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.

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