



Fine-Grain Parallelism

MQPs for 2011-2012
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<http://www.wpi.edu/~lauer/MQP>



Fine-Grain Parallelism

- Concurrent execution in multi-core environment at level of the *function call*
 - Multiple function calls in a give scope execute concurrently
 - Caller and callee execute concurrently
- 2010-2011 project
 - Defined runtime model
 - Mapping from stylized C to this model



MQPs for 2011–2012

- Interactive graphical editor for graphical data flow language
 - To map program into stylized C
- Modify compiler code generator to map to run-time model
 - *LLVM*
- Run-time library support for fine-grain parallelism in user-space