

ACM, VISAKHAPATNAM

Seminar on GPU Technology

EVENT REPORT

Summary

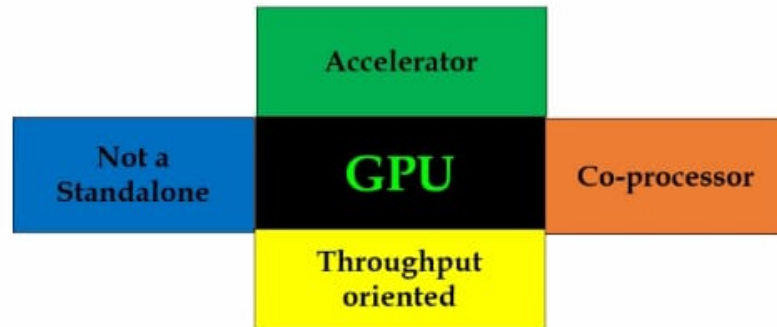
ACM, GITAM in collaboration with VIT CSI has conducted the event "Seminar on GPU Technology". This event is conducted to introduce the concepts of GPU technology and its Architecture, and its use cases in our day to day life. The speaker of the session was Prof. Sandeep Manne. The event also had attendees from other institutions which are a part of the collaboration. The event was organized on 12/12/2021 from 11:00 AM to 12:30 PM, and the participants attended the event in online mode- Microsoft Teams.

The publicity and registrations for the event started two days before the event, and students were sent the event's details through the club's official mail id. A WhatsApp message was also circulated briefing about the event, and all the details of the event were mentioned there. The posters and videos regarding the event were shared on various social media handles such as Instagram and LinkedIn. 116 participants attended the event.

By the end of the event the attendees understood the fundamentals of GPU technology and its Architecture. They were also briefed about the GPU Technology which helps the user in other domains such as Machine Learning, Video Editing and Gaming Applications. Attendees appreciated the event, and the event was a great success.

Photographs

Graphics Processing Unit (GPU)



12-Dec-21

GPUG YIT-AP

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Performance Development

- Intel's 10th generation i5 processors gives 64 GFLOPS to 102.4 GFLOPS performance.
- **Where is India Stands???**
 - Supercomputer at C-DAC Pune is No. 1 in India with peak power of 5267.14TFLOPS
 - Indian Institute of Tropical Meteorology (IITM), Pune - 4006.19TFLOPS
 - National Centre for Medium-Range Weather Forecasting -
 - Indian Institute of Technology, Kharagpur - 1290.2TFLOPS
- The combined supercomputing power of the India is now **26.27 PFLOPS**.

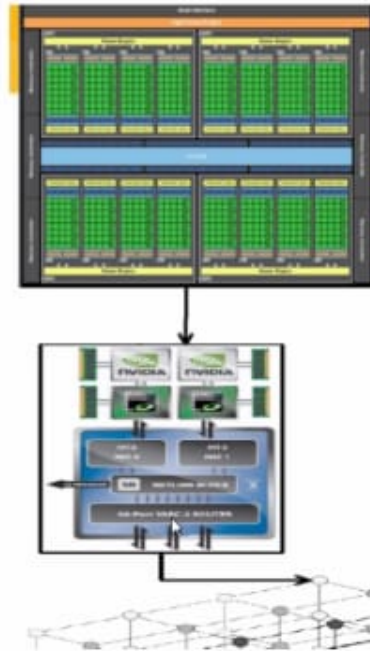
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Accelerated Supercomputer

- Accelerate HPC floating point workloads using GPUs
 - Peak FP performance more than 10x vs. CPU
 - Memory bandwidth more than 20x vs. CPU
 - Extreme parallelism with thousands of threads
- GPUs are accelerators
 - Separate card connected to CPU node via PCI-E bus
 - Has its own very fast memory



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Seminar on GPU Technology

Event Snapshot

EVENT SNAPSHOT	
Event Name:	Seminar on GPU Technology
Organizing Club:	ACM
Event Date:	12/12/2021
Event Time:	11:00 AM to 12:30 PM
Event Mode / Venue:	Online - Microsoft Teams
Social media reach:	Instagram: @gitam_acm LinkedIn: https://www.linkedin.com/company/acm-gitam-association-for-computing-machinery/mycompany/
Registrations:	50 from GITAM
Number of Participants/Attendees:	116
Winners (if any): Name - Regd ID - Email ID	NA
Faculty - Judge - Guest Speaker:	Prof. Sandeep Manne
Event Report Author - Designation:	Guru Charan - Event Manager Lead. Sejal Reddy. - Event Manager. Sravya- Event Manager..