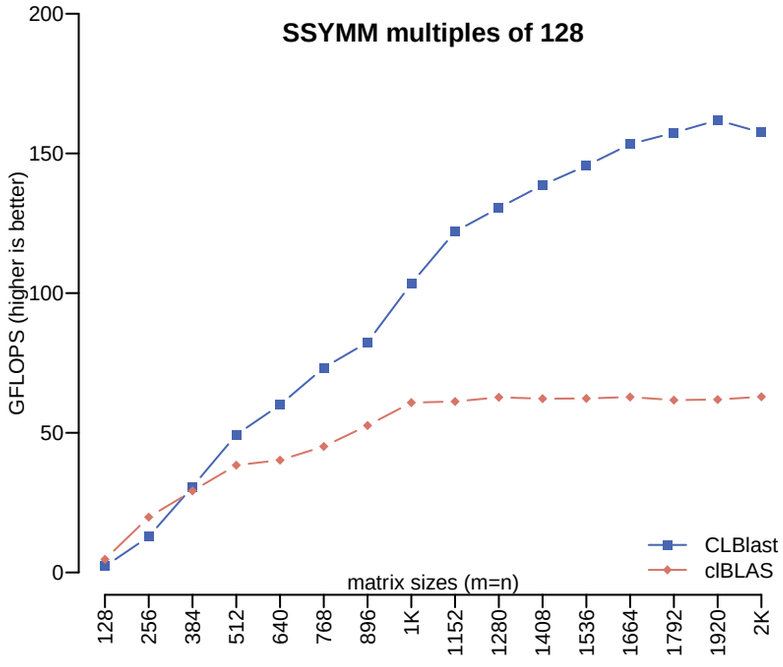
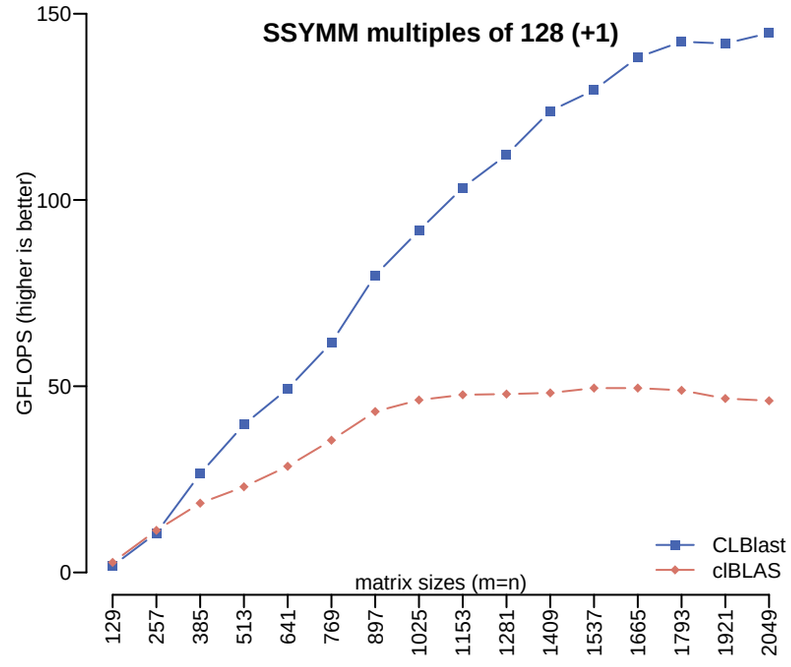
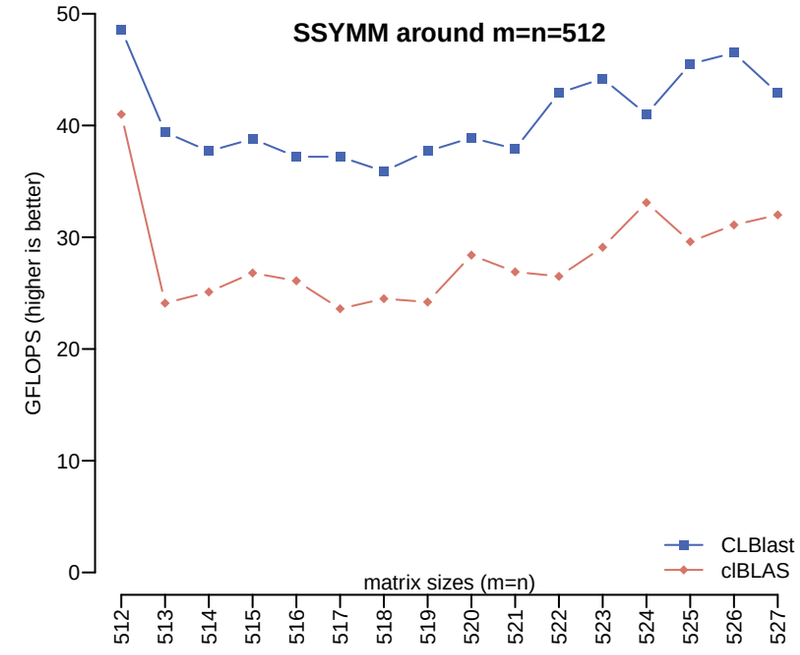
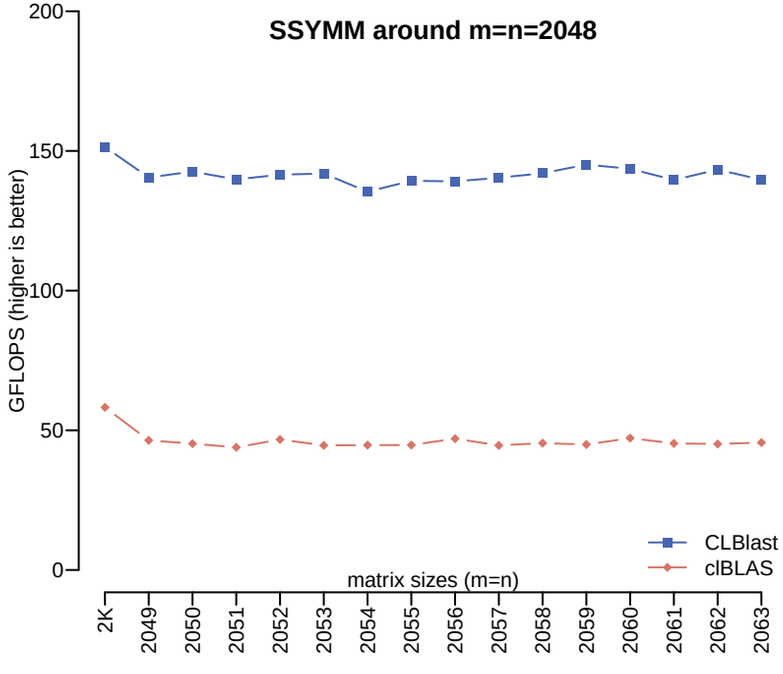
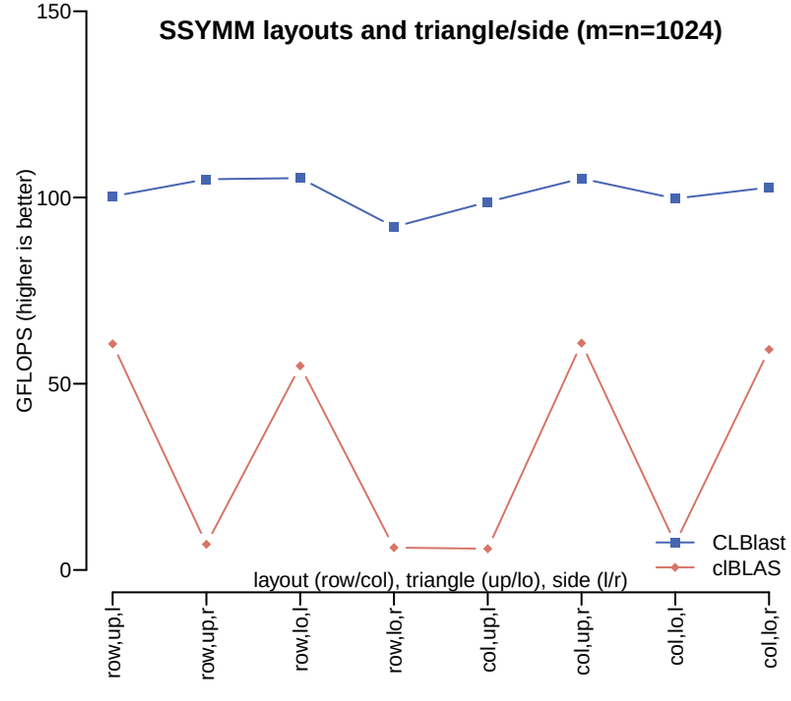
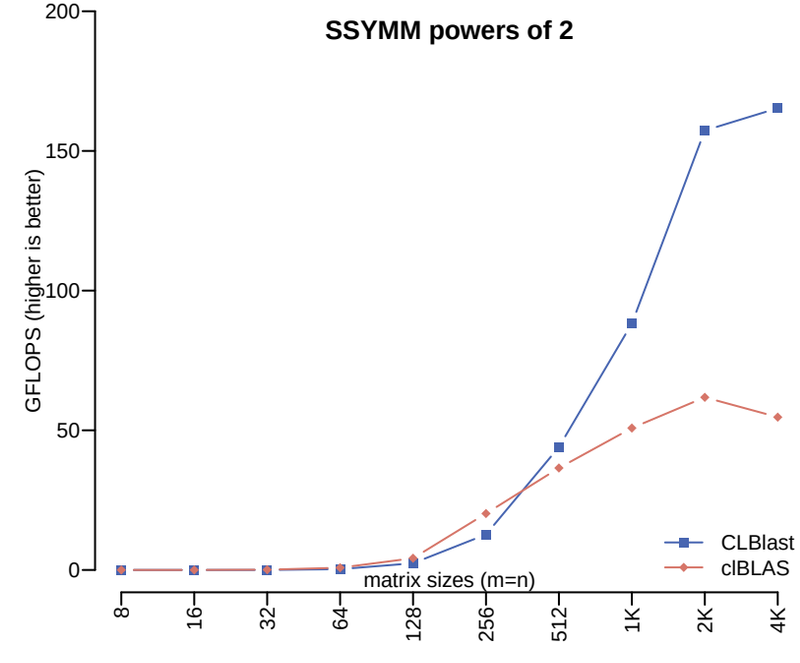

SSYMM multiples of 128
GFLOPS (higher is better)
0
50
100
150
200
matrix sizes (m=n)
128
256
384
512
640
768
896
1K
1152
1280
1408
1536
1664
1792
1920
2K
CLBlast
clBLAS


SSYMM multiples of 128 (+1)
GFLOPS (higher is better)
0
50
100
150
matrix sizes (m=n)
129
257
385
513
641
769
897
1025
1153
1281
1409
1537
1665
1793
1921
2049
CLBlast
clBLAS


SSYMM around m=n=512
GFLOPS (higher is better)
0
10
20
30
40
50
matrix sizes (m=n)
512
513
514
515
516
517
518
519
520
521
522
523
524
525
526
527
CLBlast
clBLAS


SSYMM around m=n=2048
GFLOPS (higher is better)
0
50
100
150
200
matrix sizes (m=n)
2K
2049
2050
2051
2052
2053
2054
2055
2056
2057
2058
2059
2060
2061
2062
2063
CLBlast
clBLAS


SSYMM layouts and triangle/side (m=n=1024)
GFLOPS (higher is better)
0
50
100
150
layout (row/col), triangle (up/lo), side (l/r)
row,up,l
row,up,r
row,lo,l
row,lo,r
col,up,l
col,up,r
col,lo,l
col,lo,r
CLBlast
clBLAS


SSYMM powers of 2
GFLOPS (higher is better)
0
50
100
150
200
matrix sizes (m=n)
8
16
32
64
128
256
512
1K
2K
4K
CLBlast
clBLAS