Think Parallel: Parallel Programming for Engineers & Scientists

THINK PARALLEL

30th Jan - 3rd Feb, 2023 @ C-DAC Bangalore

About C-DAC

Centre for Development of Advanced Computing (C-DAC) is the premier R&D organization for the design, development and deployment of world class electronic and IT solutions for economic and human advancement under the aegis of Department of Electronics and Information Technology (DeitY). C-DAC's journey in supercomputing is marked by several landmark achievements - the renowned indigenous design and development of PARAM series of supercomputers in 1980s, GARUDA - Indian National Grid Computing Initiative in 2000s and presently the National Supercomputing Mission with the aim to build capacity and capability in supercomputing for the Nation.

Think Parallel

The demand to create 'parallel programming aware' human resource is well understood. The sea change in IT caused by the advent of multi-many cores makes parallel programming the challenge and life line for hardware, software, algorithms and programming.

Think Parallel is designed as a comprehensive workshop providing the right blend of fundamental and advanced concepts and practical hands-on experience of the state-of-the-art parallel computing technologies. C-DAC Knowledge Park, Bangalore conducts this training by leveraging the expertise of its in-house technical project staff.

This programme will add great value to researchers, engineers, faculty and students who would like to develop applications on modern parallel architectures. It provides detailed know-how of programming the latest hybrid systems, to write more immersive parallel applications that achieve improved performance.

Course Detail

- Advanced Computer Architectures
- Parallel Programming : Design & Paradigms
- Building Compute Clusters
- OpenMP
- Message Passing Interface (MPI)
- Accelerator Programming Overview
- Performance Analysis & Debugging Parallel Programs
- Parallel Application Case Studies
- AI and ML with Tensorflow

Prerequisite:

C/C++ programming with data structures, familiarity with Linux/Unix programming environment and knowledge of python

Course Methodology and Highlights

- Full-time program (8 hrs per day for 5 days)
- Classroom & laboratory sessions by R&D experts
- Extensive demonstrations and assignments
- Relevant case studies and Group Discussions
- Presentation with course proceedings
- Introduction to forthcoming technologies
- Industry interactions/visits

Course Schedule

30th Jan - 03rd Feb, 2023(full time)

Course Fee

Participants	Fee
Industry/Govt. Organizations	Rs.10000
Faculty/Academicians	Rs. 8000
Full-time Student	Rs. 6000

Fees includes training material and refreshments

Contact for attractive group discounts

Participants need to bring their laptops

Registration Procedure

Online registration link:

https://forms.gle/ZSGNytMvFxzcCNmBA

Venue address

C-DAC Knowledge Park

#1, Old Madras Road, Byappanahalli
Bengaluru- 560038
Phones: +91-80-28093400,
+91-80-25093412
Fax: +91-80-25247724

- Seating is limited, hence early registration is strongly encouraged
- Outstation candidates need to arrange their own accommodation

For any queries/assistance write to:

think-parallel@cdac.in

Scan for Brochure

Scan to Register

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