package com.twitter.ann.service.query\_server.common.throttling

/\*\*

\* A simple ring buffer that keeps track of long values over `window`.

\*/

private[throttling] class WindowedStats(window: Int) {

private[this] val buffer = new Array[Long](window)

private[this] var index = 0

private[this] var sumValue = 0L

private[this] var count = 0

def add(v: Long): Unit = {

count = math.min(count + 1, window)

val old = buffer(index)

buffer(index) = v

index = (index + 1) % window

sumValue += v - old

}

def avg: Double = { sumValue.toDouble / count }

def sum: Long = { sumValue }

}