



## Access to DTU GPU nodes

- Get a guest-account from Peter (active until end of April 2021)
- Access via either
  - ThinLinc <a href="https://thinlinc.gbar.dtu.dk/main/">https://thinlinc.gbar.dtu.dk/main/</a>
  - ssh to login2.hpc.dtu.dk)
- <a href="https://www.hpc.dtu.dk/?page\_id=2129">https://www.hpc.dtu.dk/?page\_id=2129</a> has information on interactive nodes, choose one, e.g.
  - v100sh -X
- Load McStas 3.0-dev from Peter's account by running ~pkwi/McStas/mcstas/3.0-dev/environment

(! On first access, please write a local mostas config by morun --write-user-config!)

- Load the Nvidia compilers module load nvhpc
- Optionally you can also load mpi via module load mpi/4.0.1-gcc-8.3.0 (not plug+play wrt OpenACC, needs manual addition of lib and include path)

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## Running an instrument on GPU

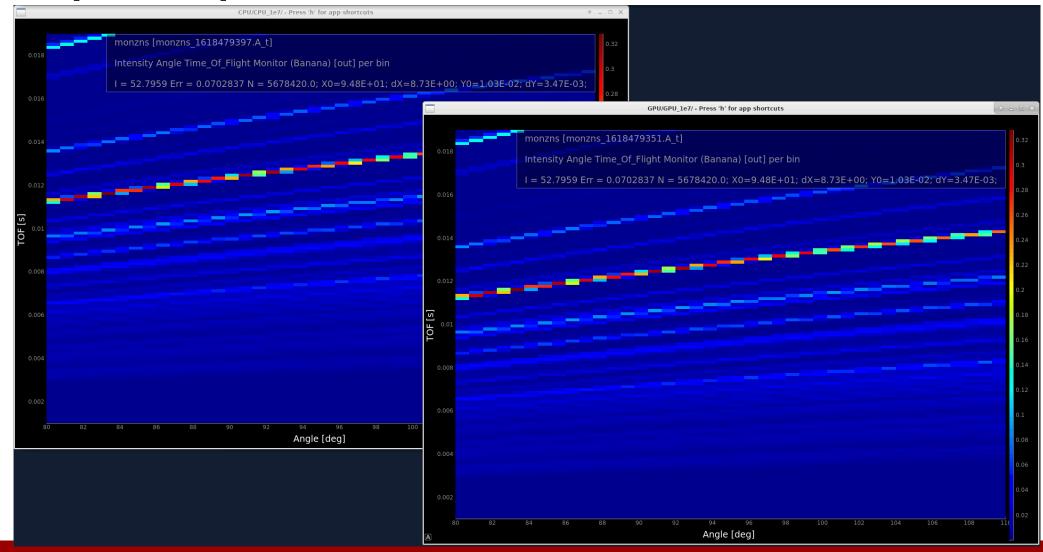
- Copy an instrument in cp \$MCSTAS/examples/ISIS\_GEM.instr .
- Compile for GPU mcrun -c --openacc ISIS\_GEM.instr -n0
- Run as usual, gives e.g.
- GPU 1e7, -s1000 :
   Detector: monzns\_I=52.7959 monzns\_ERR=0.0702837 monzns\_N=5.67842e+06
   "monzns\_1618479351.A\_t"
   Finally [ISIS\_GEM: GPU\_1e7]. Time: 6 [s]
- CPU 1e7, -s1000 :
   Detector: monzns\_I=52.7959 monzns\_ERR=0.0702837 monzns\_N=5.67842e+06
   "monzns\_1618479397.A\_t"
   Finally [ISIS\_GEM: CPU\_1e7]. Time: 1.08333 [min]

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## mcplot output



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