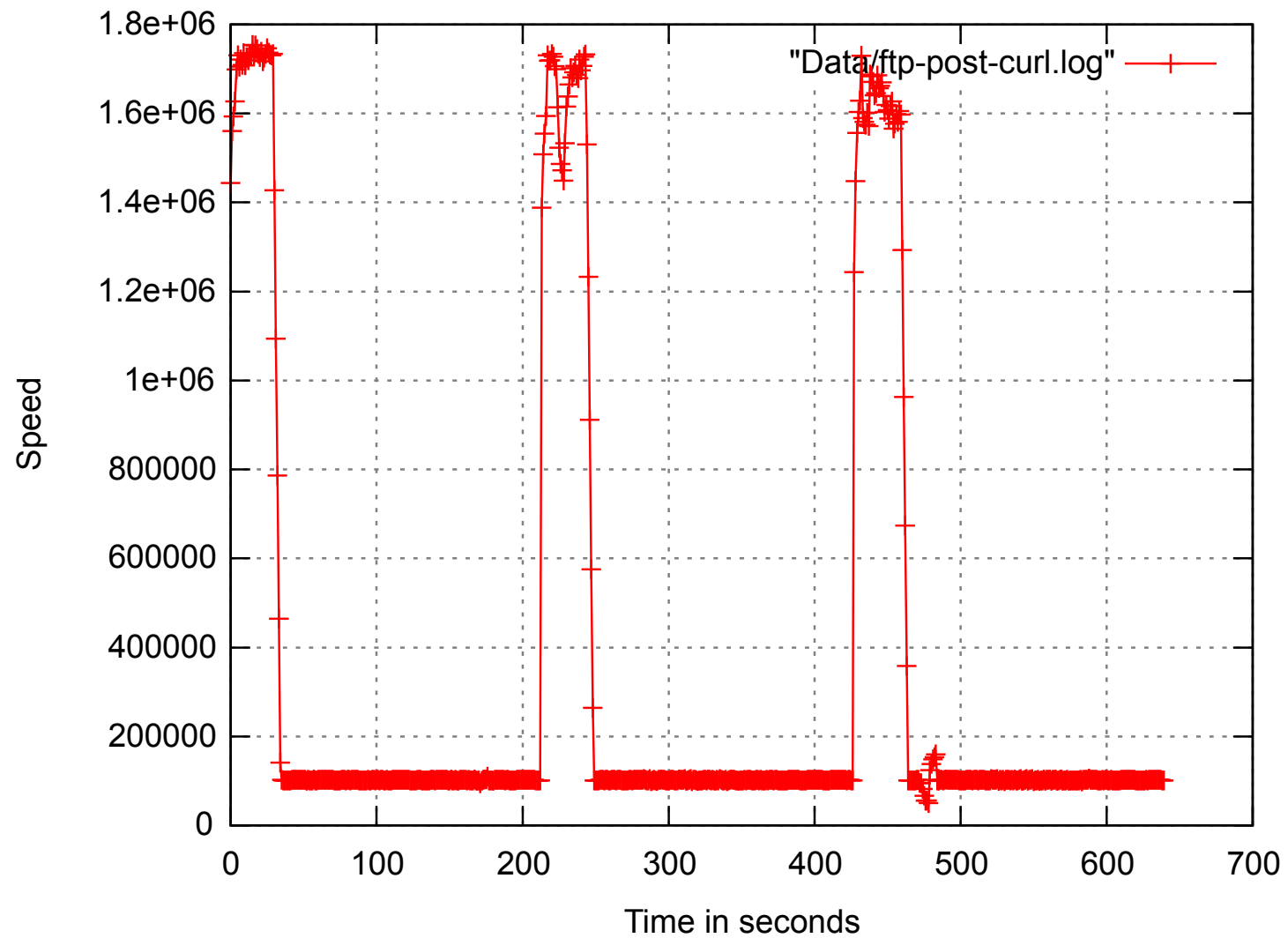


Results HTTP

- Changes ~ every 25-30 seconds
- Fluctuates a bit over fixed point
- Speeds:
 - ~23 KB/s
 - ~60 KB/s
 - ~116 KB/s
 - ~1 MB/s
 - ~1,8 MB/s

Result FTP

FTP speed graph (three downloads)



Results FTP

- Starts with $\sim 1,8$ MB/s
- After 30s reduces to 100 KB/s