

## Outline of the ACAR Final Report (Posted in Google Docs)

- Executive Summary
- 1. Background, Motivation and Objectives (2 pages)
- 2. Why the Current State of the Art will not Do (1-2 pages)
- 3. Recommendations for Computer Architecture Research Thrusts for 2020-2025
  - 3.1. Area 1 (3 pages)
    - 3.1.1. Detailed description of proposed research area (If relevant: detail basic and applied components of the research thrust)
    - 3.1.2. Why is this research transformative (Succinct statement)
    - 3.1.3. What are the deliverables (Succinct)
    - 3.1.4. Research disciplines involved (Succinct)
    - 3.1.5. Risk to industry and society if not pursued (Succinct)
    - 3.1.6. Benefits to industry and society at large of success (Succinct)
    - 3.1.7. Why not let industry do it (Succinct)
    - 3.1.8. Likelihood of success (Succinct)
    - 3.1.9. Attach slides that you used to prepare this section
  - 3.2. Area 2 (3 pages)
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- 4. Educational Perspective (3 pages)
  - 4.1. Revising the CS curriculum for parallelism
    - 4.1.1. Parallelism in CS 101
    - 4.2.2. Parallelism in core CS
    - 4.2.3. Parallelism in upper-division applications courses
    - 4.2.4. Graduate education
  - 4.2. Tying research to education
  - 4.3. Attach slides that you used to prepare this section
- 5. Industry Collaboration (3 pages)
  - 5.1. Who are the industry partners most likely to be involved
  - 5.2. Existing industry support
  - 5.3. Why industry will not succeed on its own
  - 5.4. Attach slides that you used to prepare this section
- 6. Funding Collaborators (3 pages)
  - 6.1. Which funding agencies should invest in this area
  - 6.2. Collaborations between funding agencies
  - 6.3. What scale and shape of funding is required to ensure success
  - 6.4. Additional ideas for new programs
  - 6.5. Attach slides that you used to prepare this section
- 7. Acknowledgments
- 8. Appendix: Workshop position papers and their slides