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Effect-Dependent Transformations for Concurrent Programs

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Highlights

- Denotational semantics for an effect system for concurrency.
- The Semantics validates a number of new effect-dependent program equivalences.
- In comparison to the conference version: more detail about the higher-order version of Brookes' trace semantics (Section 3).
- More examples, in particular the one on loop parallelization.
- Detailed proofs of the main results, in particular soundness of the logical relation and general reasoning principles.

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