10.18 performance results of for\_each()

seq

par

par\_sr == par.on(exec)

summary:

* when threads is below 8, there is no big difference between par and par.on(exec) policy.
* when threads is above 8 till 32, the improvement is obvious. average 30 percentage improvement. even got 50 percentage improvement when threads=32.
* but when threads = 40, negative 20 percentage improvement.

Chart, line chart

Description automatically generated

Chart, line chart

Description automatically generated

start getting better: compare the peak value of par & par\_sr

threads = 16: par -> par\_sr improve 31.5%

Chart, line chart, histogram

Description automatically generated

threads =20: par -> par\_sr: improve 37.1%

Chart, line chart

Description automatically generated

threads =24: par -> par\_sr : improve 36.1%

Chart, line chart, histogram

Description automatically generated

threads =28: par -> par\_sr : improve 16.1%

Chart, line chart, histogram

Description automatically generated

threads =32: par -> par\_sr : improve 51.3%

Chart, line chart, histogram

Description automatically generated

threads =40: par -> par\_sr : improve -20%

Chart, histogram

Description automatically generated

too many overheads of threads creating? (both of them are par policy, what else overheads of par.on(exec))