

Lab 2

CS 259

Spring 2024

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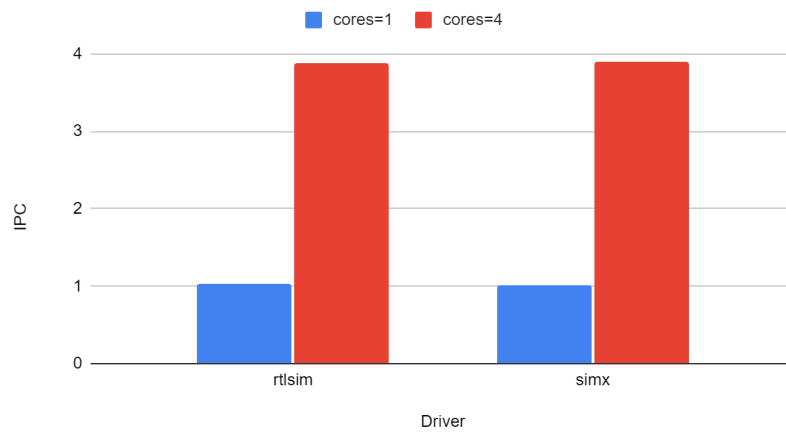
Results

Old results with sgemm:

IPC for 4x4 (warps x threads), N=128

	cores=1	cores=4
rtlsim	1.022991	3.878257
simx	1.003469	3.890817

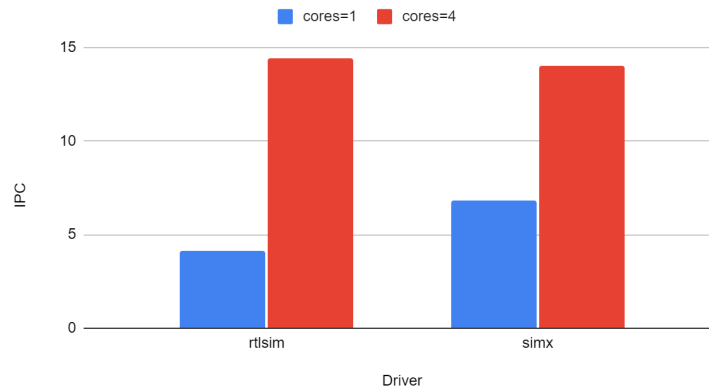
IPC for 4x4 (warps x threads)



IPC for 16x16 (warps x threads), N=128

	cores=1	cores=4
rtlsim	4.142842	14.438237
simx	6.796368	14.027542

IPC for 16x16 (warps x threads)

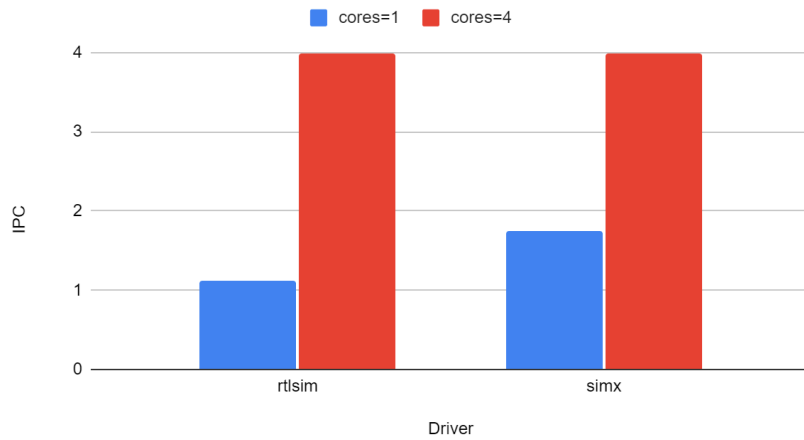


New Results with sgemm8:

IPC for 4x4 (warps x threads), N=128

	cores=1	cores=4
rtlsim	1.124912	3.980630
simx	1.751894	3.981363

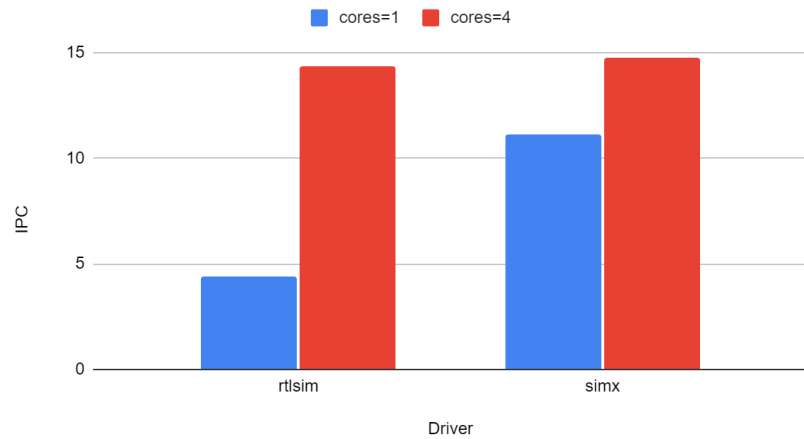
IPC for 4x4 (warps x threads)



IPC for 16x16 (warps x threads), N=128

	cores=1	cores=4
rtlsim	4.414512	14.334138
simx	11.117489	14.745393

IPC for 16x16 (warps x threads)



Bonus

sgemm8 is based on sgemm8 and sgemm8_nosm is based on sgemm2x where it uses local memory

IPC for 16x16 (warps x threads) with n=64 and cores=1

	sgemm8	sgemm8_sm
rtlsim	1.128343	1.000000

IPC for 16x16 (warps x threads) with n=64 and cores=1

