

Advanced HPC - Labwork 02

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- Importing the numba package:

```
import numba
from numba import cuda
```

- Get GPU information by using `numba.cuda.detect()`: There's only one GPU on this computer.

```
print(numba.cuda.detect())
```

```
Found 1 CUDA devices
id 0      b'NVIDIA GeForce GTX 1050 Ti'          [SUPPORTED]
          Compute Capability: 6.1
          PCI Device ID: 0
          PCI Bus ID: 1
          UUID: GPU-cb07b014-14f9-1e1e-84b0-9d3af035b534
          Watchdog: Enabled
          FP32/FP64 Performance Ratio: 32
Summary:
    1/1 devices are supported
True
```

- Select the GPU and print its name and id:

```
gpu = numba.cuda.select_device(0)

print("GPU ID", gpu.id)
print("GPU Name", gpu.name)
```

```
GPU ID 0
GPU Name b'NVIDIA GeForce GTX 1050 Ti'
```