

# Topics Since Midterm 2

CS 220, Introduction to Parallel Computing

Fall, 2011

In addition to the topics covered by Midterms 1 and 2, any of the following topics may be covered on the final exam (Wed, Dec 14, 10-12).

- Barrier implementations
- Condition variables
- TSP
- DFS
- Recursive and non-recursive implementations of DFS
- Pthreads implementations of TSP: static, dynamic partitioning
- Implementations of shared linked list
- Read-write locks
- OpenMP
- pragma
- Parallel directive
- Critical directive
- Parallel for directive
- `omp_get_thread_num`
- `omp_get_num_threads`

- `num_threads` clause
- `reduction` clause
- Scoping in OpenMP: default, private, shared clauses
- `schedule` clause: static, dynamic, guided, runtime
- Which loops OpenMP can parallelize
- Loop-carried dependence
- For directive