DEVICE QUERY

- https://github.com/NVIDIA/
 cuda-samples/tree/master/
 Samples/deviceQuery
- GeForce RTX 3070

```
→ deviceQuery git:(master) x ./deviceQuery
./deviceQuery Starting...
CUDA Device Query (Runtime API) version (CUDART static linking)
Detected 1 CUDA Capable device(s)
Device 0: "GeForce RTX 3070"
                                                 11.2 / 11.2
 CUDA Driver Version / Runtime Version
 CUDA Capability Major/Minor version number:
  Total amount of global memory:
                                                 7982 MBytes (8370061312 bytes)
  (46) Multiprocessors, (128) CUDA Cores/MP:
                                                 5888 CUDA Cores
  GPU Max Clock rate:
                                                 1770 MHz (1.77 GHz)
  Memory Clock rate:
                                                 7001 Mhz
  Memory Bus Width:
                                                 256-bit
 L2 Cache Size:
                                                 4194304 bytes
                                                 1D=(131072), 2D=(131072, 65536), 3D=(16384, 16384, 16384)
  Maximum Texture Dimension Size (x,y,z)
  Maximum Layered 1D Texture Size, (num) layers 1D=(32768), 2048 layers
  Maximum Layered 2D Texture Size, (num) layers 2D=(32768, 32768), 2048 layers
  Total amount of constant memory:
                                                 65536 bytes
  Total amount of shared memory per block:
                                                 49152 bytes
  Total shared memory per multiprocessor:
                                                 102400 bytes
  Total number of registers available per block: 65536
  Maximum number of threads per multiprocessor: 1536
 Maximum number of threads per block:
                                                 1024
  Max dimension size of a thread block (x,y,z): (1024, 1024, 64)
 Max dimension size of a grid size
                                       (x,y,z): (2147483647, 65535, 65535)
  Maximum memory pitch:
                                                 2147483647 bytes
  Texture alignment:
                                                 512 bytes
 Concurrent copy and kernel execution:
                                                 Yes with 2 copy engine(s)
  Run time limit on kernels:
  Integrated GPU sharing Host Memory:
                                                 No
  Support host page-locked memory mapping:
                                                 Yes
  Alignment requirement for Surfaces:
                                                 Yes
 Device has ECC support:
                                                 Disabled
  Device supports Unified Addressing (UVA):
                                                 Yes
 Device supports Managed Memory:
                                                 Yes
 Device supports Compute Preemption:
                                                 Yes
  Supports Cooperative Kernel Launch:
                                                 Yes
 Supports MultiDevice Co-op Kernel Launch:
  Device PCI Domain ID / Bus ID / location ID: 0 / 1 / 0
 Compute Mode:
     < Default (multiple host threads can use ::cudaSetDevice() with device simultaneously) >
deviceQuery, CUDA Driver = CUDART, CUDA Driver Version = 11.2, CUDA Runtime Version = 11.2, NumDevs = 1
Result = PASS
```



LOCAL REGISTERS

Total number of registers available per block: 65536

