Exercise for the lecture

Distributed Storage and Computer Forensic

Winter 2011/12 Sheet 8

EXERCISE 8:

Allocation and Linear Programming Consider the following servers

- s_1 with size 5 TB and bandwidth 100 MB/s
- \bullet s_2 with size 1 TB and bandwidth 50 MB/s
- s_3 with size 100 GB and bandwidth 1000 MB/s

and the following documents

- d_1 with size 1 TB and popularity $\frac{1}{111}$
- d_2 with size 500 GB and popularity $\frac{100}{111}$
- d_3 with size 1 TB and popularity $\frac{10}{111}$

Determine the matrix A and vectors b and c for the linear programming problem which describes the optimal solution with respect to

- 1. AvSeqTime and
- 2. AvParTime.