

Samsung Summer Institute Take-Home Assignment (June 15, 2007)

1. Assignment: read and write commentaries on 2 research papers. Three papers will be posted on the course website. Choose any 2 of the 3 papers and send your commentaries to [calton.pu@cc.gatech.edu](mailto:calton.pu@cc.gatech.edu).
2. Each commentary should contain 2 paragraphs. The first paragraph is an abstract that summarizes the main points of the paper. Abstracts should not be a copy of the paper's abstract – they should show some understanding of the material. The second paragraph should discuss the potential application of the techniques described in the paper to some practical application area.
3. Grading: each commentary will receive a grade of zero=not received, 1=received, 2=good abstract or discussion, 3=good abstract and discussion.

The three papers are:

- **"Specialization Tools and Techniques for Systematic Optimization of System Software"**, by Dylan McNamee, Jonathan Walpole, Calton Pu, Crispin Cowan, Charles Krasic, Ashvin Goel, and Perry Wagle of OGI, and Charles Consel, Gilles Muller, and Renaud Marlet of IRISA, *ACM Transactions on Computer Systems*, Vol. 19, No. 2, May 2001, pp 217-251.
- **"Automatic Specialization of Protocol Stacks in OS kernels."**, S. Bhatia, C. Consel, A.-F. LeMeur, and C. Pu. *In Proceedings of the 29th Annual IEEE Conference on Local Computer Networks*, Tampa, Florida, November 2004.
- **"Code Generation for WSLAs Using AXpect."** Galen Swint, Calton Pu. *IEEE International Conference on Web Services (ICWS 2004)*. July 2004. San Diego, California.