

Sample runs using academy.cs.hku.hk

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atctam@academy11:~/c3230a/1819$ ./thrwordcnt
Usage: ./thrwordcnt [number of workers] [number of buffers] [target
plaintext file] [keyword file]

atctam@academy11:~/c3230a/1819$ ./thrwordcnt 0 1 test1.txt key1.txt
The number of worker threads must be between 1 to 15

atctam@academy11:~/c3230a/1819$ ./thrwordcnt 1 11 test1.txt key1.txt
The number of buffers in task pool must be between 1 to 10

atctam@academy11:~/c3230a/1819$ ./thrwordcnt 4 2 test1.txt key1.txt
Worker(1) : Start up. Wait for task!
Worker(0) : Start up. Wait for task!
Worker(2) : Start up. Wait for task!
Worker(2) : search for keyword "string"
Worker(1) : search for keyword "child"
Worker(0) : search for keyword "process"
Worker(3) : Start up. Wait for task!
Worker(3) : search for keyword "text"
Worker thread 0 has terminated and completed 1 tasks.
Worker thread 1 has terminated and completed 1 tasks.
Worker thread 2 has terminated and completed 1 tasks.
Worker thread 3 has terminated and completed 1 tasks.
string : 1
child : 5
process : 2
text : 0

atctam@academy11:~/c3230a/1819$ ./thrwordcnt 3 1 test1.txt key1.txt
Worker(0) : Start up. Wait for task!
Worker(0) : search for keyword "child"
Worker(1) : Start up. Wait for task!
Worker(1) : search for keyword "process"
Worker(2) : Start up. Wait for task!
Worker(2) : search for keyword "string"
Worker(0) : search for keyword "text"
Worker thread 0 has terminated and completed 2 tasks.
Worker thread 1 has terminated and completed 1 tasks.
Worker thread 2 has terminated and completed 1 tasks.
child : 5
process : 2
string : 1
text : 0

atctam@academy11:~/c3230a/1819$ ./thrwordcnt 7 2 test1.txt key1.txt
Worker(0) : Start up. Wait for task!
Worker(1) : Start up. Wait for task!
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Worker(3) : Start up. Wait for task!
Worker(4) : Start up. Wait for task!
Worker(2) : Start up. Wait for task!
Worker(0) : search for keyword "child"
Worker(1) : search for keyword "process"
Worker(2) : search for keyword "string"
Worker(4) : search for keyword "text"
Worker(6) : Start up. Wait for task!
Worker(5) : Start up. Wait for task!
Worker thread 0 has terminated and completed 1 tasks.
Worker thread 1 has terminated and completed 1 tasks.
Worker thread 2 has terminated and completed 1 tasks.
Worker thread 3 has terminated and completed 0 tasks.
Worker thread 4 has terminated and completed 1 tasks.
Worker thread 5 has terminated and completed 0 tasks.
Worker thread 6 has terminated and completed 0 tasks.
process : 2
child : 5
string : 1
text : 0

atctam@academy11:~/c3230a/1819$ ./thrwordcnt 4 4 test2.txt key2.txt
Worker(1) : Start up. Wait for task!
Worker(2) : Start up. Wait for task!
Worker(0) : Start up. Wait for task!
Worker(1) : search for keyword "process"
Worker(2) : search for keyword "fork"
Worker(3) : Start up. Wait for task!
Worker(0) : search for keyword "parent"
Worker(3) : search for keyword "rich"
Worker(1) : search for keyword "Function"
Worker(2) : search for keyword "strings"
Worker(0) : search for keyword "signal"
Worker thread 0 has terminated and completed 2 tasks.
Worker thread 1 has terminated and completed 2 tasks.
Worker thread 2 has terminated and completed 2 tasks.
Worker thread 3 has terminated and completed 1 tasks.
process : 145
fork : 11
parent : 29
rich : 0
Function : 72
strings : 4
signal : 93
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