# Utilisation des GPU

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5<sup>th</sup> February 2020

LSST France 05 Feb

## Example of GPU developments





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- Develop an architecture
  - Implement an idea
    - Test training
  - Optimize training

Done on local machines @ CPPM marseille

- Each machine with one or two GPU, only one user per machine.
- Easy way to optimize memory/ data access and architecture

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These steps are efficient in a share mode (ex @CCIN2P3)

only (?) if « interactive » :

get an machine « now » to run a 10 hours –ish job

in a similar way as ssh –i @CC

#### • Finalize / Publish a result

• Use same architecture

on ensemble of training with cross validations

This step can be run using a batch system mode

#### • On-going Future work

- Lightcurve Classification and Photo-z works continue with ANR project
- Transfer learning on galaxy image
- Larger network / need on memory no yet a bottleneck, multigpu jobs are difficult to implement.

CONCLUSION : not easy to size the GPU needs from these activities in the future, in particular on CCIN2P3 platform