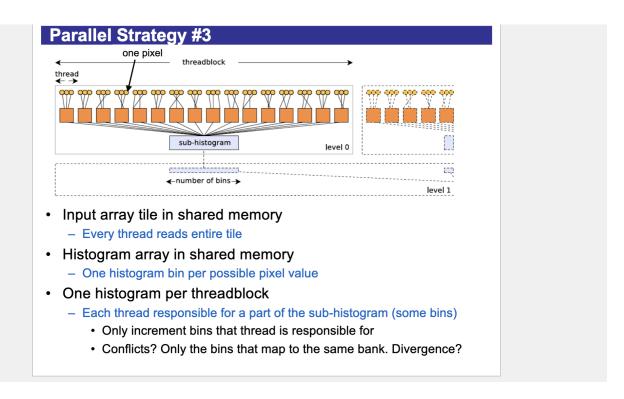
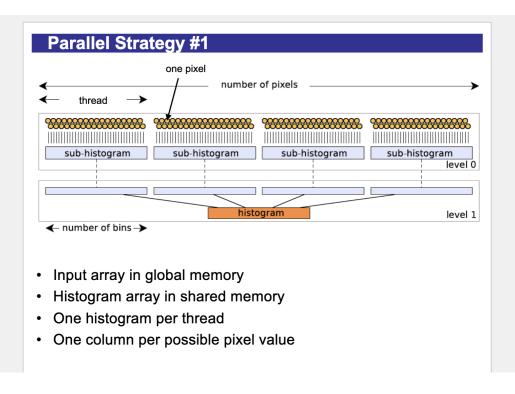


- Histogram array in shared memory
- One histogram per threadblock; all threads in block update it
- · One column per possible pixel value
- · Each block updates global histogram at the end





```
==PROF== Profiling "Baseline": 0%....50%....100% - 9 passes
==PROF== Profiling "Baseline": 0%....50%....100% - 9 passes
 =PROF== Profiling "Baseline": 0%....50%....100% - 9 passes
         GetTimeOfDay Time (for 100 iterations) = 78.286
                               (for 100 iterations) = 77.2818
         Clock Time
    Timing 'opt_2dhisto' ended
    Test PASSED
  PROF Disconnected from process 1518385
 =PROF== Report: /home/asa5078/368/final_lab3/CE468-CUDA-Labs/labs/BASELINE_100_profile.ncu-rep
[asa5078@robin labs]$
 =PROF== Profiling "ParallelStrategyOne": 0%....50%....100% - 9 passes
=PROF== Profiling "ParallelStrategyOne": 0%....50%....100% - 9 passes
=PROF== Profiling "ParallelStrategyOne": 0%....50%....100% - 9 passes
         GetTimeOfDay Time (for 10 iterations) = 633.159
         Clock Time
                               (for 10 iterations) = 632.563
    Timing 'opt_2dhisto' ended
    Test PASSED
  =PROF== Disconnected from process 1521178
 =PROF== Report: /home/asa5078/368/final_lab3/CE468-CUDA-Labs/labs/PS1_10_profile.ncu-rep
asa5078@robin labs]$
 =PROF== Profiling "ParallelStrategyTwo": 0%....50%....100% - 9 passes
=PROF== Profiling "ParallelStrategyTwo": 0%....50%....100% - 9 passes
=PROF== Profiling "ParallelStrategyTwo": 0%....50%....100% - 9 passes
 =PROF== Profiling "ParallelStrategyTwo": 0%....50%....100% - 9 passes
         GetTimeOfDay Time (for 100 iterations) = 85.22
Clock Time (for 100 iterations) = 84.3047
    Timing 'opt_2dhisto' ended
    Test PASSED
 =PROF== Disconnected from process 1523996
 =PROF== Report: /home/asa5078/368/final_lab3/CE468-CUDA-Labs/labs/PS2_100_profile.ncu-rep
[asa5078@robin labs]$
 =PROF== Profiling "ParallelStrategyThree": 0%....50%....100% - 9 passes
=PROF== Profiling "ParallelStrategyThree": 0%....50%....100% - 9 passes
         GetTimeOfDay Time (for 100 iterations) = 77.973
                              (for 100 iterations) = 77.0366
         Clock Time
    Timing 'opt_2dhisto' ended
    Test PASSED
 PROF== Disconnected from process 1527138
 =PROF== Report: /home/asa5078/368/final_lab3/CE468-CUDA-Labs/labs/PS3_100_profile.ncu-rep
asa5078@robin labs]$
```

```
=PROF== Profiling ParallelStrategyFour: 0%....50%....100% - 9 passes
=PROF== Profiling "ParallelStrategyFour": 0%....50%....100% - 9 passes
 =PROF== Profitting "ParallelStrategyFour": 0%....50%....100% - 9 passes

=PROF== Profiling "ParallelStrategyFour": 0%....50%....100% - 9 passes

=PROF== Profiling "ParallelStrategyFour": 0%....50%....100% - 9 passes

GetTimeOfDay Time (for 100 iterations) = 78.246
            Clock Time (for 100 iterations) = 77.1527
     Timing 'opt_2dhisto' ended
     Test PASSED
  =PROF== Disconnected from process 1530012
 =PROF== Report: /home/asa5078/368/final_lab3/CE468-CUDA-Labs/labs/PS4_100_profile.ncu-rep
[asa5078@robin labs]$
 =PROF== Profiling ParallelStrategyFive: 0%....50%....100% - 9 passes

=PROF== Profiling "ParallelStrategyFive": 0%....50%....100% - 9 passes

=PROF== Profiling "ParallelStrategyFive": 0%....50%....100% - 9 passes

=PROF== Profiling "ParallelStrategyFive": 0%....50%....100% - 9 passes
            GetTimeOfDay Time (for 100 iterations) = 78.304
            Clock Time
                                     (for 100 iterations) = 77.3067
     Timing 'opt_2dhisto' ended
     Test PASSED
  =PROF== Disconnected from process 1532407
 =PROF== Report: /home/asa5078/368/final_lab3/CE468-CUDA-Labs/labs/PS5_100_profile.ncu-rep
[asa5078@robin labs]$
```