Manticore is a high-level parallel programming language aimed at general-purpose applications running on multi-core processors. Manticore supports parallelism at multiple levels: explicit concurrency and coarse-grain parallelism via CML-style constructs and fine-grain parallelism via various light-weight notations, such as parallel tuple expressions and NESL/Nepal-style parallel array comprehensions.

We have been working on a compiler and runtime system for Manticore since the beginning of 2007. Currently we have most of the parallel features implemented and running on Linux and MacOS X on the x86-64 (a.k.a. AMD64) architecture. Our current implementation efforts are focused on performance tuning, extending the language implementation with NESL-style flattening, and adding mutable state cleanly.

Recent Updates
- **Installation instructions**
- **Documentation**
- **Compiler Overview**

Recently Updated
- Home
  - Oct 15, 2012 • updated by Lars August Bergstrom • view change
- Runtime configuration-file format
  - Oct 15, 2012 • updated by Lars August Bergstrom • view change
- Flat-heap implementation notes
  - Oct 15, 2012 • updated by Lars August Bergstrom • view change
- Logging
  - Oct 15, 2012 • updated by Lars August Bergstrom • view change
- proposed move to System F
  - Oct 15, 2012 • updated by Lars August Bergstrom • view change
- C calls
  - Oct 15, 2012 • updated by Lars August Bergstrom • view change
- Set-once memory
  - Oct 15, 2012 • updated by Lars August Bergstrom • view change
- Fiber-local storage
  - Oct 15, 2012 • updated by Lars August Bergstrom • view change
- MLB
  - Oct 15, 2012 • updated by Lars August Bergstrom • view change
- Inline BOM
  - Oct 15, 2012 • updated by Lars August Bergstrom • view change
- Compiler Overview
  - Oct 15, 2012 • updated by Lars August Bergstrom • view change
- Work Items
  - Oct 15, 2012 • updated by Lars August Bergstrom • view change
- Compile on Windows
  - Oct 12, 2012 • updated by Lars August Bergstrom • view change
- Atomicity
  - Oct 12, 2012 • updated by Lars August Bergstrom • view change
- Scheduler
  - Oct 12, 2012 • updated by Lars August Bergstrom • view change