

INSTALATION AND RUNNING WQMC

This ReadME file describes the installation and the usage of the wQMC software. The software generates a phylogenic tree using the Weighted Quartet MaxCut Algorithm.

The theoretic background for this algorithm is given in the article:

Weighted Quartets Phylogenetics.

This version is compiled under x86_64 GNU/Linux

Ubuntu 10.04.4 LTS

Input/Output file formats:

The algorithm can get as input a file with weighted quartets or with unweighted quartets.

The format of a quartet in an unweighted quartets file is a,b|c,d where a,b,c,d are integers. The quartets are separated by spaces.

The format of a quartet in a weighted quartets file is a,b|c,d:W where a,b,c,d are integers and W is a fixed point real number. The quartets are separated by spaces.

The output is a tree file that is given in the Newick format. The tree is non weighted.

Examples of input and output files are supplied with the tar file.

Running the software:

Command: max-cut-tree qrtt=<input quartets file name> weights=on/off otre=<output tree name>.

When the given input quartets file includes weighted quartets, the weights parameter should be on for the weights to take effect.