Java Parallel Streams Internals: Parallel Processing w/the Common Fork-Join Pool (Part 2)

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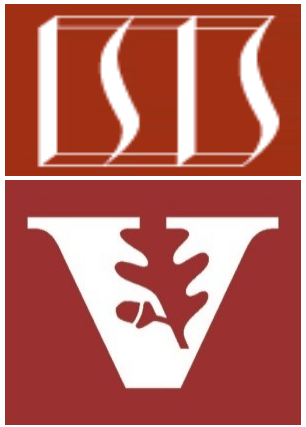

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Learning Objectives in this Part of the Lesson

- Understand parallel stream internals, e.g.
  - Know what can change & what can't
  - Partition a data source into "chunks"
- Process chunks in parallel via the common fork-join pool
  - Know how to apply the common fork-join pool

```
Long compute() {
  ...
  List<ForkJoinTask<Long>> forks =
    new ArrayList<>();

  for (File file : mFile.listFiles())
     forks.add(new FileCounterTask
       (file, mDocCount, mFileCount)
        .fork());

  long sum = 0;

  for (ForkJoinTask<Long> task : forks)
    sum += task.join();

  return sum; ...
```

See github.com/douglascraigschmidt/LiveLessons/tree/master/Folders/ForkJoin

Applying the Common Fork-Join Pool

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See www.oracle.com/technetwork/articles/java/fork-join-422606.html

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Create an ArrayList of recursive task objects

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Create & fork tasks to search folders recursively

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Join all the tasks together & sum the # of search matches

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Return the final sum

End of Java Parallel Streams Internals: Parallel Processing w/the Common Fork-Join Pool (Part 2)