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| **Research Schedule 2014 - 23 weeks**   |  | | --- | | * Start - Jan 2, 2014 | | * Estimated Paper Deadline - June 12, 2014 | | * PGAS Conference Eugene, Oregon - October 7-10, 2014 | | **Miletstones**   |  | | --- | | * Finish Cyclic Implementation | | * Finish Block Cyclic implementation | | * Test Implementation on 15 benchmarks | | * Crafting the Paper | | * Extra Compiler Tasks - Not Imperative to Completing Paper | | * Submission to PGAS Conference | |

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| **Schedule** |

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| Tasks | Corresponding Milestone | Time to Complete (weeks) | Date Completed | Person Responsible for Task | Status |
| Implement bounding memory usage (with strip mining) | Finish Cyclic Implementation | 1 | 1/9/14 | Aroon |  |
| Implement bounding memory usage (with strip mining) | Finish Block Cyclic implementation | 1 | 1/16/14 | Aroon |  |
| Collect 15 appropriate and diverse parallel benchmarks (from Chapel directory or Polybench) | Test Implementation on 15 benchmarks | 1 | 1/9/14 | Josh | Completed |
| For each benchmark implement parallel computation with zippered iteration | Test Implementation on 15 benchmarks | 2 | 1/23/14 | Josh |  |
| For each benchmark add functionality to confirm correctness of calculation, calculate runtime, message count, and message volume (for modulo unrolling cases only) | Test Implementation on 15 benchmarks | 2 | 2/6/14 | Josh |  |
| For each benchmark collect correctness, runtime, message count, and message volume (for modulo unrolling cases only) for all 5 configurations (see excel spreadsheet). | Test Implementation on 15 benchmarks | 2 | 2/20/14 | Josh/Aroon |  |
| Order configurations from least advanced to most advanced | Test Implementation on 15 benchmarks | 1 | 1/23/14 | Aroon |  |
| Find relevant sources, relevant literature, past studies done | Crafting the Paper | 2 | 2/6/14 | Aroon |  |
| Analyze data - comparing runtime, message count, and message volume to the best existing implementations | Crafting the Paper | 2 | 3/6/14 | Aroon |  |
| Build tools to evaluate best existing implementations if they aren’t evaluated yet | Crafting the Paper | 2 | 3/20/14 | Aroon |  |
| Develop structure of paper - tentative sections: Introduction, Related Work, Methods (possibly multiple sections for this), Results, Conclusions | Crafting the Paper | 1 | 3/27/14 | Aroon |  |
| First Draft of Paper | Crafting the Paper | 2 | 4/10/14 | Aroon |  |
| Receive Feedback and refine draft | Crafting the Paper | 2 | 4/24/14 | Aroon |  |
| Integrate conversion of affine array accesses in loops to zippered iteration | Extra Compiler Tasks - Not Imperative to Completing Paper | 2 | 3/6/14 | Josh/Aroon |  |
| Submission to PGAS Conference | Submission to PGAS Conference | 1 | 5/1/14 | Aroon |  |