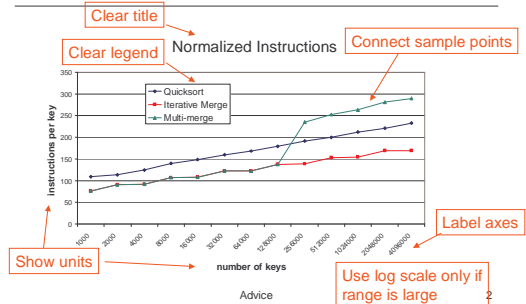


Advice on Reports

CSE 326
Data Structures

Graphing



Graphing

- For multiple graphs only plot lines in the same units.
 - › Don't plot L1 and L2 cache misses on the same graph.
- Always have a caption, or short paragraph describing what the graph is showing.

Advice

3

Equally Spaced Points

- Linear Scale. k points in the interval $[a, b]$. Choose $x = (b-a)/(k-1)$.
 - › $a, a+x, a+2x, \dots, a+(k-1)x = b$
 - › $a+(i+1)x - (a+ix) = x$
- Log Scale. Choose $x = (b/a)^{1/(k-1)}$
 - › $a, ax, ax^2, \dots, ax^{k-1} = b$
 - › $\log ax^{i+1} - \log ax^i = \log x$

Advice

4

Methodology

- List the main points
 - › Programming Language
 - › Compiler, version number and options
 - › Operating system, version number
 - › Computer, with any details about speed, memory and cache sizes
 - › Tools used, CacheGrind with version number and parameter settings
 - › How many data points
 - › How many samples per data point
 - › How the "average" was taken

Advice

5

Methodology

- Mention any specific issues to the project. Explain why certain decisions were made.
- Do not do stream of consciousness description of your thinking. "Just the facts Ma'am."

Advice

6