

# Worksheet #17:

## Critical Path Length for Computation with Signal Statement

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Compute the WORK and CPL values for the program shown below. How would they be different if the signal() statement was removed? (Hint: draw a computation graph as in slide 10)

```
1. finish(() -> {  
2.     final HjPhaser ph = newPhaser(SIG_WAIT);  
3.     asyncPhased(ph.inMode(SIG_WAIT), () -> { // Task T1  
4.         A(0); doWork(1);    // Shared work in phase 0  
5.         signal();  
6.         B(0); doWork(100); // Local work in phase 0  
7.         next(); // Wait for T2 to complete shared work in phase 0  
8.         C(0); doWork(1);  
9.     });  
10.    asyncPhased(ph.inMode(SIG_WAIT), () -> { // Task T2  
11.        A(1); doWork(1);    // Shared work in phase 0  
12.        next(); // Wait for T1 to complete shared work in phase 0  
13.        C(1); doWork(1);  
14.        D(1); doWork(100); // Local work in phase 0  
15.    });  
16.}); // finish
```

