

# Weekly Report

Matthew Royle

Week 20: 21 May 2008

## Summary of activities since last meeting

**Last meeting:** 14 May 2009

**Next meeting:** 21 May 2009

## Goals and Work targets

### Goals for this week

- Figure out how OpenCL implements parallelism
- Implement some form of enqueueing for the kernels, first in serial and then later in parallel
- Get started on my literature review

### Goals Achieved

- Learned that OpenCL can implement data parallel programming model and task parallel programming model
- Code example uses data parallel model, could be possible to implement it using a for loop and OpenMP directives
- Found more literature, one looking like it could be a core paper[1]

### Proposed goals for next week

- Produce a draft copy of literature survey

## Rate your work performance

- No practical work was achieved
- Understanding how the system works was achieved

## Issues

- Passing global IDs and local IDs to kernels will require some experimentation
- Difficult to find some core papers for literature survey

## References

- [1] Sam S. Stone John A. Stratton and Wen-mei W. Hwu. MCUDA: An Efficient Implementation of CUDA Kernels for Multi-Core CPUs, 2008.