

More information

Examination

Written exam based on:

- ★ Reader (without paper 12 by Marsland and Campbell)
- ★ Awari paper
- ★ Lectures

More information about the course (slides, recommended books):

<http://www.cs.vu.nl/~bal/college02.html>

Parallel programming research at VU (1)

- Orca parallel language and system
- Communication software for high-speed networks (LFC)
- Parallel game tree search (Multigame, TDS, Awari)
- Wide-area parallel computing (DAS and DAS-2)
 - ★ Application performance
 - ★ MagPle: MPI collective operations
 - ★ Satin: divide and conquer parallelism

Parallel programming research at VU (2)

- Parallel computing in Java
 - ★ Fast Remote Method Invocation
 - ★ Object replication, collective communication
- Cooperation with Physics
 - ★ Parallel applications
 - ★ Interactive applications (tiled video wall)

Examples finished M.Sc. thesis projects (1)

Systems research

Porting the Orca system to the IBM SP/2

Fast Java Remote Method Invocation on Myrinet

Parallel applications

Ion recombination (Physics)

Corneatopography (Physics + Medicine)

Raytracing, DNA sequence comparison, Barnes-Hut, Checkers,

Examples finished M.Sc. thesis projects (2)

Wide-area applications

Performance of parallel programs on wide-area DAS

Projects together with Physics

Parallel rendering for tiled video walls

Interaction with robots

New Projects

Ibis: a Java-based grid programming environment

- Java/RMI applications for Grids
- Fault tolerance

Applications in Bioinformatics

More information about MSc projects

<http://www.cs.vu.nl/cs/masters.html>