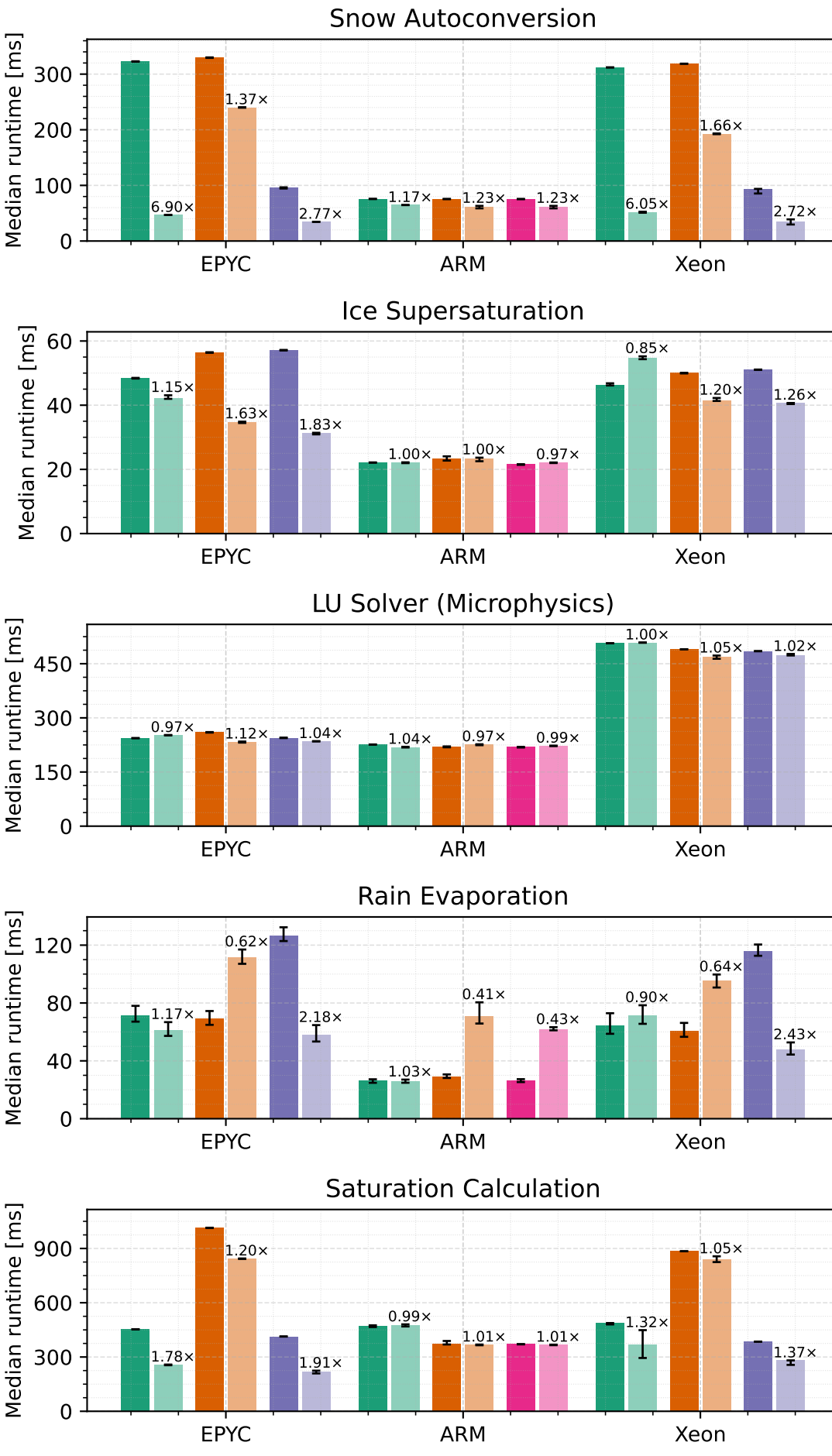
Snow Autoconversion
Median runtime [ms]
0
100
200
300
6.90×
1.37×
2.77×
1.17×
1.23×
1.23×
6.05×
1.66×
2.72×
EPYC
ARM
Xeon
Ice Supersaturation
Median runtime [ms]
0
20
40
60
1.15×
1.63×
1.83×
1.00×
1.00×
0.97×
0.85×
1.20×
1.26×
EPYC
ARM
Xeon
LU Solver (Microphysics)
Median runtime [ms]
0
150
300
450
0.97×
1.12×
1.04×
1.04×
0.97×
0.99×
1.00×
1.05×
1.02×
EPYC
ARM
Xeon
Rain Evaporation
Median runtime [ms]
0
40
80
120
1.17×
0.62×
2.18×
1.03×
0.41×
0.43×
0.90×
0.64×
2.43×
EPYC
ARM
Xeon
Saturation Calculation
Median runtime [ms]
0
300
600
900
1.78×
1.20×
1.91×
0.99×
1.01×
1.01×
1.32×
1.05×
1.37×
EPYC
ARM
Xeon
GCC
GCC + Vector Hints
LLVM
LLVM + Vector Hints
Intel oneAPI
Intel oneAPI + Vector Hints
NVIDIA Clang Dist.
NVIDIA Clang Dist. + Vector Hints