Home

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 lightweight 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.

• 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