

OSU's College of Engineering has six Nvidia DGX-2 systems Each DGX server: Has 16 NVidia Tesla V100 GPUs Has 28TB of disk, all SSD Has two 24-core Intel Xeon 8168 Platinum 2.7GHz CPUs Has 1.5TB of DDR4-2666 System Memory Runs the CentOS 7 Linux operating system

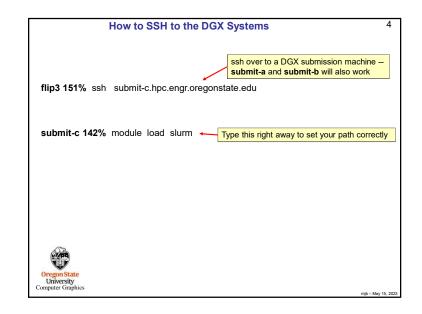
Overall compute power:

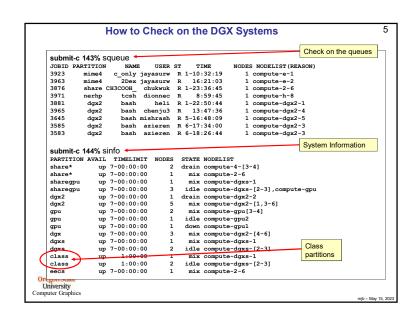
- Each V100 NVidia Tesla card has 5,120 CUDA Cores and 640 Tensor Cores
- This gives each16-V100 DGX server a total of 81,920 CUDA cores and 10,240 Tensor cores
- This gives the entire 6-DGX package a total of 491,520 CUDA Cores and 61,440 Tensor Cores

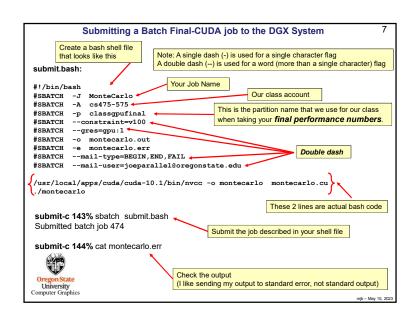


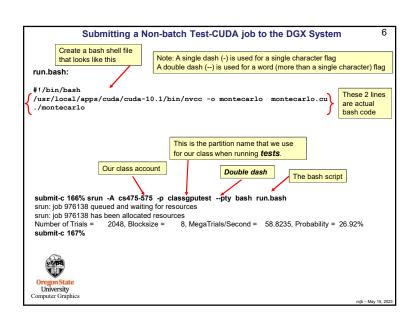
Oregon State
University
Computer Graphics

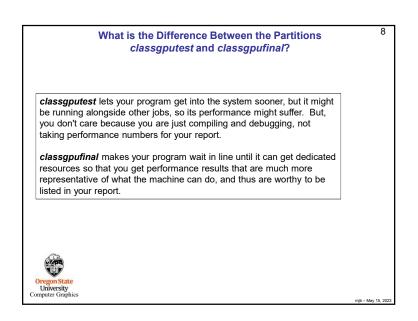
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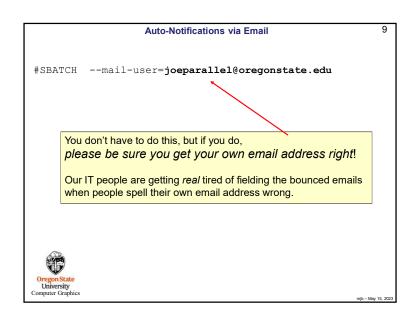


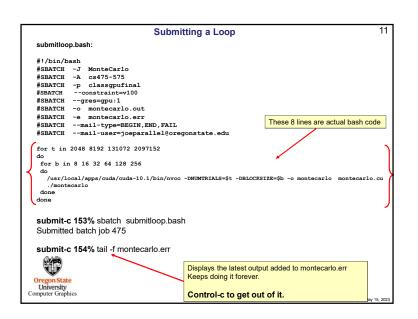


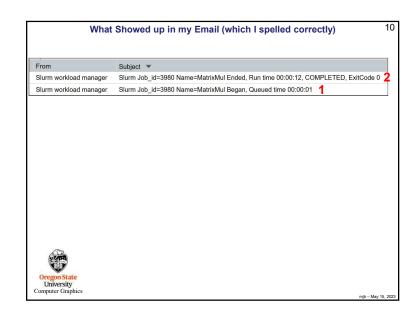


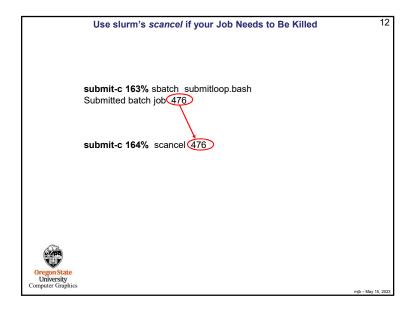












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Submitting an OpenCL job to the DGX System

submit.bash:

#!/bin/bash
#SBATCH -J PrintInfo
#SBATCH -> ca475-575
#SBATCH -> classgupfinal
#SBATCH -- constraint=v100
#SBATCH -- oprintinfo.out
#SBATCH -- oprintinfo.out
#SBATCH -- printinfo.out
#SBATCH -- mail-type=BEGIN.END.FAIL
#SBATCH -- oprintinfo printinfo.cpp /usr/local/apps/cuda/cuda-10.1/lib64/libOpenCL.so.1.1 -lm -fopenmp
}

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