School of Computer Science

CS 343
Concurrent and Parallel Programming

Course Notes* Fall 2015

http://www.student.cs.uwaterloo.ca/~cs343

μC++ download or Github (installation: sudo sh u++-6.1.0.sh)

September 7, 2015

Outline

An introduction to concurrent programming, with an emphasis on language constructs. Major topics include: exceptions, coroutines, atomic operations, critical sections, mutual exclusion, semaphores, high-level concurrency, deadlock, interprocess communication, process structuring, shared memory and distributed architectures. Students learn how to structure, implement and debug complex control-flow.

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