

# Sprint Report #3

December 2, 2015

## Team Overview

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### Project

ARM Cluster

### Members

- Andrew Hoover
- Samantha Kranstz
- Christine Sorensen

### Sponsor

Dr. Christer Karlsson

### Meeting Times

Tuesdays and Thursdays at 1:00pm

## Sprint Overview

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## Setback

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## Deliverables

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- Cluster

## Activities

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### Team

- Assembled cluster
- Debugged boot-up error

### Andrew Hoover

- Installed LINPACK
- Assembled cluster
- Replaced broken ODROIDS
- Fixed IP address on the ODROIDS
- Connectd all ODROIDS over network
- Accessed the internet through the ODROIDS

- Mounted home directory of Snow White on the other ODROIDS
- Wrote script to shut down all ODROIDS
- Removed the sudo password
- Ran LINPACK with MPI code on the clusters

### **Samantha Kranstz**

- item

### **Christine Sorensen**

- Assigned hostnames to each of the ODROIDS
- Allowed ODROIDS to remote login to the others via hostname
- Replaced broken ODROIDS
- Wrote MPI code to run on all cores of the clusters
- Updated design documentation
- Wrote script to mount home directory of Snow White onto all ODROIDS at once
- Added ODROID's hostnames to the others' known hosts list
- Ran LINPACK with MPI code on the clusters
- Wrote sprint report

### **Work that is carried over into Sprint 3 is as follows:**

- Design cluster
- Build cluster
- Benchmark cluster
- Test message-passing

## **Backlog**

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- Build the cluster
- Code for the cluster
- Benchmark the cluster
- Experiment with different topologies
- Create a new mode of communication

## **Goals**

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- Go to research symposium
- Prepare Design Fair