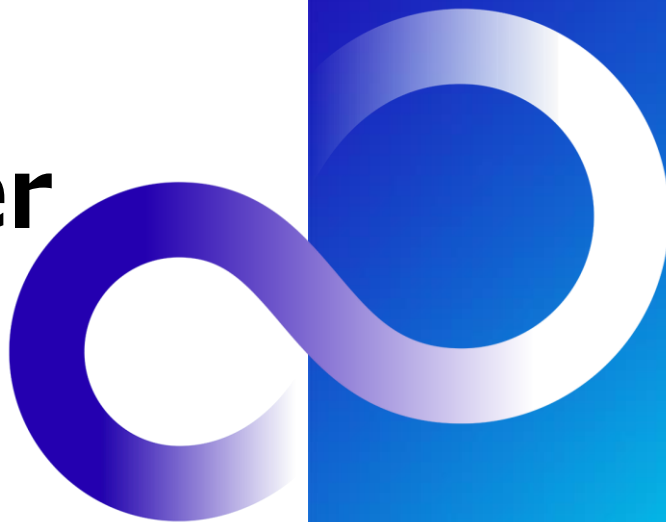


AI Computing Broker

Fujitsu Limited

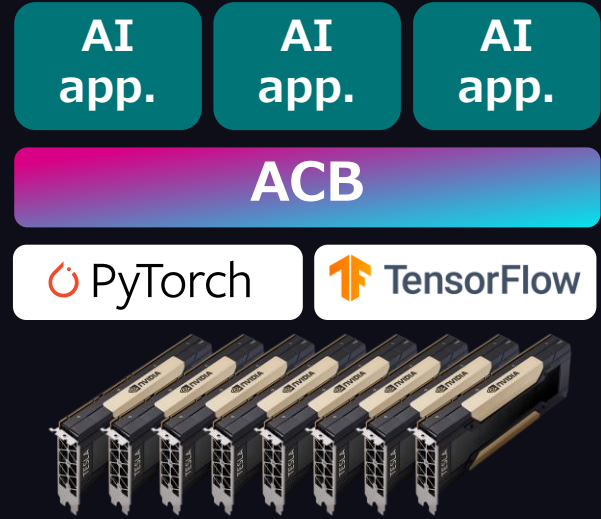


A middleware to share GPUs among AI apps.

- works with a wide range of AI apps. based on **PyTorch** and **TensorFlow**
- just install and use; no code changes are needed

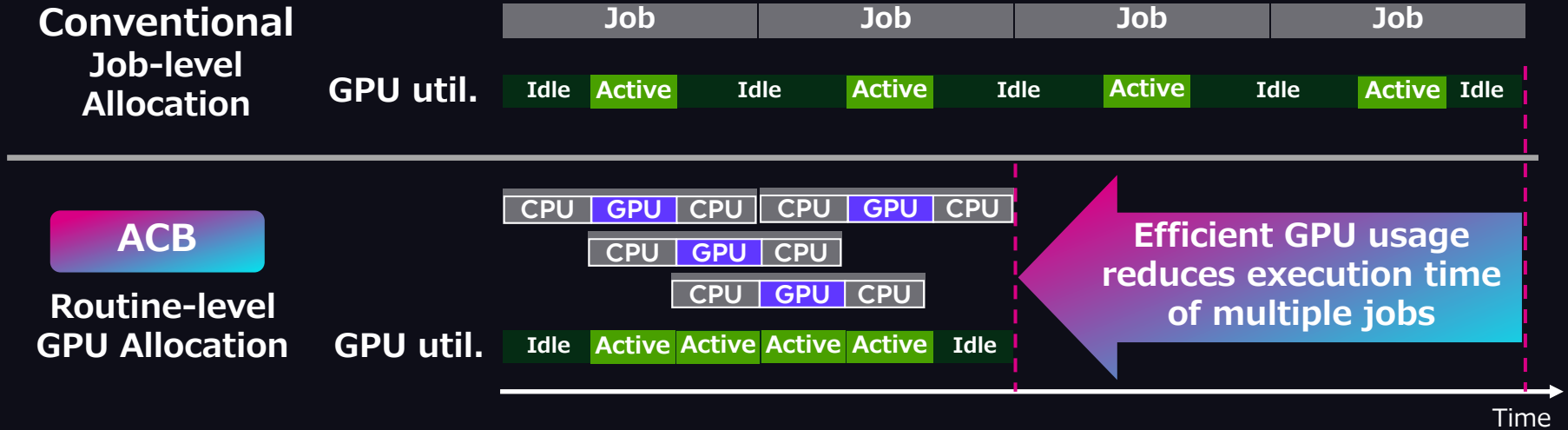
Key Features

- Best-in-class GPU utilization efficiency
- Enabling full GPU memory for each job



Best-in-class GPU utilization efficiency

- “Routine-level” allocation that detects actual GPU parts of jobs and dynamically allocates GPU accordingly

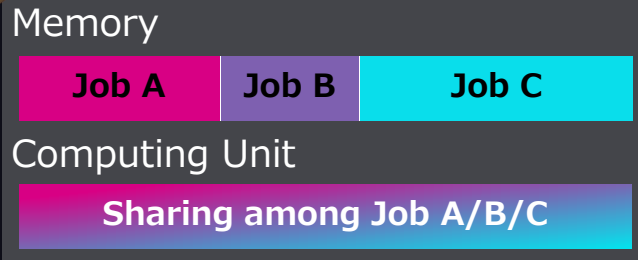


Enabling full GPU memory for each job

- Allocate GPU to only one job at a time (Temporal-sharing)
- Data of other jobs on GPU is automatically swapped to CPU

Conventional: Spatial-sharing

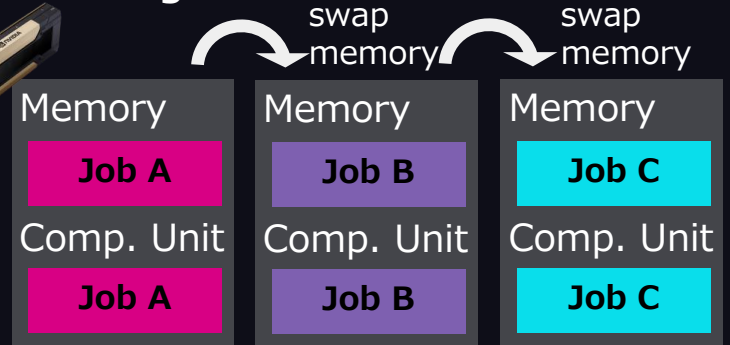
Memory is divided among jobs
Limited to small AI models



ACB

Temporal-sharing

Memory is occupied by each job
Large AI models can run



Single GPU

Multi GPU
Available

Multi-server

Refer to the [press release on Oct. 22.](#)

- Small-scale AI tasks
(e.g., Image recognition)

- Using multiple GPU in a server
- LLM inference, fine-tuning

- Using multiple servers
- Large-scale LLM training

Currency prediction service

TRADOM Inc.

Doubled the
model training throughput

Data Center Service

Sakura Internet Inc.

Deploying more AI tasks
beyond hardware limits

Thank you

For more details:

<https://www.fujitsu.com/global/products/computing/servers/supercomputer/topics/sc24/>

