Advaned Programming fo HPC - Report 2

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```
RESULT: Starting labwork 2
Number total of GPU: 2
Name: Tesla K40c
Clock rate: 745000
Core count: 2880
Multiprocessors: 15
Warp size: 32
Memory info
Memory clock rate: 3004000
Memory bus width: 384
Name: GeForce GTX TITAN Black
Clock rate: 980000
Core count: 2880
Multiprocessors: 15
Warp size: 32
Memory info
Memory clock rate: 3500000
Memory bus width: 384
labwork 2 ellapsed 0.8ms
IMPLEMENTATION
void Labwork::labwork2_GPU() {
     int nDevices = 0;
     // get all devices
     cudaGetDeviceCount(&nDevices);
     printf("Number total of GPU: %d\n\n", nDevices);
     for (int i = 0; i < nDevices; i++){
         // get informations from individual device
         printf("-
         cudaDeviceProp prop;
         cudaGetDeviceProperties(&prop, i);
         // something more here
         printf("Name: %s\n", prop.name);
printf("Clock rate: %d\n", prop.clockRate);
printf("Core count: %d\n", getSPcores(prop));
         printf("Multiprocessors: %d\n", prop.multiProcessorCount);
         printf("Warp size: %d\n", prop.warpSize);
         printf("Memory info\n");
         printf("Memory clock rate: %d\n", prop.memoryClockRate);
         printf("Memory bus width: \%d\n", prop.memoryBusWidth);\\
}
```