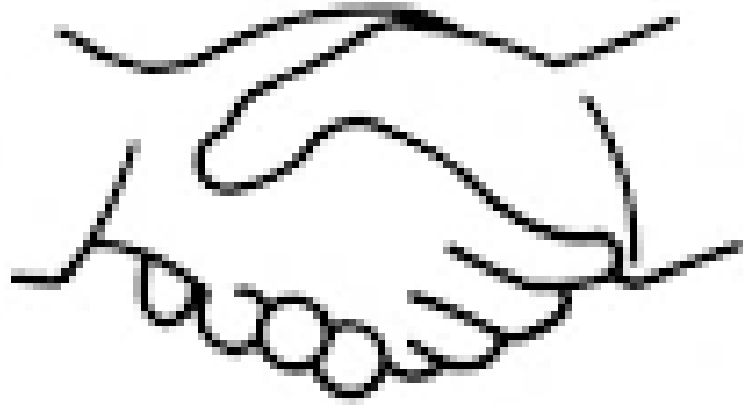


The Contract



- The Developer respects the rules
 - Atomic operations
 - Partial ordering of operations
 - Visible effects of operations
- The System wants to optimize
 - Compiler
 - Processor
 - Memory system



Highly optimized program
Tailored for the architecture

The Contract

strong



- One control flow



- Tasks
- Threads
- Condition variables



- Sequential consistency
- Acquire-release semantics
- Relaxed semantics

weak

- More optimization potential for the system
- The number of potential interleaving grows exponentially
- More and more the domain of experts
- Break of the intuition
- Area of micro-optimization