

# EECS 583 – Winter 2023

## HW2 Contest Winners

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# Contest: Rules

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## ❖ Correctness

- » Only eligible if your optimizer works on all correctness testcases
- » Had to implement removing uses of invariant loads

## ❖ Timing

- » Raw execution time: Average across 3 runs
- » Run on class machine (no other users)

## ❖ Winners

- » Per performance benchmark (must yield correct results)
- » Overall winner (Geo mean of speedups across performance benchmarks)

# Contest Stats

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- ❖ Lots of people got speedup this semester!
  - » Congrats to all who tried
- ❖ Gmean speedups ranged from 1.4x to 3.9x
  - » Variation due to more uses hoisted, heuristic of when to hoist
  - » Shows can also push well beyond traditional optis
- ❖ Performance benchmark top speedups
  - » Perf1: 1.7x
  - » Perf2: 2.1x
  - » Perf3: 9.1x
  - » Perf4: 7.9x

# Overall Winner – Drumroll please!

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- ❖ 4<sup>th</sup> place: Neel Shah (2.03x)
- ❖ 3<sup>rd</sup> place: Zhichen Wang(3.38x)
- ❖ 2<sup>nd</sup> place: Man Yuan (3.43x)
- ❖ **1<sup>st</sup> place: Vijairam Moorthy (3.87x)**

- ❖ **Detailed results (1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> )**

- » Perf1: Vijairam, Man, Neel
- » Perf2: Man, Zhichen, Neel
- » Perf3: Vijairam, Zhichen, Man
- » Perf4: Vijairam, Zhichen, Man