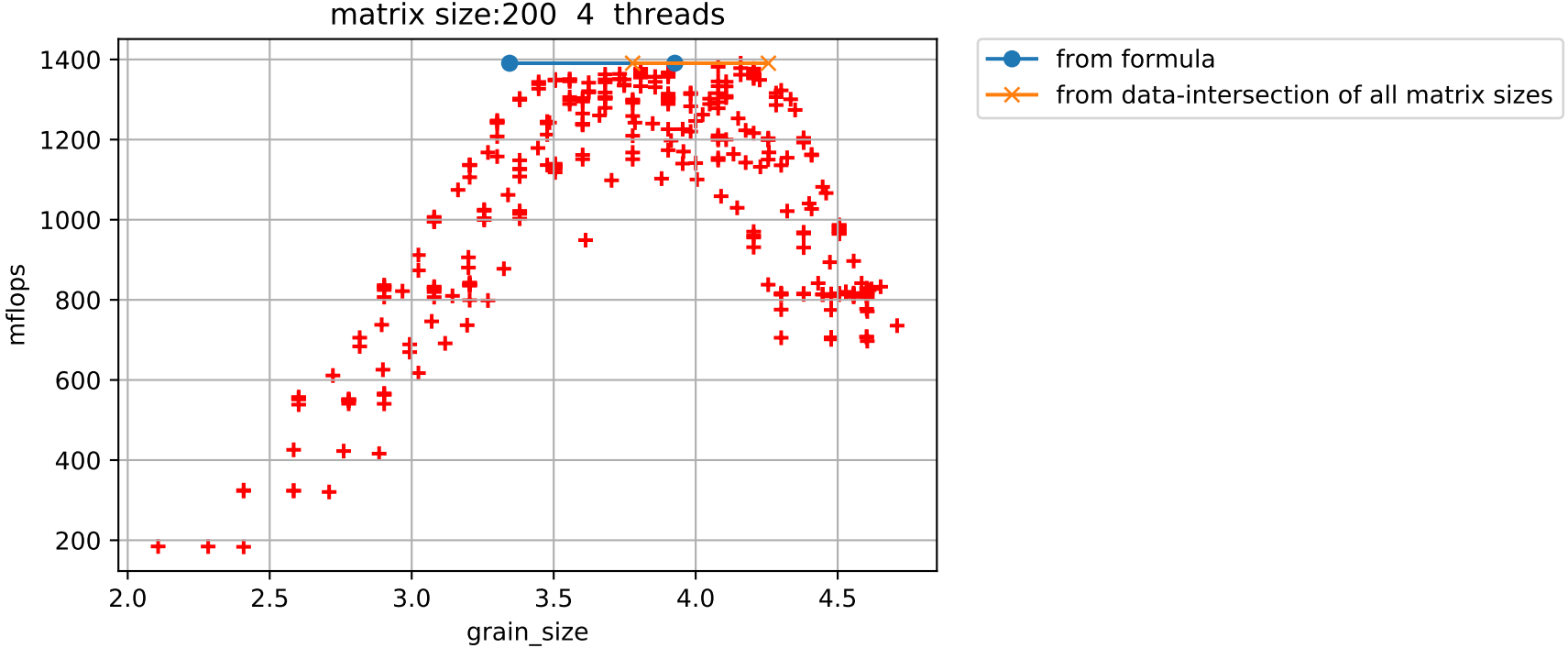
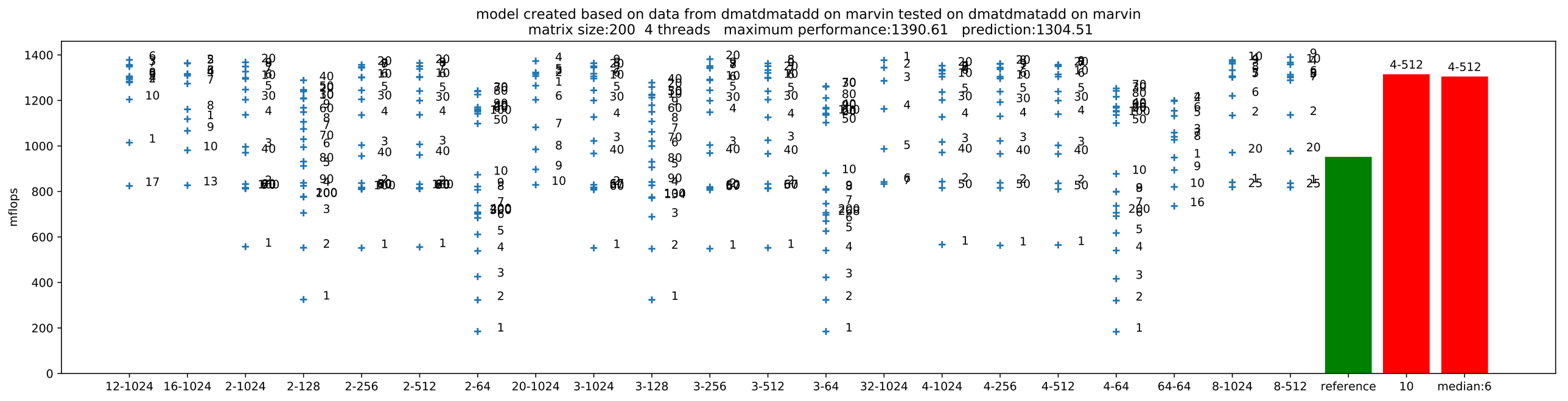
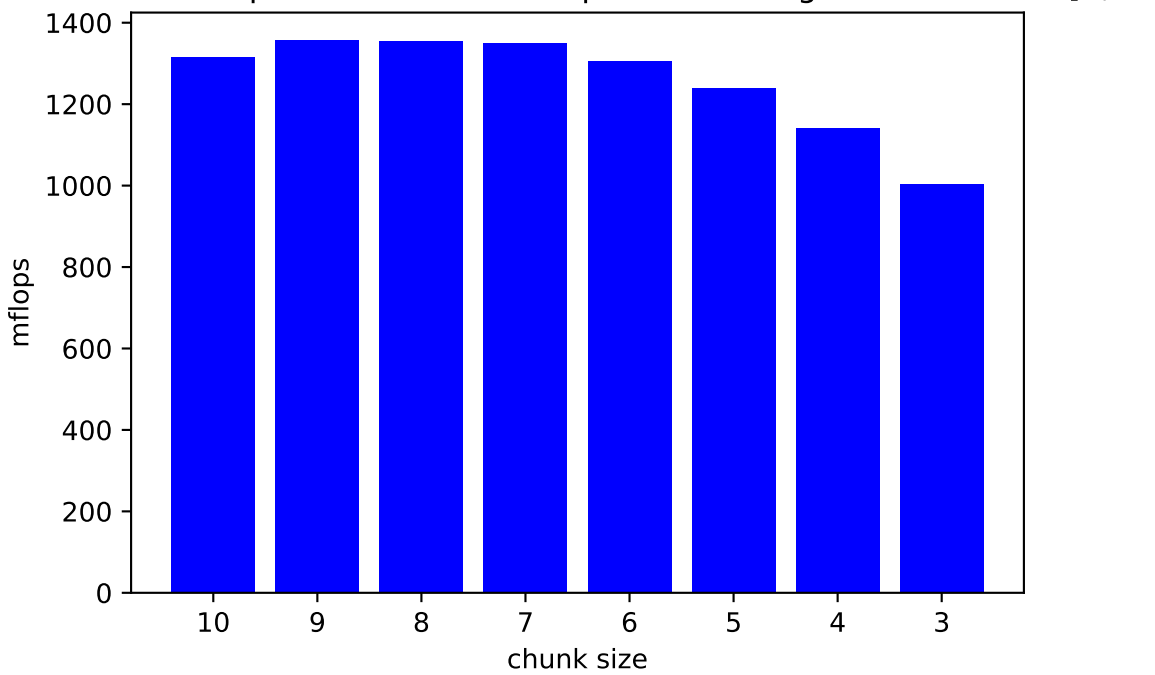
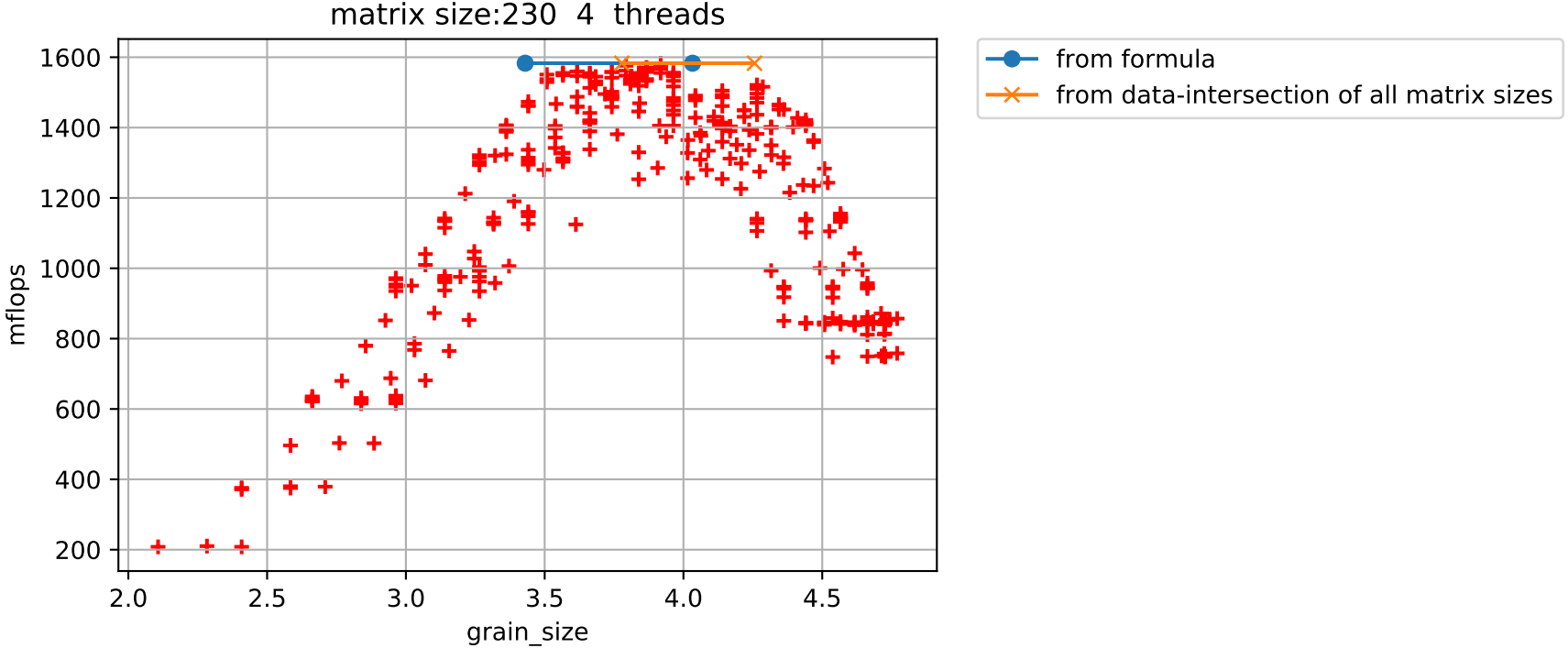
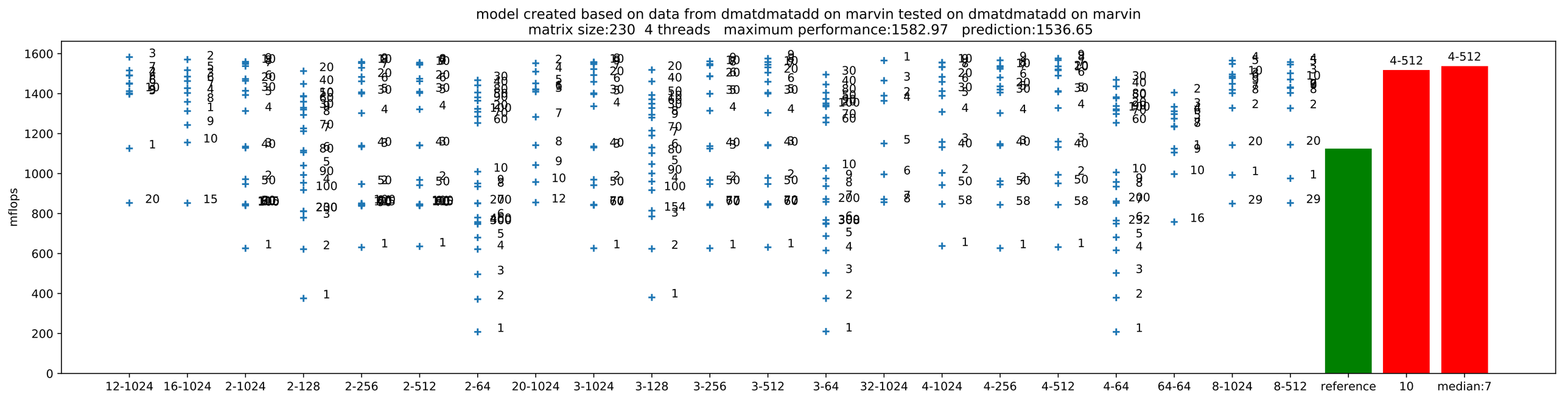
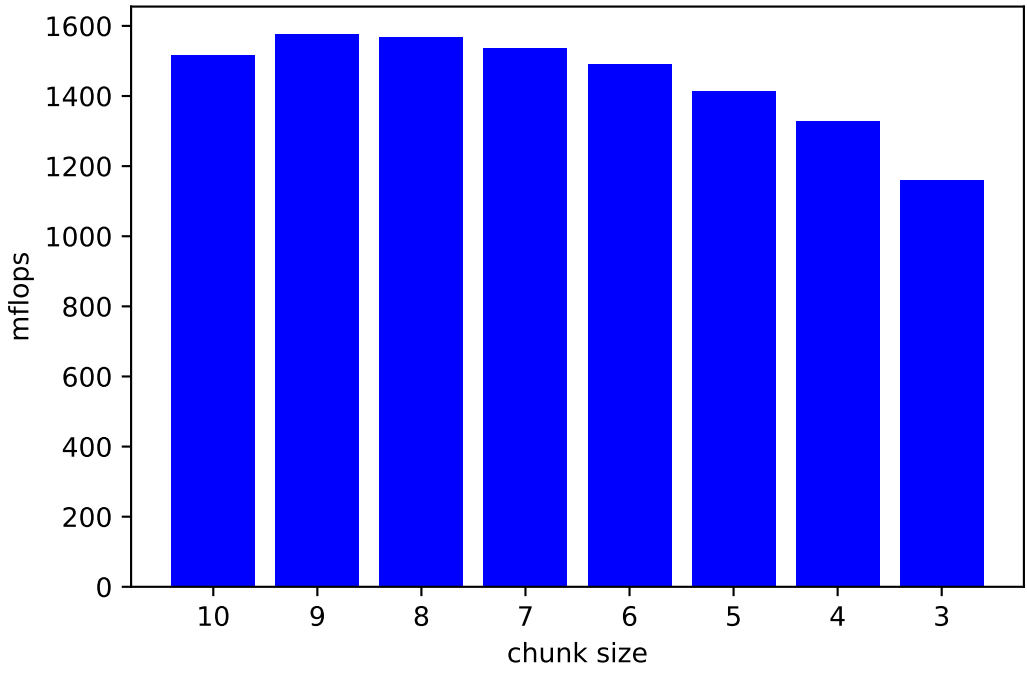

matrix size:200 4 threads
mflops
grain_size
1400
1200
1000
800
600
400
200
2.0
2.5
3.0
3.5
4.0
4.5
from formula
from data-intersection of all matrix sizes

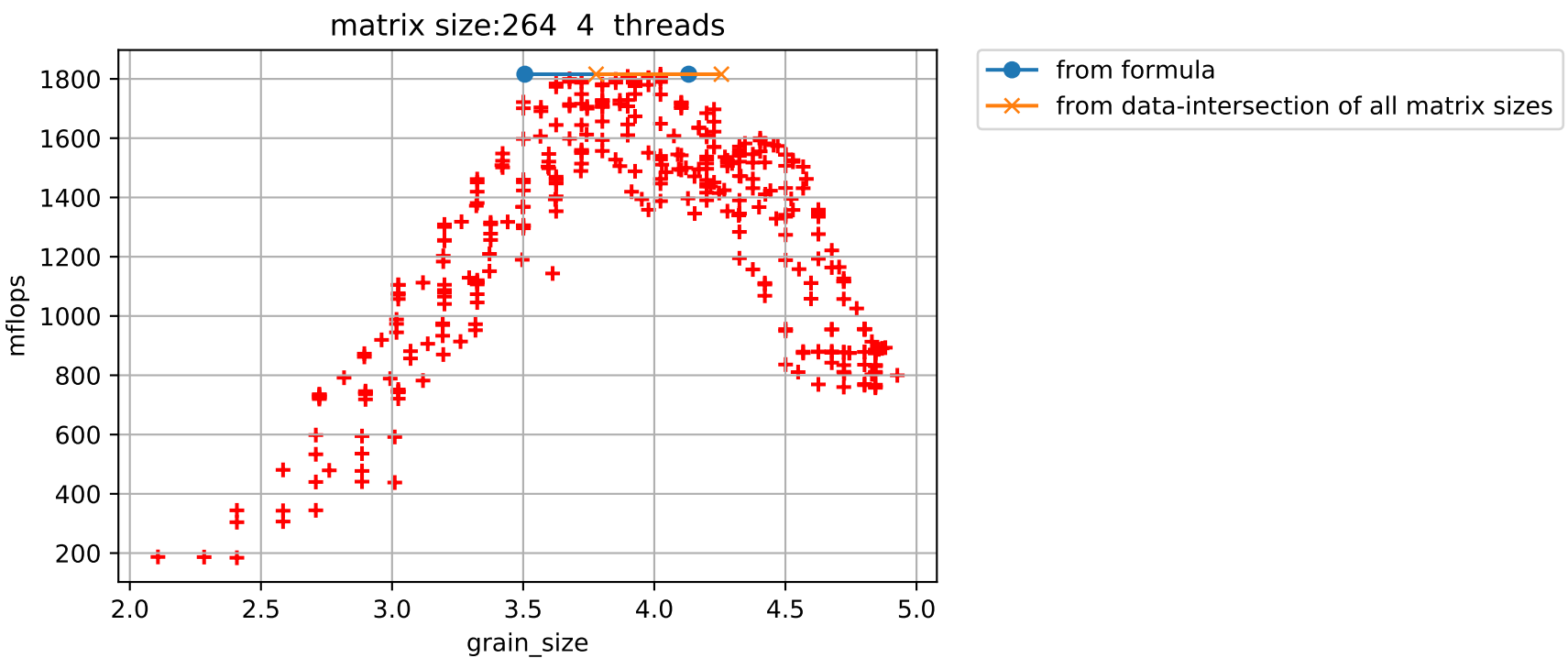

model created based on data from dmatdmatadd on marvin tested on dmatdmatadd on marvin
matrix size:200 4 threads maximum performance:1390.61 prediction:1304.51
mflops
0
200
400
600
800
1000
1200
1400
4-512
4-512
12-1024
16-1024
2-1024
2-128
2-256
2-512
2-64
20-1024
3-1024
3-128
3-256
3-512
3-64
32-1024
4-1024
4-256
4-512
4-64
64-64
8-1024
8-512
reference
10
median:6

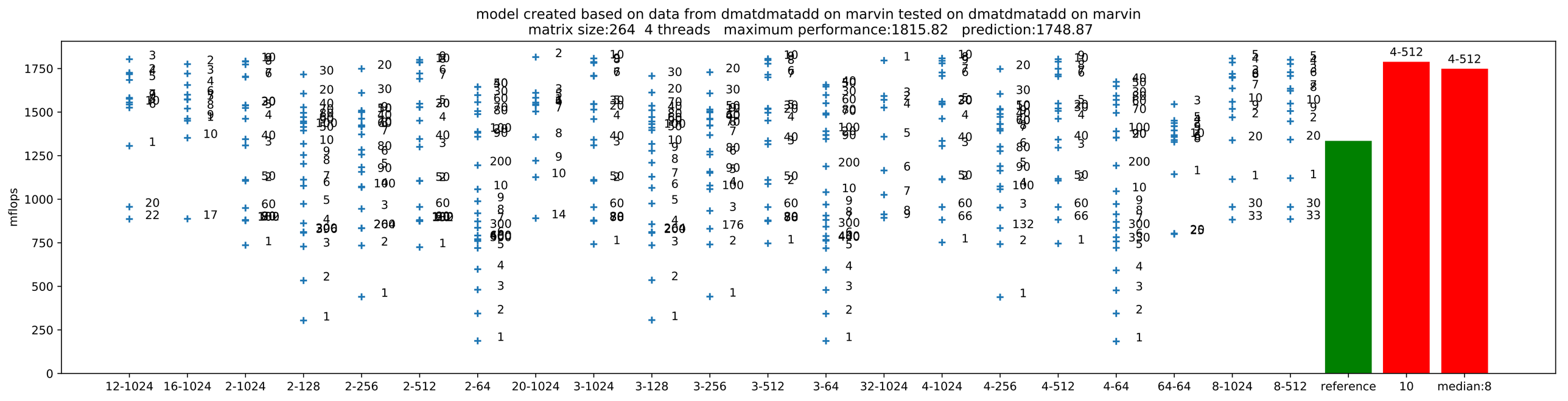

matrix size:200 performance for the predicted range of chunk size:[3,10]
mflops
chunk size
0
200
400
600
800
1000
1200
1400
10
9
8
7
6
5
4
3

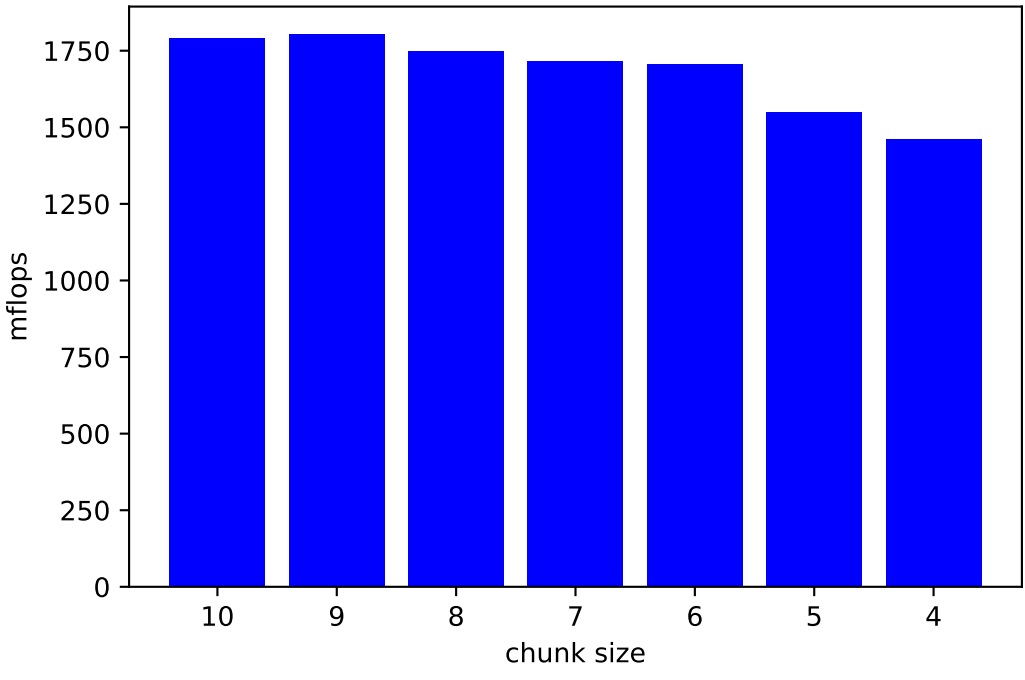

matrix size:230 4 threads
mflops
grain_size
1600
1400
1200
1000
800
600
400
200
2.0
2.5
3.0
3.5
4.0
4.5
from formula
from data-intersection of all matrix sizes

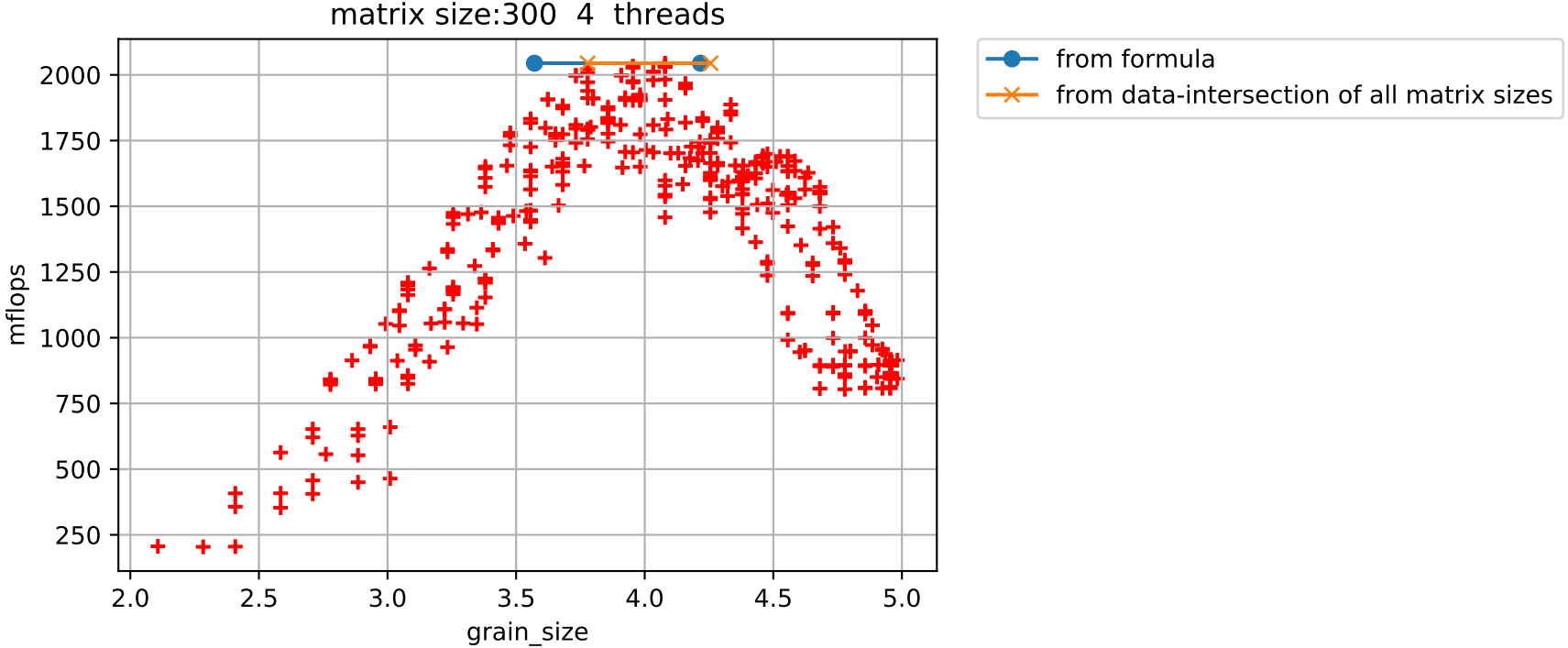

model created based on data from dmatdmatadd on marvin tested on dmatdmatadd on marvin
matrix size:230 4 threads maximum performance:1582.97 prediction:1536.65
mflops
0
200
400
600
800
1000
1200
1400
1600
12-1024
16-1024
2-1024
2-128
2-256
2-512
2-64
20-1024
3-1024
3-128
3-256
3-512
3-64
32-1024
4-1024
4-256
4-512
4-64
64-64
8-1024
8-512
reference
10
median:7
4-512
4-512

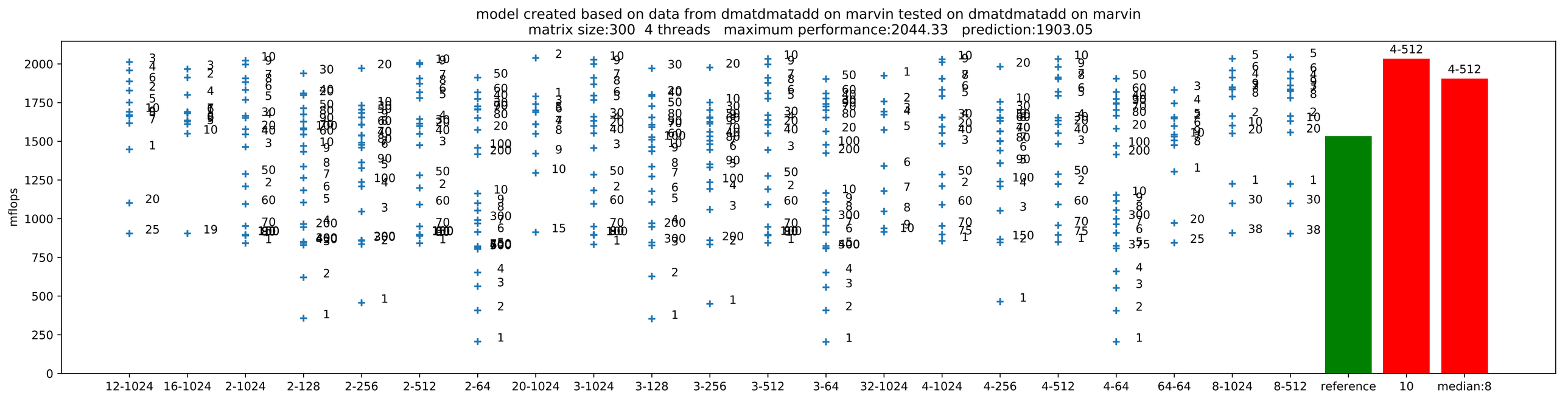

matrix size:230 performance for the predicted range of chunk size:[3,11]
mflops
0
200
400
600
800
1000
1200
1400
1600
10
9
8
7
6
5
4
3
chunk size

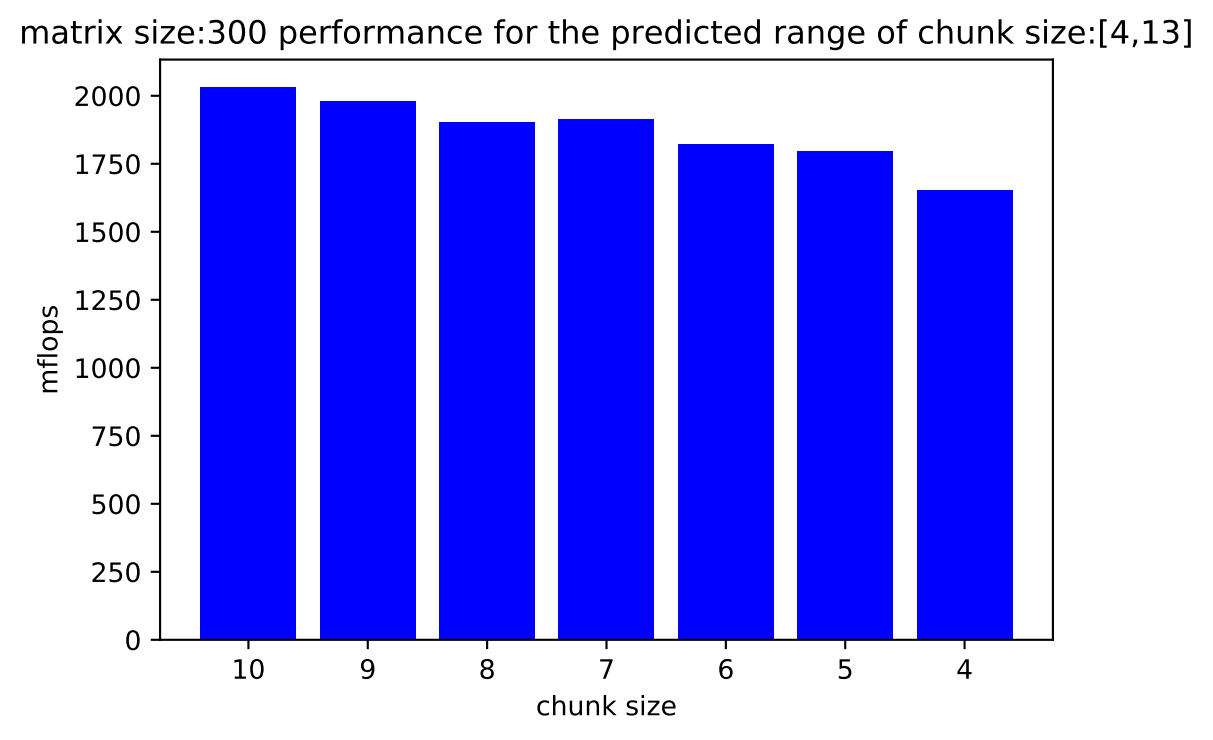

matrix size:264 4 threads
mflops
grain_size
1800
1600
1400
1200
1000
800
600
400
200
2.0
2.5
3.0
3.5
4.0
4.5
5.0
from formula
from data-intersection of all matrix sizes

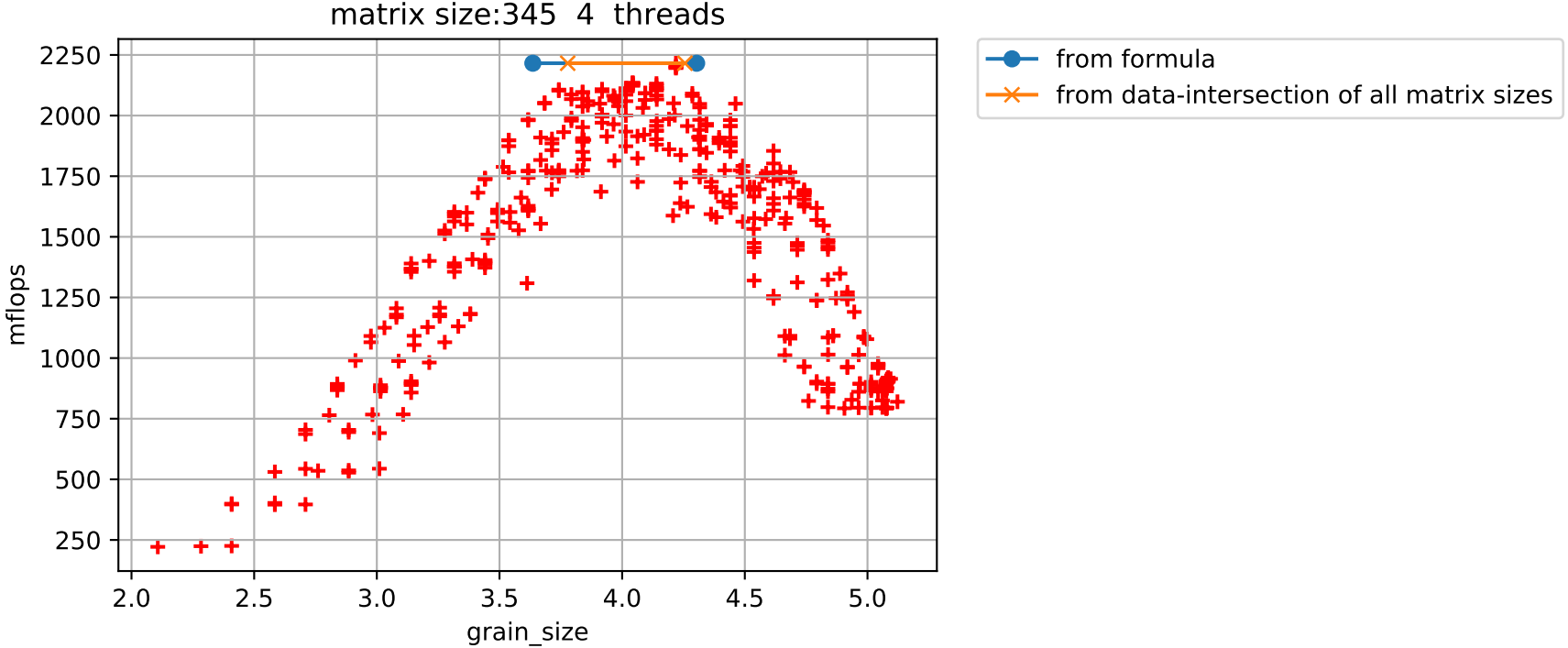

model created based on data from dmatdmatadd on marvin tested on dmatdmatadd on marvin
matrix size:264 4 threads maximum performance:1815.82 prediction:1748.87
mflops
0
250
500
750
1000
1250
1500
1750
12-1024
16-1024
2-1024
2-128
2-256
2-512
2-64
20-1024
3-1024
3-128
3-256
3-512
3-64
32-1024
4-1024
4-256
4-512
4-64
64-64
8-1024
8-512
reference
10
median:8
4-512
4-512

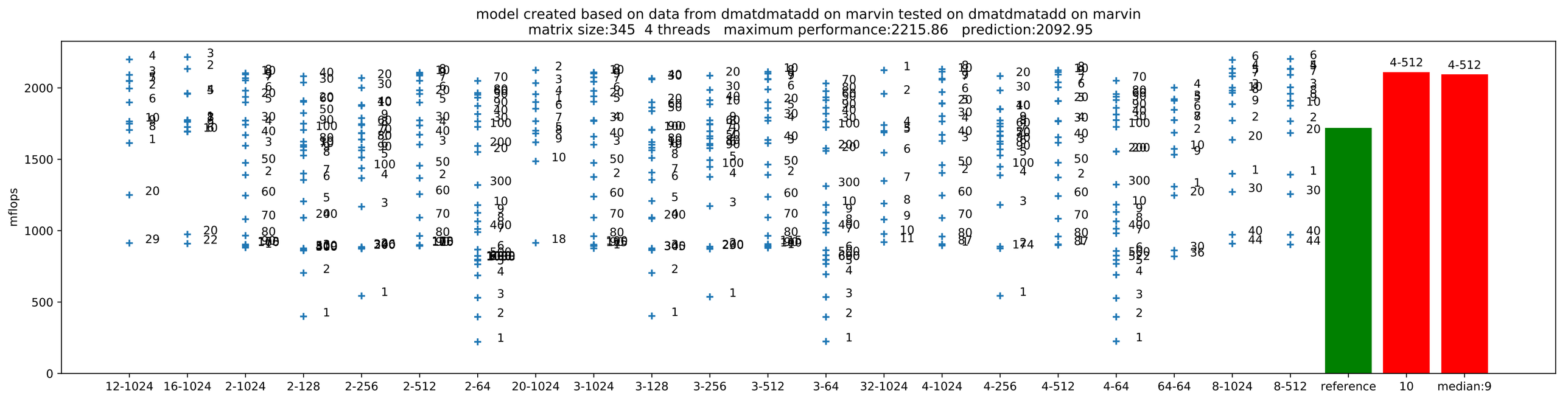

matrix size:264 performance for the predicted range of chunk size:[4,12]
mflops
0
250
500
750
1000
1250
1500
1750
10
9
8
7
6
5
4
chunk size

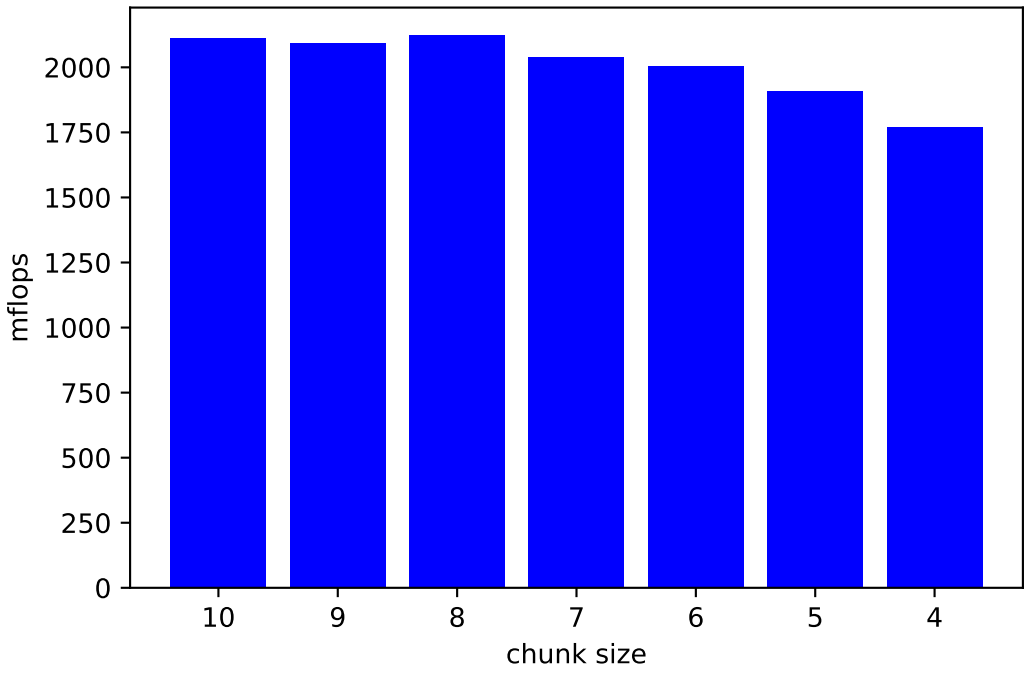

matrix size:300 4 threads
mflops
grain_size
2000
1750
1500
1250
1000
750
500
250
2.0
2.5
3.0
3.5
4.0
4.5
5.0
from formula
from data-intersection of all matrix sizes

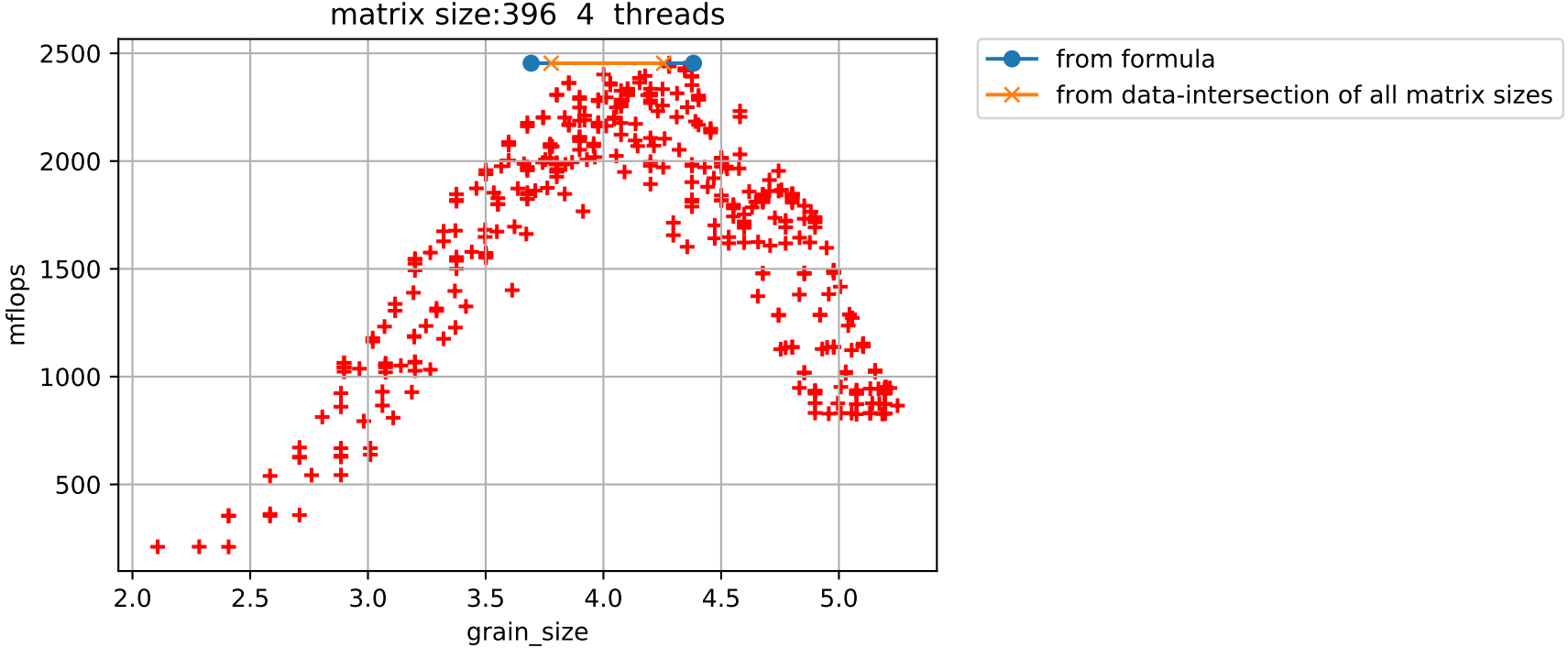

model created based on data from dmatdmatadd on marvin tested on dmatdmatadd on marvin
matrix size:300 4 threads maximum performance:2044.33 prediction:1903.05
mflops
0
250
500
750
1000
1250
1500
1750
2000
12-1024
16-1024
2-1024
2-128
2-256
2-512
2-64
20-1024
3-1024
3-128
3-256
3-512
3-64
32-1024
4-1024
4-256
4-512
4-64
64-64
8-1024
8-512
reference
10
median:8
4-512
4-512

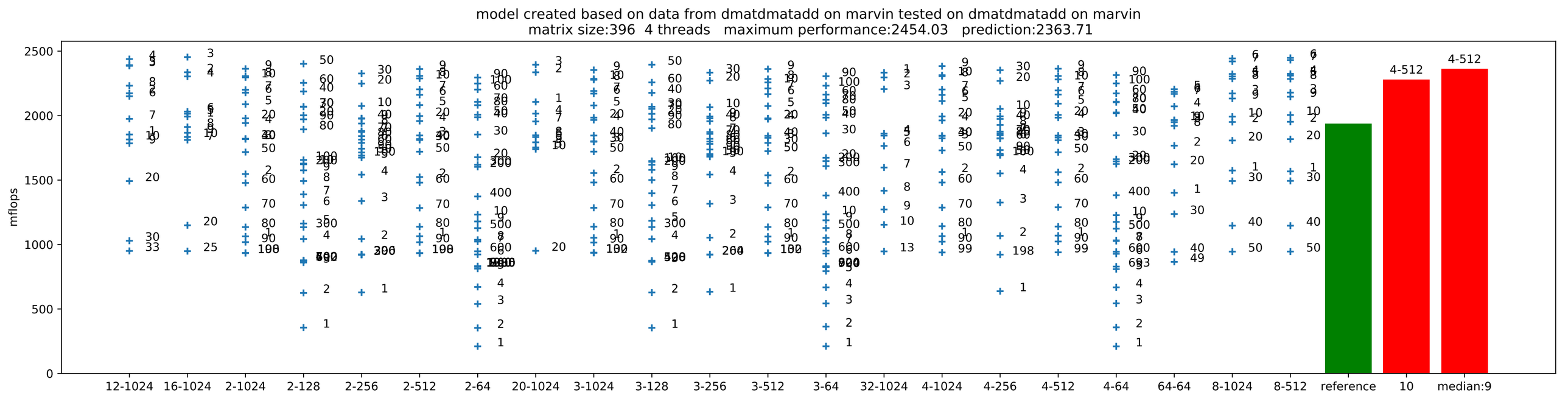

matrix size:300 performance for the predicted range of chunk size:[4,13]
mflops
2000
1750
1500
1250
1000
750
500
250
0
10
9
8
7
6
5
4
chunk size

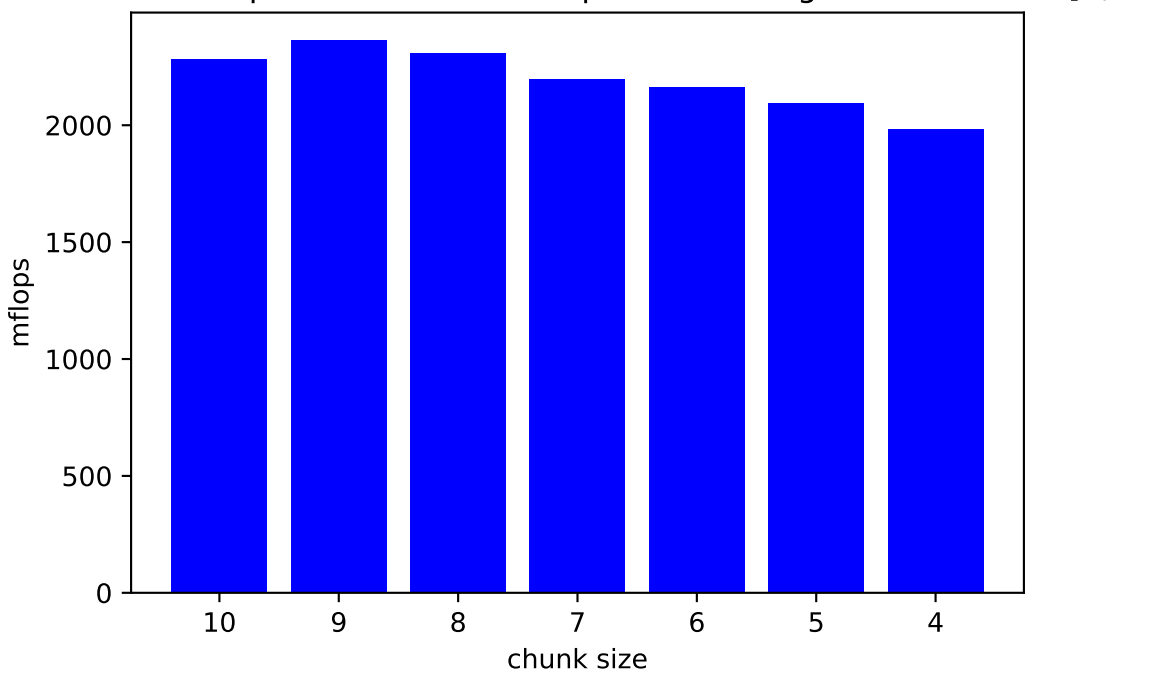

matrix size:345 4 threads
mflops
grain_size
2250
2000
1750
1500
1250
1000
750
500
250
2.0
2.5
3.0
3.5
4.0
4.5
5.0
from formula
from data-intersection of all matrix sizes

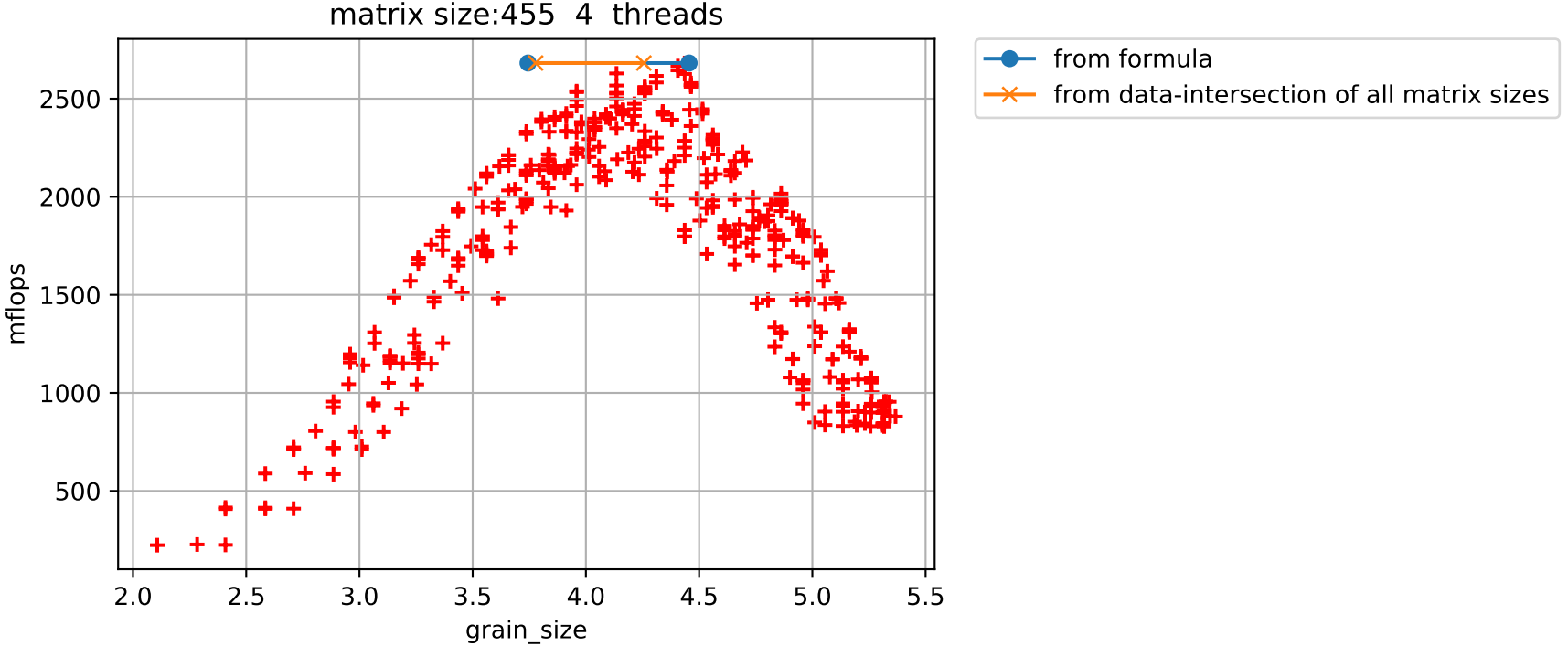

model created based on data from dmatdmatadd on marvin tested on dmatdmatadd on marvin
matrix size:345 4 threads maximum performance:2215.86 prediction:2092.95
mflops
0
500
1000
1500
2000
12-1024
16-1024
2-1024
2-128
2-256
2-512
2-64
20-1024
3-1024
3-128
3-256
3-512
3-64
32-1024
4-1024
4-256
4-512
4-64
64-64
8-1024
8-512
reference
10
median:9
4-512
4-512

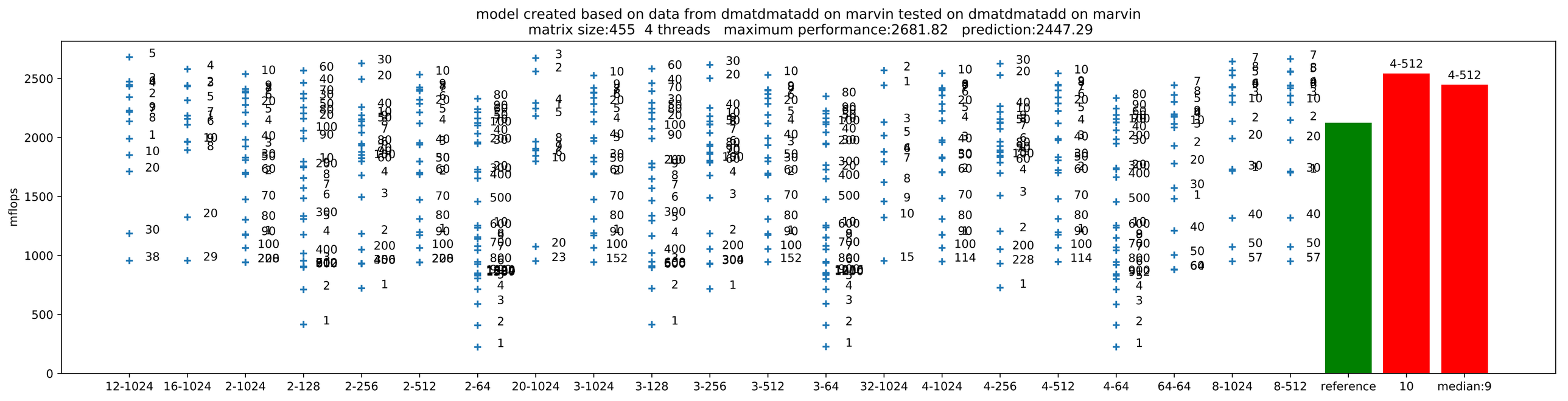

matrix size:345 performance for the predicted range of chunk size:[4,14]
mflops
0
250
500
750
1000
1250
1500
1750
2000
10
9
8
7
6
5
4
chunk size

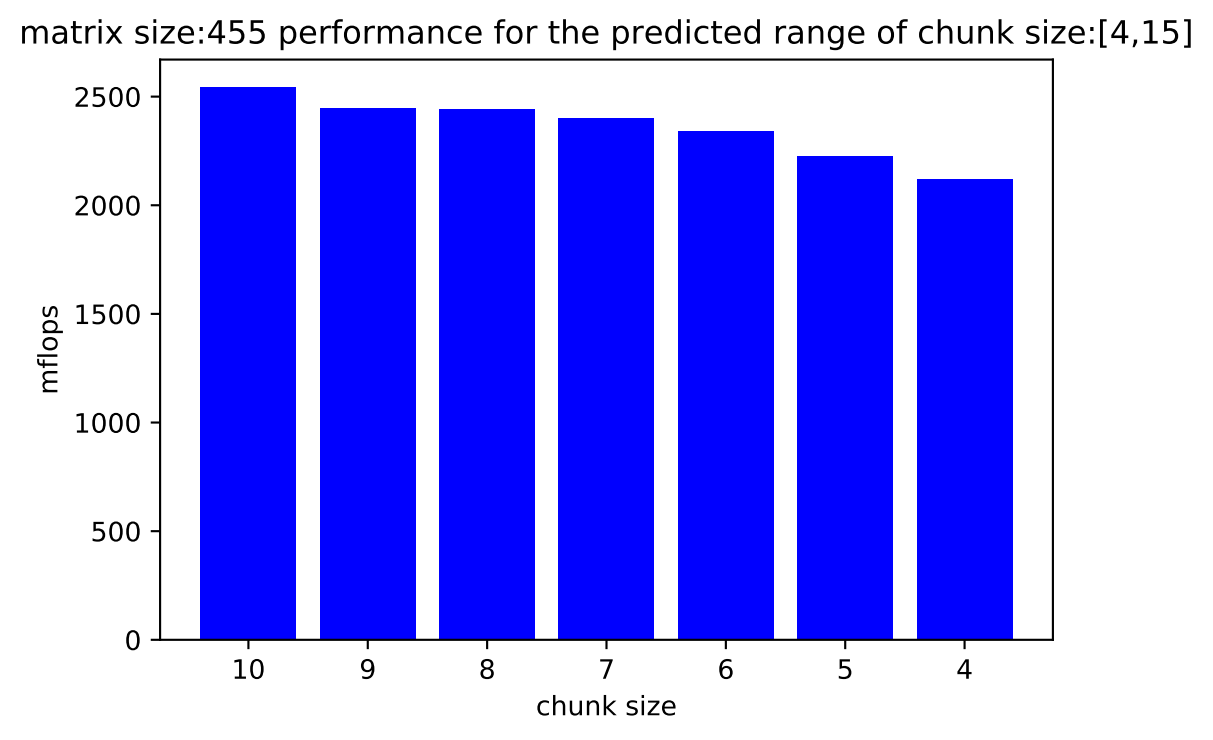

matrix size:396 4 threads
mflops
grain_size
2500
2000
1500
1000
500
2.0
2.5
3.0
3.5
4.0
4.5
5.0
from formula
from data-intersection of all matrix sizes

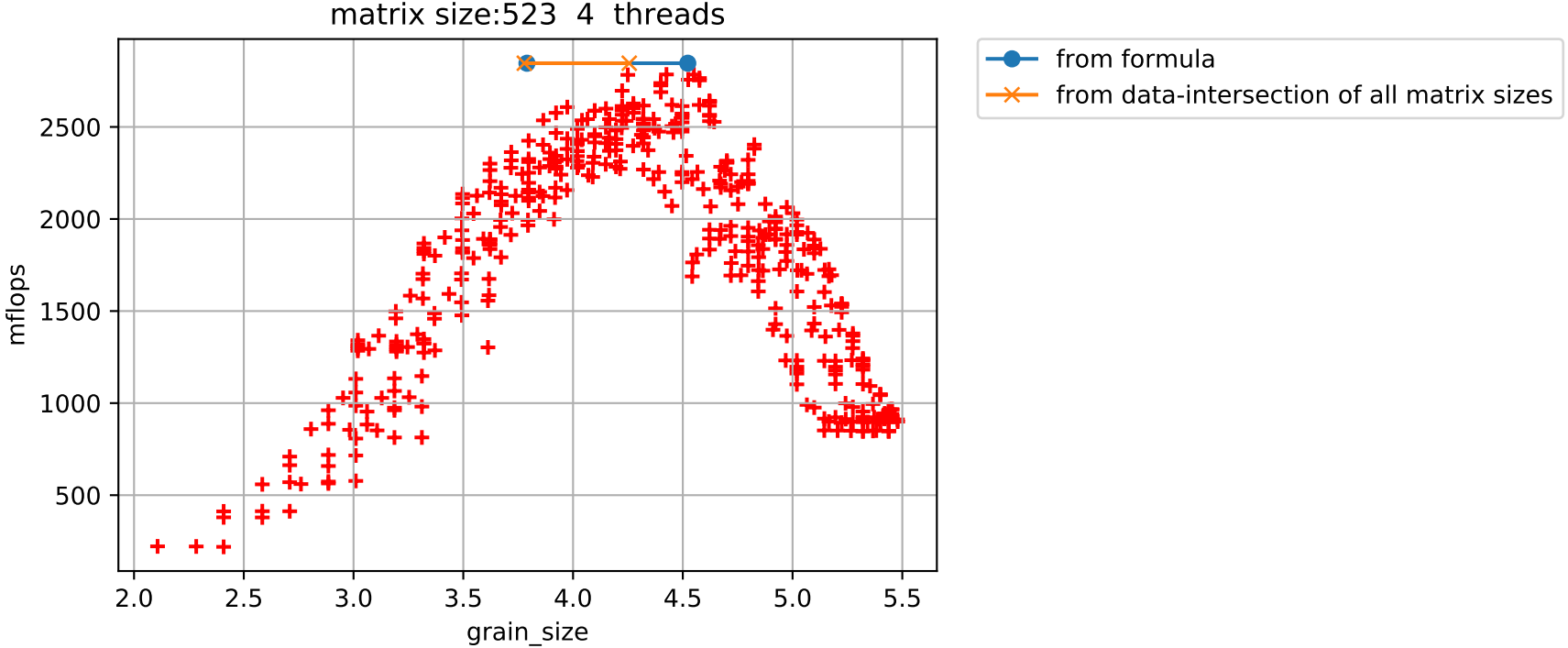

model created based on data from dmatdmatadd on marvin tested on dmatdmatadd on marvin
matrix size:396 4 threads maximum performance:2454.03 prediction:2363.71
mflops
0
500
1000
1500
2000
2500
12-1024
16-1024
2-1024
2-128
2-256
2-512
2-64
20-1024
3-1024
3-128
3-256
3-512
3-64
32-1024
4-1024
4-256
4-512
4-64
64-64
8-1024
8-512
reference
10
median:9
4-512
4-512

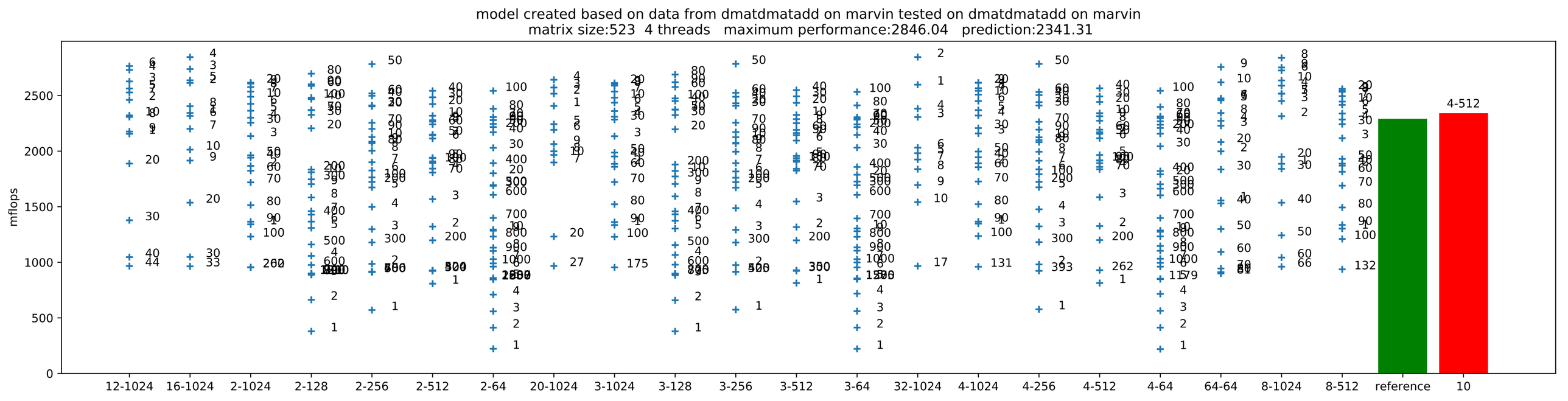

matrix size:396 performance for the predicted range of chunk size:[4,15]
mflops
0
500
1000
1500
2000
10
9
8
7
6
5
4
chunk size

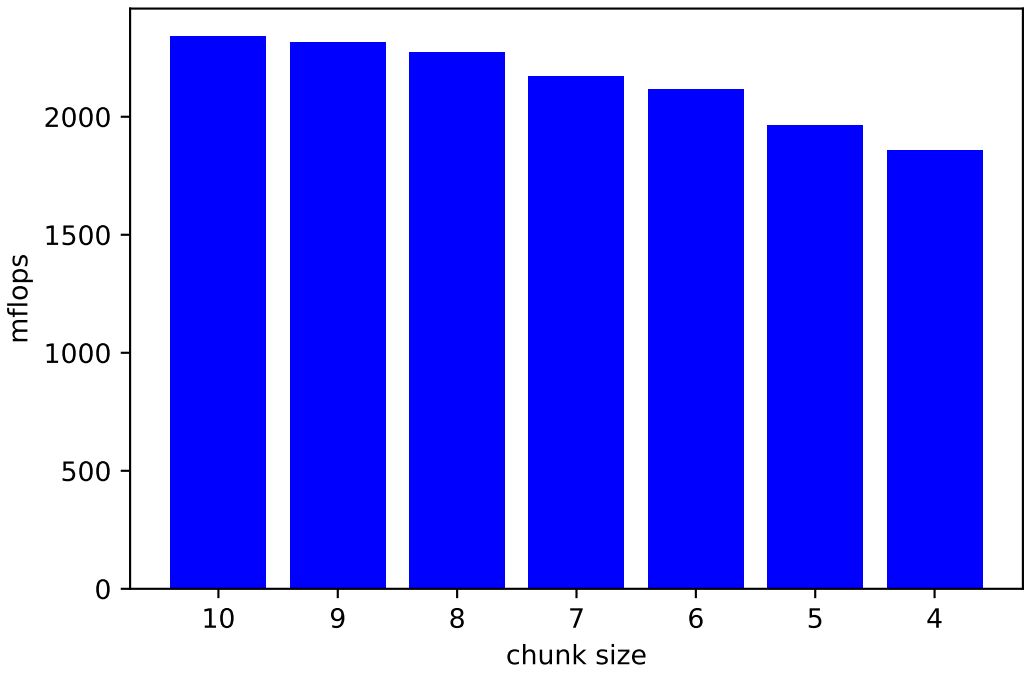

matrix size:455 4 threads
from formula
from data-intersection of all matrix sizes
mflops
grain_size
2500
2000
1500
1000
500
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5

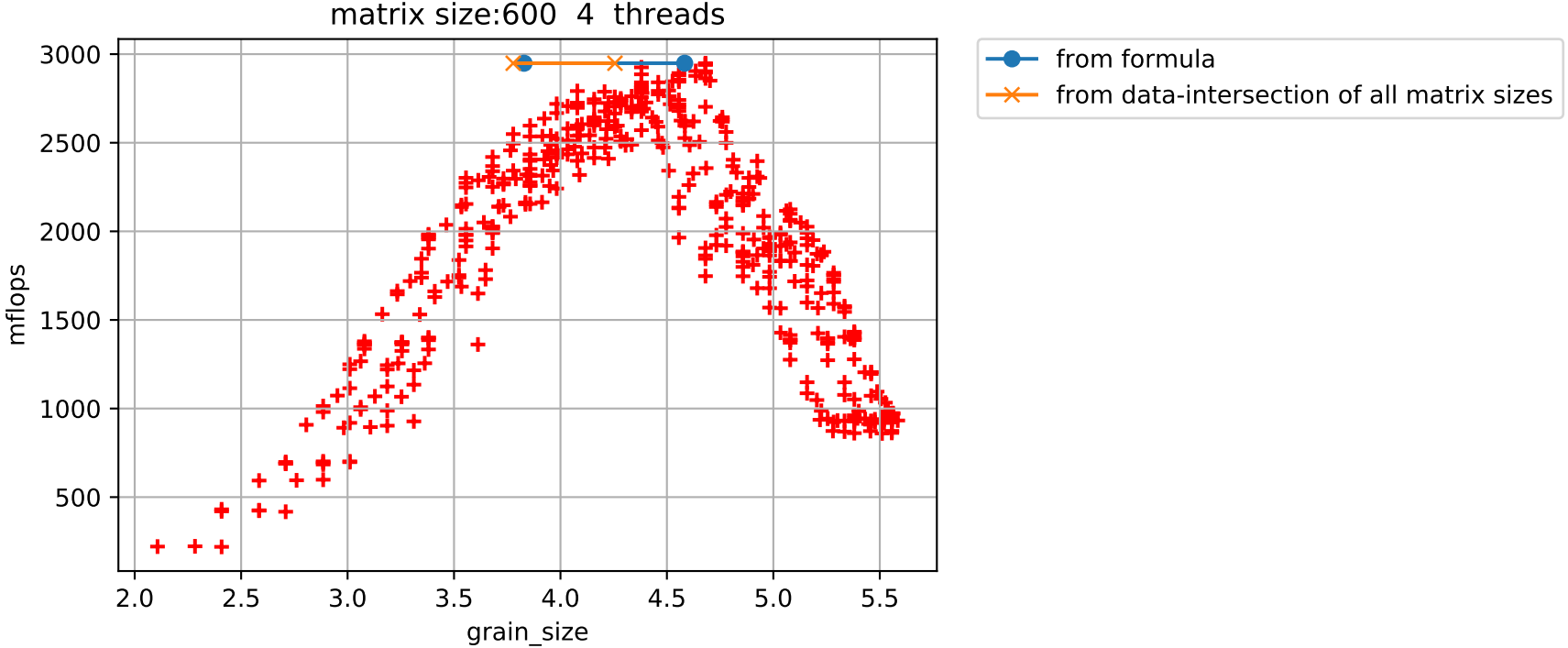

model created based on data from dmatdmatadd on marvin tested on dmatdmatadd on marvin
matrix size:455 4 threads maximum performance:2681.82 prediction:2447.29
mflops
0
500
1000
1500
2000
2500
12-1024
16-1024
2-1024
2-128
2-256
2-512
2-64
20-1024
3-1024
3-128
3-256
3-512
3-64
32-1024
4-1024
4-256
4-512
4-64
64-64
8-1024
8-512
reference
10
median:9
4-512
4-512

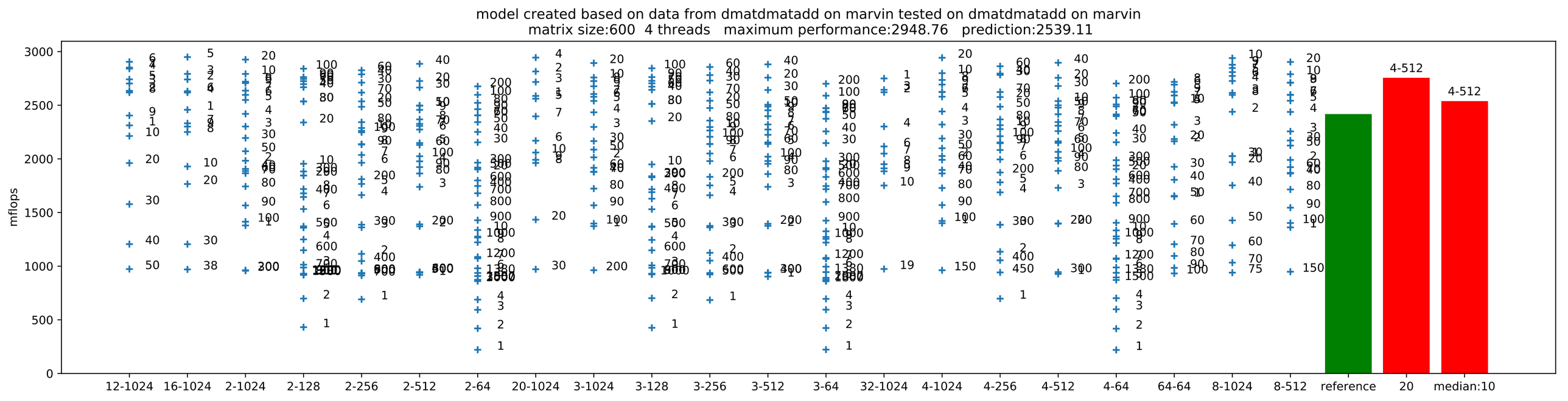

matrix size:455 performance for the predicted range of chunk size:[4,15]
mflops
2500
2000
1500
1000
500
0
10
9
8
7
6
5
4
chunk size

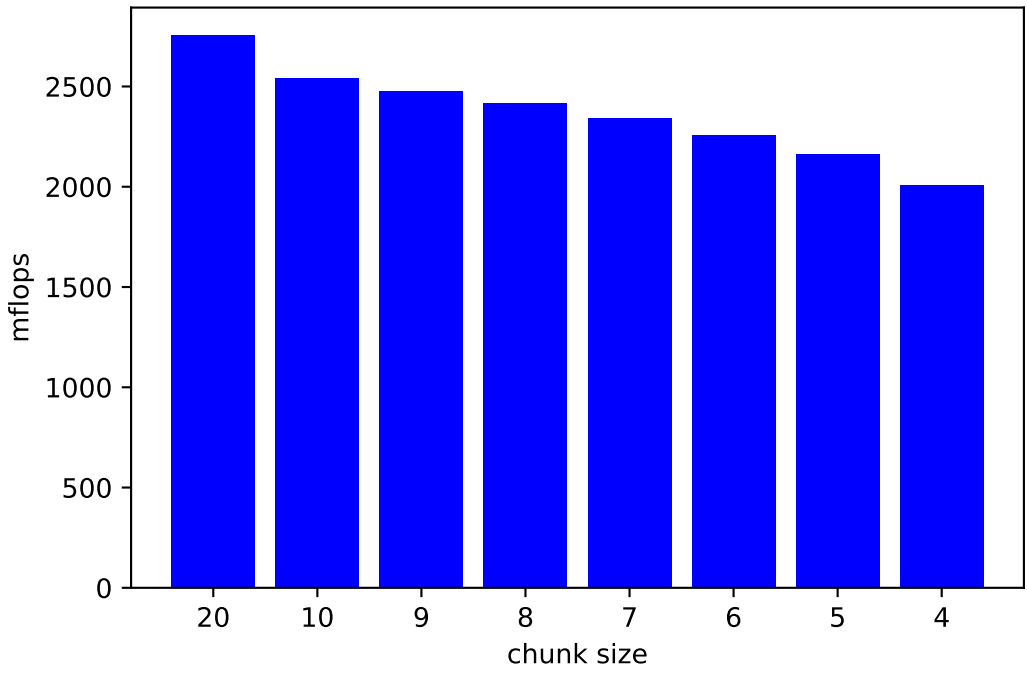

matrix size:523 4 threads
from formula
from data-intersection of all matrix sizes
mflops
grain_size
2500
2000
1500
1000
500
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5

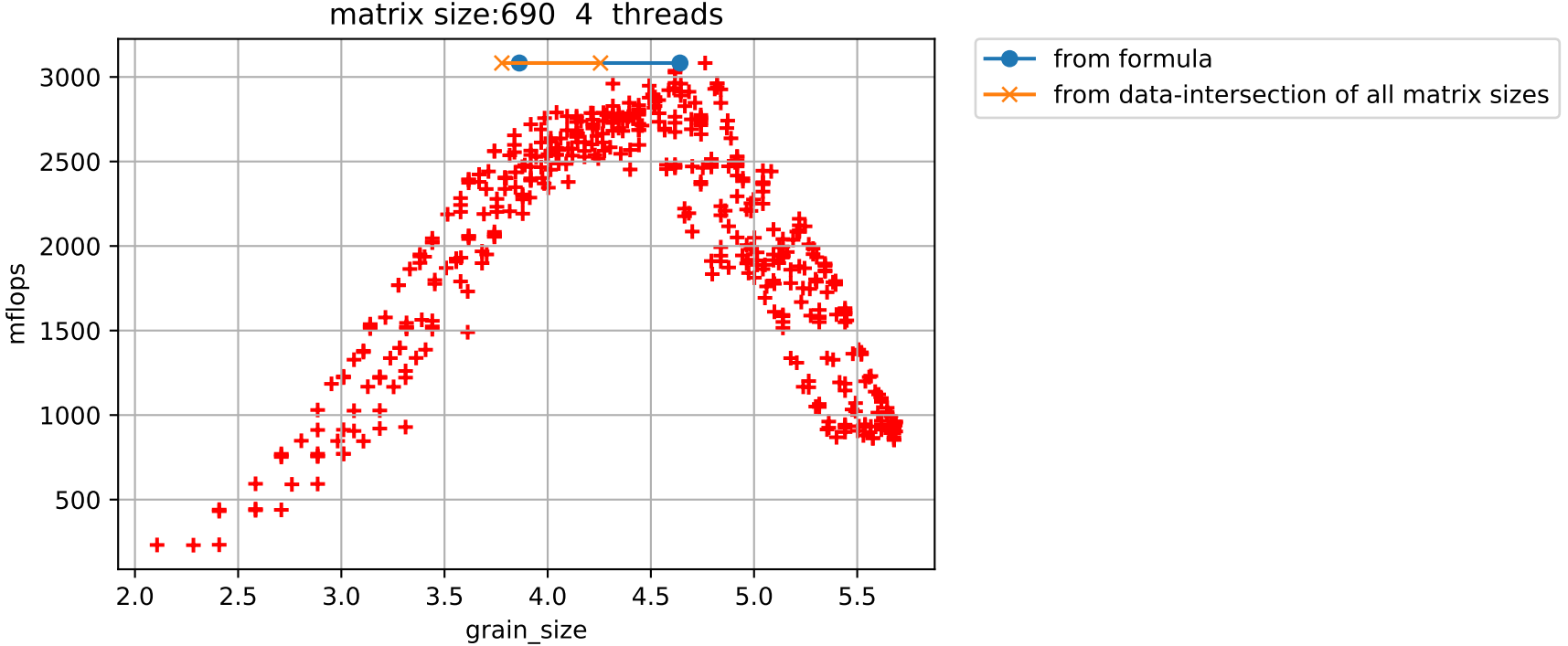

model created based on data from dmatdmatadd on marvin tested on dmatdmatadd on marvin
matrix size:523 4 threads maximum performance:2846.04 prediction:2341.31
mflops
0
500
1000
1500
2000
2500
12-1024
16-1024
2-1024
2-128
2-256
2-512
2-64
20-1024
3-1024
3-128
3-256
3-512
3-64
32-1024
4-1024
4-256
4-512
4-64
64-64
8-1024
8-512
reference
10
4-512

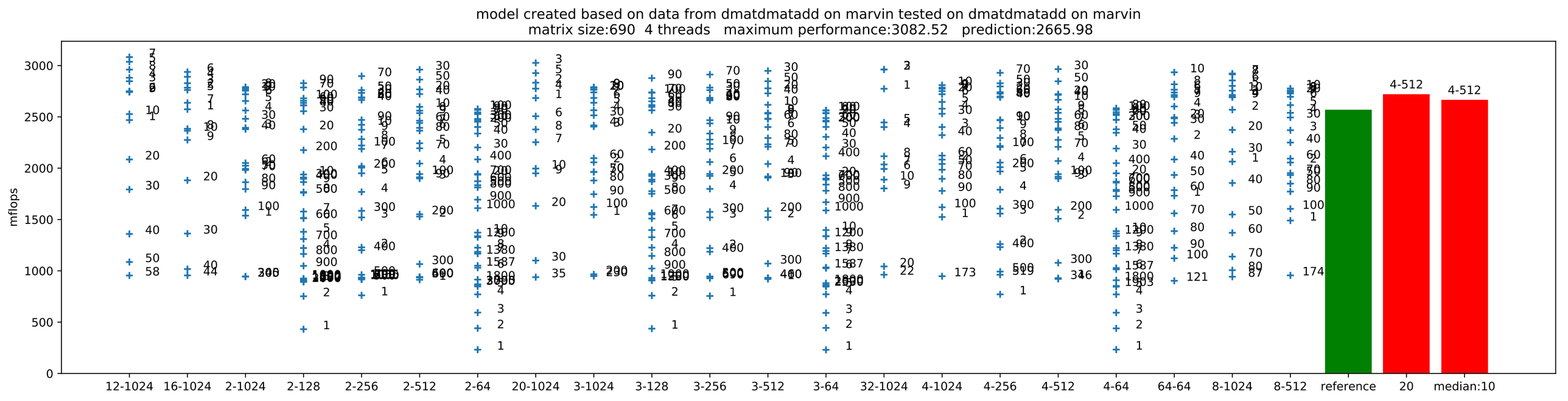

matrix size:523 performance for the predicted range of chunk size:[4,18]
mflops
0
500
1000
1500
2000
10
9
8
7
6
5
4
chunk size

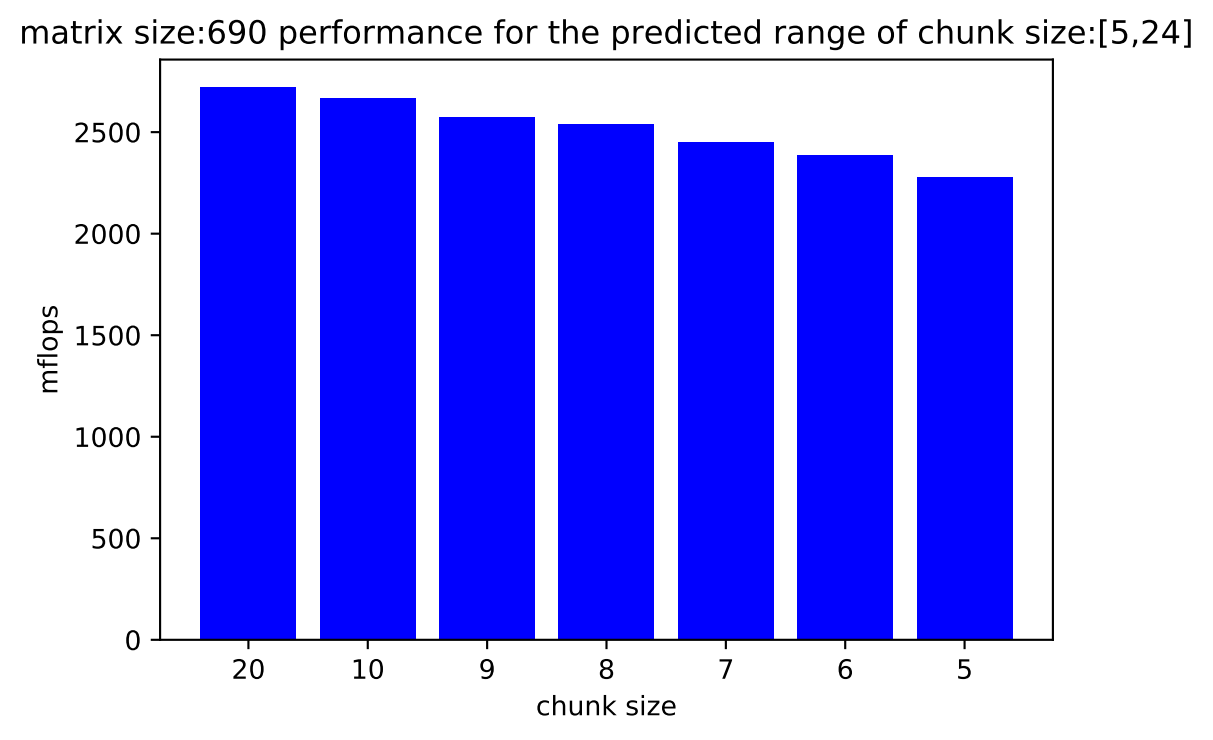

matrix size:600 4 threads
mflops
grain_size
3000
2500
2000
1500
1000
500
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
from formula
from data-intersection of all matrix sizes

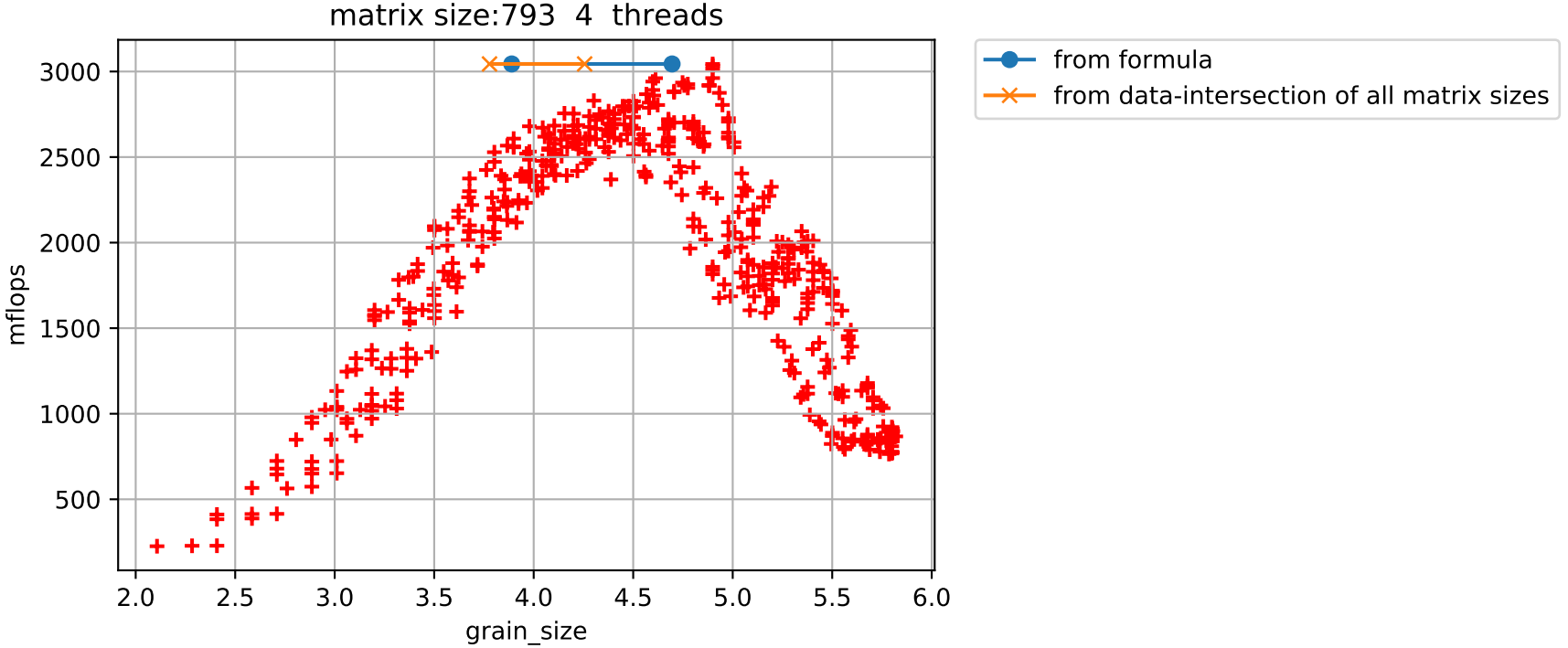

model created based on data from dmatdmatadd on marvin tested on dmatdmatadd on marvin
matrix size:600 4 threads maximum performance:2948.76 prediction:2539.11
mflops
0
500
1000
1500
2000
2500
3000
12-1024
16-1024
2-1024
2-128
2-256
2-512
2-64
20-1024
3-1024
3-128
3-256
3-512
3-64
32-1024
4-1024
4-256
4-512
4-64
64-64
8-1024
8-512
reference
20
median:10
4-512
4-512

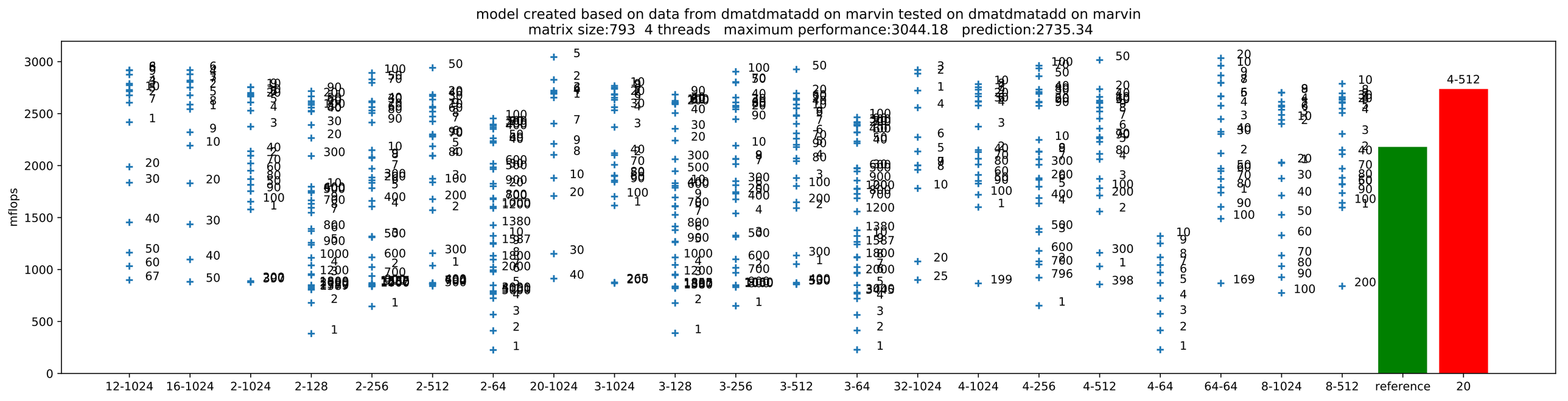

matrix size:600 performance for the predicted range of chunk size:[4,21]
mflops
0
500
1000
1500
2000
2500
20
10
9
8
7
6
5
4
chunk size

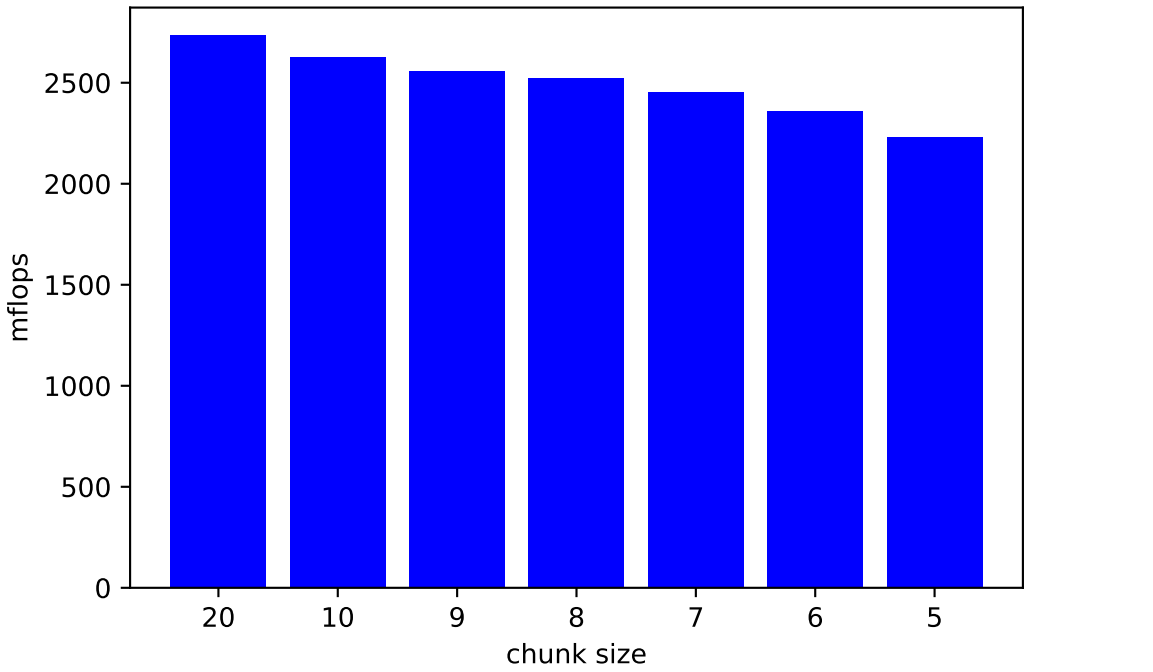

matrix size:690 4 threads
mflops
grain_size
3000
2500
2000
1500
1000
500
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
from formula
from data-intersection of all matrix sizes

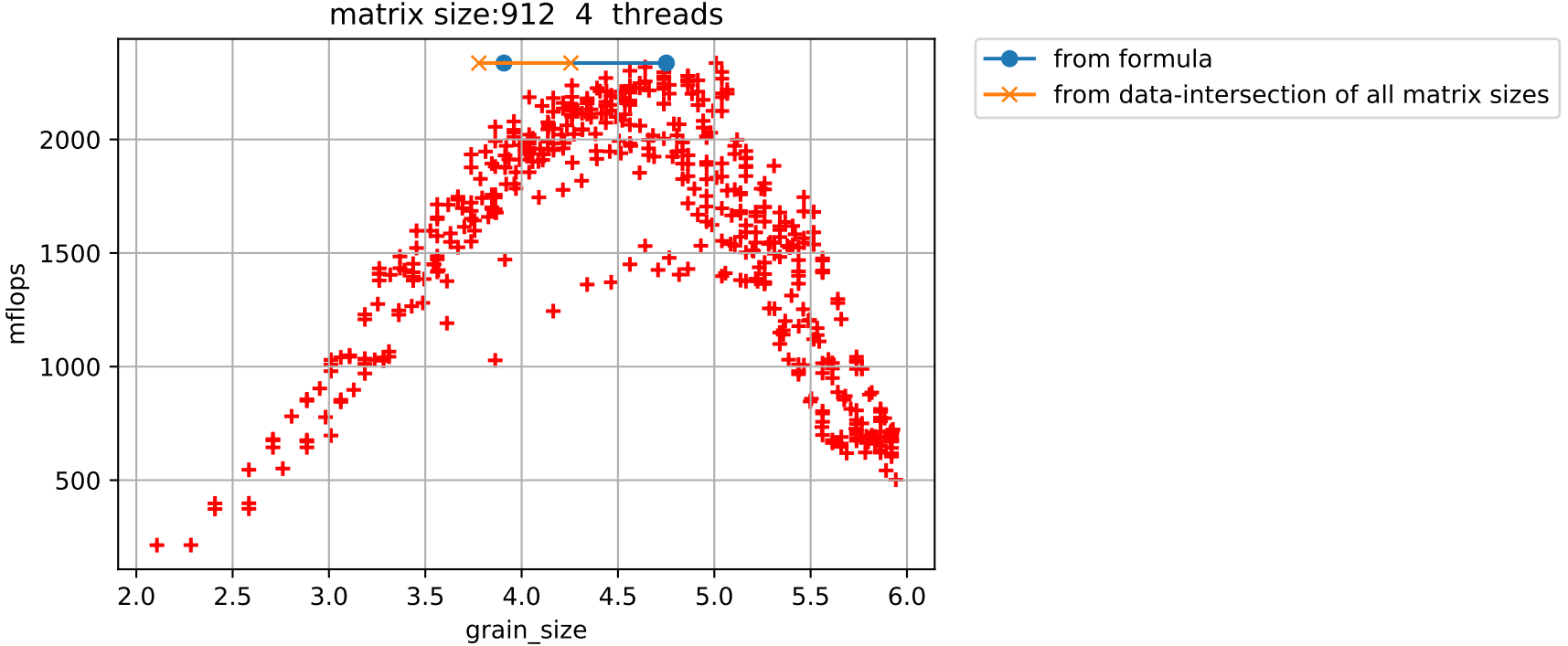

model created based on data from dmatdmatadd on marvin tested on dmatdmatadd on marvin
matrix size:690 4 threads maximum performance:3082.52 prediction:2665.98
mflops
0
500
1000
1500
2000
2500
3000
12-1024
16-1024
2-1024
2-128
2-256
2-512
2-64
20-1024
3-1024
3-128
3-256
3-512
3-64
32-1024
4-1024
4-256
4-512
4-64
64-64
8-1024
8-512
reference
20
median:10
4-512
4-512

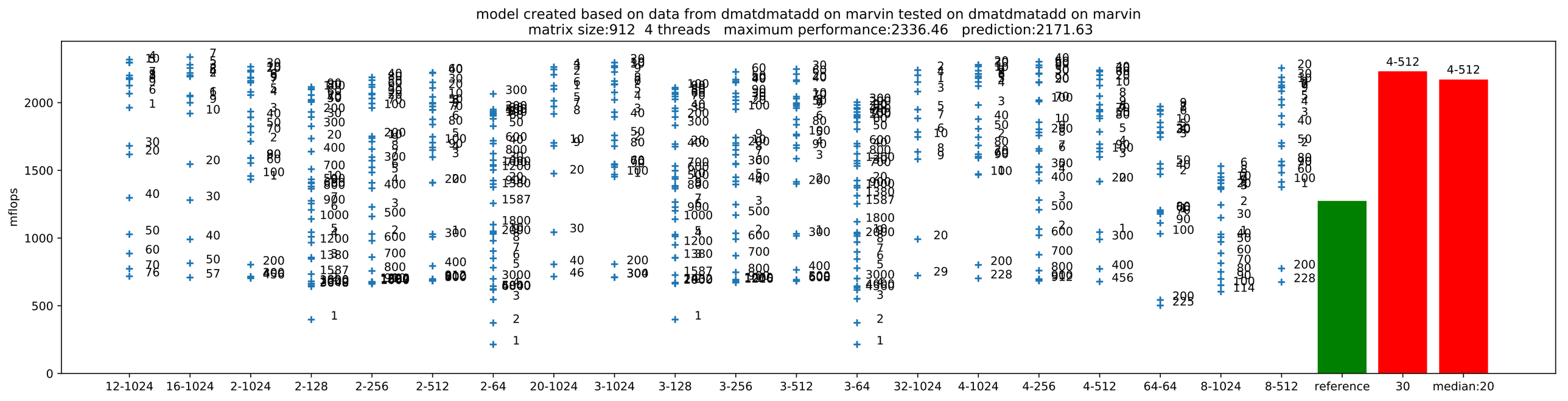

matrix size:690 performance for the predicted range of chunk size:[5,24]
mflops
0
500
1000
1500
2000
2500
20
10
9
8
7
6
5
chunk size

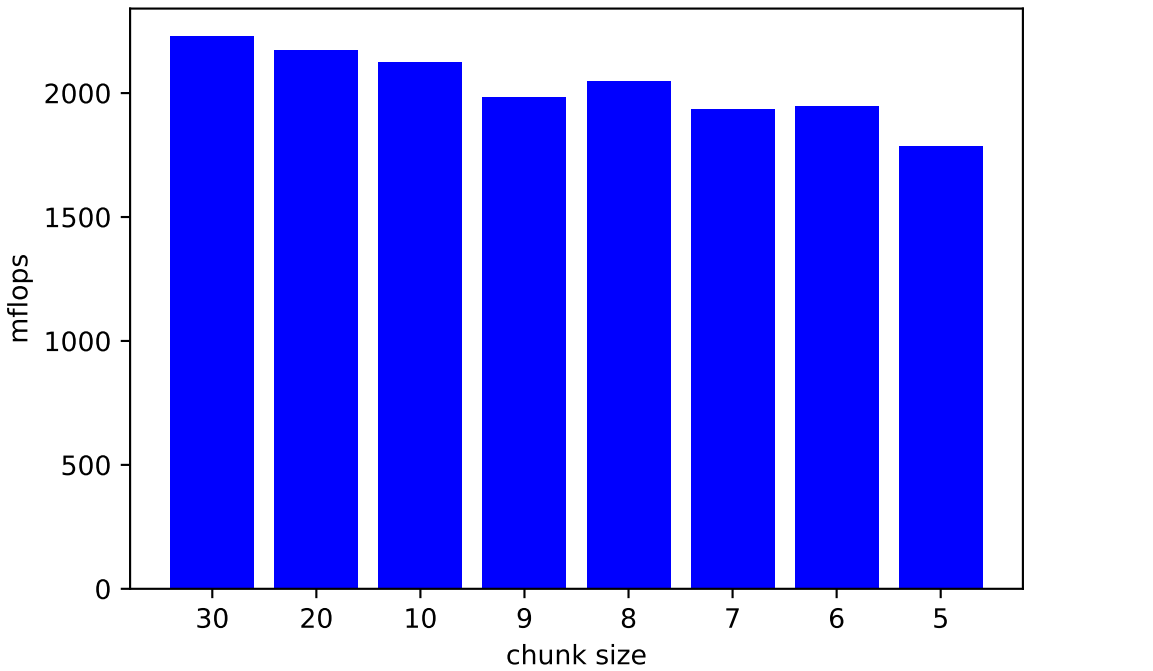

matrix size:793 4 threads
mflops
grain_size
3000
2500
2000
1500
1000
500
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
from formula
from data-intersection of all matrix sizes

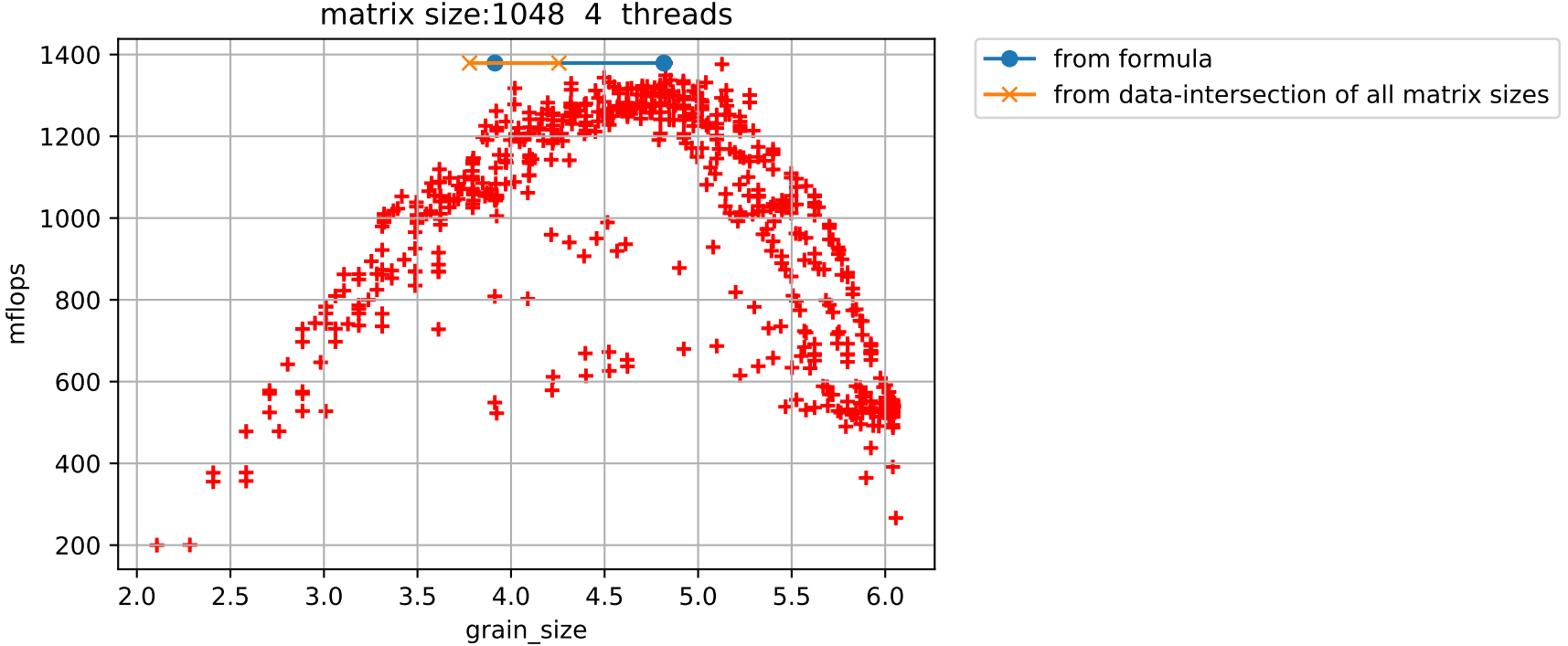

model created based on data from dmatdmatadd on marvin tested on dmatdmatadd on marvin
matrix size:793 4 threads maximum performance:3044.18 prediction:2735.34
mflops
0
500
1000
1500
2000
2500
3000
12-1024
16-1024
2-1024
2-128
2-256
2-512
2-64
20-1024
3-1024
3-128
3-256
3-512
3-64
32-1024
4-1024
4-256
4-512
4-64
64-64
8-1024
8-512
reference
20
4-512

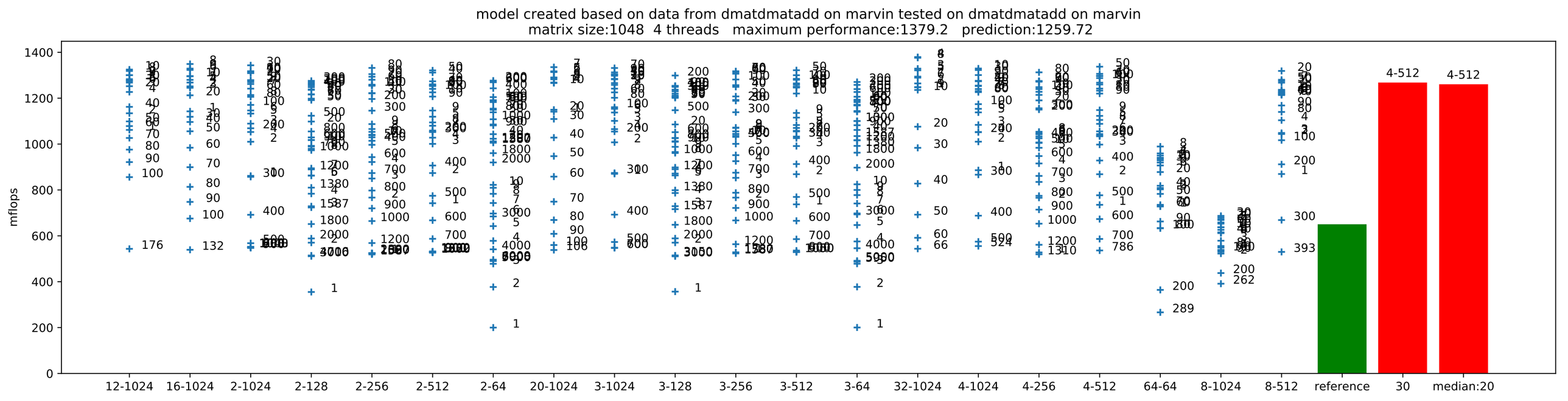

matrix size:793 performance for the predicted range of chunk size:[5,27]
mflops
0
500
1000
1500
2000
2500
20
10
9
8
7
6
5
chunk size

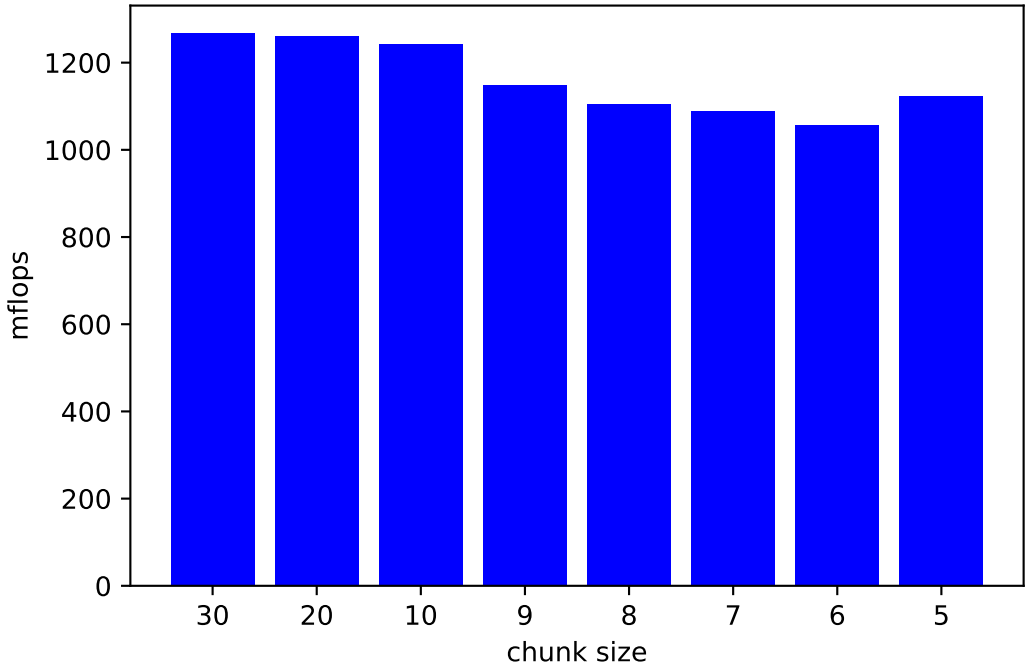

matrix size:912 4 threads
from formula
from data-intersection of all matrix sizes
mflops
grain_size
2000
1500
1000
500
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0

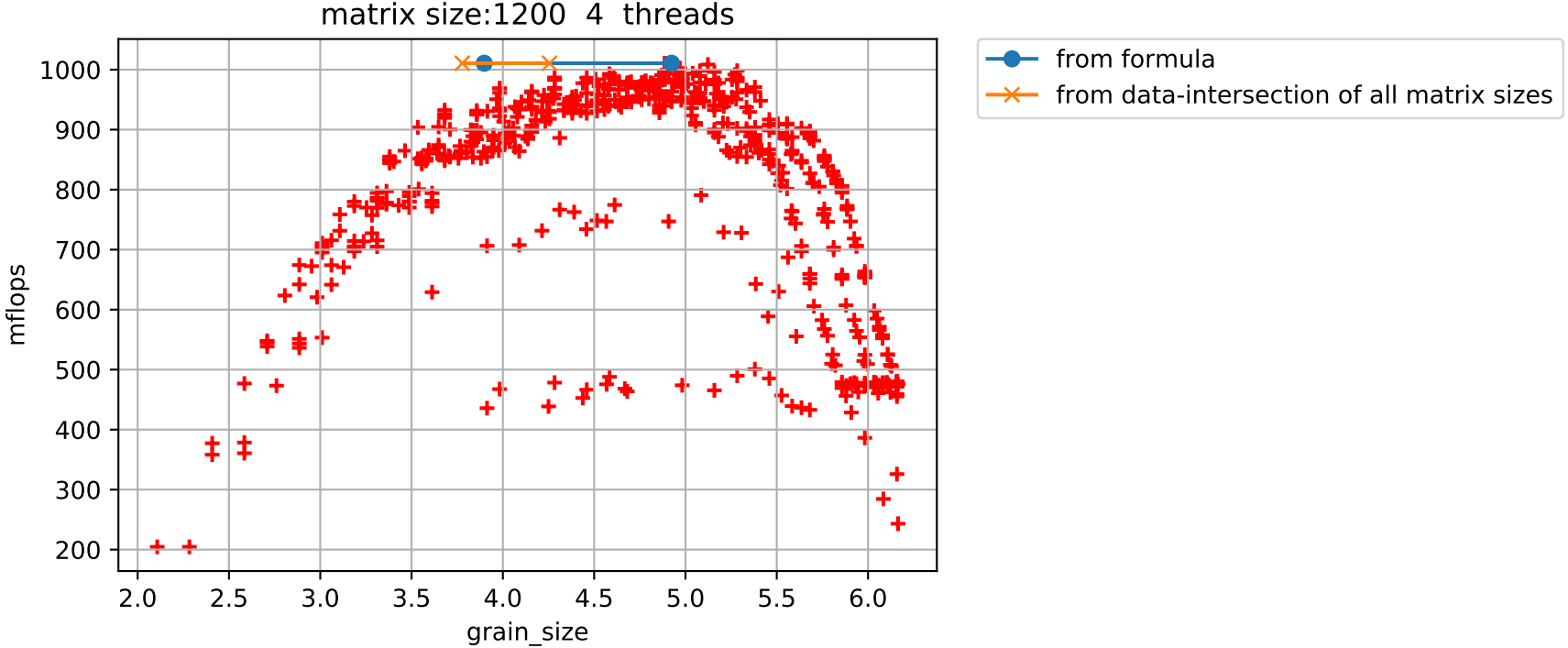

model created based on data from dmatdmatadd on marvin tested on dmatdmatadd on marvin
matrix size:912 4 threads maximum performance:2336.46 prediction:2171.63
mflops
0
500
1000
1500
2000
12-1024
16-1024
2-1024
2-128
2-256
2-512
2-64
20-1024
3-1024
3-128
3-256
3-512
3-64
32-1024
4-1024
4-256
4-512
64-64
8-1024
8-512
reference
30
median:20
4-512
4-512

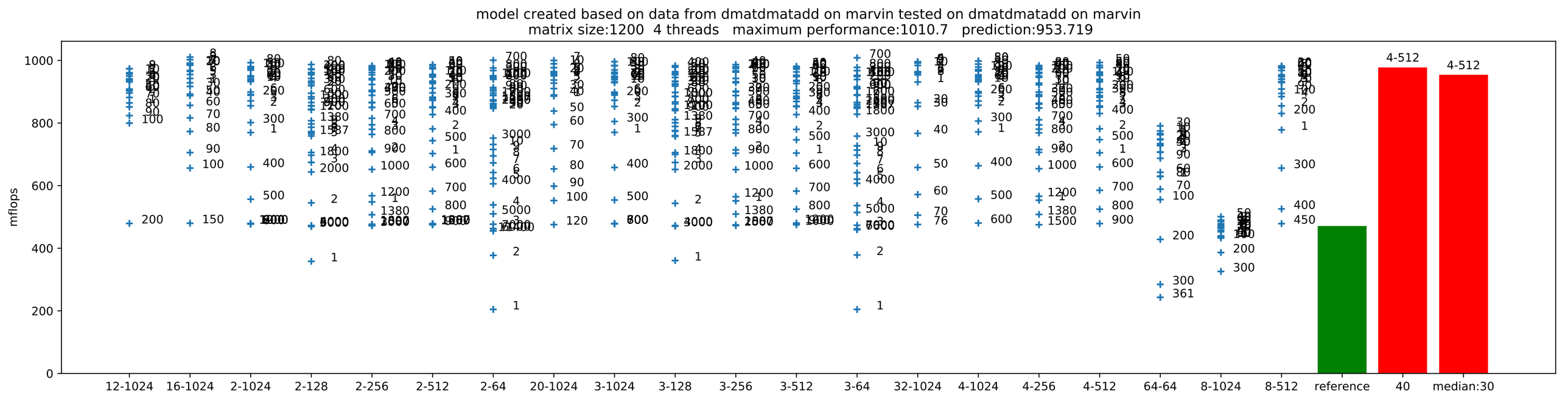

matrix size:912 performance for the predicted range of chunk size:[5,30]
mflops
0
500
1000
1500
2000
30
20
10
9
8
7
6
5
chunk size

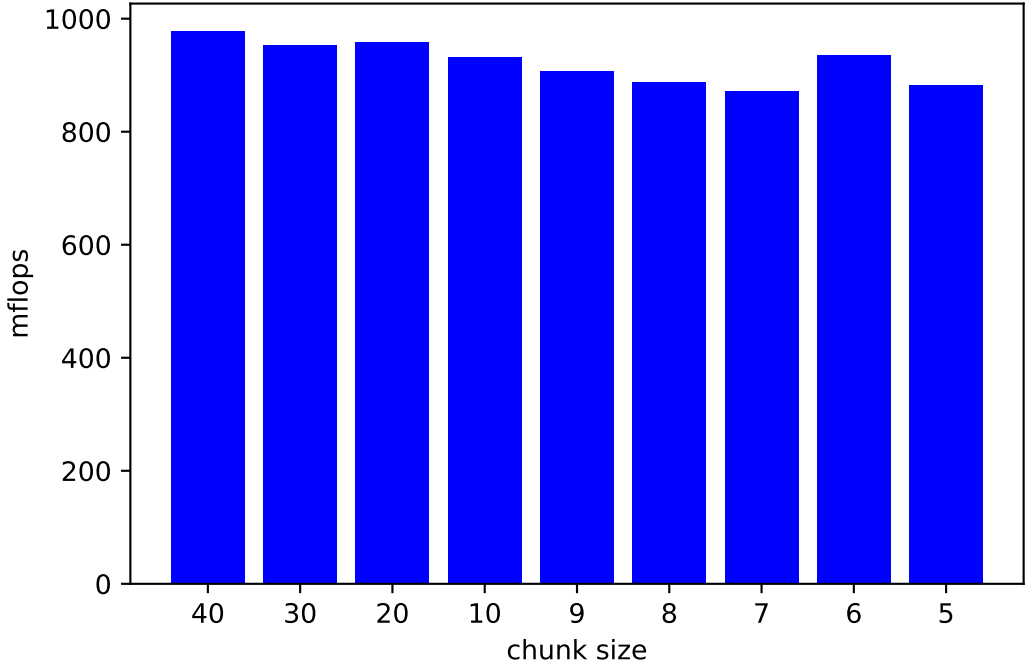

matrix size:1048 4 threads
mflops
grain_size
1400
1200
1000
800
600
400
200
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
from formula
from data-intersection of all matrix sizes

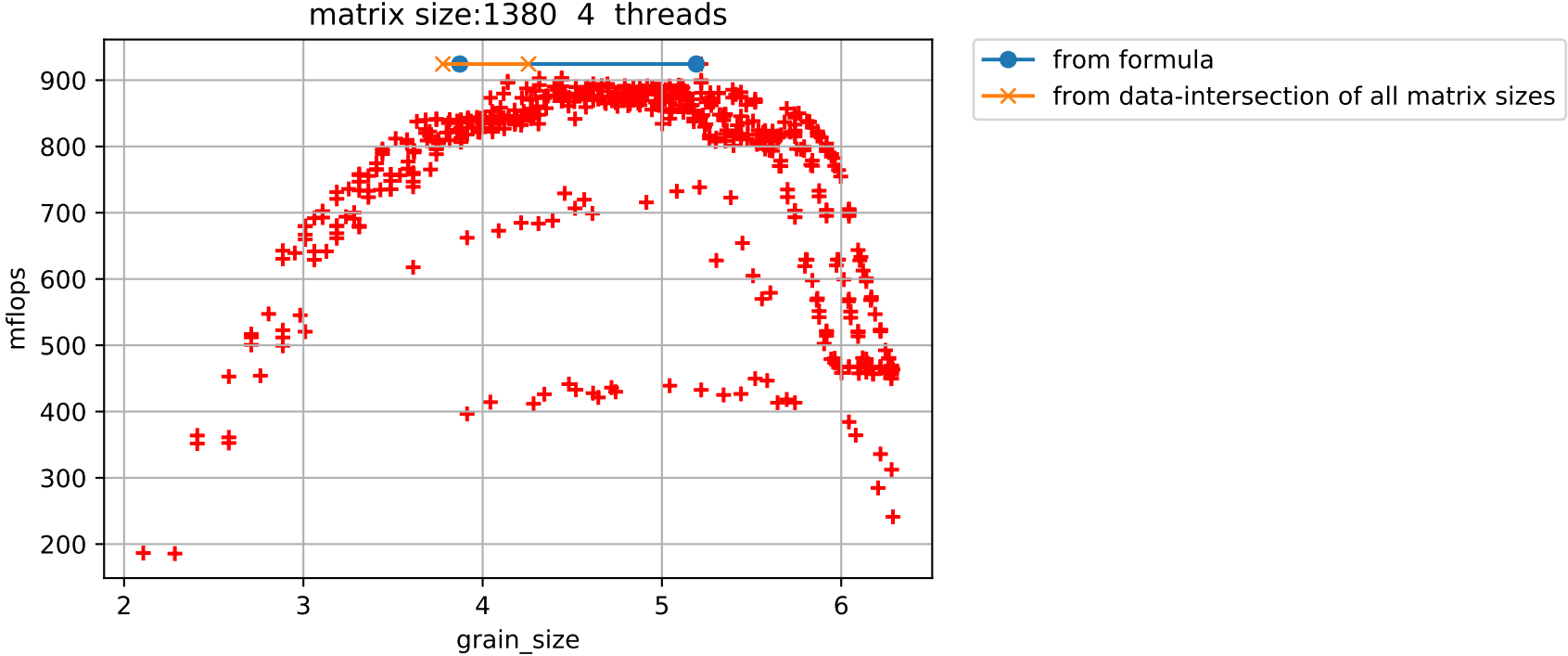

model created based on data from dmatdmatadd on marvin tested on dmatdmatadd on marvin
matrix size:1048 4 threads maximum performance:1379.2 prediction:1259.72
mflops
0
200
400
600
800
1000
1200
1400
12-1024
16-1024
2-1024
2-128
2-256
2-512
2-64
20-1024
3-1024
3-128
3-256
3-512
3-64
32-1024
4-1024
4-256
4-512
64-64
8-1024
8-512
reference
30
median:20
4-512
4-512

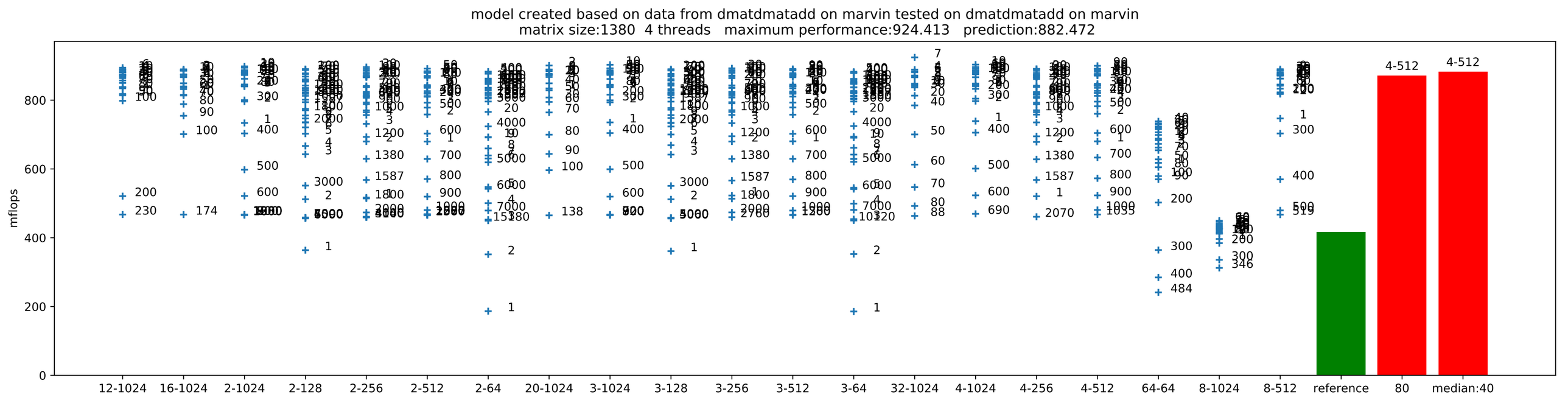

matrix size:1048 performance for the predicted range of chunk size:[5,36]
mflops
0
200
400
600
800
1000
1200
30
20
10
9
8
7
6
5
chunk size

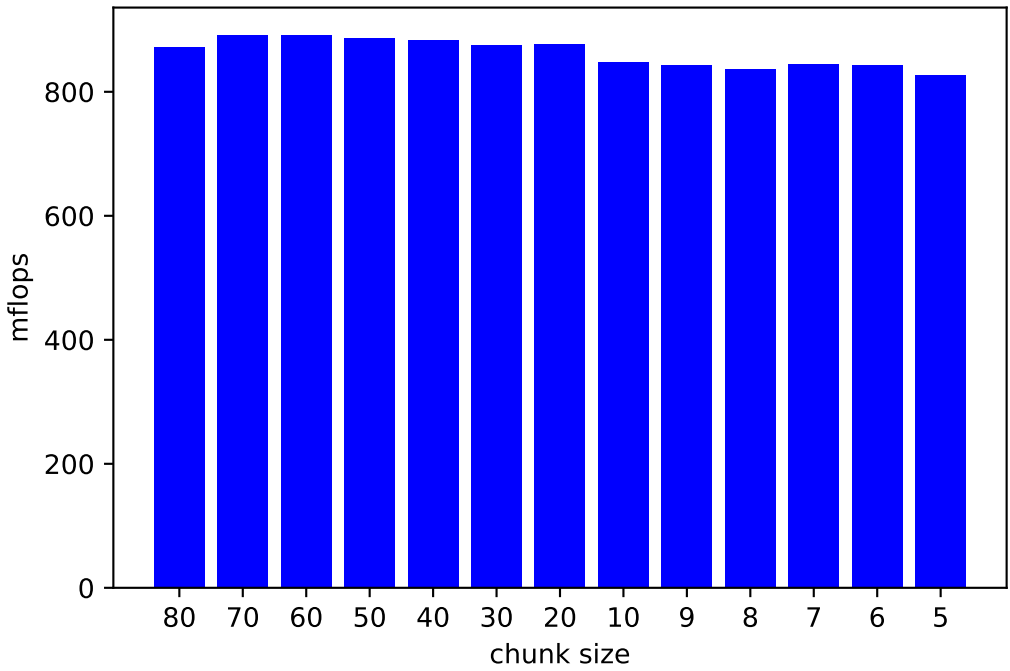

matrix size:1200 4 threads
mflops
grain_size
1000
900
800
700
600
500
400
300
200
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
from formula
from data-intersection of all matrix sizes

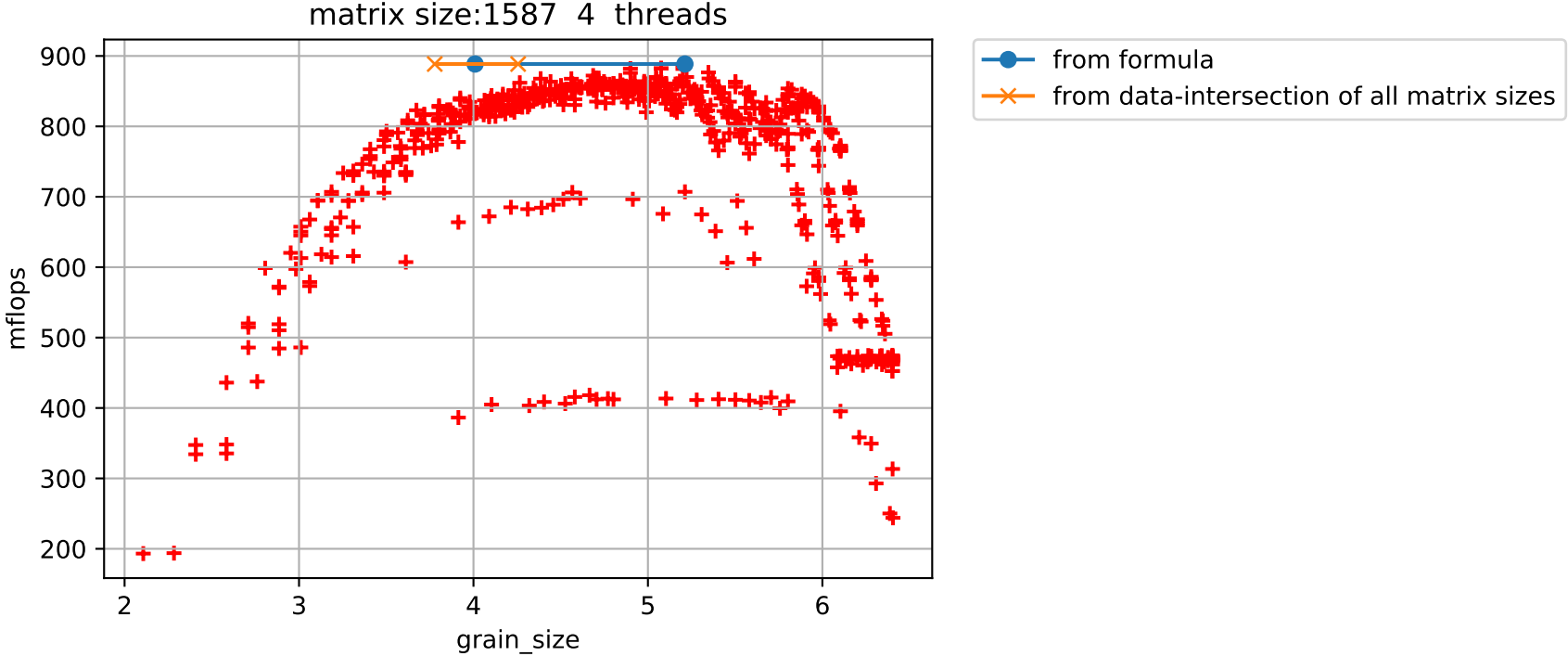

model created based on data from dmatdmatadd on marvin tested on dmatdmatadd on marvin
matrix size:1200 4 threads maximum performance:1010.7 prediction:953.719
mflops
0
200
400
600
800
1000
12-1024
16-1024
2-1024
2-128
2-256
2-512
2-64
20-1024
3-1024
3-128
3-256
3-512
3-64
32-1024
4-1024
4-256
4-512
64-64
8-1024
8-512
reference
40
median:30
4-512
4-512

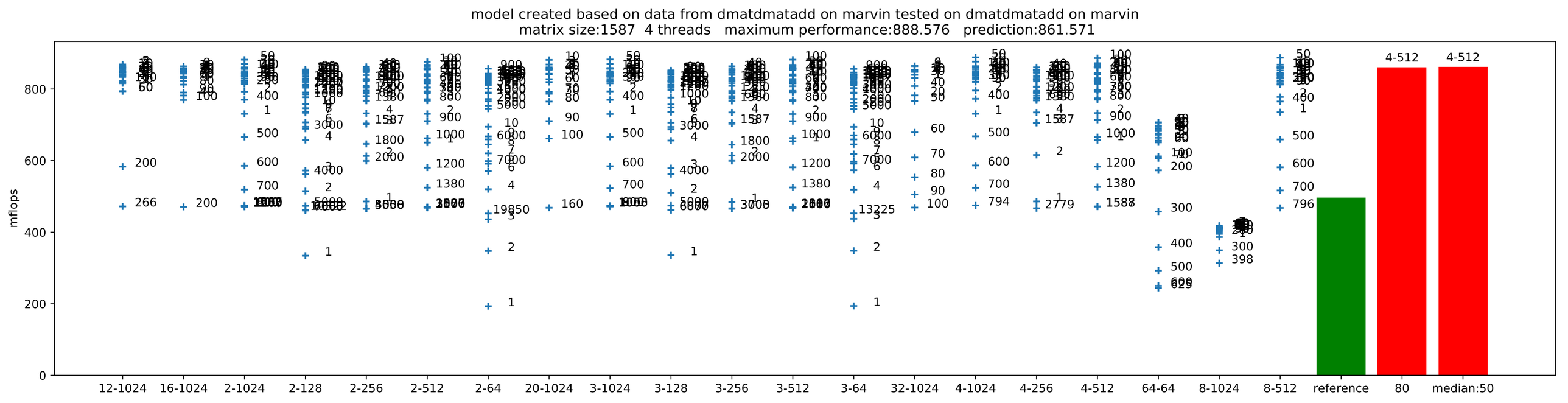

matrix size:1200 performance for the predicted range of chunk size:[5,46]
mflops
1000
800
600
400
200
0
40
30
20
10
9
8
7
6
5
chunk size

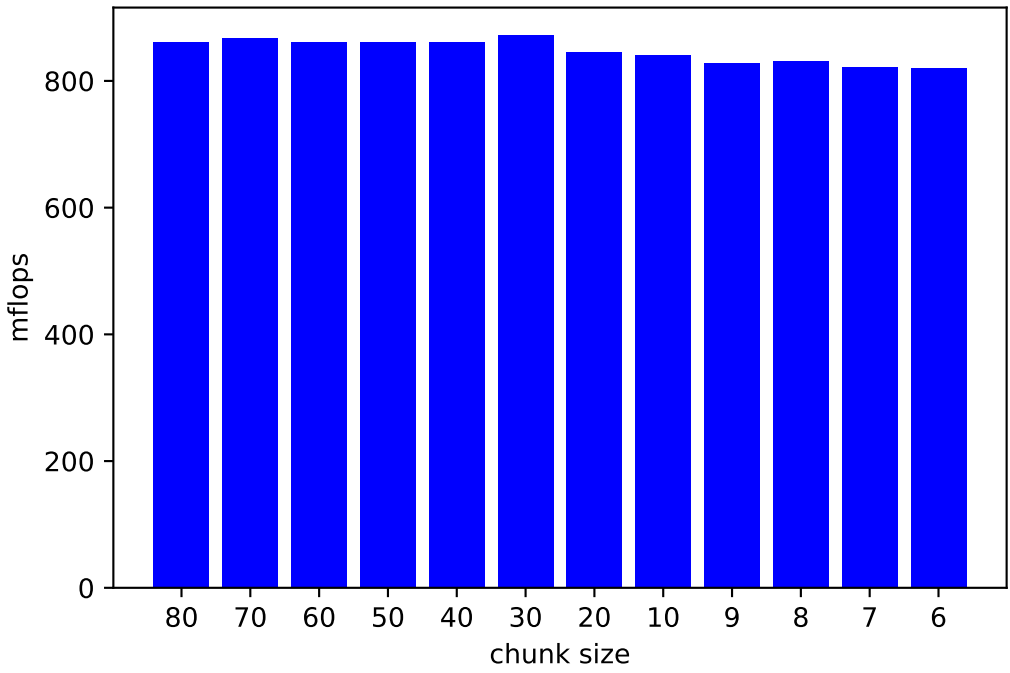

matrix size:1380 4 threads
mflops
grain_size
900
800
700
600
500
400
300
200
2
3
4
5
6
from formula
from data-intersection of all matrix sizes


model created based on data from dmatdmatadd on marvin tested on dmatdmatadd on marvin
matrix size:1380 4 threads maximum performance:924.413 prediction:882.472
mflops
0
200
400
600
800
12-1024
16-1024
2-1024
2-128
2-256
2-512
2-64
20-1024
3-1024
3-128
3-256
3-512
3-64
32-1024
4-1024
4-256
4-512
64-64
8-1024
8-512
reference
80
median:40
4-512
4-512


matrix size:1380 performance for the predicted range of chunk size:[5,85]
mflops
0
200
400
600
800
80
70
60
50
40
30
20
10
9
8
7
6
5
chunk size


matrix size:1587 4 threads
mflops
grain_size
900
800
700
600
500
400
300
200
2
3
4
5
6
from formula
from data-intersection of all matrix sizes


model created based on data from dmatdmatadd on marvin tested on dmatdmatadd on marvin
matrix size:1587 4 threads maximum performance:888.576 prediction:861.571
mflops
0
200
400
600
800
12-1024
16-1024
2-1024
2-128
2-256
2-512
2-64
20-1024
3-1024
3-128
3-256
3-512
3-64
32-1024
4-1024
4-256
4-512
64-64
8-1024
8-512
reference
80
median:50
4-512
4-512


matrix size:1587 performance for the predicted range of chunk size:[6,89]
mflops
0
200
400
600
800
80
70
60
50
40
30
20
10
9
8
7
6
chunk size