

**ECE574: Embedded Systems – Homework #7**  
Pi Cluster In-class Reading

**Due: 18 November 2015, 3:30pm**

**1. Read the Paper**

Read the following paper:

[http://web.eece.maine.edu/~vweaver/projects/pi-cluster/2014\\_cohpc\\_cluster\\_extended.pdf](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.