

Timetable: Work plan and Milestones

Planned starting date is 16/10/2015.

1. **16/10/15 – 26/10/15** Familiarise myself with relevant Mirage libraries. Implement basic Path ORAM functor.
2. **27/10/15 – 09/11/15** Implement basic test harness. Start implementation of object store.
3. **10/11/15 – 23/11/15** Finish object store and use it to build more complex tests of the ORAM.
4. **24/11/15 – 04/12/15** Add recursion and statelessness to the ORAM.
5. **05/12/15 – 18/12/15** Write up implementation section of the dissertation for all parts completed so far.
6. **18/12/15 – 31/12/15** Write the search module and design tests for it.
7. **01/01/16 – 08/01/16** Write implementation section for the search module.
8. **09/01/16 – 12/01/16** Incorporate encryption library and write up its section of the implementation.
9. **13/01/16 – 29/01/16** Perform functional evaluation of the project, including unit tests and randomised testing. Write the progress report.
10. **30/01/16 – 08/02/16** Perform performance testing of the project, including micro-benchmarks for optimisation and macro-benchmarks for comparison with theoretical performance bounds.
11. **09/02/16 – 21/02/16** Perform security analysis, including testing the access patterns for randomness and ensuring the independence of subsequent accesses to the same location. Write up the evaluation section, achieving a complete first draft.
12. **22/02/16 – 06/03/16** Submit first draft to supervisors for feedback and modify based on feedback. (Begin extensions if choosing to do them).
13. **07/03/16 – 11/03/16** Perform further evaluation and refinement as necessary.
14. **12/03/16 – 25/03/16** Write final draft of dissertation and then leave it until submission time, in order to focus on revision.
15. **01/05/16 – 13/05/16** Reread and make any final edits and then submit.

Updated on 01/02/16 to reflect small changes.