

- Option to do several randomized tree searches on a fixed starting tree.
- Options for sequence-similarity-based alignment size red

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function on a finite machine we will unavoidably obtain round


```
[-y]  
[-z multipleTreesFile]  
[-# numberOfRuns]
```


-f m: RAxML will compare bipartitions between two bunches of trees passed via -t and -z respectively. The program will return the Pearson correlation between all bipartitions found in the two tree files. A file called RAxML_bi parti ti on Frequenci es. outpu Fi l e Nam 5 -11. 8801 Td [() -5. 6477 (m 5 -11. 8801 Td [353 T bi parti ti on freen d s Exampl :

Specify a threshold for sequence similarity clustering. RAxML will then print out an alignment to a file called

-m PROTCATmatrixName[F]:

Specify a random number seed for the parsimony inferences. This allows you and others to reproduce your results (reproducible/verifiable experiments) and will help me debug the program. This option **HAS NO EFFECT in the parallel MPI version.**

Example: raxml HPC -s alg -m GTRGAMMA -p 12345 -n TEST.

-q multipleModelFileName

This allows you to specify the regions of your alignment for which an individual model of nucleotide substitution should be estimated. This will typically be useful to infer trees for long (in terms of base-pairs) multi-gene alignments. If, e.g., -m GTRGAMMA is used, individual -shape parameters, GTR-rates, and empirical base frequencies will be estimated and optimized for each partition. **IMPORTANT**

RAXML

Example: `raxmlHPC -s alg -m GTRGAMMA -q part -n TEST.`

`-r constraintFileName`

If you want to only compute a randomized parsimony starting tree with RAxML and not execute an ML analysis of the tree specify -y

Here, we use the GTRMIX model, i.e. inference under GTRCAT and evaluation of the final tree under GTRGAMMA such that we can compare the final likelihoods for the different F10-F14 and the automatically determined setting

in his very good GARLI code (

