
Algorithm 1 C++ Preprocessing Pseudocode

```
1: for  $file = 1, 6, 9$  do
2:   for  $line = 1, \dots, N$  in the file do
3:     split the line with “,”
4:     filter the line that has missing data of task
5:     read timestamp, jobId, requestCPU, requestMemory
6:     create new task with 3 parameters
7:     add the task into corresponding job in the map
8:   end for
9:
10:  for  $job = 1, \dots, M$  do
11:    for  $task = 1, \dots, K$  do
12:      sort the task within the job by its task id
13:    end for
14:  end for
15:
16:  for  $job = 1, \dots, M$  do
17:    sort the job by the job priority
18:  end for
19:
20:  for  $job = 1, \dots, M$  do
21:    for  $task = 1, \dots, K$  do
22:      write (timestamp,requestCPU,requestMemory) into file
23:    end for
24:  end for
25:
26: end for
```
