<u>The Zeuthen Batch-System – A First Approach</u>

- please have a look at http://dvinfo.ifh.de/Batch_System_Usage
- so far only used data on afs scratch (didn't use copy local option)
- qrsh worked out of the box...
 - but yesterday not at all... (Your "qrsh" request could not be scheduled, try again later.) hmm?
- setting up you environment for qsub can be more difficult
 - e.g. ini root514 sometime didn't work (might depend on the actual machine you end up on)
- performance comparism = run simple analysis (2000 events of ttbar analysis)

<u>method</u>	data location	<u>CPU-time</u>	Hz	<u>CPU</u>	Bogomips
hyade3	afs	592.20	3	1x2.4GHz	4x4757.91
pub4	afs	684.21	3	4x2.4GHz	4x4744.80
qrsh	afs	368.69	5	various	various
qsub	afs	373.56	5	various	various
laptop	local	351.76	6	1x2.0GHz	4x1597.87
atlhlt2	afs	223.50	9	4x3.0GHz	4x5985.04

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- available options for qrsh and qsub (taken from http://dvinfo.ifh.de/Batch_System_Usage)
 - set your project, if different from your default or in case you don't have a default
 - -P atlas
 - choose specific Shell, if different from your standard one
 - -S /bin/zsh
 - choose architecture (ia32, amd64) and operation system (sl3,sl5)
 - -l arch=ia32

- -l os=sl3
- sl3 and ia32 will be gone soon though!!!
- soft and hard limits for memory, cpu time and wallclock time and reserve memory

- -l h_vmen=600M
- -l h_cpu=48:00:00
- -l h_rt=15:00:00

- $-l tmp_free=5G (not tested yet)$
- inherit the environment from your current shell (usefull for qrsh, but so much for qsub)

-V

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exemplary submission script

```
#!/bin/zsh
#$ -S /bin/zsh
#$ -I arch=amd64
                                      parameters are read even though commented
#$ -I h_cpu=00:15:00
#$ -I h vmem=600M
#$ -j y
#$ -o /afs/ifh.de/group/atlas/users/scratch/mehlhase/TopPhysics/SFrameNeu/CycleAnalysis/batch
#$ -m ae
#$ -M mehlhase@ifh.de
#$ -P atlas
source /afs/ifh.de/user/m/mehlhase/scripts/setupSFrameNeu
cd
make clean
make
cd dev
make clean
                                      in case you load the environment properly
make
cd ../CycleAnalysis
                                      you can even compile your code on the farm
make clean
make
cd run
sframe main ../example/example top.xml
cd ...
```