多线程随笔

```
1.public class CallableTest {
 public static void main(String[] args) {

  String[] words = { "first", "second", "world", "thread" };
        //
  ExecutorService pool = Executors.newCachedThreadPool();
  Set<Future<Integer>> set = new HashSet<Future<Integer>>();

  for (String word : words) {
   Callable callable = new testCallable(word);
   Future future = pool.submit(callable);
   try {
    System.out.println(future.isDone()+Thread.currentThread().getName());
    System.out.println(future.get().toString()+"aaa");
    System.out.println(future.isDone()+Thread.currentThread().getName());
   } catch (InterruptedException e) {
    // TODO Auto-generated catch block
    e.printStackTrace();
   } catch (ExecutionException e) {
    // TODO Auto-generated catch block
    e.printStackTrace();
   }
   set.add(future);
  }
  int sum = 0;
  for (Future future : set) {
   try {
    sum += (int) future.get();
   } catch (InterruptedException e) {
    e.printStackTrace();
   } catch (ExecutionException e) {
    e.printStackTrace();
   }
  }
  System.out.println("数组中所有单词的总长度为：" + sum);
 }

}

class testCallable implements Callable {
 private String word;

 public testCallable(String word) {

  this.word = word;
```

```
 }

 @Override
 public Integer call() throws Exception {
  System.out.println(Thread.currentThread().getName() + ": 开始执行");
  try {
   Thread.currentThread().sleep(2000);
  } catch (InterruptedException e) {
   e.printStackTrace();
  }
  System.out.println(Thread.currentThread().getName() + ": 正在处理");
  System.out.println(Thread.currentThread().getName() + ": " + word + "长度为：" + word.length());
  return Integer.valueOf(word.length());
 }
}
```

处理结果:

```
pool-1-thread-1: 开始执行
pool-1-thread-1: 正在处理
pool-1-thread-1: first长度为：5
truemain
5aaa
truemain
falsemain
pool-1-thread-2: 开始执行
pool-1-thread-2: 正在处理
pool-1-thread-2: second长度为：6
6aaa
truemain
falsemain
pool-1-thread-2: 开始执行
pool-1-thread-2: 正在处理
pool-1-thread-2: world长度为：5
5aaa
truemain
falsemain
pool-1-thread-2: 开始执行
pool-1-thread-2: 正在处理
pool-1-thread-2: thread长度为：6
6aaa
truemain
数组中所有单词的总长度为：22
```