17级并行与分布式计算

HW2 17341137 宋震鹏(补交实验部分)

ToDo部分代码填充

```
for (int i=0; i<numThreads; i++) {
    // TODO: Set thread arguments here.
    args[i].x0 = x0;
    args[i].y0 = y0;
    args[i].x1 = x1;
    args[i].y1 = y1;
    args[i].width = width;
    args[i].height = height;
    args[i].maxIterations = maxIterations;
    args[i].output = output;
    args[i].numThreads = numThreads;
    args[i].threadId = i;
}</pre>
```

实验截图

```
szp@szp-virtual-machine:/mnt/hgfs/ShareVmware/Homework-asst-2 (2)/Homework-asst-2/prog1_mandelbrot_threads$ make
/bin/mkdtr -p objs/
g++ -m64 -I../common -Iobjs/ -03 -Wall -o mandelbrot objs/main.o objs/mandelbrot.o objs/ppm.o -lm -lpthread
szp@szp-virtual-machine:/mnt/hgfs/ShareVmware/Homework-asst-2 (2)/Homework-asst-2/prog1_mandelbrot_threads$ ./mandelbrot
[mandelbrot serial]: [344.076] ms
Wrote image file mandelbrot-serial.ppm
Hello world from thread 1
Hello world from thread 0
Hello world from thread 0
Hello world from thread 1
Hello world from thread 1
Hello world from thread 1
Hello world from thread 0
Hello world from thread 1
[mandelbrot thread]: [354.408] ms
Wrote image file mandelbrot-thread.ppm
++++ (0.97x speedup from 2 threads)
```

```
szp@szp-virtual-machine:/mnt/hgfs/ShareVmware/Homework-asst-2 (2)/Homework-asst-2/prog1_mandelbrot_threads$ ./mandelbrot -t 4
[mandelbrot serial]: [338.715] ms
Wrote image file mandelbrot-serial.ppm
Hello world from thread 0
Hello world from thread 0
Hello world from thread 1
Hello world from thread 3
Hello world from thread 3
Hello world from thread 1
Hello world from thread 1
Hello world from thread 2
Hello world from thread 3
Hello world from thread 0
Hello world from thread 1
Hello world from thread 1
Hello world from thread 0
Hello world from thread 0
Hello world from thread 3
Hello world from thread 0
Hello world from thread 3
Hello world from thread 1
Hello world from thread 1
Hello world from thread 3
Hello world from thread 1
Hello world from thread 3
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Hello world from thread 1
Hello world from thread 3
Hello world from thread 1
Hello world from thread 1
Hello world from thread 3
Hello world from thread 1
Hello world from thread 1
Hello world from thread 3
Hello world from thread 1
Hello world from thread 3
Hello world from thread 4
Hello world from threa
```

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