$\Sigma\Sigma_{Job}$: Sums_{Job} (**S**imple **U**tility for **M**ultiple-**S**ervers **Job Sub**mission)

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To run a job...

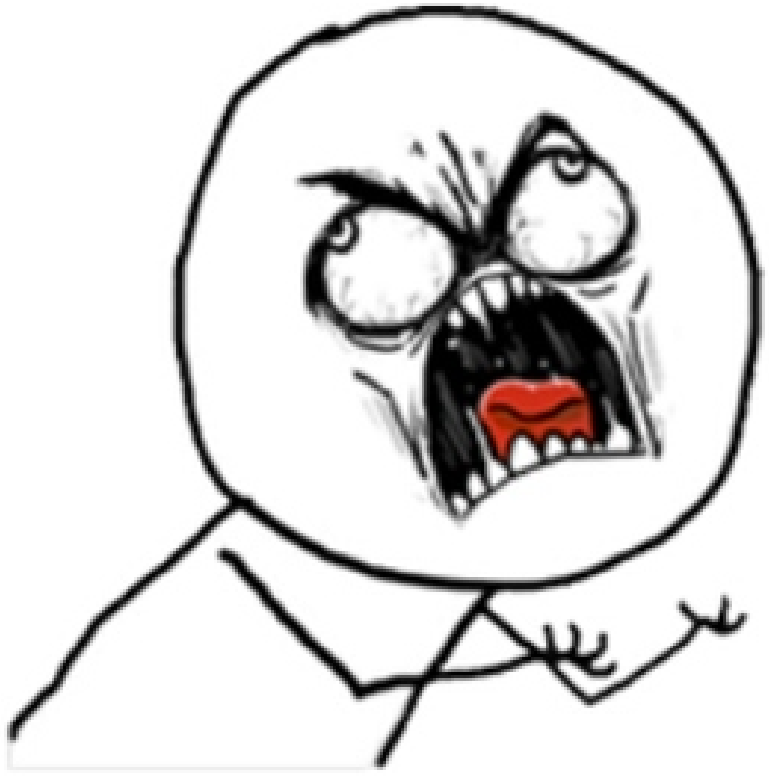
From division machine without free GPUs

1. `ssh jueying`
2. `nvidia-smi`: If no free GPU, go to step 1
3. `cd ~/project/codes`
4. `CUDA_VISIBLE_DEVICES=0 python main.py`

From personal computer

1. `scp -r codes dam:~/project/codes`
2. `ssh dam`
3. `ssh jueying`
4. `nvidia-smi`: If no free GPU, go to step 1
5. `cd ~/project/codes`
6. `CUDA_VISIBLE_DEVICES=0 python main.py`
7. `scp dam:~/project/codes/ml.dat .`

One week later. . .



Sums$_{\text{Job}}$ (**S**imple **U**tility for **M**ultiple-**S**ervers **Job Sub**mission)

- A simple Linux ***command-line utility*** which ***submits a job*** to one of the ***multiple servers*** each with limited resources.
- It will first look for servers with available resources, such as GPUs, and then run the job in that server ***interactively*** just as the job is running in your local machine.
- `$ gpuresource`: Show the status of GPUs on all servers
- `$ submit`: Run a job