

CHPC 2024 Student Cluster Competition Time Table

Saturday (30th November)	Sunday (1st December)	Monday (2nd December)
<b>Arrival and Welcome</b>	<b>Formal Competition Start</b>	<b>Application Benchmarking</b>
10:00 Arrivals and Check-ins	06:00 Breakfast	06:00 Breakfast
	08:00 Official Competition Start	08:00 Welcome Keynote
15:00 Hardware Collection & Cluster Build	10:30 Tea Break	10:30 Tea Break
	13:00 Lunch	13:00 Lunch
18:00 Dinner	17:45 Submission - HPCC and HPCG	17:45 Submission - MILC and MATLAB Coding Challenge
22:00 Late night snacks	18:00 Dinner	18:00 Conference Dinner
	22:00 Late night snacks	22:00 Late night snacks
Hardware Collection & Cluster Build	Cluster Configuration, HPCC and HPCG	MILC and MATLAB Coding Challenge

Tuesday (3rd December)	Wednesday (4th December)	Thursday (5th December)
<b>Application Benchmarking and Judges Interviews</b>	<b>FINAL DAY</b>	<b>Departure</b>
06:00 Breakfast	06:00 Breakfast	06:00 Breakfast
08:00 Morning Briefing and Announcements	08:00 Morning Briefing and Announcements	
10:30 Tea Break	10:30 Tea Break	
13:00 Lunch	12:00 Submission - ReqCM and Final Submission for all Benchmarks	
17:00 Poster Cocktail Session & Dinner	13:00 Lunch	08:00 Departures
17:45 Submission - NWChem, LAMMPS and PennyLane	14:00 Cluster Tear Down	
22:00 Late night snacks	18:00 Awards Dinner	
NWChem, LAMMPS and PennyLane	Optimization, Consolidation and Awards Dinner	End of Competition

Arrival & Check-In

All students competitors must report to the **Road Lodge Hotel** for registration and check-in on Saturday 30th November.

All mentors and student volunteers must report to **Town Lodge Hotel** for check-ins

Shuttles

The Competition will be taking place at the Boardwalk International Convention Centre. There will be roaming shuttles that will serve as transportation between the venue and the hotels.

Breakfast, Lunch and Dinner

Breakfast will be served at the Hotels that you are staying at. Lunch and Dinner will be served at the Boardwalk International Convention Centre. Please take note of the times in the timetable.

**Emergency** (Transport and logistical): Mrs Funeka Mafani (Number given to Team Captains & Mentors)

Scoring		
Benchmark Weightings	Cluster Software Stack and Presentations Considerations	
7.50% HPCC	Project Management and Documentation (Describe your teamwork)	
5% HPL	Linux Distro (Explain the reasons for your choice of flavour)	
7.50% HPCG	Shell Scripts (Describe your competition preparations <b>if you used scripts</b> )	
10% MILC	Git Repository / Workflow (Demonstrate your version control usage)	
10% MATLAB Coding Challenge	Ansible (Did you make use of any automation in your configuration?) <b>Optional</b>	
10% NWChem	Passwordless SSH, NTP and NFS (Demonstrate)	
10% LAMMPS	LMOD (How are you managing your environment?)	
10% PennyLane	Compiled GCC (Are you using GCC from your package manager?)	
10% RegCM	Compiled OpenMPI and/or MPICH (Same as above)	
15% Judges Score- Presentation, Cluster Configuration, Poster	Intel oneAPI Base and/or HPC Kits	
5% Twitter: Fan Favourite	Munge and SLURM (Are you using a scheduler?) <b>Optional</b>	
	Cluster Monitoring and Visualization (How are you keeping track of things?)	