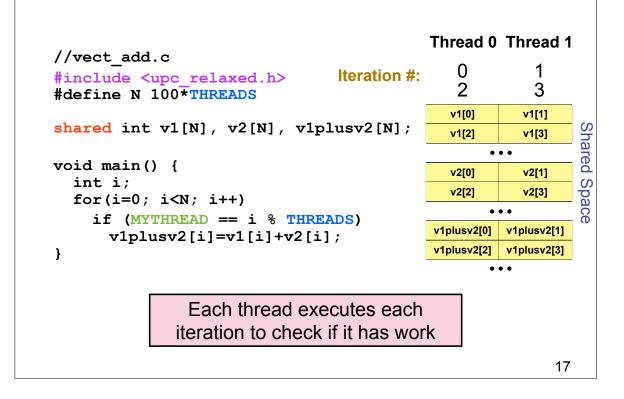
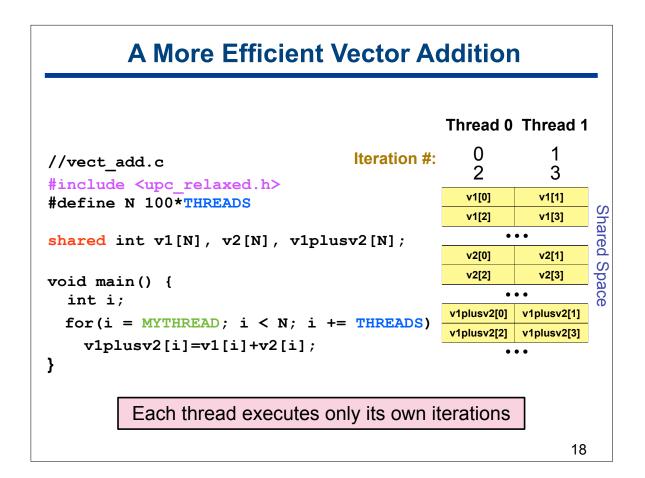
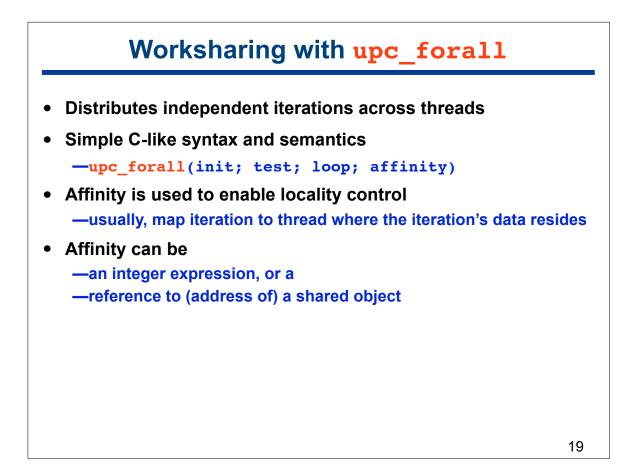
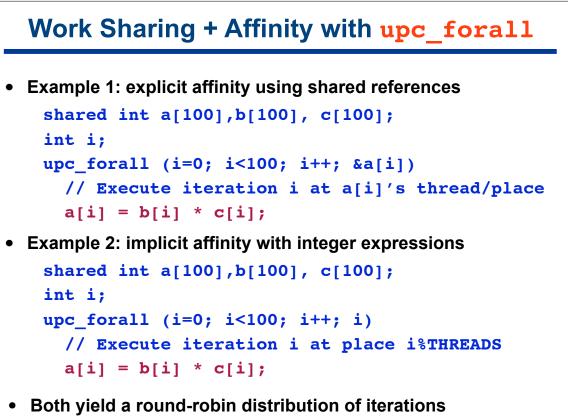


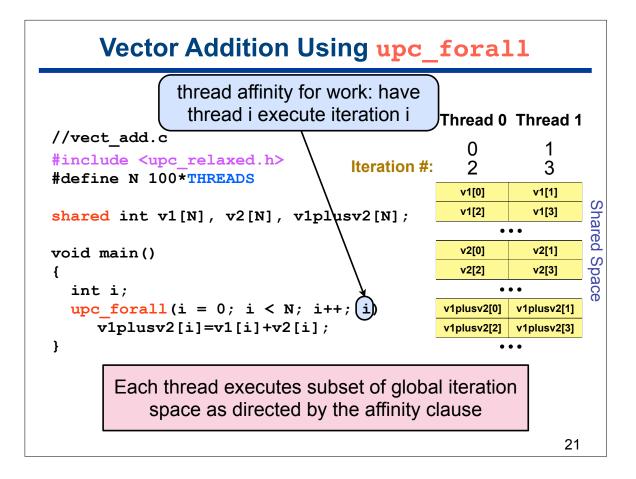
## A Simple UPC Program: Vector Addition

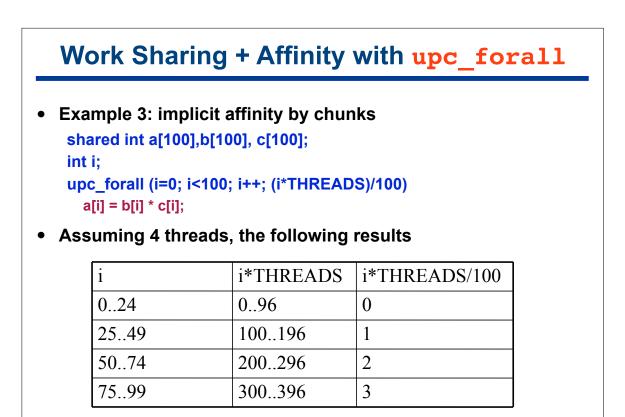






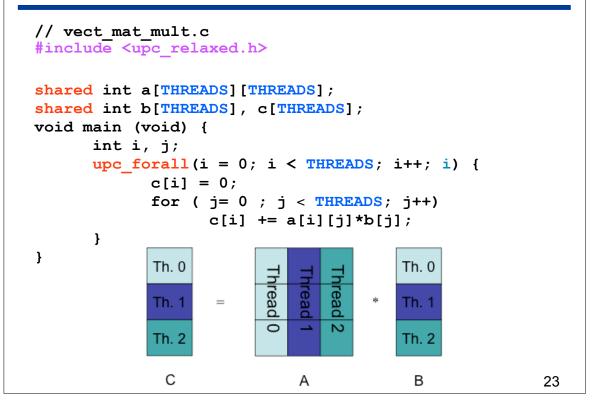


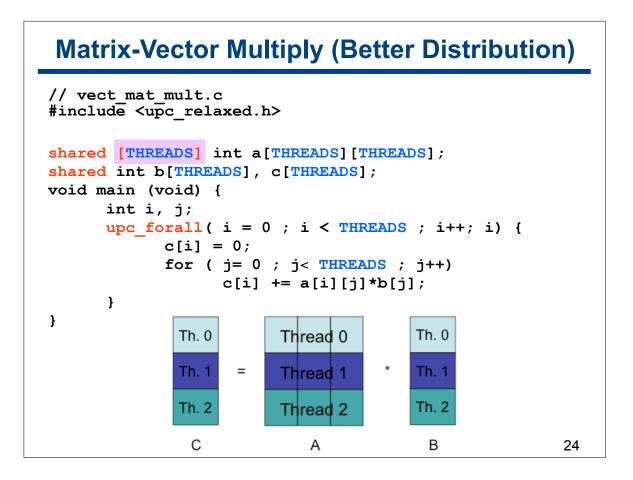


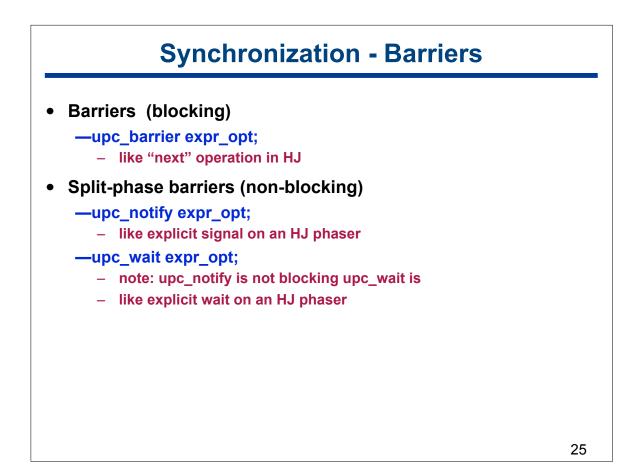


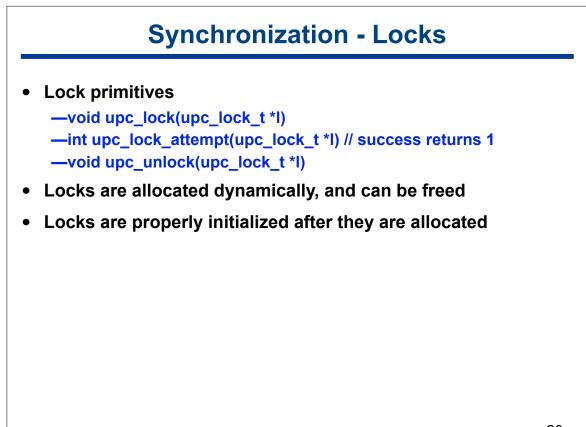
Let's explore this further in worksheet 36!

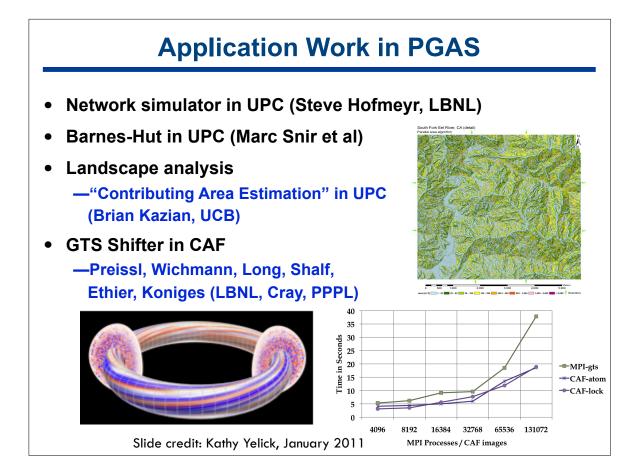
## **Matrix-Vector Multiply (Default Distribution)**











## **Worksheet #36: UPC data distributions**

Name 1: \_\_\_\_\_

Name 2: \_\_\_\_\_

In the following example from slide 22, assume that each UPC array is distributed by default across threads with a cyclic distribution. In the space below, identify an iteration of the upc\_forall construct for which all array accesses are local, and an iteration for which all array accesses are non-local (remote). Assume THREADS >= 2. Explain your answer in each case.

```
shared int a[100],b[100], c[100];
```

```
int i;
upc_forall (i=0; i<100; i++; (i*THREADS)/100)
a[i] = b[i] * c[i];
```