Intermediate OpenMP

Username: tra0xx
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Requesting Resources qsub resources:
```
$ qsub –I –l nodes=1:ppn=32:xe,walltime=01:30:00
```


Example 1: Learning conditional loop parallelism
Compile:
```
$ cc parallel_for.c –o parallel_for
```

Run:
```
$ export OMP_NUM_THREADS=4 && ./parallel_for
```

Output: Please try different number for number of iterations and limit when the parallel should run in parallel.

Example 3: Race Coundition
Compile:
```
$ cc race_condition.c –o race_condition
```
Run:
```
$ export OMP_NUM_THREADS=4 && ./race_condition
```
Output:
```
There is something wrong with this example fix it
Thread 2 : My value of tid (thread id) is 2
Thread 0 : My value of tid (thread id) is 0
Thread 1 : My value of tid (thread id) is 1
Thread 3 : My value of tid (thread id) is 3
```

Did you figure out what's wrong?
Hint: do a # comparison

Example 4: Variable initialization
Compile:
```
$ cc initialization.c –o initialization
```
Run:
```
$ export OMP_NUM_THREADS=4 && ./initialization
```

Example 5: Pi Numerical integration
Compile:
```
$ cc initialization.c –o initialization
```
Run:
```
$ export OMP_NUM_THREADS=4 && ./initialization
```