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# --cite                               :show the Trinity literature citation
#
# --version                             :reports Trinity version (BLEEDING_EDGE) and exits.
#
#####
# Inchworm and K-mer counting-related options: #####
#
# --min_kmer_cov <int>                 :min count for K-mers to be assembled by
#                                       Inchworm (default: 1)
# --inchworm_cpu <int>                 :number of CPUs to use for Inchworm, default is min(6,
--CPU option)
#
# --no_run_inchworm                    :stop after running jellyfish, before inchworm.
#
#####
# Chrysalis-related options: #####
#
# --max_reads_per_graph <int>          :maximum number of reads to anchor within
#                                       a single graph (default: 200000)
# --no_run_chrysalis                   :stop Trinity after Inchworm and before
#                                       running Chrysalis
# --no_run_quantifygraph               :stop Trinity just before running the
#                                       parallel QuantifyGraph computes, to
#                                       leverage a compute farm and massively
#                                       parallel execution..
#
# --chrysalis_output <string>          :name of directory for chrysalis output (will be
#                                       created if it doesn't already exist)
#                                       default( "chrysalis" )
#
# --no_bowtie                           :dont run bowtie to use pair info in chrysalis
clustering.
#
#####
### Butterfly-related options: ###
#
# --bfly_opts <string>                 :additional parameters to pass through to butterfly
#                                       (see butterfly options: java -jar Butterfly.jar ).
#                                       (note: only for expert or experimental use. Commonly
used parameters are exposed through this Trinity menu here).
#
# //////////////////////////////////////
# Alternative reconstruction modes:
#                                       Default mode is the 'regular' Butterfly transcript
reconstruction by graph node extension.
#
# --PasaFly                             PASA-like algorithm for maximally-supported isoforms
(conservative reconstructions, fewer isoforms)
# or
# --CuffFly                             Cufflinks-like algorithm to report minimum transcripts
(fewest isoforms)
#
# Butterfly read-pair grouping settings (used for all reconstruction modes to define
'pair paths'):
#
# --group_pairs_distance <int>         :maximum length expected between fragment pairs
(default: 500)
#                                       (reads outside this distance are treated as single-
end)

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#
# ///////////////////////////////////////////////////////////////////
# Butterfly default reconstruction mode settings. (no Cuffly or PasaFly custom settings
# are currently available).
#
# --path_reinforcement_distance <int> :minimum overlap of reads with growing transcript
#                                     path (default: PE: 75, SE: 25)
#                                     Set to 1 for the most lenient path extension
# requirements.
#
# --triplet_lock                       : (increase stringency of regular butterfly
# reconstruction)
#                                     lock triplet-supported nodes: node 'c' having read path
# 'A-B-C' disables 'Z-B-C' if no such read support exists.
#
# --extended_lock                      : (further increase the stringency of regular butterfly
# reconstruction)
#                                     extend the triplet lock to include longer range read
# path information.
#                                     ex. in extending path 'A-B-Z' to 'A-B-Z-D', we only
# find read support for 'A-B-C-D', that 'A-B-Z' extension to 'D' will be blocked.
#                                     (assumes --triplet_lock)
#
# ///////////////////////////////////////////////////////////////////
# Butterfly transcript reduction settings:
#
# --no_path_merging                   : all transcript candidates are output (including SNP
# variations, however, some SNPs may be unphased)
#
# By default, alternative transcript candidates are merged (in reality, discarded) if
# they are found to be too similar, according to the following logic:
#
# (identity=(numberOfMatches/shorterLen) > 95.0% or if we have <= 2 mismatches) and if we
# have internal gap lengths <= 10
#
# with parameters as:
#
# --min_per_id_same_path <int>        default: 95    min percent identity for two
# paths to be merged into single paths
# --max_diffs_same_path <int>         default: 2      max allowed differences
# encountered between path sequences to combine them
# --max_internal_gap_same_path <int>   default: 10    maximum number of internal
# consecutive gap characters allowed for paths to be merged into single paths.
#
# If, in a comparison between two alternative transcripts, they are found too
# similar, the transcript with the greatest cumulative
# compatible read (pair-path) support is retained, and the other is discarded.
#
# ///////////////////////////////////////////////////////////////////
# Butterfly Java and parallel execution settings.
#
# --bflyHeapSpaceMax <string>         :java max heap space setting for butterfly
#                                     (default: 10G) => yields command
#                                     'java -Xmx10G -jar Butterfly.jar ... $bfly_opts'
# --bflyHeapSpaceInit <string>        :java initial hap space settings for
# butterfly (default: 1G) => yields command
#                                     'java -Xms1G -jar Butterfly.jar ... $bfly_opts'
# --bflyGCThreads <int>               :threads for garbage collection
#                                     (default, not specified, so java decides)

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# --bflyCPU <int>                :CPUs to use (default will be normal
#                                number of CPUs; e.g., 2)
# --bflyCalculateCPU              :Calculate CPUs based on 80% of max_memory
#                                divided by maxbflyHeapSpaceMax
# --no_run_butterfly              :stops after the Chrysalis stage. You'll
#                                need to run the Butterfly computes
#                                separately, such as on a computing grid.
#                                Then, concatenate all the Butterfly assemblies by running:
#                                'find trinity_out_dir/ -name "*allProbPaths.fasta"
#                                -exec cat {} + > trinity_out_dir/Trinity.fasta'
#
#####
# Grid-computing options: #####
#
# --grid_computing_module <string> : Perl module in /Users/bhaas/SVN/trinityrnaseq/
trunk/PerlLibAdaptors/
#                                that implements 'run_on_grid()'
#                                for naively parallel cmds. (eg.
'BroadInstGridRunner')
#
#
#####
# *Note, a typical Trinity command might be:
#   Trinity.pl --seqType fq --JM 100G --left reads_1.fq --right reads_2.fq --CPU 6
#
#   see: /Users/bhaas/SVN/trinityrnaseq/trunk/sample_data/test_Trinity_Assembly/
#         for sample data and 'runMe.sh' for example Trinity execution
#   For more details, visit: http://trinityrnaseq.sf.net
#
#####

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