Final Project

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NoC-based DNN design

❖ Please design a DNN model by using NoC interconnection. The involved DNN model is not limited to LeNet, AlexNet, GoogleNet, etc. You should train your own DNN model before implementation

Basic Requirement

   ❖ Baseline NoC architecture

Advanced Requirement (Bonus)

   ❖ Model-aware topology design and analysis

   ❖ Tradeoff between performance and
hardware cost (i.e., bitwidth optimization after quantization, etc.)

❖ Some useful materials

   ❖ NoC infrastructure: NN-Noxim (please visit my lab website to download)

Final Presentation

❖ Presentation date and the code submission deadline are both **6/14**
  ❖ The presentation order will be announced soon.

❖ A discussion forum will be opened for QA and any discussions

❖ Grades of the final presentation
  ❖ Peer review (50%): Students' average score (30%) + TAs' average score (20%) + teacher's score (50%)
  ❖ Code correctness (50%)

❖ Please submit
  ❖ Your code
  ❖ PPT file
  ❖ (bonus) WORD report