

ECE471: Embedded Systems – Homework #10
Pi Cluster In-class Reading

Due: 18 November 2015, 9:30am

1. Read the Paper

Read the following paper:

http://web.eece.maine.edu/~vweaver/projects/pi-cluster/2014_cohpc_cluster_extended.pdf

2. Answer the following questions (10pts)

- (a) If you wanted maximum MFLOPS with one ARM embedded board, which board would you use?
- (b) If you wanted lowest power with one ARM embedded board, which board would you use?
- (c) If you wanted maximum MFLOPs/W, which architecture should you use, Intel or ARM?
- (d) If you wanted maximum MFLOPs per dollar, which architecture should you use, Intel or ARM?
- (e) If you were building a cluster, what type of device would you make it out of?

3. Submitting the Results

Just e-mail me the answers to the 5 questions. Just plain text in the e-mail is fine.