Garvan: Site queues

Wolfpack

```
# Login to the Wolfpack HPC

ssh -i <your-SSH-key> <your-username>@dice01.garvan.unsw.edu.au


# Show all the queue names

qconf -sql

# Show details of queues that are commonly used

qstat -f | grep -v all.q | grep -v x10.q | grep -v yarn.q | uniq

# The returned column 'queuename' has this format:
#
#     queue@node
```

```
          @dice01 ~]$ qstat -f | grep -v all.q | grep -v x10.q | grep -v yarn.q | uniq
queuename                      qtype resv/used/tot. load_avg arch           states
---------------------------------------------------------------------------------------
long.q@omega-1-32.local        BP    0/0/64         -NA-     lx-amd64       au
---------------------------------------------------------------------------------------
long.q@omega-1-33.local        BP    0/0/64         -NA-     lx-amd64       au
---------------------------------------------------------------------------------------
long.q@omega-6-22.local        BP    0/41/64        37.60    lx-amd64
---------------------------------------------------------------------------------------
long.q@omega-6-23.local        BP    0/60/64        22.73    lx-amd64
---------------------------------------------------------------------------------------
short.q@delta-3-1.local        BIP   0/1/56         0.01     lx-amd64
---------------------------------------------------------------------------------------
short.q@delta-3-2.local        BIP   0/1/56         0.02     lx-amd64       d
---------------------------------------------------------------------------------------
short.q@delta-3-3.local        BIP   0/9/56         1.73     lx-amd64
---------------------------------------------------------------------------------------
short.q@delta-3-4.local        BIP   0/7/56         0.71     lx-amd64
---------------------------------------------------------------------------------------
short.q@delta-3-6.local        BIP   0/1/56         1.09     lx-amd64
---------------------------------------------------------------------------------------
short.q@delta-3-7.local        BIP   0/29/56        1.16     lx-amd64
---------------------------------------------------------------------------------------
short.q@delta-3-8.local        BIP   0/4/56         0.76     lx-amd64
---------------------------------------------------------------------------------------
short.q@omega-6-15.local       BIP   0/9/64         9.62     lx-amd64
---------------------------------------------------------------------------------------
short.q@omega-6-16.local       BIP   0/0/64         1.12     lx-amd64
---------------------------------------------------------------------------------------
short.q@omega-6-17.local       BIP   0/12/64        0.21     lx-amd64
---------------------------------------------------------------------------------------
short.q@omega-6-18.local       BIP   0/12/64        1.11     lx-amd64
---------------------------------------------------------------------------------------
```

qtype (queue type)	Details
B	Batch
I	Interactive
C	Checkpointing
P	Parallel

states (queue states)	Details
d	disabled
a	alarm

states (queue states)	Details
E	Error
s	suspended
u	unknown

Show more details of a specific queue

qstat -q short.q

```
[      @omega-6-17 ~]$ qstat -q short.q
job-ID  prior   name       user       state submit/start at      queue                         slots ja-task-ID
---------------------------------------------------------------------------------------------------------------
2595844 1.83833 QLOGIN     [      ]        r     05/01/2024 10:54:18 short.q@omega-6-17.local         1
```

Show the details of a specific node that is part of a queue

qstat -q short.q@omega-6-17.local

Show the capabilities of all the compute nodes in the system

qhost

```
[████████@omega-6-17 ~]$ qhost
HOSTNAME              ARCH          NCPU NSOC NCOR NTHR   LOAD  MEMTOT  MEMUSE  SWAPTO  SWAPUS
----------------------------------------------------------------------------------------------
global                -                -    -    -    -      -       -       -       -       -
alpha01               -                -    -    -    -      -       -       -       -       -
delta-3-1             lx-amd64        56    2   28   56   1.09  503.6G   10.3G     0.0     0.0
delta-3-11            lx-amd64        56    2   28   56      -  503.6G       -     0.0       -
delta-3-13            lx-amd64        56    2   28   56      -  503.6G       -     0.0       -
delta-3-14            lx-amd64        56    2   28   56   0.09  503.6G   10.4G     0.0     0.0
delta-3-18            lx-amd64        56    2   28   56   0.08  503.6G   10.3G     0.0     0.0
delta-3-19            lx-amd64        56    2   28   56   0.07  503.6G   10.2G     0.0     0.0
delta-3-2            lx-amd64        56    2   28   56   0.01  503.6G    9.6G     0.0     0.0
delta-3-3            lx-amd64        56    2   28   56   0.11  503.6G    9.8G     0.0     0.0
delta-3-4            lx-amd64        56    2   28   56   2.20  503.6G   22.3G     0.0     0.0
delta-3-6            lx-amd64        56    2   28   56   1.02  503.6G   10.2G     0.0     0.0
delta-3-7            lx-amd64        56    2   28   56   1.30  503.6G   15.2G     0.0     0.0
delta-3-8            lx-amd64        56    2   28   56   1.28  487.9G   13.1G     0.0     0.0
delta-3-9            lx-amd64        56    2   28   56   0.01  503.6G    8.7G     0.0     0.0
omega-1-25           lx-amd64        64    4   64   64   0.08  503.7G   12.8G     0.0     0.0
omega-1-26           lx-amd64        64    4   64   64   4.67  503.7G   13.1G     0.0     0.0
omega-1-27           lx-amd64        64    4   64   64      -  503.7G       -     0.0       -
omega-1-28           lx-amd64        64    4   64   64   0.19  503.7G   10.7G     0.0     0.0
omega-1-30           lx-amd64        64    4   64   64  30.90  503.7G   22.7G     0.0     0.0
omega-1-31           lx-amd64        64    4   64   64   0.12  503.7G   12.8G     0.0     0.0
omega-1-32           lx-amd64        64    4   64   64      -  503.7G       -     0.0       -
omega-1-33           lx-amd64        64    4   64   64      -  503.7G       -     0.0       -
omega-6-15           lx-amd64        64    4   64   64   2.28  503.7G   12.3G     0.0     0.0
omega-6-16           lx-amd64        64    4   64   64   1.11  503.7G   11.4G     0.0     0.0
omega-6-17           lx-amd64        64    4   64   64   0.17  503.7G   68.7G     0.0     0.0
omega-6-18           lx-amd64        64    4   64   64   0.58  503.7G   13.2G     0.0     0.0
omega-6-22           lx-amd64        64    4   64   64  37.26  503.7G   86.0G     0.0     0.0
omega-6-23           lx-amd64        64    4   64   64  22.69  503.7G   46.3G     0.0     0.0
zeta-1-15            lx-amd64        80    2   40   80   0.09  754.3G   12.5G     0.0     0.0
zeta-1-16            lx-amd64        80    2   40   80   0.11  754.3G   13.4G     0.0     0.0
zeta-1-17            lx-amd64        80    2   40   80   0.12  754.3G   13.4G     0.0     0.0
zeta-1-18            lx-amd64        80    2   40   80   0.05  754.3G   13.4G     0.0     0.0


# Logout

exit
```