

HPC Clusters

03-16-18

HPC clusters overview

- IC:
 - 2 CPUs Intel(R) Xeon(R) CPU E5-2695 v4 @ 2.10GHz
 - Thread(s) per core: 1
 - Core(s) per socket: 18
 - 2x Nvidia K80 or P100 per node (4 K80 or 2 P100 devices per node)
 - 256 GB Memory
 - 126 worker nodes

Partitions (aka queues):

partition	time limit	allowed qos	default time	preempt mode	user availability
debug	30 minutes	normal	5 minutes	off	ic
long	24 hours	normal	5 minutes	off	ic

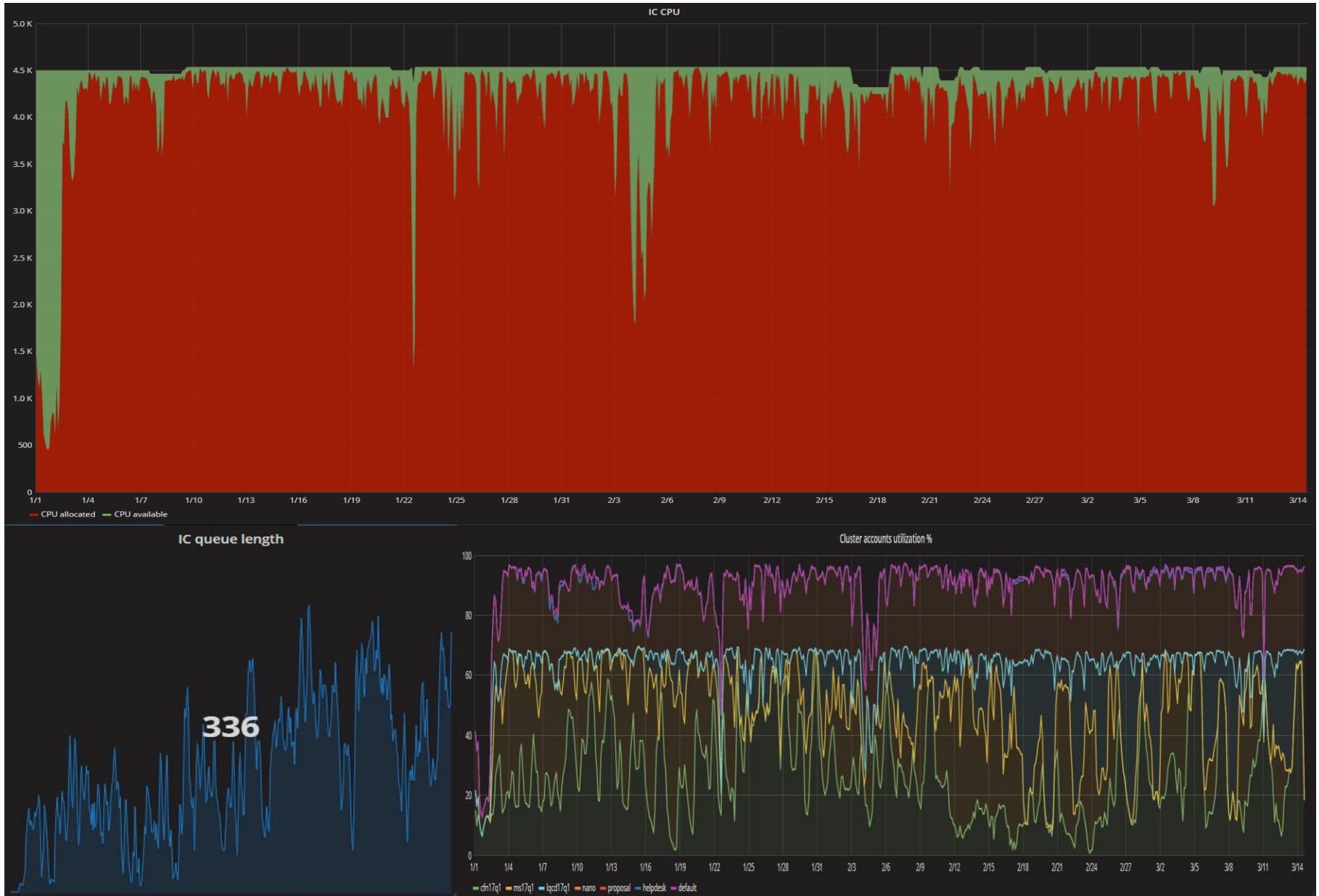
HPC clusters overview

- KNL:
 - 1 Intel(R) Xeon Phi(TM) CPU 7230 @ 1.30GHz
 - Thread(s) per core: 4
 - Core(s) per socket: 64
 - 142 worker nodes
 - 192 GB Memory

Partitions (aka queues):

partition	time limit	allowed qos	default time	preempt mode	user availability
debug	30 minutes	normal	5 minutes	off	knl
long	36 hours	normal	5 minutes	off	knl

IC Cluster Utilization



KNL Cluster Utilization

