Worksheet #31: impact of distribution on parallel completion time (rather than locality)

1. public void sampleKernel(
   int iterations, int numChunks, Distribution dist) {
   for (int iter = 0; iter < iterations; iter++) {
      finish(() -> {
         forseq (0, numChunks - 1, (jj) -> {
            asyncAt(dist.get(jj), () -> {
               doWork(jj);
            }); // Assume that time to process chunk jj = jj units
         });
   }); // for iter
} // sample kernel

• Assume an execution with n places, each place with one worker thread
• Will a block or cyclic distribution for dist have a smaller abstract completion time, assuming that all tasks on the same place are serialized with one worker per place?

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