Friday questions week 5

- 1. Which are the two forms of locality? page 168
- 2. What is meant by a cache block? page 175
- 3. A cache is divided into a number of sets, and when an address is searched all rows in a particular set are checked to see if that row contains the searched address and needed data. What is a cache called if it is described as follows:
 - · the cache has only one set
 - · each set has four rows
 - · the number of sets and rows are equal

page 172-173

4. When there are multiple rows in a set, are they searched in sequence or are the hardware address comparators duplicated so that they work in parallel?

page 172

5. What is the cache block size on our POWER machine? page 177

6. Modern optimizing compilers use a representation which makes it relatively easy analyze which statement has modified a variable. What is this representation called?

page 652

7. What is the purpose of instruction scheduling? page 671