LEAGER PROGRAMMING

Anthony Chyr

UUCS-19-002

School of Computing
University of Utah
Salt Lake City, UT 84112 USA

February 26, 2019

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 when chained together can be used to form concurrent pipelines. Leager programming also provides an alternative to asynchronous callbacks, which can be used to prefetch data in a way that may dramatically reduce the latency of blocking operations.