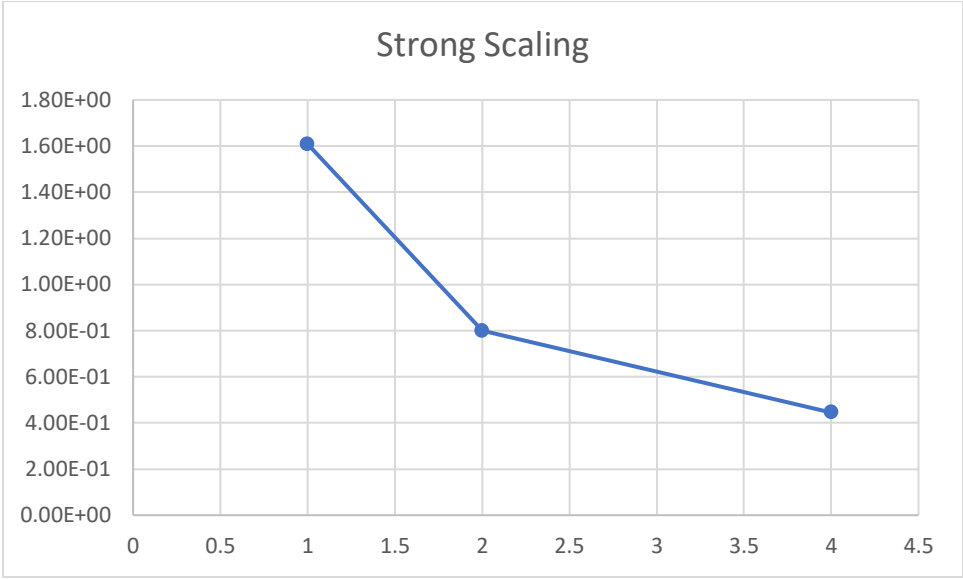
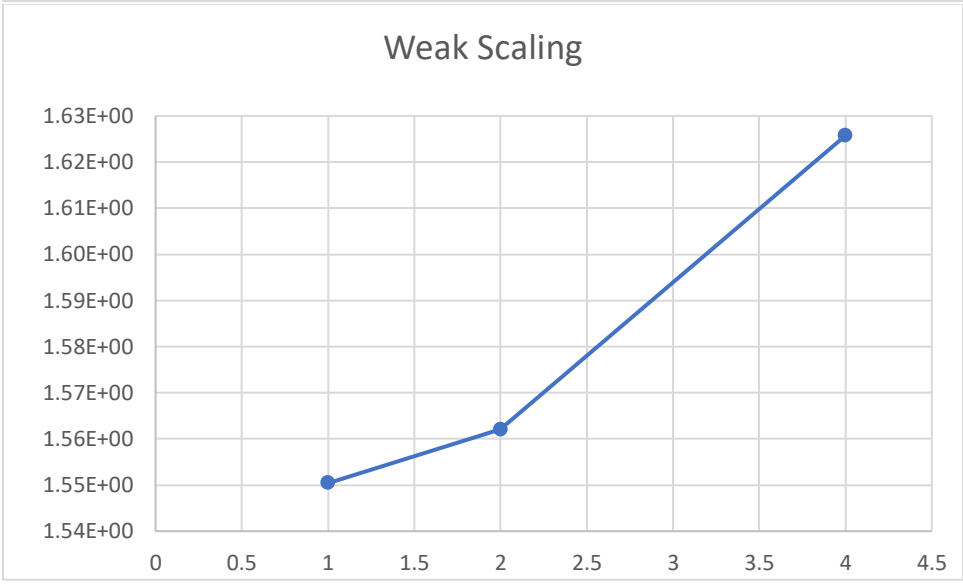
1. See attached

2. 

3. 

```
[suyanpen@discovery2 as03]$ cat global_pi.out
========================================
SLURM_JOB_ID = 16795297
SLURM_JOB_NODELIST = e16-[12-15]
TMPDIR = /tmp/SLURM_16795297
========================================
##### Strong scaling #####
Pi = 3.141593e+00
Number of processors & Execution time (s) = 4 & 4.449355e-01
Pi = 3.141593e+00
Number of processors & Execution time (s) = 2 & 7.991727e-01
Pi = 3.141593e+00
Number of processors & Execution time (s) = 1 & 1.608926e+00
##### Weak scaling   #####
Pi = 3.141593e+00
Number of processors & Execution time (s) = 4 & 1.625747e+00
Pi = 3.141593e+00
Number of processors & Execution time (s) = 2 & 1.562055e+00
Pi = 3.141593e+00
Number of processors & Execution time (s) = 1 & 1.550403e+00
[suyanpen@discovery2 as03]$
```