## generate-parameters.py

```
# Python program to generate parameter file.
1
2
    # We choose a job instance to iterate through all (m, n) for a given (k, l), so we have 400 jobs.
    # N.b this is a necessary choice to keep each job self-contained to allow embarassing
3
        parallelization.
4
    # In this case, k_start = k_stop and l_start = l_stop always.
5
    # Also, m_start = n_start = 1 and m_stop = n_stop = 20 always.
6
7
8
    # Must have line number = $SGE_TASK_ID.
9
    name = "parameters"
10
11
    SGE_TASK_ID = 1
12
13
14
    k_start = 1
    k_stop = 20
15
    l_start = 1
16
    l_stop = 20
17
18
    m_start = 1
19
    m_stop = 20
20
    n_start = 1
21
    n_stop = 20
22
23
24
    # Write .txt file in form k\_st, k\_sp, l\_st, l\_sp, m\_st, m\_sp, n\_st, n\_sp for each job.
    with open(name + ".txt", 'w') as file:
25
      while k_start <= k_stop:</pre>
26
        while l_start <= l_stop:</pre>
27
           file.write(str(k_start) + " " + str(k_start) + " " +
28
             str(l\_start) + " " + str(l\_start) + " " + str(m\_start) + " " + str(m\_stop) +
29
             " " + str(n_start) + " " + str(n_stop) + "\n")
30
           l_start += 1
31
           if l_start == l_stop +1:
32
             break
33
           SGE\_TASK\_ID += 1
34
35
        k_start += 1
        l_start = 1
36
        SGE\_TASK\_ID += 1
37
```