ELEC 374

Machine Problem 1

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## Code

## Screenshots

```
Number of CUDA devices: 2
Device 0: Tesla C2075
    Clock rate: 1147 MHz
    Number of streaming multiprocessors: 14
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    Number of cores: 448
    Warp size: 32
    Amount of global memory: 4294967295 bytes
    Amount of constant memory: 65536 bytes
    Amount of shared memory per block: 49152 bytes
    Number of registers available per block: 32768
    Maximum number of threads per block: 1024
    Maximum size of each dimension of a block: (1024, 1024, 64)
    Maximum size of each dimension of a grid: (65535, 65535)

Device 1: Quadro 600
    Clock rate: 1280 MHz
    Number of streaming multiprocessors: 2
    Number of cores: 96
    Warp size: 32
    Amount of global memory: 1073741824 bytes
    Amount of constant memory: 65536 bytes
    Amount of shared memory per block: 49152 bytes
    Number of registers available per block: 32768
    Maximum number of threads per block: 1024
    Maximum size of each dimension of a block: (1024, 1024, 64)
    Maximum size of each dimension of a grid: (65535, 65535, 65535)

Press any key to continue . . . _
```

The code queries the system and returns the number of devices information about each of the devices. Based on the output, the computer has 2 devices, a Tesla C2075 and a Quadro 600. The various information includes clock rates, number of streaming multiprocessors, the number of cores and more.