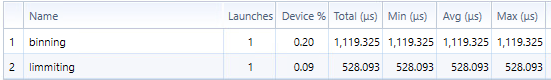
Running with non-optimized algorithm, please notice that I use 2 separate kernels to do this task:



Total time no non optimize is 1647 ms.