

Neural Network Preliminary Tensor Computing

Weijie Zhao

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HW2 Review

- 16/17 submissions
- 3/16 correct solutions
- Fastest solution:
 - Alphaeus Dmonte 169.75s
- Runner-ups:
 - Brian Finnerty 221.28s parallel: accuracy, grad, update
 - Jorge Leyva 283.7s gapped evaluation
 - Solutions no slower than 339.5s will get 15 pts

xxxtargzlog 8 245.64 [0.01, 0.01, 0.02, 0.04, 0.04, 0.04, 0.07, 120.0, 120.0, 5.41] [8, 9]

- All grades will be finalized at the end of 10/31

Tensor

- Dense
 - Column major
 - Row major
 - Stride
- Sparse
 - Compressed representation
 - Set intersection

Differentiation

- Numerical differentiation
- Symbolic differentiation
 - Chain rules
- Forward mode auto differentiation
- Reverse mode auto differentiation