

```
./runcas.sh: line 11: syntax error: unexpected end of file
(base) Yifans-MBP:Desktop yifan$ clear
```

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(base) Yifans-MBP:Desktop yifan$ ./runcas.sh
./MI.M03992_0353.001.FLD0004.PTEN2-12_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.4219 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0004.PTEN2-12_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0005.PTEN2-24_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.87841 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0005.PTEN2-24_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0011.PTEN2-1_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
```

```
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.97697 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0011.PTEN2-1_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0012.PTEN2-13_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.96808 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0012.PTEN2-13_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0013.PTEN2-25_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.85088 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0013.PTEN2-25_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0019.PTEN2-2_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.90704 seconds elapsed.
The output for above file is generated
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./MI.M03992_0353.001.FLD0019.PTEN2-2_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0020.PTEN2-14_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.96607 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0020.PTEN2-14_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0027.PTEN2-3_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.83777 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0027.PTEN2-3_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0028.PTEN2-15_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.88512 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0028.PTEN2-15_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0035.PTEN2-4_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
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Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.50878 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0035.PTEN2-4_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0036.PTEN2-16_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.83626 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0036.PTEN2-16_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0043.PTEN2-5_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.89969 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0043.PTEN2-5_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0044.PTEN2-17_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.81526 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0044.PTEN2-17_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0051.PTEN2-6_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...

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Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.90852 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0051.PTEN2-6_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0052.PTEN2-18_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.76076 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0052.PTEN2-18_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0059.PTEN2-7_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
1.40591 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0059.PTEN2-7_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0060.PTEN2-19_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.85478 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0060.PTEN2-19_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0067.PTEN2-8_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
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Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.75362 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0067.PTEN2-8_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0068.PTEN2-20_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.74641 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0068.PTEN2-20_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0075.PTEN2-9_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.79669 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0075.PTEN2-9_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0076.PTEN2-21_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.97113 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0076.PTEN2-21_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0083.PTEN2-10_R1.fastq_input.txt_100random_input.txt
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Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.89832 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0083.PTEN2-10_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0084.PTEN2-22_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.88397 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0084.PTEN2-22_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0091.PTEN2-11_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.8647 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0091.PTEN2-11_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0092.PTEN2-23_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
```

```
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.86246 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0092.PTEN2-23_R1.fastq_input.txt_100random_input.txt.output.txt
(base) Yifans-MBP:Desktop yifan$ ./runcas.sh
./MI.M03992_0353.001.FLD0006.PTEN3-11_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
3.71179 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0006.PTEN3-11_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0007.PTEN3-23_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.96722 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0007.PTEN3-23_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0014.PTEN3-12_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
3.2574 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0014.PTEN3-12_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0015.PTEN3-24_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
```


Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.84734 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0015.PTEN3-24_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0021.PTEN3-1_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.32046 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0021.PTEN3-1_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0022.PTEN3-13_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.9966 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0022.PTEN3-13_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0023.PTEN3-25_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.91653 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0023.PTEN3-25_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0029.PTEN3-2_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...

```
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.84412 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0029.PTEN3-2_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0030.PTEN3-14_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.85483 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0030.PTEN3-14_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0037.PTEN3-3_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.847 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0037.PTEN3-3_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0038.PTEN3-15_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.90394 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0038.PTEN3-15_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0045.PTEN3-4_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
```

```
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.86979 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0045.PTEN3-4_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0046.PTEN3-16_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.85634 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0046.PTEN3-16_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0053.PTEN3-5_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.95433 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0053.PTEN3-5_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0054.PTEN3-17_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
```

Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.77941 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0054.PTEN3-17_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0061.PTEN3-6_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.87867 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0061.PTEN3-6_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0062.PTEN3-18_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.66192 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0062.PTEN3-18_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0069.PTEN3-7_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.93119 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0069.PTEN3-7_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0070.PTEN3-19_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.88714 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0070.PTEN3-19_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0077.PTEN3-8_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.9227 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0077.PTEN3-8_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0078.PTEN3-20_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
3.10104 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0078.PTEN3-20_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0085.PTEN3-9_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.95142 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0085.PTEN3-9_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0086.PTEN3-21_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...

```

Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.85377 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0086.PTEN3-21_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0093.PTEN3-10_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.98546 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0093.PTEN3-10_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0094.PTEN3-22_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.32594 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0094.PTEN3-22_R1.fastq_input.txt_100random_input.txt.output.txt
(base) Yifans-MBP:Desktop yifan$ ./runcas.sh
./MI.M03992_0353.001.FLD0001.p53-1_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
3.42478 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0001.p53-1_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0002.p53-13_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...

```

```
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.94308 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0002.p53-13_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0003.p53-25_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.91229 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0003.p53-25_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0009.p53-2_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.97362 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0009.p53-2_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0010.p53-14_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
```

```
Comparing patterns in chunk #4...
2.87317 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0010.p53-14_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0017.p53-3_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
3.00733 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0017.p53-3_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0018.p53-15_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.97488 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0018.p53-15_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0025.p53-4_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.97503 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0025.p53-4_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0026.p53-16_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
```



```
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.82097 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0026.p53-16_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0033.p53-5_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.9684 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0033.p53-5_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0034.p53-17_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.23815 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0034.p53-17_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0041.p53-6_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.90124 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0041.p53-6_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0042.p53-18_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
```

2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.63314 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0042.p53-18_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0049.p53-7_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.74653 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0049.p53-7_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0050.p53-19_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.86686 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0050.p53-19_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0057.p53-8_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
3.02339 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0057.p53-8_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0058.p53-20_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...

Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.82627 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0058.p53-20_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0065.p53-9_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.88548 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0065.p53-9_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0066.p53-21_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.84535 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0066.p53-21_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0073.p53-10_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.52914 seconds elapsed.

```

The output for above file is generated
./MI.M03992_0353.001.FLD0073.p53-10_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0074.p53-22_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.82046 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0074.p53-22_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0081.p53-11_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.90147 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0081.p53-11_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0082.p53-23_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
3.00893 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0082.p53-23_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0089.p53-12_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...

```

```
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.98168 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0089.p53-12_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0090.p53-24_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
3.02779 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0090.p53-24_R1.fastq_input.txt_100random_input.txt.output.txt
(base) Yifans-MBP:Desktop yifan$ ./runcas.sh
./MI.M03992_0353.001.FLD0008.BRCA1-10_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
3.38538 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0008.BRCA1-10_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0016.BRCA1-11_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.34253 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0016.BRCA1-11_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0024.BRCA1-12_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
```

```
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.82498 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0024.BRCA1-12_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0031.BRCA1-1_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.75842 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0031.BRCA1-1_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0032.BRCA1-13_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.61531 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0032.BRCA1-13_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0039.BRCA1-2_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.73906 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0039.BRCA1-2_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0040.BRCA1-14_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
```

```
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.78757 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0040.BRCA1-14_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0047.BRCA1-3_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.77958 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0047.BRCA1-3_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0048.BRCA1-15_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.80956 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0048.BRCA1-15_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0055.BRCA1-4_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.78108 seconds elapsed.
The output for above file is generated
```

```

./MI.M03992_0353.001.FLD0055.BRCA1-4_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0056.BRCA1-16_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.74659 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0056.BRCA1-16_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0063.BRCA1-5_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.7995 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0063.BRCA1-5_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0064.BRCA1-17_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.7811 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0064.BRCA1-17_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0071.BRCA1-6_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...

```


Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.73361 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0071.BRCA1-6_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0072.BRCA1-18_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.76959 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0072.BRCA1-18_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0079.BRCA1-7_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.79936 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0079.BRCA1-7_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0080.BRCA1-19_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.8818 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0080.BRCA1-19_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0087.BRCA1-8_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...

```
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.60075 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0087.BRCA1-8_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0088.BRCA1-20_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.64557 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0088.BRCA1-20_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0095.BRCA1-9_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.84555 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0095.BRCA1-9_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0096.BRCA1-21_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.8489 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0096.BRCA1-21_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0296.BRCA1-22_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
```

```

Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.82904 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0296.BRCA1-22_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0304.BRCA1-23_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.78444 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0304.BRCA1-23_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0312.BRCA1-24_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.75784 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0312.BRCA1-24_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0320.BRCA1-25_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.64475 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0320.BRCA1-25_R1.fastq_input.txt_100random_input.txt.output.txt
(base) Yifans-MBP:Desktop yifan$ ./runcas.sh

```

```

./MI.M03992_0353.001.FLD0008.BRCA1-10_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
13.4675 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0008.BRCA1-10_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0016.BRCA1-11_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
9.76151 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0016.BRCA1-11_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0024.BRCA1-12_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
15.119 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0024.BRCA1-12_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0031.BRCA1-1_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...

```

Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
7.82967 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0031.BRCA1-1_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0032.BRCA1-13_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
15.6519 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0032.BRCA1-13_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0039.BRCA1-2_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
11.2609 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0039.BRCA1-2_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0040.BRCA1-14_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
8.30504 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0040.BRCA1-14_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0047.BRCA1-3_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...

Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
14.1574 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0047.BRCA1-3_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0048.BRCA1-15_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
9.38222 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0048.BRCA1-15_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0055.BRCA1-4_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
10.7742 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0055.BRCA1-4_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0056.BRCA1-16_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
4.58175 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0056.BRCA1-16_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0063.BRCA1-5_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...

```

Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
5.60921 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0063.BRCA1-5_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0064.BRCA1-17_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
5.4724 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0064.BRCA1-17_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0071.BRCA1-6_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
7.9912 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0071.BRCA1-6_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0072.BRCA1-18_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
5.48753 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0072.BRCA1-18_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0079.BRCA1-7_R1.fastq_input.txt
Total 2 device(s) found.

```

```
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
12.5938 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0079.BRCA1-7_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0080.BRCA1-19_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
12.8697 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0080.BRCA1-19_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0087.BRCA1-8_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
12.3432 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0087.BRCA1-8_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0088.BRCA1-20_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
```


Finding pattern in chunk #4...
Comparing patterns in chunk #4...
10.1314 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0088.BRCA1-20_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0095.BRCA1-9_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
13.856 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0095.BRCA1-9_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0096.BRCA1-21_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
22.7017 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0096.BRCA1-21_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0296.BRCA1-22_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
13.0427 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0296.BRCA1-22_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0304.BRCA1-23_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.

```

2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
14.9058 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0304.BRCA1-23_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0312.BRCA1-24_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
16.4941 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0312.BRCA1-24_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0320.BRCA1-25_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
27.3505 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0320.BRCA1-25_R1.fastq_input.txt.output.txt
(base) Yifans-MBP:Desktop yifan$ ./runcas.sh
./MI.M03992_0353.001.FLD0004.PTEN2-12_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
24.2532 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0004.PTEN2-12_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0005.PTEN2-24_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...

```

```
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
23.2279 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0005.PTEN2-24_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0011.PTEN2-1_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
24.8093 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0011.PTEN2-1_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0012.PTEN2-13_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
29.5231 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0012.PTEN2-13_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0013.PTEN2-25_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
31.1788 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0013.PTEN2-25_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0019.PTEN2-2_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
```

```
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
22.9148 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0019.PTEN2-2_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0020.PTEN2-14_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
22.3606 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0020.PTEN2-14_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0027.PTEN2-3_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
32.5187 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0027.PTEN2-3_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0028.PTEN2-15_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
```

```
Comparing patterns in chunk #4...
17.5286 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0028.PTEN2-15_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0035.PTEN2-4_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
26.0206 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0035.PTEN2-4_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0036.PTEN2-16_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
4.16618 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0036.PTEN2-16_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0043.PTEN2-5_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
23.8029 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0043.PTEN2-5_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0044.PTEN2-17_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
```

```
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
16.815 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0044.PTEN2-17_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0051.PTEN2-6_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
21.6428 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0051.PTEN2-6_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0052.PTEN2-18_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
12.4609 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0052.PTEN2-18_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0059.PTEN2-7_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
23.2127 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0059.PTEN2-7_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0060.PTEN2-19_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
```

2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
26.3025 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0060.PTEN2-19_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0067.PTEN2-8_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
25.8983 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0067.PTEN2-8_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0068.PTEN2-20_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
18.0021 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0068.PTEN2-20_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0075.PTEN2-9_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
47.2955 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0075.PTEN2-9_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0076.PTEN2-21_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...

Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
30.6401 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0076.PTEN2-21_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0083.PTEN2-10_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
28.527 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0083.PTEN2-10_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0084.PTEN2-22_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
32.3898 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0084.PTEN2-22_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0091.PTEN2-11_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
26.7112 seconds elapsed.


```

The output for above file is generated
./MI.M03992_0353.001.FLD0091.PTEN2-11_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0092.PTEN2-23_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
21.673 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0092.PTEN2-23_R1.fastq_input.txt.output.txt
(base) Yifans-MBP:Desktop yifan$ ./runcas.sh
./MI.M03992_0353.001.FLD0006.PTEN3-11_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
32.8539 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0006.PTEN3-11_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0007.PTEN3-23_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
34.4812 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0007.PTEN3-23_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0014.PTEN3-12_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...

```

Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
40.0208 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0014.PTEN3-12_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0015.PTEN3-24_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
38.7859 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0015.PTEN3-24_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0021.PTEN3-1_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
40.6391 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0021.PTEN3-1_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0022.PTEN3-13_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
32.1537 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0022.PTEN3-13_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0023.PTEN3-25_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...

Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
32.4325 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0023.PTEN3-25_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0029.PTEN3-2_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
22.3649 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0029.PTEN3-2_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0030.PTEN3-14_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
39.2008 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0030.PTEN3-14_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0037.PTEN3-3_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
33.9922 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0037.PTEN3-3_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0038.PTEN3-15_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.

```
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
35.1418 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0038.PTEN3-15_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0045.PTEN3-4_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
31.6417 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0045.PTEN3-4_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0046.PTEN3-16_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
14.9867 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0046.PTEN3-16_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0053.PTEN3-5_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
30.4386 seconds elapsed.
The output for above file is generated
```

```

./MI.M03992_0353.001.FLD0053.PTEN3-5_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0054.PTEN3-17_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
17.5263 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0054.PTEN3-17_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0061.PTEN3-6_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
33.6121 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0061.PTEN3-6_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0062.PTEN3-18_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
35.8341 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0062.PTEN3-18_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0069.PTEN3-7_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...

```

Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
37.9961 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0069.PTEN3-7_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0070.PTEN3-19_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
24.906 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0070.PTEN3-19_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0077.PTEN3-8_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
39.916 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0077.PTEN3-8_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0078.PTEN3-20_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
32.0102 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0078.PTEN3-20_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0085.PTEN3-9_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...

```

Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
39.1252 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0085.PTEN3-9_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0086.PTEN3-21_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
40.9213 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0086.PTEN3-21_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0093.PTEN3-10_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
41.9879 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0093.PTEN3-10_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0094.PTEN3-22_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
40.3721 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0094.PTEN3-22_R1.fastq_input.txt.output.txt
(base) Yifan-MBP:Desktop yifan$ ./runcas.sh
./MI.M03992_0353.001.FLD0001.p53-1_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...

```

```
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
40.1336 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0001.p53-1_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0002.p53-13_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
73.1169 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0002.p53-13_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0003.p53-25_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
78.2259 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0003.p53-25_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0009.p53-2_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
76.5682 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0009.p53-2_R1.fastq_input.txt.output.txt
```



```
./MI.M03992_0353.001.FLD0010.p53-14_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
25.247 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0010.p53-14_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0017.p53-3_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
75.1134 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0017.p53-3_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0018.p53-15_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
27.0329 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0018.p53-15_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0025.p53-4_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
```

Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
15.6372 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0025.p53-4_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0026.p53-16_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
11.8202 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0026.p53-16_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0033.p53-5_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
35.5348 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0033.p53-5_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0034.p53-17_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
10.3534 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0034.p53-17_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0041.p53-6_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...

```
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
25.7717 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0041.p53-6_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0042.p53-18_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
14.3696 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0042.p53-18_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0049.p53-7_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
64.7442 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0049.p53-7_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0050.p53-19_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
25.737 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0050.p53-19_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0057.p53-8_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
```

```
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
120.291 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0057.p53-8_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0058.p53-20_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
21.805 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0058.p53-20_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0065.p53-9_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
55.955 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0065.p53-9_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0066.p53-21_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
26.4894 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0066.p53-21_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0073.p53-10_R1.fastq_input.txt
Total 2 device(s) found.
```

```
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
45.594 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0073.p53-10_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0074.p53-22_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
69.2498 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0074.p53-22_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0081.p53-11_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
55.8368 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0081.p53-11_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0082.p53-23_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
```

```
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
26.7625 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0082.p53-23_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0089.p53-12_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
38.9083 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0089.p53-12_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0090.p53-24_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
24.3197 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0090.p53-24_R1.fastq_input.txt.output.txt
(base) Yifans-MBP:Desktop yifan$
```