CS 465    Fall 2017
Computer Systems Architecture
Section 003
George Mason University
Department of Computer Science
Tuesday and Thursday 3:00 P.M. - 4:15 P.M. Sandbridge A107

Final Exam: Thursday December 14 1:30 - 4:15

Duane King
king@gmu.edu
Office Hours: TBA

Course outcomes:
◊ Explain the organization of the classical von Neumann machine and its major functional components
◊ Compare performance of simple system configurations and understand the performance implications of architectural choices
◊ Show how instructions are represented at both the machine level and in the context of a symbolic assembler; be able to understand small MIPS programs and write MIPS assembly program segments
◊ Use different formats to represent numerical data and convert numerical data from one format to another
◊ Explain how an instruction is executed and the concept of datapaths and control
◊ Explain basic instruction level parallelism using pipelining and the major hazards that may occur
◊ Explain the effect of memory latency on running time; be able to describe the use of memory hierarchy to reduce the effective memory latency, in particular, the role of cache and virtual memory; be able to understand the principles of memory management.

Textbook

Prerequisites
CS 367 with a grade of C or above

GTA
Sivani Tadepalli (stadepal@masonlivegmu.edu) Monday 4:30 - 6:30 ENGR 5321

Grading policy
Homework: 40%, Midterm 20%, Final 40%
Homework assignments will involve programming. All three sections of CS 465 will have the
same homework assignments and deadlines.
Exams are entirely on paper.
Attendance is not required but highly suggested.

Honor code
Students are expected to live up to the GMU Honor Code. Students are also expected to abide by the CS Department’s Honor Code policy.

Accommodations
If you have a disability contact the Office of Disability Services (ODS) at (703) 993-2474. Any accommodation must be arranged through ODS.

Important Dates
August 29 First scheduled day of class
September 5 Last day to add, last day to drop without tuition penalty
September 19 Last day to drop with a 33% tuition penalty
September 29 Final drop deadline, 67% tuition penalty
October 9 No Class
November 23 No Class
December 7 Last scheduled day of class
December 14 1:30 - 4:15 Final Exam

Discussion Board
We will be using Piazza. The course can be found at:
http://piazza.com/gmu/fall2017/81143201770