



UCL Department of Computer Science
CS M038/GZ06: Mobile and Cloud Computing
Spring 2016
Brad Karp

One-pager: MapReduce (Dean and Ghemawat, 2004) Due: Start of lecture, 4th March 2016

Instructions: in your own words, answer the following question as succinctly as possible (in 200–500 words total, but shorter answers within this range are encouraged). Quoting figures or text from the assigned reading or from any other source is specifically prohibited.

Trace the flow of data at each step of a MapReduce computation. For the input files, and every step of the MapReduce computation, describe *a)* where the data is physically, *b)* what filesystem contains the data, and *c)* all the mechanisms MapReduce uses to move data closer to the consumer of the data.