

Benchmarking in the Data Center (BID)

ICPP Workshop Series • Held since 2019

Scope

- Benchmarking methodologies for HPC, AI, cloud, and data-center systems
- Performance analysis, profiling, and optimization
- GPU/accelerator, storage, network, and energy-efficiency benchmarks
- Reproducibility and fair comparison across platforms

Goals

- Foster community exchange between academia, industry, and vendors
- Share best practices and emerging benchmarking tools
- Identify bottlenecks in modern data-center and exascale workloads
- Bridge HPC and AI performance evaluation

Past Locations (Venues & Co-located Events)

Year	Venue / Location	Year	Venue / Location
2019	HPC Asia, Guangzhou, China	2023	PPoPP, Salt Lake City, USA
2020	PPoPP, San Diego, USA	2024	ICPE, London, UK
2021	PPoPP, Virtual	2025	ICPE, Toronto, Canada
2022	PPoPP, Seoul, South Korea	2026	ICPP, Singapore (NTU@One North)

ICPP 2026 BID Workshop Schedule

Morning Session • Talks

Time	Speaker / Session	Title
9:00–9:30	Mr. Jeff Adie (NVIDIA)	Creating an 8PB Weather dataset through GPU-Accelerated Parallel Processing
9:30–10:00	Sandeep (IIT Palakkad)	Enhancing GPU Performance through Optimized Loop Patterns
10:00–10:30	Pengzhi Zhu (HPC-AI Advisory Council)	Invited Talk
<i>10:30–11:00 Morning Break</i>		
11:00–11:30	Luca Lowndes (Monash University)	Less is More: Optimising SGLang Distributed DeepSeek-R1 Inference on a Two-Node H200 Cluster
11:30–12:30	Panel	Panel

ICPP 2026 BID Workshop Schedule (Cont.)

Panel Discussion & Logistics

Panel Discussion (12:00 – 12:30)

- **Topic:** Accelerating the Future: Overcoming Bottlenecks in GPU-Based AI and HPC
- **Moderator:** Dr. Samar Aseeri
- **Panelists:** Jeff Adie (NVIDIA), Sandeep (IIT Palakkad), Pengzhi Zhu (HPC-AI Advisory Council), Luca Lowndes (Monash University)

Workshop Details

- **Location:** NTU@One North, Singapore
- **Date:** 28 September 2026
- **Workshop Page:** <https://parallel.computer>