

Research Meeting

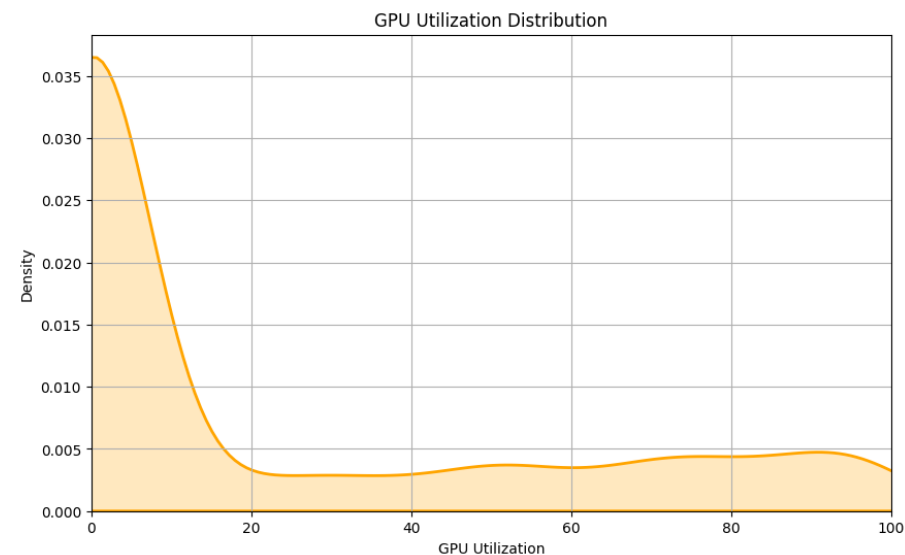
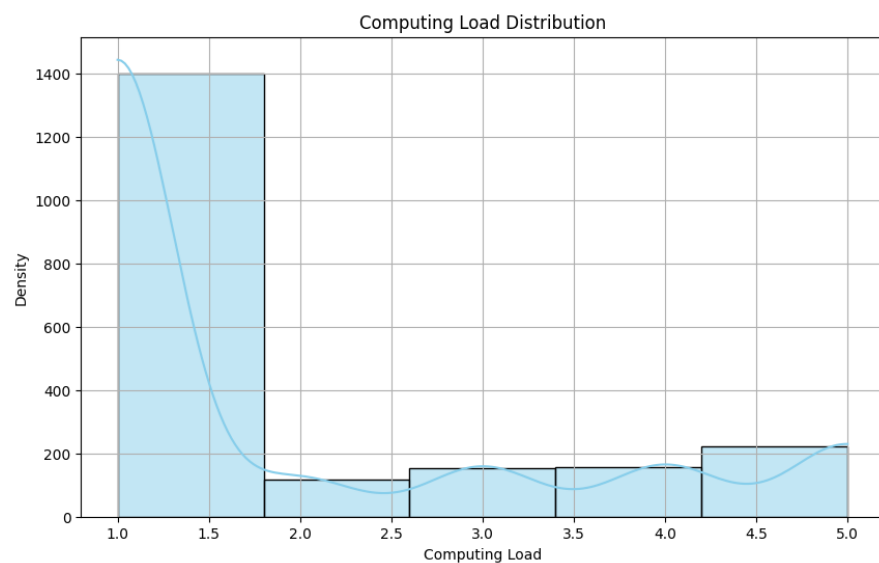
Kyunam Cho
21.Mar.2024 (Thu)

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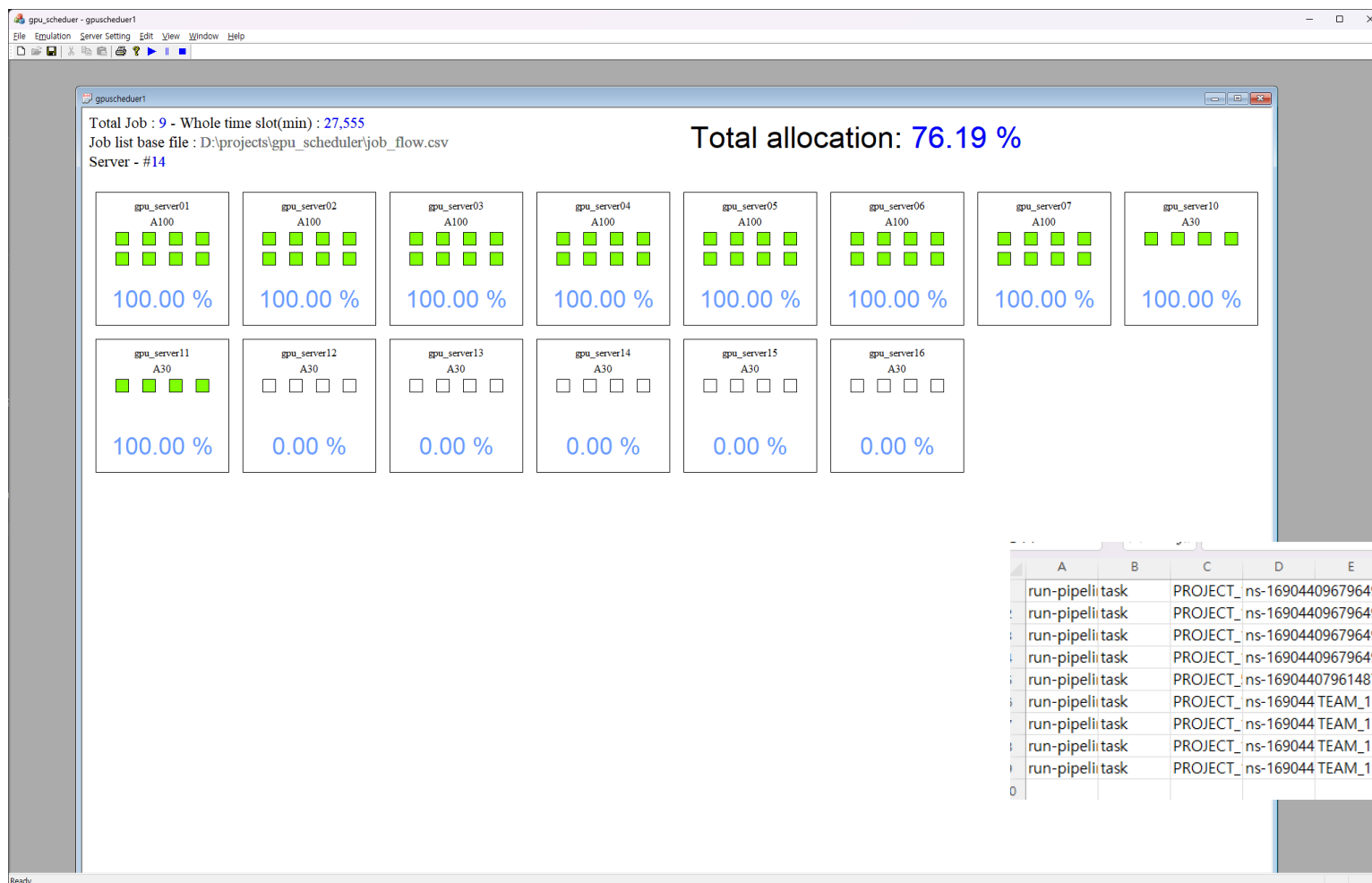
- Project
 - **Motivation Experiment**
 - GPU Task log Player Developing - https://github.com/mystous/gpu_scheduler(commit b53b6252b54e6871a9fbdfda4a73938d36898d25)
- Paper survey and work
 - Searching
 - Deep Learning Workload Scheduling in GPU Datacenters: A Survey' - ZHISHENG YE, Peking University, China
 - KubeGPU: efficient sharing and isolation mechanisms for GPU resource management in container cloud
 - Wenfeng Shen, School of Computer Engineering and Science, Shanghai University
 - Real-Time GPU Scheduling with Preemption Support for Autonomous Mobile Robots
 - Burhanuddin A. Bharmal, Thesis of the Virginia Polytechnic Institute and State University(Master)

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gpu_utilization			pod_name	pod_type	project	namespace	user_team	start	finish	count	time_diff	computing_load
0	97.469773	run-pipeline-gpu-9fg4g-4198045470	task	PROJECT_13	ns-16904409679649498	TEAM_1	2023-11-08 12:15:00+00:00	2023-12-16 00:45:00+00:00	4	37 days 12:30:00	5	
1	93.878238	run-pipeline-gpu-8g5pb-2879794351	task	PROJECT_13	ns-16904409679649498	NaN	2023-11-08 12:15:00+00:00	2023-11-22 02:15:00+00:00	8	13 days 14:00:00	5	
2	94.111422	run-pipeline-gpu-8g5pb-2879794351	task	PROJECT_13	ns-16904409679649498	NaN	2023-11-08 12:15:00+00:00	2023-11-22 01:30:00+00:00	8	13 days 13:15:00	5	
3	93.718447	run-pipeline-gpu-8g5pb-2879794351	task	PROJECT_13	ns-16904409679649498	NaN	2023-11-08 12:15:00+00:00	2023-11-22 08:00:00+00:00	8	13 days 19:45:00	5	
4	94.085403	run-pipeline-gpu-8g5pb-2879794351	task	PROJECT_13	ns-16904409679649498	NaN	2023-11-08 12:15:00+00:00	2023-11-22 01:30:00+00:00	8	13 days 13:15:00	5	
...
2045	0.352398	instance-2142-0	instance	PROJECT_14	ns-1693886715473508	TEAM_5	2023-12-20 00:30:00+00:00	2023-12-21 00:30:00+00:00	1	1 days 00:00:00	1	
2046	0.009993	instance-2242-0	instance	PROJECT_14	ns-1693886715473508	TEAM_5	2023-12-21 08:15:00+00:00	2023-12-22 08:45:00+00:00	1	1 days 00:30:00	1	
2047	0.000000	instance-2304-0	instance	PROJECT_14	ns-1693886715473508	TEAM_11	2023-12-26 05:45:00+00:00	2023-12-26 06:00:00+00:00	1	0 days 00:15:00	1	
2048	0.000000	instance-2312-0	instance	PROJECT_14	ns-1693886715473508	TEAM_5	2023-12-27 07:30:00+00:00	2023-12-27 08:15:00+00:00	1	0 days 00:45:00	1	
2049	0.000000	instance-2242-0	instance	PROJECT_14	ns-1693886715473508	TEAM_5	2024-01-23 02:45:00+00:00	2024-01-24 02:45:00+00:00	1	1 days 00:00:00	1	



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WILL DO

- Project
 - **Motivation Experiment**
 - RR and Compact Scheduler 구현 완료 및 결과 분석
- Paper survey and work
 - Read and summary
 - Deep Learning Workload Scheduling in GPU Datacenters: A Survey' - ZHISHENG YE, Peking University, China