

Task spooler

Your local batch system

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Submit to the batch! Oh yeah, about that... *everybody else* is using the medium queue, too, and you've already used the batch system extensively this week so your priority is very low. Your jobs aren't going to finish by tomorrow morning...*

*I must make a note that the IC batch is very good and you'll rarely find yourself in this situation, but I've experienced it several times with the cern batch...

Now what?

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- ~~Give up on sleeping and~~ run all of your jobs locally on your desktop, 4 at a time **using task spooler**

What?!

“task spooler is a **Unix batch system** where the **tasks spooled run one after the other**. The **amount of jobs to run at once can be set at any time**. [...] It is very useful when you know that your commands depend on a lot of RAM, a lot of disk use, give a lot of output, or for whatever reason it's better not to run them all at the same time, while you want to keep your resources busy for maximum benefit.”

Get it here:

<http://vicerveza.homeunix.net/~viric/soft/ts/>

```
[amd12@heppc194 HiggsTauTau]$ ts
ID   State      Output          E-Level  Times(r/u/s)  Command [run=0/1]
[amd12@heppc194 HiggsTauTau]$ ts -S
1
[amd12@heppc194 HiggsTauTau]$ ts -S 4
[amd12@heppc194 HiggsTauTau]$ ts -S
4
```

ts: show tasks in the queue

ts -S : show maximum number of jobs running at the same time

ts -S N : set maximum number of jobs running at the same time to N


```
cd /vols/cms04/amd12/CMSSW_7_4_7/src/UserCode/ICHiggsTauTau/Analysis/HiggsTauTau
source /vols/cms/grid/setup.sh
export SCRAM_ARCH=slc6_amd64_gcc481
eval `scramv1 runtime -sh`
source /vols/cms04/amd12/CMSSW_7_4_7/src/UserCode/ICHiggsTauTau/Analysis/HiggsTauTau/scripts/setup_libs.sh
./bin/HTT --cfg=scripts/config.json --json='{ "job": { "filelist": "filelists/Oct15_MC_74X_SUSYGluGluToHToTauTau_M-160.dat"}, "sequence": { "output_name": "SUSYGluGluToHToTauTau_M-160_2015"} }' --offset=0 --nlines=50 &> jobs/SUSYGluGluToHToTauTau_M-160_2015-0.log
~
~
```



ts bash -c "commands" : evaluate bash commands

```
[amd12@heppc194 HiggsTauTau]$ ts bash -c "eval jobs/SUSYGluGluToHToTauTau_M-160_2015-0.sh"
0
[amd12@heppc194 HiggsTauTau]$ ts
ID   State      Output                E-Level  Times(r/u/s)  Command [run=1/4]
0    running    /tmp/ts-out.nY6jg8    0         0/0/0/0        bash -c eval jobs/SUSYGluGluToHToTauTau_M-160_2015-0.sh
[amd12@heppc194 HiggsTauTau]$ ts bash -c "eval jobs/SUSYGluGluToHToTauTau_M-500_2015-0.sh"
1
[amd12@heppc194 HiggsTauTau]$ ts
ID   State      Output                E-Level  Times(r/u/s)  Command [run=2/4]
0    running    /tmp/ts-out.nY6jg8    0         0/0/0/0        bash -c eval jobs/SUSYGluGluToHToTauTau_M-500_2015-0.sh
1    running    /tmp/ts-out.oT1kSv    0         0/0/0/0        bash -c eval jobs/SUSYGluGluToHToTauTau_M-500_2015-0.sh
[amd12@heppc194 HiggsTauTau]$ ts bash -c "eval jobs/SUSYGluGluToHToTauTau_M-1000_2015-0.sh"
2
[amd12@heppc194 HiggsTauTau]$ ts
ID   State      Output                E-Level  Times(r/u/s)  Command [run=1/4]
2    running    /tmp/ts-out.abKL4A    0         0/0/0/0        bash -c eval jobs/SUSYGluGluToHToTauTau_M-1000_2015-0.sh
0    finished    /tmp/ts-out.nY6jg8    0         34.60/16.88/1.34 bash -c eval jobs/SUSYGluGluToHToTauTau_M-1000_2015-0.sh
1    finished    /tmp/ts-out.oT1kSv    0         10.31/5.30/0.48  bash -c eval jobs/SUSYGluGluToHToTauTau_M-1000_2015-0.sh
```

Or even:

`ts <command>` : submit this command to the queue

```
[amd12@heppc194 HiggsTauTau]$ ts ./bin/HTT --cfg=scripts/config.json
4
[amd12@heppc194 HiggsTauTau]$ ts
```

ID	State	Output	E-Level	Times(r/u/s)	Command [run=1/4]
4	running	/tmp/ts-out.t8USTH			./bin/HTT --cfg=scripts/config.json
0	finished	/tmp/ts-out.nY6jg8	0	34.60/16.88/1.34	bash -c eval jobs/SUSYGluGluToHToTau
1	finished	/tmp/ts-out.oT1kSv	0	10.31/5.30/0.48	bash -c eval jobs/SUSYGluGluToHToTau
2	finished	/tmp/ts-out.abKL4A	0	9.00/5.50/0.76	bash -c eval jobs/SUSYGluGluToHToTau

`ts -C`: clear the task list

```
[amd12@heppc194 HiggsTauTau]$ ts -C
[amd12@heppc194 HiggsTauTau]$ ts
```

ID	State	Output	E-Level	Times(r/u/s)	Command [run=0/4]
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