

EEL 6764 Principles of Computer Architecture

Homework #2

1 Problems

Total Points: 228

Complete the following problems at the end of Appendix B and Chapter 2 of the textbook.

$B1$, $B2$, $B5$, $B9$, 2.18($a - c$) (2.9 ($a - c$) 5th Ed.), 2.20 (2.11 5th Ed.), 2.21 (2.12, 5th Ed.).

Note: For problem 2.18($a - c$), use the following information.

	Hit time (cycles)	Miss rate	Miss penalty (cycles)
DM	2	2.2%	20
2-way	3	1.2%	20
4-Way	3	0.33%	20
8-Way	4	0.09%	20

If certain information is not provided, make reasonable assumptions of your own, and use those assumptions to approach the solutions. Make sure that in your solutions, state your assumptions clearly.

2 Requirements

- All homeworks should be done and submitted individually.
- Show all steps to get full points.
- Writing and drawings if necessary must clear and readable. Otherwise, substantial loss of points may occur.
- All your work must be put in a single file.
- You must submit your solutions electronically via Canvas.
- The file for your solutions must be in PDF or MS-Word DOCX format.