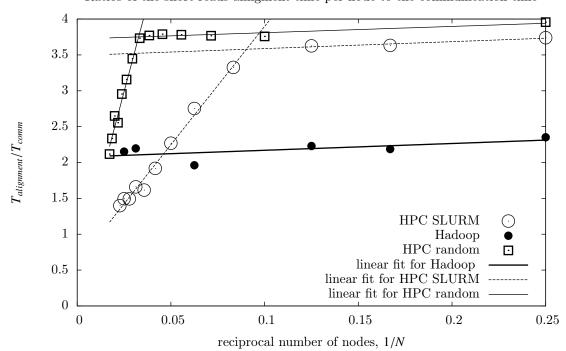Ratios of the short reads alingment time per node to the communication time

Ratios of the mapping time $T_{mapping}$ to the communication costs T_{comm} for HPC2 and Hadoop clusters for Dataset IV as a function of reciprocal cluster size $1/N$. Two HPC scenarios are shown as "HPC SLURM" and "HPC random", which correspond to standard SLURM behaviour and a modified one, where nodes are being allocated from random racks. Linear fit done with the least-squares method.