| Using | Matrix | Time / manual | Inf Norm / manual | Time / dgemm | Inf Norm / dgemm |
|--|--|--|--|---|--|
| ./A4-mpi-manual-cblas -r | 50 | 0.001191 | 89,502.0 | 0.000292 | 89,502.0 |
| ./A4-mpi-manual-cblas -r | 50 | 0.001198 | 89,502.0 | 0.000277 | 89,502.0 |
| ./A4-mpi-manual-cblas -r | 50 | 0.002133 | 89,502.0 | 0.000281 | 89,502.0 |
| ./A4-mpi-manual-cblas -r | 50 | 0.001196 | 89,502.0 | 0.000276 | 89,502.0 |
| ./A4-mpi-manual-cblas -r | 50 | 0.001186 | 89,502.0 | 0.000279 | 89,502.0 |
| ./A4-mpi-manual-cblas -r | 50 | 0.001208 | 89,502.0 | | 89,502.0 |
| ./A4-mpi-manual-cblas -r | 100 | 0.009325 | 353,266.0 | | 353,266.0 |
| ./A4-mpi-manual-cblas -r | 100 | 0.009433 | 353,266.0 | 0.001986 | 353,266.0 |
| ./A4-mpi-manual-cblas -r | 100 | 0.009892 | 353,266.0 | 0.002030 | 353,266.0 |
| ./A4-mpi-manual-cblas -r | 100 | 0.009310 | 353,266.0 | | 353,266.0 |
| ./A4-mpi-manual-cblas -r | 100 | 0.009311 | 353,266.0 | | 353,266.0 |
| ./A4-mpi-manual-cblas -r | 100 | 0.009313 | 353,266.0 | 0.002515 | 353,266.0 |
| | | | | | |
| ./A4-mpi-manual-cblas -r | 50 | 0.001187 | 89,502.0 | 0.000280 | 89,502.0 |
| ./A4-mpi-manual-cblas -r | 50 | 0.001201 | 89,502.0 | 0.000281 | 89,502.0 |
| ./A4-mpi-manual-cblas -r | 50 | 0.001240 | 89,502.0 | 0.000280 | 89,502.0 |
| ./A4-mpi-manual-cblas -r | 50 | 0.001190 | 89,502.0 | 0.000279 | 89,502.0 |
| ./A4-mpi-manual-cblas -r | 50 | 0.001583 | 89,502.0 | 0.000276 | 89,502.0 |
| ./A4-mpi-manual-cblas -r | 50 | 0.001195 | 89,502.0 | 0.000277 | 89,502.0 |
| ./A4-mpi-manual-cblas -r | 100 | 0.009364 | 353,266.0 | 0.001984 | 353,266.0 |
| ./A4-mpi-manual-cblas -r | 100 | 0.009343 | 353,266.0 | 0.001987 | 353,266.0 |
| ./A4-mpi-manual-cblas -r | 100 | 0.009307 | 353,266.0 | 0.001966 | 353,266.0 |
| ./A4-mpi-manual-cblas -r | 100 | 0.009316 | 353,266.0 | 0.001985 | 353,266.0 |
| ./A4-mpi-manual-cblas -r | 100 | 0.009366 | 353,266.0 | 0.001989 | 353,266.0 |
| ./A4-mpi-manual-cblas -r | 100 | 0.009341 | 353,266.0 | 0.002004 | 353,266.0 |
| | | | | | |
| Using | Matrix | Time / manual | Inf Norm / manual | Time / dgemm | Inf Norm / dgemm |
| Using ./A4-mpi-manual-cblas -i | Matrix 50 | Time / manual 0.001189 | Inf Norm / manual 1,625,625.0 | Time / dgemm 0.000286 | Inf Norm / dgemm 1,625,625.0 |
| _ | • | | | | |
| ./A4-mpi-manual-cblas -i | 50 | 0.001189 | 1,625,625.0 | 0.000286 | 1,625,625.0 |
| ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i | 50 50 | 0.001189 0.001218 | 1,625,625.0 1,625,625.0 | 0.000286 0.000287 0.000278 | 1,625,625.0 1,625,625.0 |
| ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i | 50 50 50 | 0.001189 0.001218 0.001195 | 1,625,625.0 1,625,625.0 1,625,625.0 | 0.000286 0.000287 0.000278 | 1,625,625.0 1,625,625.0 1,625,625.0 |
| ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i | 50 50 50 50 | 0.001189 0.001218 0.001195 0.001286 | 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 | 0.000286 0.000287 0.000278 0.000298 0.000291 | 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 |
| ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i | 50 50 50 50 50 | 0.001189 0.001218 0.001195 0.001286 0.001201 | 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 | 0.000286 0.000287 0.000278 0.000298 0.000291 | 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 |
| ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i | 50 50 50 50 50 50 | 0.001189 0.001218 0.001195 0.001286 0.001201 0.001263 | 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 | 0.000286 0.000287 0.000278 0.000298 0.000291 0.000282 0.001969 | 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 |
| ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i | 50 50 50 50 50 50 50 | 0.001189 0.001218 0.001195 0.001286 0.001201 0.001263 0.009347 | 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 | 0.000286 0.000287 0.000278 0.000298 0.000291 0.000282 0.001969 0.002094 | 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 |
| ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i | 50 50 50 50 50 50 50 100 | 0.001189 0.001218 0.001195 0.001286 0.001201 0.001263 0.009347 0.012126 | 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 | 0.000286 0.000287 0.000278 0.000298 0.000291 0.000282 0.001969 0.002094 | 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 |
| ./A4-mpi-manual-cblas -i | 50 50 50 50 50 50 50 100 100 100 100 | 0.001189 0.001218 0.001195 0.001286 0.001201 0.001263 0.009347 0.012126 0.010703 0.010268 0.009789 | 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 | 0.000286 0.000287 0.000278 0.000298 0.000291 0.000282 0.001969 0.002094 0.002217 0.002099 | 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 |
| ./A4-mpi-manual-cblas -i | 50 50 50 50 50 50 50 100 100 100 | 0.001189 0.001218 0.001195 0.001286 0.001201 0.001263 0.009347 0.012126 0.010703 | 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 | 0.000286 0.000287 0.000278 0.000298 0.000291 0.000282 0.001969 0.002094 0.002217 | 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 |
| ./A4-mpi-manual-cblas -i | 50 50 50 50 50 50 50 100 100 100 100 100 | 0.001189 0.001218 0.001195 0.001286 0.001201 0.001263 0.009347 0.012126 0.010703 0.010268 0.009789 0.010275 | 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 | 0.000286 0.000287 0.000278 0.000298 0.000291 0.000282 0.001969 0.002094 0.002217 0.002099 0.002116 0.002292 | 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 |
| ./A4-mpi-manual-cblas -i | 50 50 50 50 50 50 50 100 100 100 100 100 | 0.001189 0.001218 0.001195 0.001286 0.001201 0.001263 0.009347 0.012126 0.010703 0.010268 0.009789 | 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 | 0.000286 0.000287 0.000278 0.000298 0.000291 0.000282 0.001969 0.002094 0.002217 0.002099 | 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 |
| ./A4-mpi-manual-cblas -i | 50 50 50 50 50 50 50 100 100 100 100 100 | 0.001189 0.001218 0.001195 0.001286 0.001201 0.001263 0.009347 0.012126 0.010703 0.010268 0.009789 0.010275 | 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 | 0.000286 0.000287 0.000278 0.000291 0.000282 0.001969 0.002217 0.002099 0.002116 0.002292 0.000280 0.000280 | 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 1,625,625.0 |
| ./A4-mpi-manual-cblas -i | 50 50 50 50 50 50 50 100 100 100 100 100 | 0.001189 0.001218 0.001218 0.001195 0.001286 0.001201 0.001263 0.009347 0.012126 0.010703 0.010268 0.009789 0.010275 | 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 1,625,625.0 | 0.000286 0.000287 0.000278 0.000298 0.000291 0.001969 0.002094 0.002217 0.002099 0.002116 0.002292 | 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 1,625,625.0 1,625,625.0 |
| ./A4-mpi-manual-cblas -i | 50 50 50 50 50 50 50 100 100 100 100 100 | 0.001189 0.001218 0.001218 0.001195 0.001286 0.001201 0.001263 0.009347 0.012126 0.010703 0.010268 0.009789 0.010275 0.001339 0.001196 0.001221 0.001198 | 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 1,625,625.0 1,625,625.0 1,625,625.0 | 0.000286 0.000287 0.000278 0.000298 0.000291 0.001969 0.002217 0.002099 0.002116 0.002292 0.000280 0.000280 0.000549 0.000327 | 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 1,625,625.0 1,625,625.0 1,625,625.0 |
| ./A4-mpi-manual-cblas -i | 50 50 50 50 50 50 50 100 100 100 100 100 | 0.001189 0.001218 0.001218 0.001195 0.001286 0.001201 0.001263 0.009347 0.012126 0.010703 0.010268 0.009789 0.010275 | 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 | 0.000286 0.000287 0.000278 0.000291 0.000282 0.001969 0.002217 0.002099 0.002116 0.002292 0.000280 0.000549 0.000327 0.000275 0.000275 | 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 |
| ./A4-mpi-manual-cblas -i | 50 50 50 50 50 50 50 100 100 100 100 100 | 0.001189 0.001218 0.001195 0.001286 0.001286 0.001201 0.001263 0.009347 0.012126 0.010703 0.010268 0.009789 0.010275 0.001339 0.001196 0.001221 0.001198 0.001192 | 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 | 0.000286 0.000287 0.000298 0.000291 0.000282 0.001969 0.002217 0.002099 0.002116 0.002292 0.000280 0.000549 0.000327 0.000275 0.000273 | 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 1,625,625.0 1,625,625.0 1,625,625.0 |
| ./A4-mpi-manual-cblas -i | 50 50 50 50 50 50 50 100 100 100 100 100 | 0.001189 0.001218 0.001218 0.001195 0.001286 0.001201 0.001263 0.009347 0.012126 0.010703 0.010268 0.009789 0.010275 0.001339 0.001196 0.001198 0.001198 | 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 | 0.000286 0.000287 0.000298 0.000291 0.000282 0.001969 0.002217 0.002099 0.002116 0.002292 0.000280 0.000280 0.000327 0.000275 0.000273 0.0001989 | 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 |
| ./A4-mpi-manual-cblas -i | 50 50 50 50 50 50 50 100 100 100 100 100 | 0.001189 0.001218 0.001218 0.001195 0.001286 0.001286 0.001263 0.009347 0.012126 0.010703 0.010268 0.009789 0.010275 0.001339 0.001196 0.001221 0.001198 0.001198 0.001198 0.001198 | 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 | 0.000286 0.000297 0.000298 0.000291 0.000282 0.001969 0.002217 0.002099 0.002116 0.002292 0.000280 0.000280 0.000275 0.000275 0.000273 0.001989 0.000278 | 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 |
| ./A4-mpi-manual-cblas -i | 50 50 50 50 50 50 100 100 100 100 100 50 50 50 50 50 50 | 0.001189 0.001218 0.001218 0.001295 0.001201 0.001263 0.009347 0.012126 0.010703 0.010268 0.009789 0.010275 0.001399 0.001198 0.001199 0.001198 0.001935 | 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 | 0.000286 0.000287 0.000278 0.000291 0.000282 0.001969 0.002217 0.002099 0.002116 0.002292 0.000280 0.000549 0.000275 0.000275 0.000273 0.001989 0.002078 0.002078 | 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 |
| ./A4-mpi-manual-cblas -i | 50 50 50 50 50 50 100 100 100 100 100 50 50 50 50 50 50 100 10 | 0.001189 0.001218 0.001218 0.001295 0.001201 0.001263 0.009347 0.012126 0.010703 0.010268 0.009789 0.010275 0.001339 0.001198 0.001192 0.001198 0.001198 0.001935 0.009532 | 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 | 0.000286 0.000287 0.000278 0.000291 0.000292 0.001969 0.002094 0.002217 0.002099 0.002116 0.002292 0.000275 0.000275 0.000275 0.000275 0.001989 0.002078 0.002036 0.003692 | 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 |
| ./A4-mpi-manual-cblas -i | 50 50 50 50 50 50 50 100 100 100 100 100 | 0.001189 0.001218 0.001218 0.001295 0.001201 0.001263 0.009347 0.012126 0.010703 0.010268 0.009789 0.010275 0.001339 0.001196 0.001221 0.001198 0.001199 0.001198 0.001935 0.009532 0.009452 | 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 | 0.000286 0.000287 0.000298 0.000291 0.000282 0.001969 0.002217 0.002099 0.002116 0.002292 0.000280 0.000549 0.000275 0.000275 0.000273 0.001989 0.002078 0.002036 0.003692 0.003692 | 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 |

| Using | Matrix | Time / manual | Inf Norm / manual | Time / dgemm | Inf Norm / dgemm |
|--|---|--|---|---|--|
| ./A4-mpi-manual-cblas -r | 50 | 0.001199 | 89,502.0 | 0.000278 | 89,502.0 |
| ./A4-mpi-manual-cblas -r | 50 | 0.001195 | 89,502.0 | 0.000272 | 89,502.0 |
| ./A4-mpi-manual-cblas -r | 50 | 0.001199 | 89,502.0 | 0.000278 | 89,502.0 |
| ./A4-mpi-manual-cblas -r | 100 | 0.009332 | 353,266.0 | 0.001993 | 353,266.0 |
| ./A4-mpi-manual-cblas -r | 100 | 0.009302 | 353,266.0 | 0.001988 | 353,266.0 |
| ./A4-mpi-manual-cblas -r | 100 | 0.009300 | 353,266.0 | 0.001981 | 353,266.0 |
| ./A4-mpi-manual-cblas -r | 500 | 3.138155 | 8,117,937.0 | 0.648311 | 8,117,937.0 |
| ./A4-mpi-manual-cblas -r | 500 | 3.045648 | 8,117,937.0 | 0.647758 | 8,117,937.0 |
| ./A4-mpi-manual-cblas -r | 500 | 3.071243 | 8,117,937.0 | 0.646475 | 8,117,937.0 |
| ./A4-mpi-manual-cblas -r | 500 | 3.048155 | 8,117,937.0 | 0.648246 | 8,117,937.0 |
| ./A4-mpi-manual-cblas -r | 1000 | 20.729409 | 31,896,067.0 | 5.203027 | 31,896,067.0 |
| ./A4-mpi-manual-cblas -r | 1000 | 20.675408 | 31,896,067.0 | 5.172767 | 31,896,067.0 |
| ./A4-mpi-manual-cblas -r | 1000 | 20.361931 | 31,896,067.0 | 5.146678 | 31,896,067.0 |
| ./A4-mpi-manual-cblas -r | 1000 | 20.082578 | 31,896,067.0 | 5.180091 | 31,896,067.0 |
| ./A4-mpi-manual-cblas -r | 50 | 0.001202 | 89,502.0 | 0.000280 | 89,502.0 |
| ./A4-mpi-manual-cblas -r | 50 | 0.001196 | 89,502.0 | 0.000276 | 89,502.0 |
| ./A4-mpi-manual-cblas -r | 50 | 0.001191 | 89,502.0 | 0.000278 | 89,502.0 |
| ./A4-mpi-manual-cblas -r | 100 | 0.009326 | 353,266.0 | 0.001976 | 353,266.0 |
| ./A4-mpi-manual-cblas -r | 100 | 0.009313 | 353,266.0 | 0.001984 | 353,266.0 |
| ./A4-mpi-manual-cblas -r | 100 | 0.009330 | 353,266.0 | 0.001985 | 353,266.0 |
| , ./A4-mpi-manual-cblas -r | 500 | 3.039778 | 8,117,937.0 | 0.660509 | 8,117,937.0 |
| ./A4-mpi-manual-cblas -r | 500 | 3.030908 | 8,117,937.0 | 0.644442 | 8,117,937.0 |
| ./A4-mpi-manual-cblas -r | 500 | 3.052243 | 8,117,937.0 | 0.645495 | 8,117,937.0 |
| ./A4-mpi-manual-cblas -r | 500 | 3.028897 | 8,117,937.0 | 0.649714 | 8,117,937.0 |
| ./A4-mpi-manual-cblas -r | 1000 | 21.223333 | 31,896,067.0 | 5.537096 | 31,896,067.0 |
| ./A4-mpi-manual-cblas -r | 1000 | 20.835579 | 31,896,067.0 | 5.389093 | 31,896,067.0 |
| ./A4-mpi-manual-cblas -r | 1000 | 20.613177 | 31,896,067.0 | 5.260293 | 31,896,067.0 |
| ./A4-mpi-manual-cblas -r | 1000 | 20.402660 | 31,896,067.0 | 5.315662 | 31,896,067.0 |
| | | | | | |
| Using | Matrix | Time / manual | Inf Norm / manual | Time / dgemm | Inf Norm / dgemm |
| Using ./A4-mpi-manual-cblas -i | <mark> Matrix </mark> 50 | Time / manual 0.001198 | Inf Norm / manual 1,625,625.0 | Time / dgemm 0.000273 | Inf Norm / dgemm 1,625,625.0 |
| _ | | | | | |
| ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i | 50 50 50 | 0.001198 | 1,625,625.0 1,625,625.0 1,625,625.0 | 0.000273 | 1,625,625.0 |
| ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i | 50 50 | 0.001198 0.001207 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 | 0.000273 0.000277 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 |
| ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i | 50 50 50 100 100 | 0.001198 0.001207 0.001203 0.009300 0.011436 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 | 0.000273 0.000277 0.000279 0.001984 0.002175 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 |
| ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i | 50 50 50 100 100 | 0.001198 0.001207 0.001203 0.009300 0.011436 0.009349 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 | 0.000273 0.000277 0.000279 0.001984 0.002175 0.001974 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 |
| ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i | 50 50 50 100 100 100 500 | 0.001198 0.001207 0.001203 0.009300 0.011436 0.009349 3.036239 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 15,687,562,500.0 | 0.000273 0.000277 0.000279 0.001984 0.002175 0.001974 0.649100 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 15,687,562,500.0 |
| ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i ./A4-mpi-manual-cblas -i | 50 50 50 100 100 100 500 500 | 0.001198 0.001207 0.001203 0.009300 0.011436 0.009349 3.036239 3.046358 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 15,687,562,500.0 | 0.000273 0.000277 0.000279 0.001984 0.002175 0.001974 0.649100 0.648188 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 15,687,562,500.0 |
| ./A4-mpi-manual-cblas -i | 50 50 50 100 100 100 500 500 500 | 0.001198 0.001207 0.001203 0.009300 0.011436 0.009349 3.036239 3.046358 3.079162 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 | 0.000273 0.000277 0.000279 0.001984 0.002175 0.001974 0.649100 0.648188 0.646728 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 |
| ./A4-mpi-manual-cblas -i | 50 50 50 100 100 100 500 500 500 500 | 0.001198 0.001207 0.001203 0.009300 0.011436 0.009349 3.036239 3.046358 3.079162 3.144015 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 | 0.000273 0.000277 0.000279 0.001984 0.002175 0.001974 0.649100 0.648188 0.646728 0.649152 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 |
| ./A4-mpi-manual-cblas -i | 50 50 50 100 100 100 500 500 500 500 1000 | 0.001198 0.001207 0.001203 0.009300 0.011436 0.009349 3.036239 3.046358 3.079162 3.144015 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 | 0.000273 0.000277 0.000279 0.001984 0.002175 0.001974 0.649100 0.648188 0.646728 0.649152 5.141762 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 |
| ./A4-mpi-manual-cblas -i | 50 50 50 100 100 100 500 500 500 500 1000 | 0.001198 0.001207 0.001203 0.009300 0.011436 0.009349 3.036239 3.046358 3.079162 3.144015 20.152267 19.991013 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 | 0.000273 0.000277 0.000279 0.001984 0.002175 0.001974 0.649100 0.648188 0.646728 0.649152 5.141762 5.130485 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 |
| ./A4-mpi-manual-cblas -i | 50 50 50 100 100 100 500 500 500 500 1000 1000 | 0.001198 0.001207 0.001203 0.009300 0.011436 0.009349 3.036239 3.046358 3.079162 3.144015 20.152267 19.991013 19.986013 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 | 0.000273 0.000277 0.000279 0.001984 0.002175 0.001974 0.649100 0.648188 0.646728 0.649152 5.141762 5.130485 5.131284 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 |
| ./A4-mpi-manual-cblas -i | 50 50 50 100 100 100 500 500 500 500 1000 | 0.001198 0.001207 0.001203 0.009300 0.011436 0.009349 3.036239 3.046358 3.079162 3.144015 20.152267 19.991013 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 | 0.000273 0.000277 0.000279 0.001984 0.002175 0.001974 0.649100 0.648188 0.646728 0.649152 5.141762 5.130485 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 |
| ./A4-mpi-manual-cblas -i | 50 50 50 100 100 100 500 500 500 500 1000 1000 | 0.001198 0.001207 0.001203 0.009300 0.011436 0.009349 3.036239 3.046358 3.079162 3.144015 20.152267 19.991013 19.986013 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 | 0.000273 0.000277 0.000279 0.001984 0.002175 0.001974 0.649100 0.648188 0.646728 0.649152 5.141762 5.130485 5.131284 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 |
| ./A4-mpi-manual-cblas -i | 50 50 50 100 100 100 500 500 500 1000 1000 1000 | 0.001198 0.001207 0.001203 0.009300 0.011436 0.009349 3.036239 3.046358 3.079162 3.144015 20.152267 19.991013 19.986013 20.326687 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 | 0.000273 0.000277 0.000279 0.001984 0.002175 0.001974 0.649100 0.648188 0.646728 0.649152 5.141762 5.130485 5.131284 5.139508 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 |
| ./A4-mpi-manual-cblas -i | 50 50 50 100 100 100 500 500 500 500 1000 1000 1000 | 0.001198 0.001207 0.001203 0.009300 0.011436 0.009349 3.036239 3.046358 3.079162 3.144015 20.152267 19.991013 19.986013 20.326687 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 | 0.000273 0.000277 0.000279 0.001984 0.002175 0.001974 0.649100 0.648188 0.646728 0.649152 5.141762 5.130485 5.131284 5.139508 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 |
| ./A4-mpi-manual-cblas -i | 50 50 50 100 100 100 500 500 500 500 1000 1000 1000 1000 | 0.001198 0.001207 0.001203 0.009300 0.011436 0.009349 3.036239 3.046358 3.079162 3.144015 20.152267 19.991013 19.986013 20.326687 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 | 0.000273 0.000277 0.000279 0.001984 0.002175 0.001974 0.649100 0.648188 0.646728 0.649152 5.141762 5.130485 5.131284 5.139508 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 |
| ./A4-mpi-manual-cblas -i | 50 50 50 100 100 100 500 500 500 1000 1000 1000 1000 50 50 | 0.001198 0.001207 0.001203 0.009300 0.011436 0.009349 3.036239 3.046358 3.079162 3.144015 20.152267 19.991013 19.986013 20.326687 0.001201 0.001201 0.001365 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 15,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 | 0.000273 0.000277 0.000279 0.001984 0.002175 0.001974 0.649100 0.648188 0.646728 0.649152 5.141762 5.130485 5.131284 5.139508 0.000279 0.000283 0.000385 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 1,625,625.0 1,625,625.0 1,625,625.0 |
| ./A4-mpi-manual-cblas -i | 50 50 50 100 100 100 500 500 500 1000 1000 1000 50 50 50 50 | 0.001198 0.001207 0.001203 0.009300 0.011436 0.009349 3.036239 3.046358 3.079162 3.144015 20.152267 19.991013 19.986013 20.326687 0.001201 0.001201 0.001365 0.009341 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 15,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 | 0.000273 0.000277 0.000279 0.001984 0.002175 0.001974 0.649100 0.648188 0.646728 0.649152 5.141762 5.130485 5.131284 5.139508 0.000279 0.000283 0.000385 0.001990 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 |
| ./A4-mpi-manual-cblas -i | 50 50 50 100 100 100 500 500 500 1000 1000 1000 50 50 50 1000 | 0.001198 0.001207 0.001203 0.009300 0.011436 0.009349 3.036239 3.046358 3.079162 3.144015 20.152267 19.991013 19.986013 20.326687 0.001201 0.001201 0.001365 0.009300 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 15,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 | 0.000273 0.000277 0.000279 0.001984 0.002175 0.001974 0.649100 0.648188 0.646728 0.649152 5.141762 5.130485 5.131284 5.139508 0.000279 0.000283 0.000385 0.001990 0.001986 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 |
| ./A4-mpi-manual-cblas -i | 50 50 50 100 100 100 500 500 500 1000 1000 1000 50 50 100 10 | 0.001198 0.001207 0.001203 0.009300 0.011436 0.009349 3.036239 3.046358 3.079162 3.144015 20.152267 19.991013 19.986013 20.326687 0.001201 0.001201 0.001365 0.009341 0.009300 0.009390 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 | 0.000273 0.000277 0.000277 0.001984 0.002175 0.001974 0.649100 0.648188 0.646728 0.649152 5.141762 5.130485 5.131284 5.139508 0.000279 0.000283 0.000385 0.001990 0.001986 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 |
| ./A4-mpi-manual-cblas -i | 50 50 50 100 100 100 500 500 500 1000 1000 1000 50 50 1000 1000 | 0.001198 0.001207 0.001203 0.009300 0.011436 0.009349 3.036239 3.046358 3.079162 3.144015 20.152267 19.991013 19.986013 20.326687 0.001201 0.001210 0.001365 0.009341 0.009300 0.009390 3.195391 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 | 0.000273 0.000277 0.000277 0.000279 0.001984 0.002175 0.001974 0.649100 0.648188 0.646728 0.649152 5.141762 5.130485 5.131284 5.139508 0.000279 0.000283 0.000385 0.001990 0.001986 0.002001 0.851524 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 25,502,500.0 25,502,500.0 |
| ./A4-mpi-manual-cblas -i | 50 50 50 100 100 100 500 500 500 1000 1000 1000 50 50 50 100 10 | 0.001198 0.001207 0.001203 0.009300 0.011436 0.009349 3.036239 3.046358 3.079162 3.144015 20.152267 19.991013 19.986013 20.326687 0.001201 0.001210 0.001365 0.009341 0.009300 0.009390 3.195391 3.117510 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 15,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 | 0.000273 0.000277 0.000277 0.000279 0.001984 0.002175 0.001974 0.649100 0.648188 0.646728 0.649152 5.141762 5.130485 5.131284 5.139508 0.000279 0.000283 0.000385 0.001990 0.001986 0.002001 0.851524 0.697793 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 |
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| ./A4-mpi-manual-cblas -i | 50 50 50 100 100 100 500 500 500 1000 1000 1000 50 50 100 10 | 0.001198 0.001207 0.001203 0.009300 0.011436 0.009349 3.036239 3.046358 3.079162 3.144015 20.152267 19.991013 19.986013 20.326687 0.001201 0.001210 0.001365 0.009301 0.009300 0.009390 3.195391 3.117510 3.156754 3.033477 19.872238 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 | 0.000273 0.000277 0.000277 0.000279 0.001984 0.002175 0.001974 0.649100 0.648188 0.646728 0.649152 5.141762 5.130485 5.131284 5.139508 0.000279 0.000283 0.000283 0.001986 0.001986 0.002001 0.851524 0.697793 0.648264 0.645297 5.189895 | 1,625,625.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 250,500,250,000.0 1,625,625.0 1,625,625.0 25,502,500.0 25,502,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 15,687,562,500.0 250,500,250,000.0 |