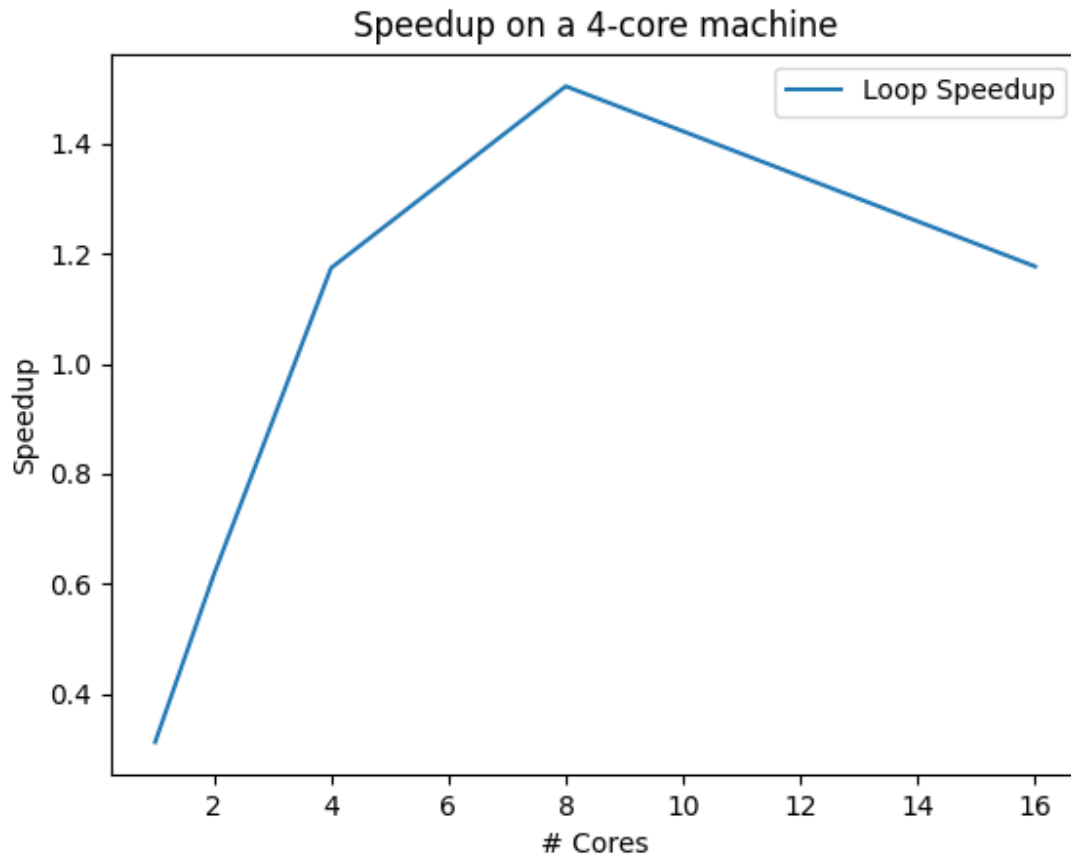


Ari 'aith' I.



Part 2 is similar to version 2 of part 1; we run the addition operations to be run in parallel by breaking up the data dependency chain, but instead to sum the elements of an array. We designate partitions or 'chunks' of the array that can be summed together and interleaved between other chunks s.t. no data dependency occurs. In the end we add each chunk into a single partition. This step cannot be run in parallel in my implementation, but it is trivially simple to allow parallelism here by instead summing partitions together into independent variables, until there are only 2 independent variables left to sum together.