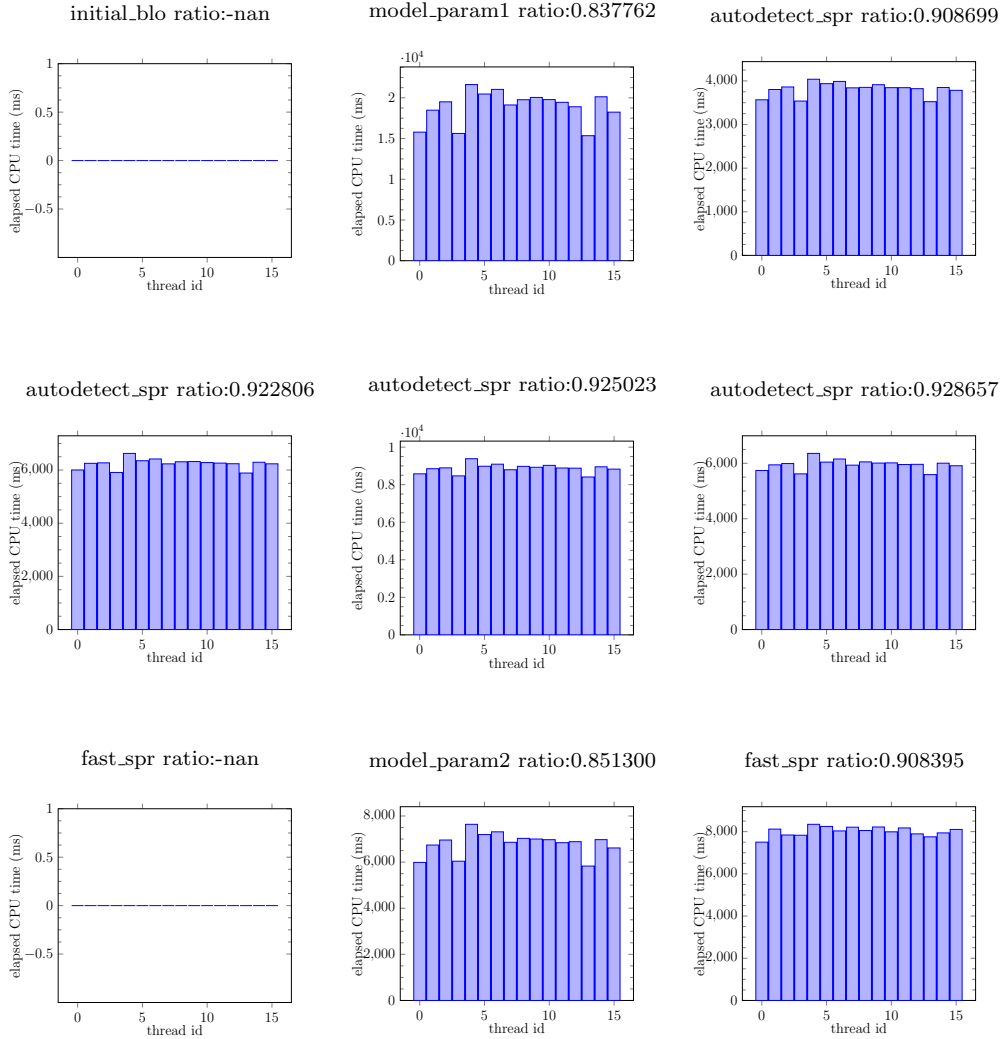# 1 Description

- Each graph corresponds to one step of the pipeline (one model para-mater opt, one spr round etc.).

- Each graph represents the cpu time (y axis) spent in each thread (x axis) for its step.

- The ratio value after the name of the step is the average time spent in real computations (not waiting for the other cores) over all the threads.
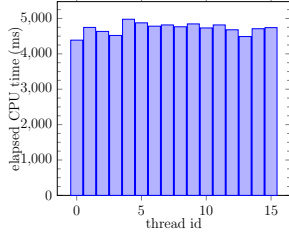
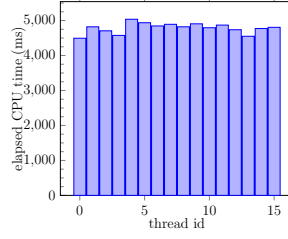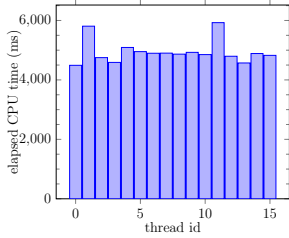# 2 DNA 128, 16 threads, repeats
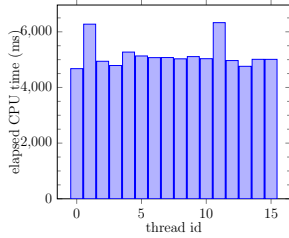
fast_spr ratio:0.908894
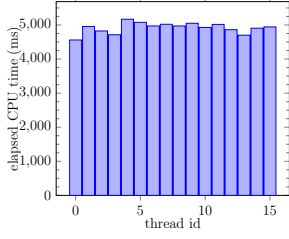
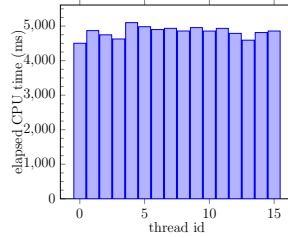fast_spr ratio:0.909554

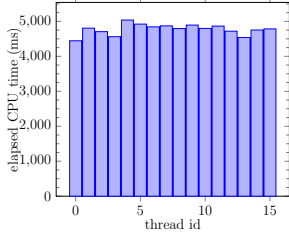fast_spr ratio:0.910226

fast_spr ratio:0.794141
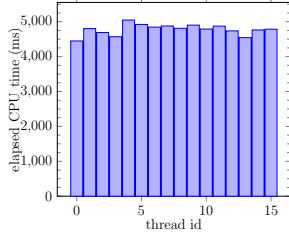
fast_spr ratio:0.790493
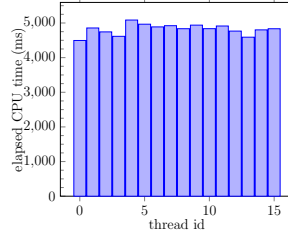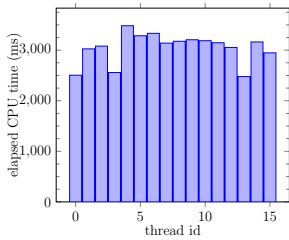
fast_spr ratio:0.910093
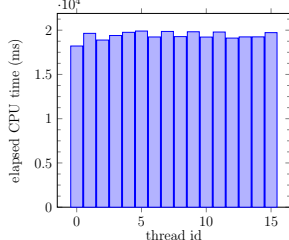
fast_spr ratio:0.909991
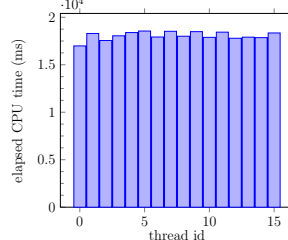
fast_spr ratio:0.910415
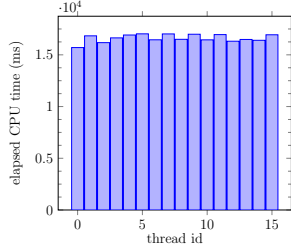
fast_spr ratio:0.909970
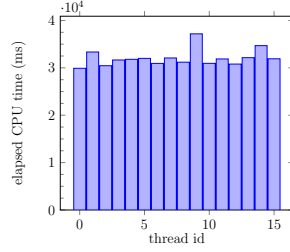
model_param3 ratio:0.820141

slow_spr ratio:0.916506
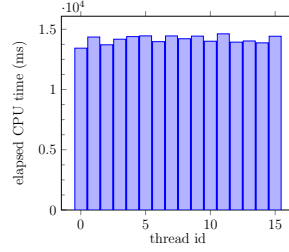
slow_spr ratio:0.919594
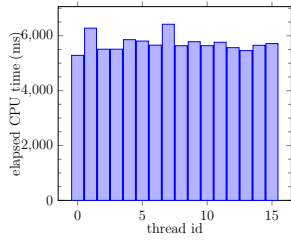
2

slow_spr ratio:0.918031
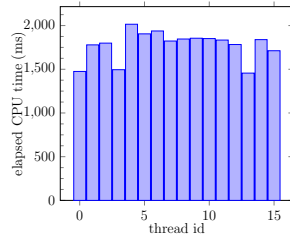

slow_spr ratio:0.824959
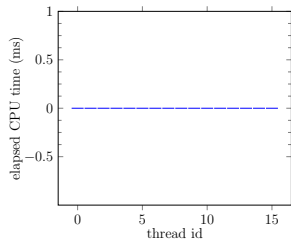

slow_spr ratio:0.908395

slow_spr ratio:0.849061

model_param4 ratio:0.831657

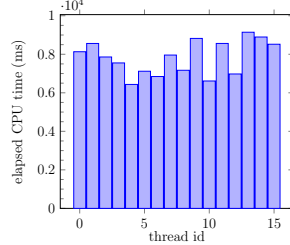# 3 DNA 404, 16 threads, repeats
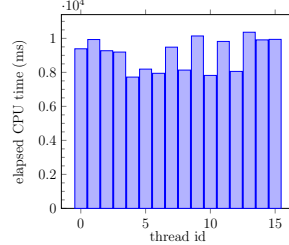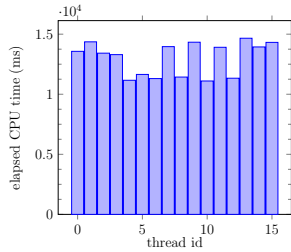

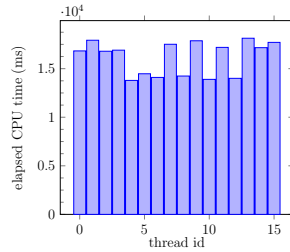initial_blo ratio:-nan

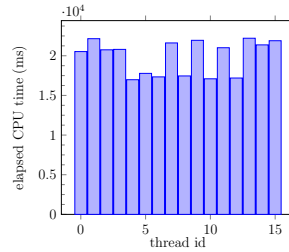model_param1 ratio:0.801008

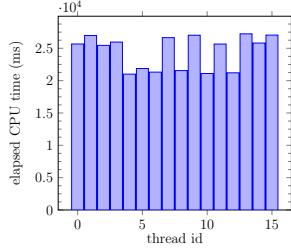autodetect_spr ratio:0.848900

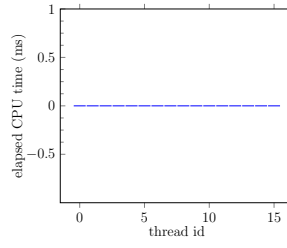autodetect_spr ratio:0.852458

autodetect_spr ratio:0.861585
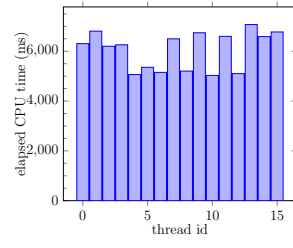

autodetect_spr ratio:0.851453
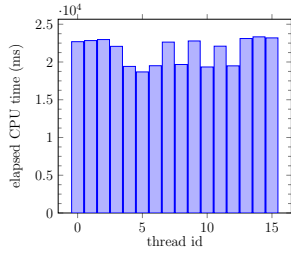
autodetect_spr ratio:0.860540
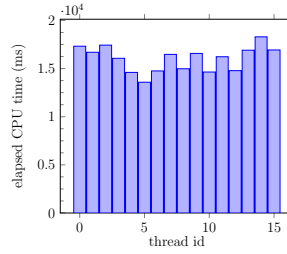
fast_spr ratio:-nan
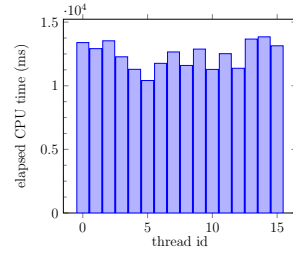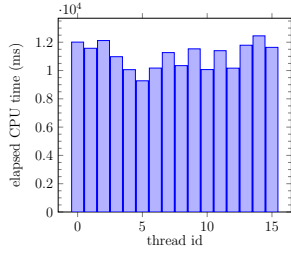
model_param2 ratio:0.804312

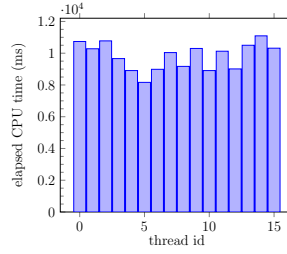fast_spr ratio:0.854755

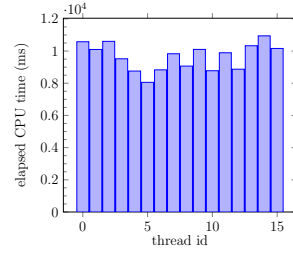fast_spr ratio:0.832093

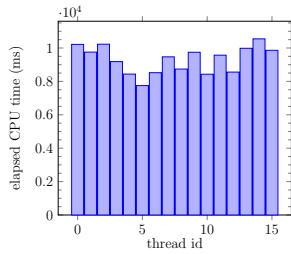fast_spr ratio:0.827602
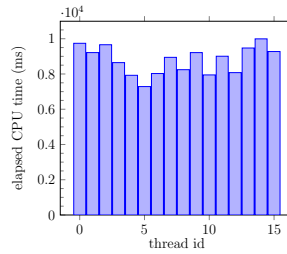
fast_spr ratio:0.840271
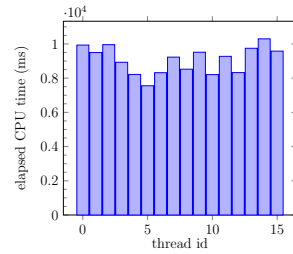
fast_spr ratio:0.837859

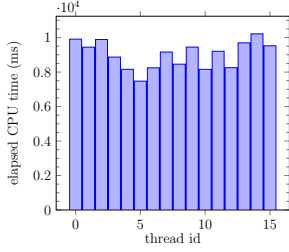fast_spr ratio:0.837376

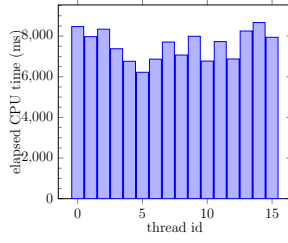fast_spr ratio:0.834922

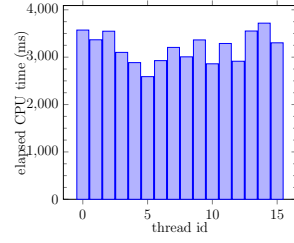fast_spr ratio:0.835537

fast_spr ratio:0.836619
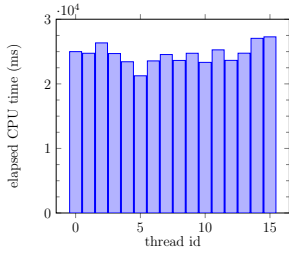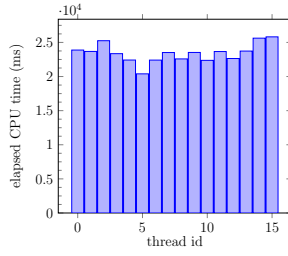
fast_spr ratio:0.834340
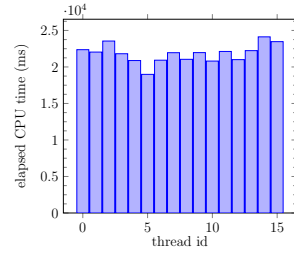
fast_spr ratio:0.834595

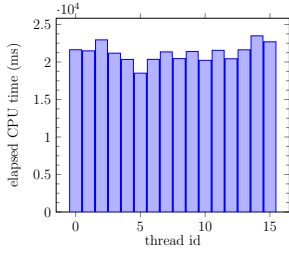model_param3 ratio:0.808008

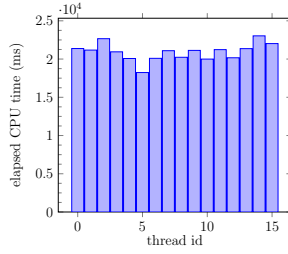slow_spr ratio:0.805871

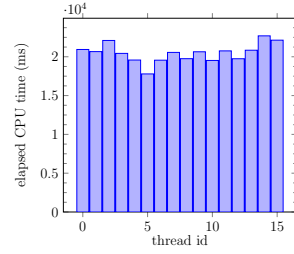slow_spr ratio:0.826128

slow_spr ratio:0.831904
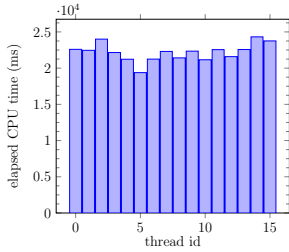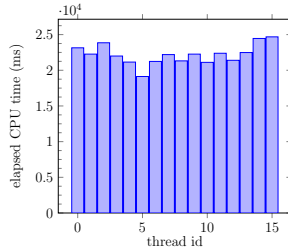
slow_spr ratio:0.834057
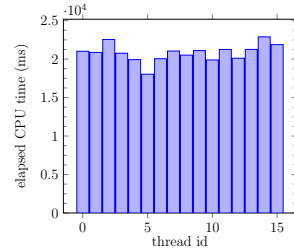
slow_spr ratio:0.843799

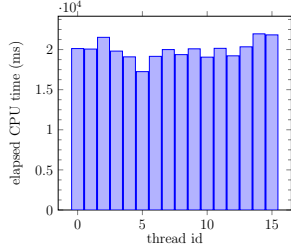slow_spr ratio:0.826699

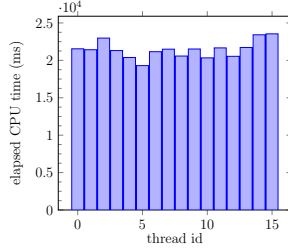slow_spr ratio:0.833412

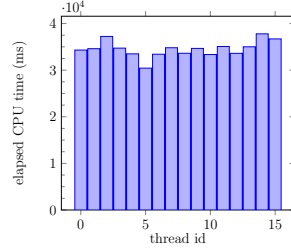slow_spr ratio:0.807123

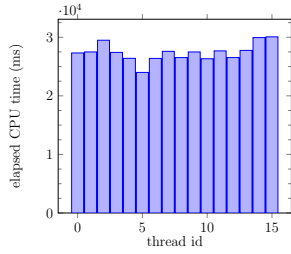slow_spr ratio:0.837714

slow_spr ratio:0.826138
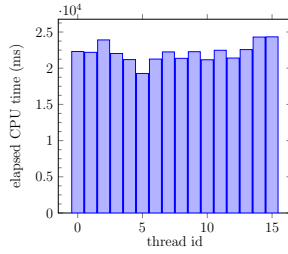
slow_spr ratio:0.807639
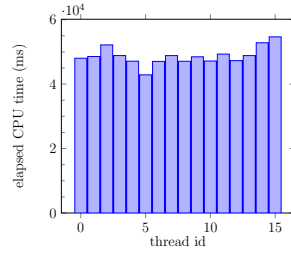
slow_spr ratio:0.840827
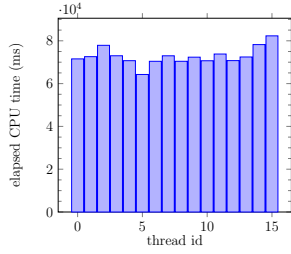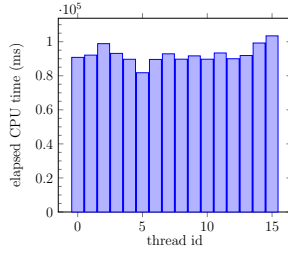
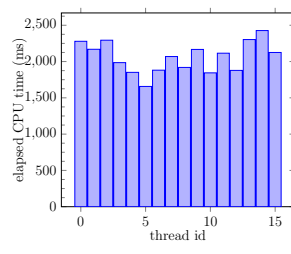slow_spr ratio:0.828693

slow_spr ratio:0.825082

slow_spr ratio:0.817969
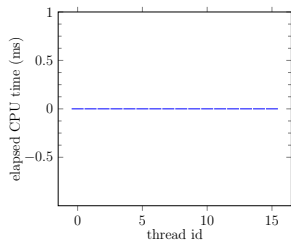
slow_spr ratio:0.817782
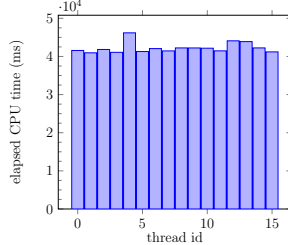
slow_spr ratio:0.823755

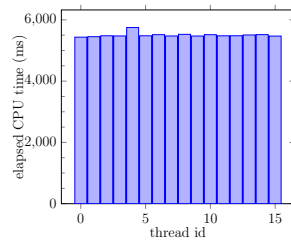model_param4 ratio:0.798765

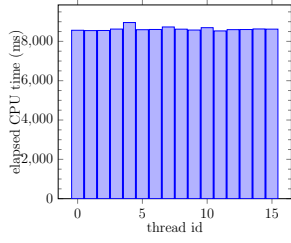# 4 DNA 128, 16 threads, no repeats
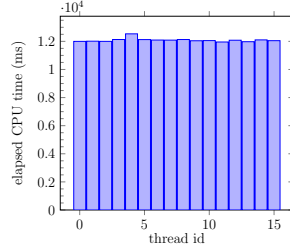
initial_blo ratio:-nan
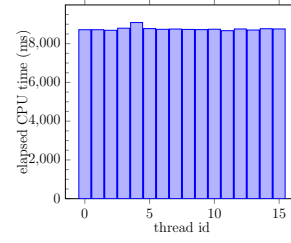
model_param1 ratio:0.893761

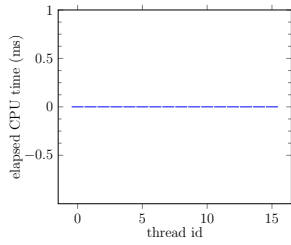autodetect_spr ratio:0.949995

autodetect_spr ratio:0.943302

elapsed CPU time (ms)

thread id

autodetect_spr ratio:0.955607

·10⁴

elapsed CPU time (ms)

thread id

autodetect_spr ratio:0.954514

elapsed CPU time (ms)

thread id

fast_spr ratio:-nan

elapsed CPU time (ms)

thread id

model_param2 ratio:0.844530

·10⁴

elapsed CPU time (ms)

thread id

fast_spr ratio:0.929467

·10⁴

elapsed CPU time (ms)

thread id

fast_spr ratio:0.923848

elapsed CPU time (ms)

thread id

fast_spr ratio:0.911787

elapsed CPU time (ms)

thread id

fast_spr ratio:0.937538

elapsed CPU time (ms)

thread id

fast_spr ratio:0.936620

elapsed CPU time (ms)

thread id

fast_spr ratio:0.936216

elapsed CPU time (ms)

thread id

fast_spr ratio:0.935989

elapsed CPU time (ms)

thread id
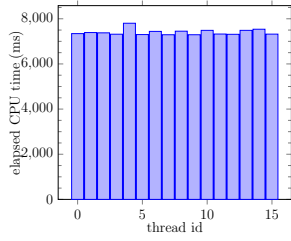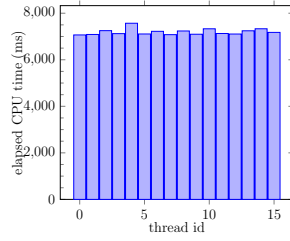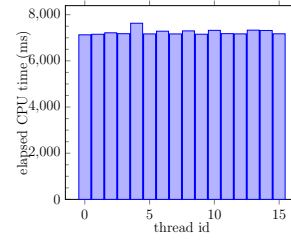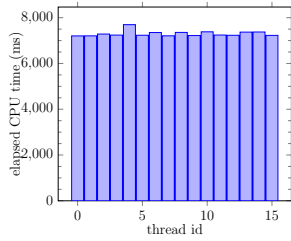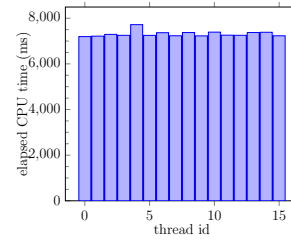
fast_spr ratio:0.934457

fast_spr ratio:0.936545

fast_spr ratio:0.936431

model_param3 ratio:0.938101

slow_spr ratio:0.917810

slow_spr ratio:0.926476

slow_spr ratio:0.926581

slow_spr ratio:0.928077

slow_spr ratio:0.927053

slow_spr ratio:0.934832

model_param4 ratio:0.949715

5 DNA 404, 16 threads, no repeats

initial_blo ratio:-nan

model_param1 ratio:0.894107

autodetect_spr ratio:0.891334

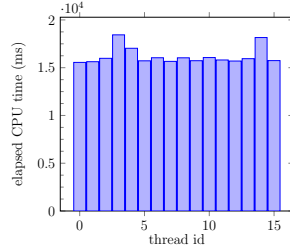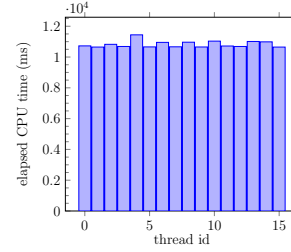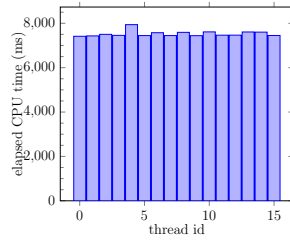autodetect_spr ratio:0.901701

autodetect_spr ratio:0.859545

autodetect_spr ratio:0.896118

autodetect_spr ratio:0.910938

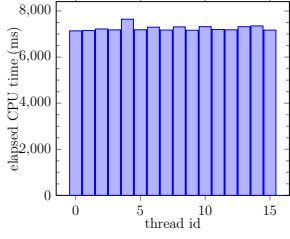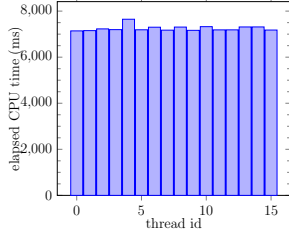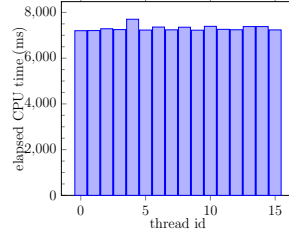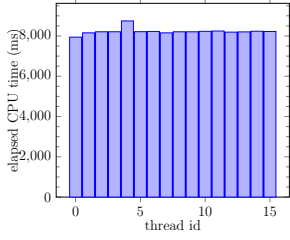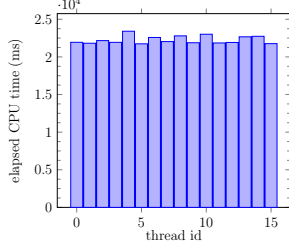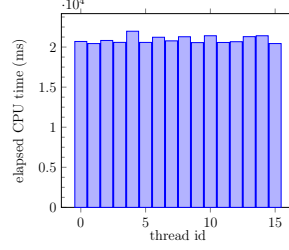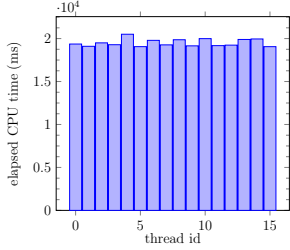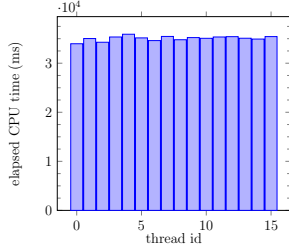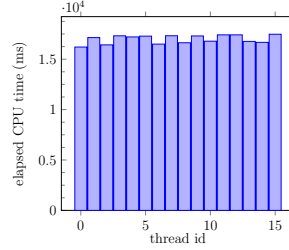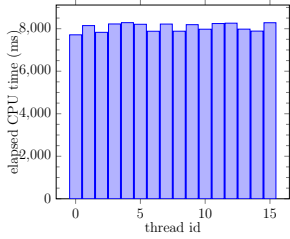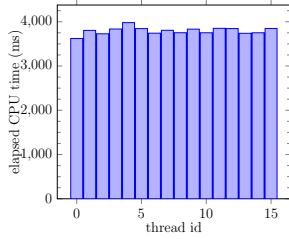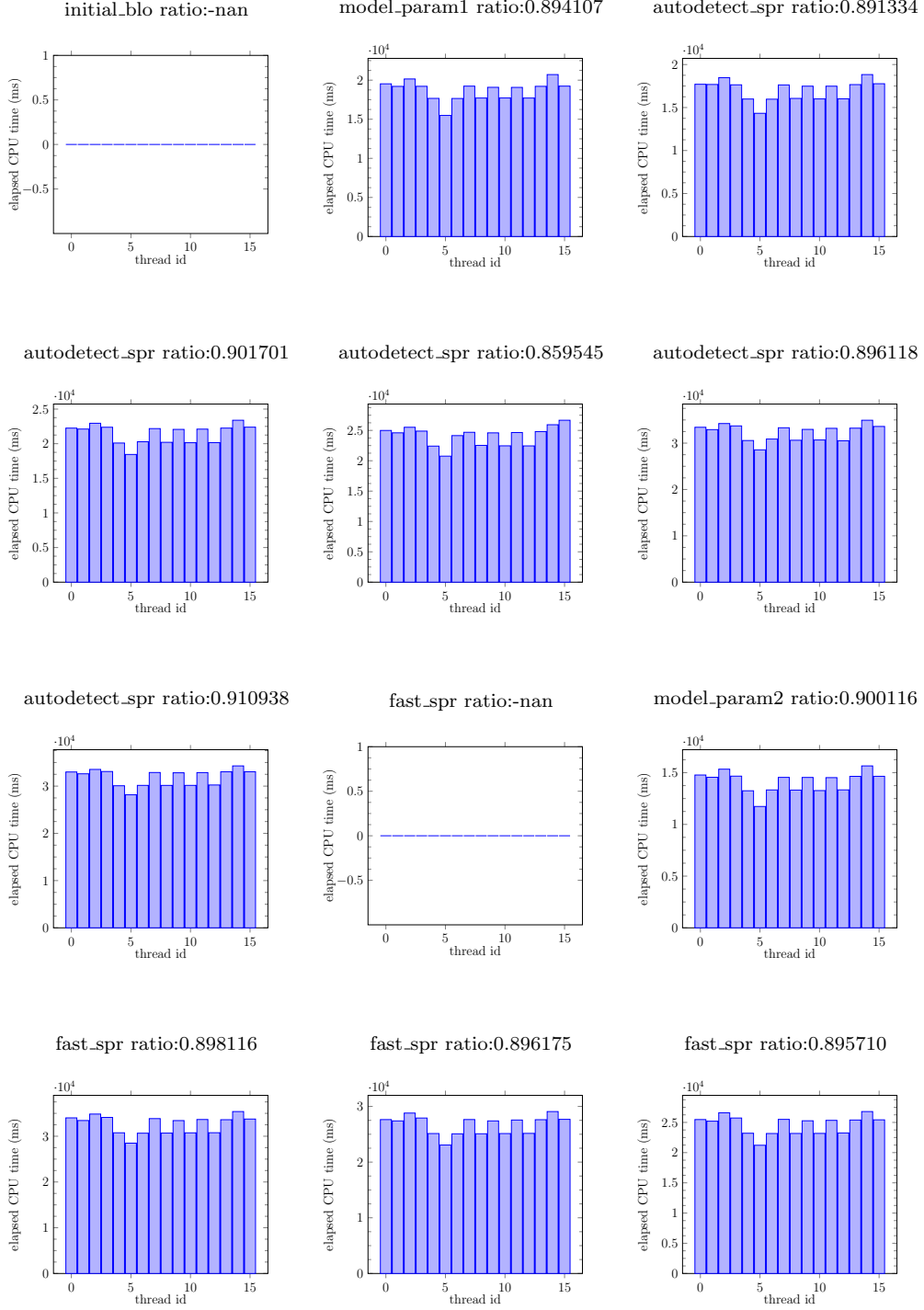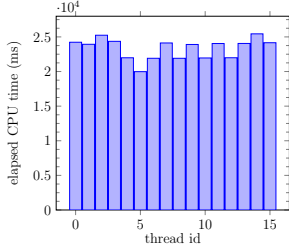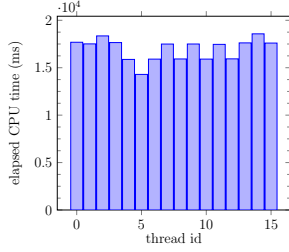fast_spr ratio:-nan

model_param2 ratio:0.900116

fast_spr ratio:0.898116

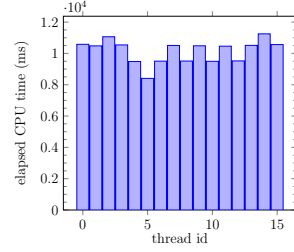fast_spr ratio:0.896175

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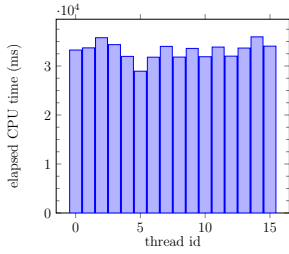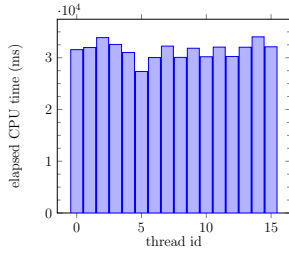
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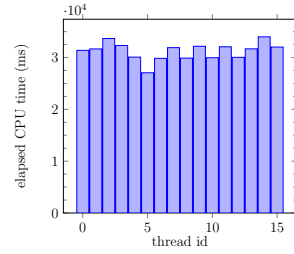
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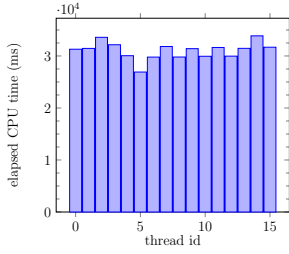model_param3 ratio:0.899500

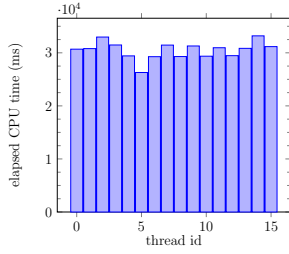slow_spr ratio:0.887191

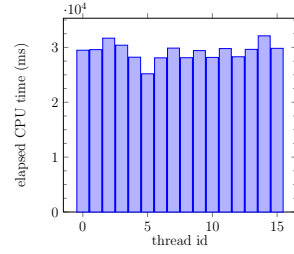slow_spr ratio:0.882084

slow_spr ratio:0.880820
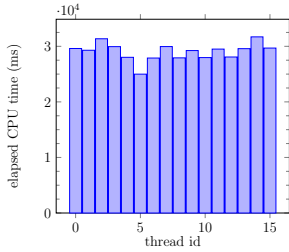
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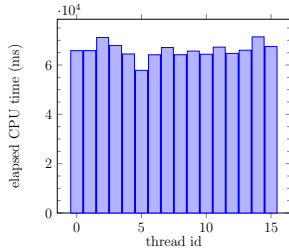
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slow_spr ratio:0.882324

slow_spr ratio:0.883692

slow_spr ratio:0.878533

slow_spr ratio:0.877878

slow_spr ratio:0.863206

model_param4 ratio:0.899433