



Group **B** est

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Project #3: Set up multiple accounting groups and define different quotas and priorities for each.

- Following [“Setting Account Group automatically per user”](#)
- Set `accounting_group` and `accounting_group_user` in the submit file
- Set Group names and quotas in central manager’s config
- Requires users to be part of groups set in access point’s config
- More could be done:
 - Current implementation trusts users to self-identify in groups - access points can configure maps identifying users with groups automatically
 - Group priority can be set with `cgroups`, which can “apply resource limits collectively to sets of jobs”

```
accounting_group = group_experiment.hep
accounting_group_user = rsimeon

queue 3
```

Configuration in submit file for group membership



Project #3 cont'd

- Central manager config settings

```
DAEMON_LIST = COLLECTOR, NEGOTIATOR
CONDOR_HOST = fstrug
COLLECTOR_HOST = fstrug
ALLOW_READ = /*
ALLOW_WRITE = /*
ALLOW_DAEMON = /*

GROUP_NAMES = group_experiment, group_experiment.hep, group_experiment.cm, group_theory
GROUP_QUOTA_DYNAMIC_group_experiment = .66
GROUP_QUOTA_DYNAMIC_group_experiment.hep = .75
GROUP_QUOTA_DYNAMIC_group_experiment.cm = .25
GROUP QUOTA DYNAMIC group theory = .33
```

```
[root@fstrug interactive]# condor_userprio
Last Priority Update: 5/24 14:17
```

User Name	Effective Priority	Priority Factor	Wghted In Use	Total Usage (wghted-hrs)	Time Since Last Usage	Submitter Ceiling
group_experiment.hep		1000.00	0	9.34	0+15:27	
group_theory		1000.00	0	4.32	0+15:26	
Number of users: 0			0	0.00	0+23:59	



Project #4: Modify execution points to limit the amount of CPU and/or RAM that users can request.

- Following “[Dividing System Resources in Multi-core Machines](#)”
- Define different slots depending on which resource should be made available to SLOT_TYPE_N in execution point’s config
- Can configure CPU cores, RAM (MB), and Disk/Swap space as a fraction, percentage, or list

Execute config.d

```
DAEMON_LIST=STARTD
COLLECTOR_HOST=fstrug

ALLOW_READ = */*
ALLOW_WRITE = */*
ALLOW_DAEMON = */*

NUM_SLOTS=1
NUM_SLOTS_TYPE_1 = 1
SLOT_TYPE_1 = cpus=1/2, memory=128
```

```
[root@akraus config.d]# condor_status
```

Name	OpSys	Arch	State	Activity	LoadAv	Mem
slot1@akraus	LINUX	X86_64	Unclaimed	Idle	0.000	515301
slot1_4@akraus	LINUX	X86_64	Claimed	Busy	0.000	128
slot1_5@akraus	LINUX	X86_64	Claimed	Busy	0.000	128
slot1_6@akraus	LINUX	X86_64	Claimed	Busy	0.000	128
slot1@jmwagner	LINUX	X86_64	Unclaimed	Idle	0.000	515685



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