



# Workshop on High Performance Computing

Organized by

Centre for Development of Advanced Computing, Pune

and

Tezpur University, Assam

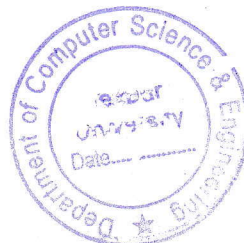
Venue: Tezpur University

Duration: 2 days



March 15, 2017

Time (Hrs)	Lecture/Hands-on Session
09:30 – 10:30	Fundamentals of High Performance Computing
10:30 – 11:20	Overview of PARAM Tez HPC System and Security Aspects
Tea Break - 10 min	
11:30 – 12:00	Overview of Parallel Programming
12:00 – 13:15	Shared Memory Computing with OpenMP
☺☺ Lunch Break - 45 min	
14:00 – 16:00	Lab session: OpenMP Programming
Tea Break - 15 min	
16:00 – 17:30	GPGPU Computing: Overview, Architecture, CUDA Programming Model

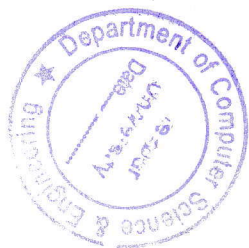


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March 16, 2017

Time (Hrs)	Lecture/Hands-on Session
09:30 – 10:50	Distributed-memory Computing with MPI (Point-to-point, Collective Communication, Advance MPI)
Tea Break – 10 min.	
11:00 – 13:00	Lab session: MPI Programming
Lunch Break - 1 hr.	
14:00 – 14:20	Setting up of Users' Environment (paths of compilers, libraries etc.), installation and execution of HPC Applications
14:20 – 14:45	Cluster Resource Manager and Job Scheduler
14:45 – 15:30	Bash Shell Scripting
15:30 – 16:00	Performance Metrics and Profiling of Codes
Tea Break – 10 min.	
16:10 – 17:30	Computing with Intel Xeon Phi (MIC): Overview, Architecture, Programming Model



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Tezpur University, Assam and Centre for Development of Advanced Computing, Pune

March 15-16, 2017



## Report on Advanced Workshop on HPC and Parallel Programming

The workshop on HPC and Parallel Programming was conducted very successfully for two days during 15-16 March, 2017. Four resource persons from CDAC-Pune, namely Mr. Sandeep Agrawal, Mr. Pravin Pawar, Mr. Krishnan Gopal Gupta and Mr. Deepu C V delivered their contents effectively and the lab sessions were very interactive.

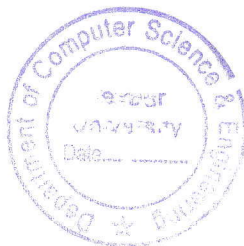
The workshop was attended by a large number of participants from inside as well as from neighbouring institutions. A total of 108 participants of which 14 were from institutions other than Tezpur University (04 from Gauhati University, 02 from Jorhat Engineering College, 06 from Dibrugarh University and 02 from Assam Don Bosco University) attended the workshop.

The feedbacks from the participants were positive and they were keen to use the gained knowledge for use in their respective fields. We are planning to extend the facilities to Dibrugarh University, Jorhat Engg College (Govt) and Guwahati University.

Prof. D.K. Bhattacharyya  
Dept. Of Computer Sc. & Engg.  
Tezpur University.

(D K Bhattacharyya)

Professor, CSE and Dean, AA



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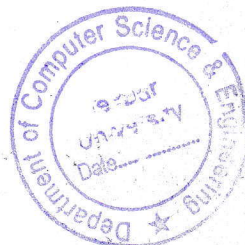
## Workshop on High Performance Computing

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CDAC, Pune and Deptt. of CSE, Tezpur University

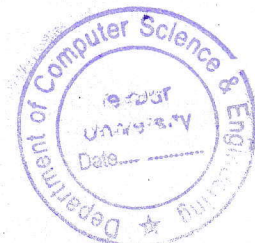
### Participants List

Sl. No.	Names of Participants	Attendance: 15/03/2017	Attendance: 16/03/2017
1	Satyajit Sarmah	P	P
2	Chandan Kalita	P	P
3	Ahidur Zaman	P	P
4	Abdul Hannan	P	P
5	Nupur Choudhury	P	P
6	Smriti Priya Medhi	P	P
7	Ankumon Sarmah	P	P
8	Rizwan Rehman	P	P
9	Rupjyoti Gogoi	P	P
10	Saumay Paul	P	P
11	Prabal pratim borah	P	P
12	Chiranjiv saikia	P	P
13	Rupjyoti Baruah	P	P
14	Biswajit Sarma	P	P
15	Minakhi Saikia	P	P
16	Zubin Bhuyan	P	P
17	Miltan Chowdhury	P	P
18	Rup Kumar Deka	P	P
19	Arina Gogoi	P	P
20	Manas Protim Barman	P	P
21	Bhanu Kumar	P	P
22	Kumar Utkarsh	P	P
23	Bikash Jaiswal	P	P
24	Sanghamitra Nath	P	P
25	Dimbalita Deka	P	P
26	Upasana Sarmah	P	P
27	Parthajit Borah	P	P
28	Pooja Dutta	P	P
29	Nilakshi Devi	P	P
30	Helal Uddin Mullah	P	P
31	Vivek kr Verma	P	P
32	Prakash Das	P	P
33	Durlav Sonowal	P	P
34	Deep Kumar Kuri	P	P
35	Nayan Moni Kakoti	P	P
36	Parashmoni Borah	P	A
37	Hussain Ahmed Chowdhury	P	P
38	Suhasini Hazarika	P	A
39	Pratikshya Bezbaruah	P	P
40	Shobhanjana Kalita	P	P



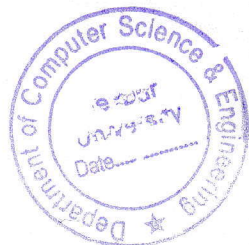
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41	Koyel Mandal	P	P
42	Nazreena Rahman	P	P
43	Parag jyoti Saikia	P	P
44	Sukhen Shil	P	P
45	Kaushal Kumar	P	P
46	Ravi Shankar Kumar	P	P
47	Raaj Tilak Sarma	P	P
48	Kunal Basnet	P	P
49	Ankurjyoti Das	P	P
50	Deepak Mishra	P	P
51	Nabaneet Dutta	P	P
52	Geetika Barman	P	P
53	Preeti Rekha Devi	P	P
54	Barnita Sharma	P	P
55	Piyali Sen	P	P
56	Ranjan Kumar Deka	P	P
57	Annushree Kurmi	P	P
58	Nabasmita Phukan	P	P
59	Jyoti Plaban	P	P
60	Kavya B. Hazarika	P	P
61	Piyush Das	P	P
62	Amit Dutta	P	P
63	Dr. Nand Kishor Gaur	P	P
64	Sanjib Kr. Deka	P	P
65	Bhabesh Deka	P	P
66	Pranita Mahanta	P	P
67	Sukanya Deka	P	P
68	Rupam Bhattacharyya	P	P
69	Shafiul Alom Ahmed	P	P
70	Pallabi Patowary	P	P
71	Indrajit Kalita	P	P
72	Puspendra Pandey	P	P
73	Narendra Yadav	P	P
74	Mohd. Shahnawaz	P	P
75	Kashmiri Baruah	P	P
76	Bhaskar Jyoti Bordalai	P	P
77	Saheen Shehnaz Begum	P	P
78	Satyajit Dey Baruah	P	P
79	Shahnaz Sultana Rohman	P	P
80	Shivane Borpatra Gohain	P	P
81	Prakash Chauhan	P	P
82	Kaushal Bhardwaj	P	P
83	Rajib Goswami	P	P
84	Debashish Das	P	P
85	S.I. Singh	P	P
86	Kalyanee Devi	P	P



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87	Mary Dutta	P	P
88	Shravan Kumar	P	P
89	Bhaskar Sarkar	P	P
90	Hrishikesh Malakar	P	P
91	Arghya Dutta	P	P
92	Debojit Paul	P	P
93	Nikhil Dixit	P	P
94	Ashish Kumar Verma	P	P
95	Jyotirmoy Podder	P	P
96	Rupjyoti Das	P	P
97	Alok Kumar	P	P
98	Nitesh Kumar Mittal	P	P
99	Prabhat Kumar	P	P
100	Bicky Jaiswal	P	P
101	Dr. Rosy Sarmah	P	P
102	Debojit Boro	P	P
103	Angshuman Biswas	P	P
104	Dr. Bhogeswar Borah	P	P
105	Dr. Bhabesh Nath	P	P
106	Arun Chetri	P	P
107	Gautam Das	P	P
108	Dr. Sarat Saharia	P	P



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# Photographs of Workshop on High Performance Computing

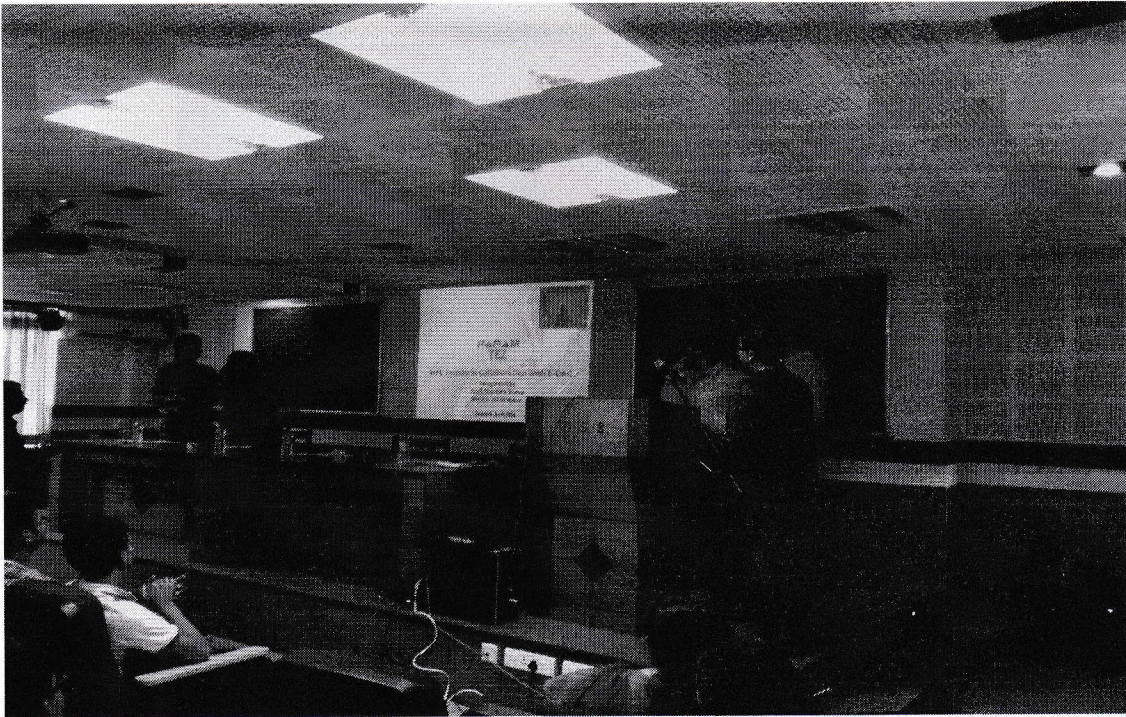


Photo1: Inauguration of the HPCC

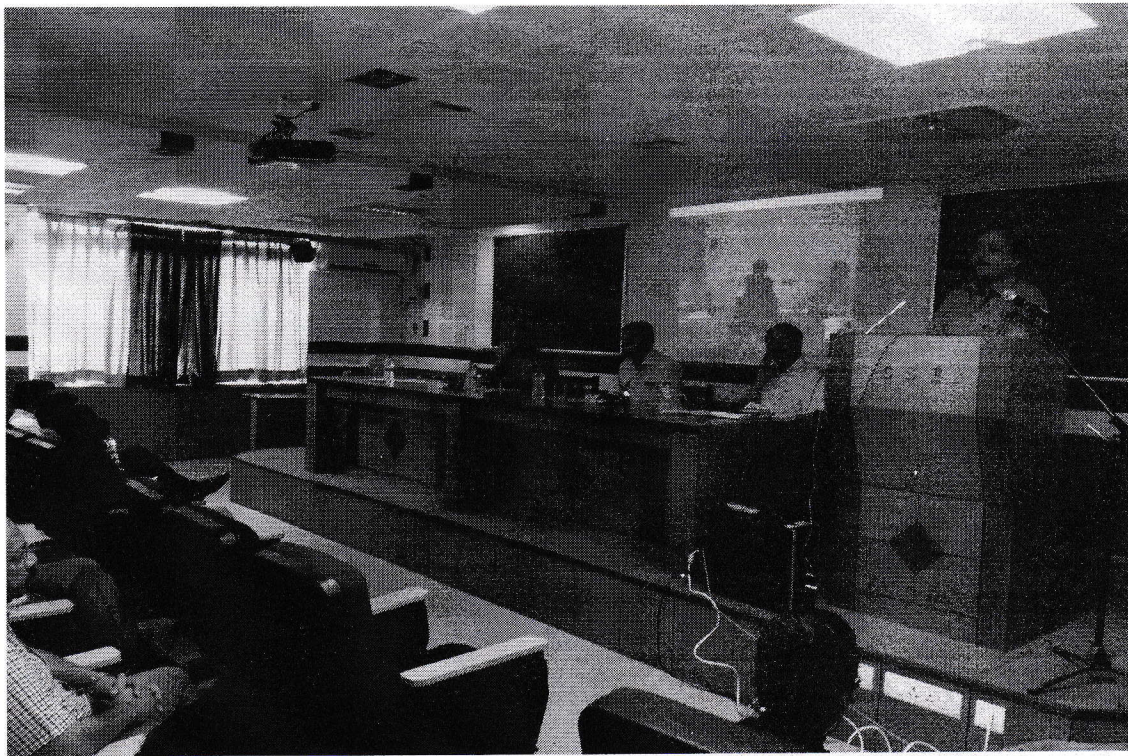
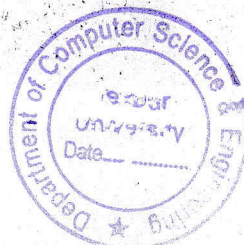


Photo2: Prof. D. K. Bhattacharyya delivering the inauguration lecture



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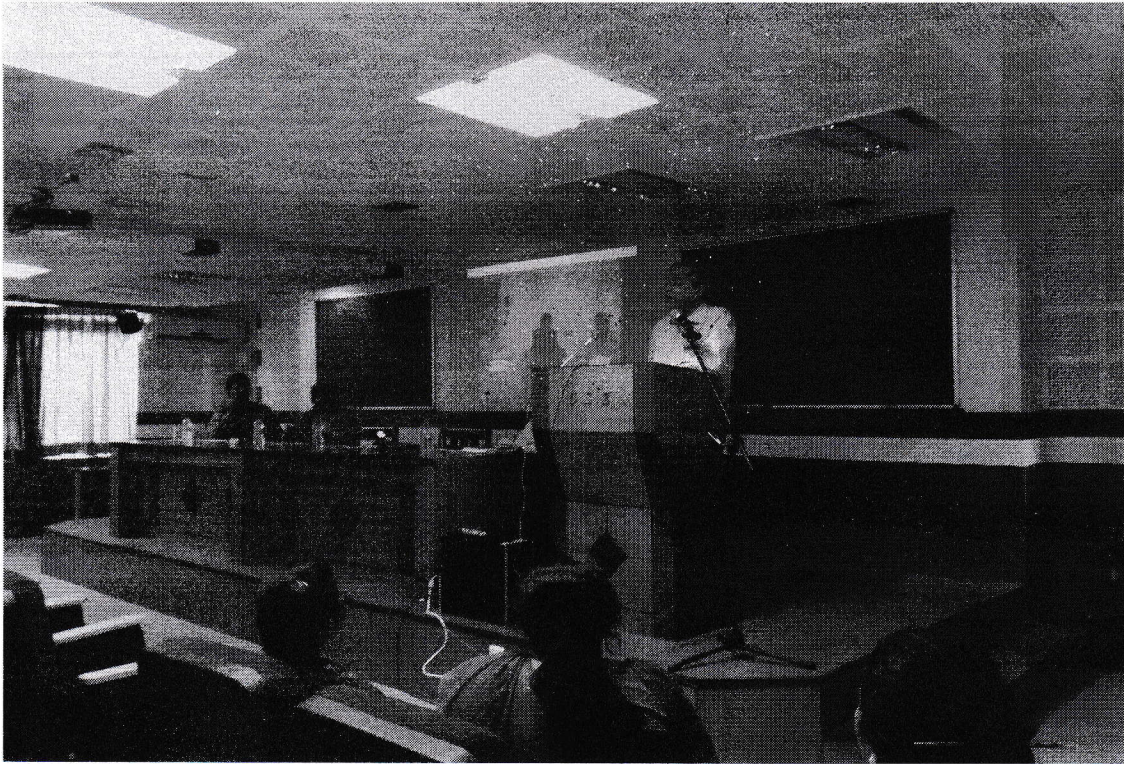
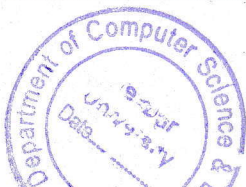


Photo3: Prof. G. Barua, Former Director IITG delivering lecture



Photo4: Participants during the event



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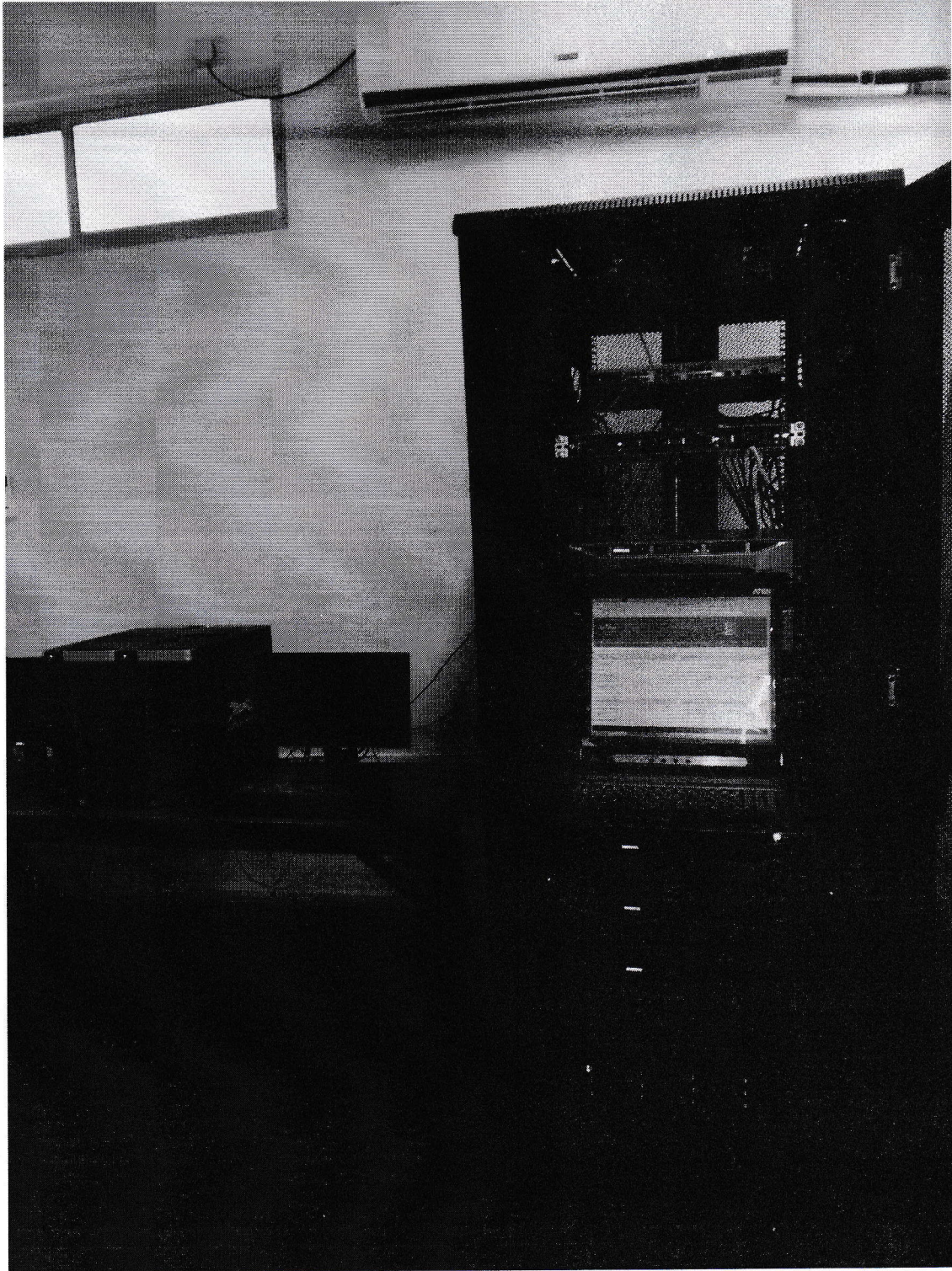
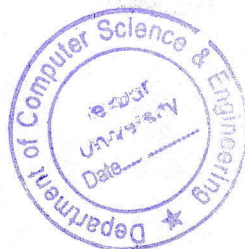


Photo5: HPC PARAM TEZ



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