

# GPU – hands-on

June 17th, 2024

# Setting-up

- Login to DAS5

ssh <user>@fs0.das5.cs.vu.nl (for example!)

- On the cluster

- Load modules (Hint: Tab => autocomplete)

```
module load cuda10.1/toolkit
```

```
module load cuda10.1/profiler
```

```
module load prun
```

- Copy the code to your local home folder

```
cp -fr /var/scratch/alvarban/GPU-VU-Jun2k23/ .
```

- Enter the folder

```
cd $HOME/GPU-VU-Jun2k23
```

# Running

- Directly using the **prun script**

```
prun -v -np 1 -native '-C TitanX --gres=gpu:1' <app>
```

- Using a **reservation** and the prun script

```
preserve -np 1 -native '-C TitanX --gres=gpu:1' -s <start> -t <time>
```

```
preserve -l list
```

```
prun -np 1 -reserve <ID> <app>
```

# TO DO

- Fill in the vector-add
- Check vector-transform
- Check crypto