Graduate School Workshop on Big Data

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Aims
On completion, students should know how to handle building statistical models for datasets which are too large to fit into memory on a typical computer.

Organization
Students must bring their own laptop (Windows, Mac or Linux are all fine), but do not need to pre-install any software as installation will be part of the workshop.

The workshop will be run in a small conference room. Our focus will be on the dataset below, but we will spend some time dividing up the work and then discussing the different answers we get from different approaches.

Assumed knowledge
Students will be assumed to already understand linear models well. I will provide a downloadable textbook in advance for those who need revision. Knowledge of using R is beneficial.

References
The dataset we will explore can be found here:
http://stat-computing.org/dataexpo/2009/the-data.html

It contains about 120 million records on 29 core variables.