

Worksheet: impact of distribution on parallel completion time

```
1. public void sampleKernel(  
2.     int iterations, int numChunks, Distribution dist) {  
3.     for (int iter = 0; iter < iterations; iter++) {  
4.         finish(() -> {  
5.             for (0, numChunks - 1, (jj) -> {  
6.                 asyncAt(dist.get(jj), () -> {  
7.                     doWork(jj);  
8.                     // Assume that time to process chunk jj = jj units  
9.                 });  
10.            });  
11.        });  
12.    } // for iter  
13. } // 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?
- Answer: Cyclic distribution because it leads to better load balance (locality was not a consideration in this problem)

