FIIT Grid - Distributed Computing @ FIIT



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FIIT Grid

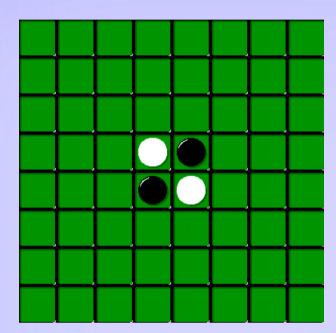


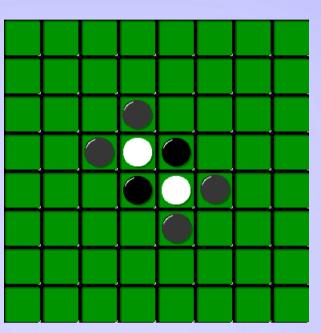
The goal of this project was setting up BOINC server to be used for educational and research purposes. Researchers will be able to easily test their own algorithms distributed way.

Obtained skills are transformed into materials for university researchers, which are in need for greater computing performance for their own projects.

team12-13.ucebne.fiit.stuba.sk/wiki

Reversi aka Othello





A strategy board game for two players, played on an 8×8 uncheckered board. Each of the disks' two sides corresponds to one player. Black starts.

Size 6×6

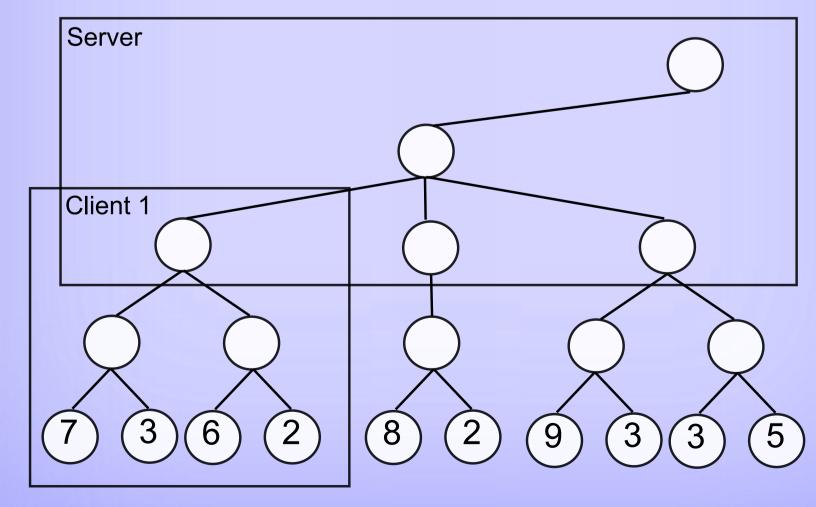
10¹¹legal positions

Solved on one computer using min-max method.

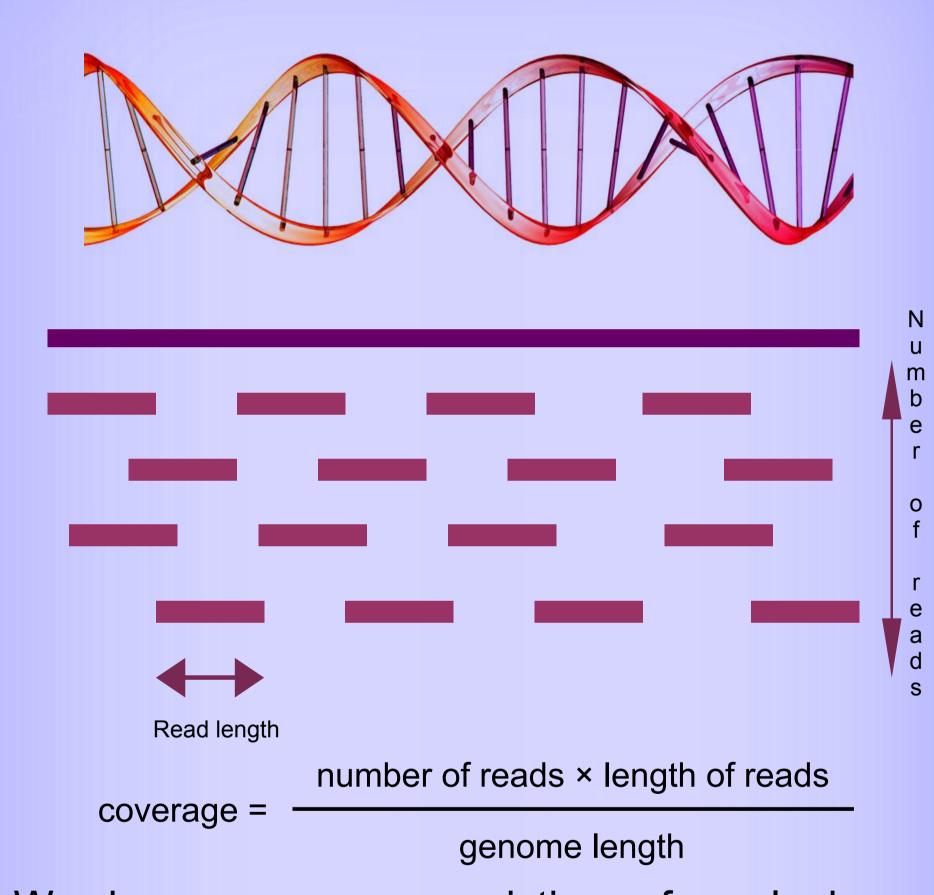
Result: White wins +4 margin

Size 8×8

10²⁸ legal positions, game-tree complexity 10⁵⁸ unsolved, computer analysis shows a likely draw.



DNA



We have genome consisting of nucleobases accgcttacacgctttac. The question is, how many times must be the sequence cgctt present in read fragments to determine the original number of sequences in reference genome for given read length, error model and coverage?

Long journey consisting of simulations, statistics and distributed computing.