

Final Exam Study Guide

The exam will be held on Tuesday 24/1/2017 from 11:00 am to 1:15 pm.

The final exam will be structured as follows:

Points	Topic	Source
10 out of 40 Informational questions (True/False, Multiple-choice, essay)	Computer Function and Interconnection	Textbook chapter 3, sections 3.1-3.4
	Cache Memory	Textbook chapter 4, sections 4.1-4.3
	Internal Memory	Textbook chapter 5, section 5.1
	Assembly Language	Assembly slide sets 1-4
10 out of 40	Problems on Assembly Language (analyze a program, write a program)	Assembly slide sets 1-4 See also: the problems in the midterm exam
10 out of 40	Problem on Cache mapping functions (direct, fully-associative, set-associative) and cache performance	Examples from class, problems 4.8, 4.12, 4.20
5 out of 40	Problem on memory module organization	Examples from class
5 out of 40	Booth's Algorithm for integer multiplication	See problems 9.14, 9.15

- Two size A4 cheat sheets are allowed in the exam. You can write on both sides.