

LEAGER PROGRAMMING

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Abstract

Leager programming, a portmanteau of “lazy” and “eager” or “limit” and “eager,” is an evaluation strategy that mixes lazy evaluation and eager evaluation. This evaluation strategy allows iterators to precompute the next value in a separate thread, storing the result in a cache until it is needed by the caller. Leager programming often takes the form of an iterator, which alone allows data to be prefetched, and when chained together can be used to form concurrent pipelines. We found a dramatic reduction in latency on par with code written with asynchronous callbacks, while making minimal modifications to the initial sequential code.