

Computer Architecture HW5

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December 8, 2020

1 Critical Paper Reviews [1000 points]

see here

2 Parallel Speedup [200 points]

- a) a
- b) b
- c) c
- d)
 - i) i
 - ii) ii
 - iii) iii
- e)
 - i) i
 - ii) ii
 - iii) iii
 - iv) iv

3 Asymmetric Multicore [400 points]

- a) a
- b) b
- c)
 - i) i
 - ii) ii
 - iii) iii
- d) d
- e) e

4 Runahead Execution [200 points]

- a) a
- b) b
- c) c

5 Prefetching [200 points]

- a) a
- b) b
- c) c

6 Cache Coherence [300 points]

- a) a
- b) b
- c) c

7 Memory Consistency [300 points]

- a) a
- b) b
- c) c
- d) d

8 BONUS: Building Multicore Processors [250 points]

- a) a
- b) b
- c) c
- d) d
- e) e
- f) f