

The Task Force on Cluster Computing (TFCC)

TFCC 2000 - Annual Report

(Activities since the last TAB meeting in Portland, Nov. 1999)

Rajkumar Buyya and Mark Baker

TFCC Co-Chairs

1. Web Presence

TFCC home page: <http://www.ieeetfcc.org>

Mirror sites:

AU: <http://www.csse.monash.edu.au/~rajkumar/tfcc/>

UK: <http://www.dcs.port.ac.uk/~mab/tfcc/>

US: <http://www-unix.mcs.anl.gov/~buyya/tfcc/>

Web Master: R. Buyya

2. Major TFCC hosted Flagship Conferences and Events

1st IEEE International Workshop/Conference on Cluster Computing (Cluster 1999)

Melbourne, Australia

December 1999

Commercial and industrial sponsorship: HP, MPI-SoftTech, Compaq, Sun, ATIP, Genias, Monash, and DSTC.

2nd IEEE International Conference on Cluster Computing (Cluster 2000)

Details at <http://www.clustercomp.org>

Chemnitz, Germany, Nov 28-Dec. 1, 2000

Commercial and industrial sponsorship: Intel, Compaq, Dolphin, API, MPI SoftTech, Agilent, Synaps, Suse, TBZ-PARIV, NSF-Germany, and Fujitsu-Siemens.

1st IEEE/ACM International Workshop on Grid Computing (Grid 2000)

<http://www.gridcomputing.org>

Bangalore, India, December 17, 2000

Commercial and industrial sponsorship: C-DAC India, Gridware/Sun, Microsoft Research.

1st IEEE/ACM/SIAM International Symposium on Cluster Computing and the Grid (CCGrid 2001)

<http://www.ccgrid.org>

Brisbane, Australia, May 14-17, 2000

Commercial and industrial sponsorship: Platform, APAC, Intel, MPI-SoftTech, Sun, IBM, and Akamai,

3rd IEEE International Conference on Cluster Computing (Cluster 2001)

Details at <http://www.clustercomp.org>

Newport Beach, California, October 8-11, 2001

Other Meetings

Birds of a Feather meeting at SC2000,

Cluster Computing and the IEEE Task Force on Cluster Computing

Dallas, Texas, <http://www.sc2000.org/>,

Wednesday 8th November 2000

3. Book Donation Program

<http://www.ieeetfcc.org/edupromote.html>

Over 500 copies of books have been donated to faculties all over the world as part of Cluster Computing education promotion program in co-operation with many international publishers and authors.

4. TFCC New (Biannual) Letter – April-Oct and Nov-March issues

<http://www.eg.bucknell.edu/~hyde/tfcc/>

5. ACM/LANL CoRR and TFCC – Cluster Computing Archive

<http://www.ieeetfcc.org/ClusterArchive.html>

Computing Research Repository (CoRR) on Cluster Computing is an initiative of the TFCC in collaboration with the ACM, the Los Alamos e-Print archive, and NCSTRL (Networked Computer Science Technical Reference Library). The aim CoRR e-Print Archive is to promote science and technology by providing a information store house that is accessible to colleagues all over the world. This Internet-based digital library has been mirrored in many countries around the world to enable faster access to wealth of information.

This archive operates as part of the subject area called:

Distributed, Parallel, and Cluster Computing

Moderators: Rajkumar Buyya (Monash University) and Tushar Chandra (IBM)

6. TFCC Body of Knowledge

- M.A. Baker (ed), A Whitepaper on Cluster Computing, submitted to the International Journal of High-Performance Applications and Supercomputing, April 2000, <http://www.dcs.port.ac.uk/~mab/tfcc/WhitePaper/>
- Isfaq Ahmad, Cluster Computing: A glance at recent activities, IEEE Concurrency, Jan.-March, 2000.
- M. Baker, R. Buyya, K. Hawick, H. James, and H. Jin, Cluster Computing R&D in Australia, , Asian Technology Information Program (ATIP), Japan/USA, April, 2000.

7. TFCCs presence in many regions of the World.

We have TFCC regional co-ordinators for Australia, Europe, US, India, Japan, Canada, South America, Africa, Hong Kong, China, Taiwan, Thailand, Israel, and MiddleEast. Each of these co-ordinators maintain their own TFCC regional Websites

8. TFCC Awards

We have presented volunteer services awards to TFCC newsletter editor and our first annual conference registration chair.

We will be awarding two best student paper awards in CCGrid 2001 symposium.

9. New Volunteers

Vice Chairs – Jack Dongarra (UTK, and ORNL) and Greg Pfister (IBM)

10. TOP500 and TFCC Initiative on World's TopClusters List

<http://www.TopClusters.org>

Numeric, I/O, Web, Database, and Application level benchmarking of clusters.

11. TFCC oriented talks and tutorials

Talks

- Current and Emerging Trends in Cluster Computing, NAG Annual Seminar, Oxford University, September 21st 2000
- Grid Computing, IEEE France Section, Paris, France, Sept. 4, 2000.
- Cluster Computing: The Promise of Supercomputing to the average PC User, IEEE Victorian Section, Melbourne, Australia, August 21, 2000.
- Recent Trends in Cluster Computing and an Overview of International GRID Projects, Invited Seminar, Physics Dept, University of Liverpool, 17th May 2000.
- Message Passing with Java and the TFCC, Invited Seminar, Computer Science Dept, Cardiff University, Cardiff, March 2000.
- TFCC Activities – A Panel on Global Initiatives on Cluster Computing, 2nd Intl. Workshop on Global and Cluster Computing, Japan, March 15-17, 2000.
- Cluster Computing: A COTS Solution for Providing HPC Capabilities, Invited lecture, Institute of Physics, Rutherford Conference Centre, London, February 2000.

Tutorials

1. High Performance Cluster Computing, The 27th International Symposium on Computer Architecture (ISCA 2000), Vancouver, British Columbia, Canada, June 12-14, 2000.
2. Hot Topics in Cluster Computing and the Grid, Euro-Par 2000, Technical University of Munich (TUM), Germany, 29th August – 1st September, 2000
3. Current and Emerging Trends in Cluster Computing, SC2000, Dallas, Texas, USA, 4th – 10th, November 2000
4. Current and Emerging Trends in Cluster Computing, Cluster 2000, Technische Universität Chemnitz, Saxony, Germany, November 28th – December 2nd, 2000
5. Cluster Computing. 8th International Conference on Advanced Computing and Communications, December 14-16, 2000, Cochin, India

12. TFCC Members

- Over 200? Registered members with the CS directly.
- 450 on the TFCC–Open Discussion Forum