NAME

sacabench − manual page for sacabench 1.0

SYNOPSIS

sacabench [*OPTIONS*] *SUBCOMMAND*

DESCRIPTION

CLI for SACABench.

OPTIONS

−h,−−help
: Print this help message and exit

Subcommands:

list
: List all implemented algorithms.

construct
: Construct a SA.

demo
: Run all algorithms on an example string.

batch
: Measure runtime and memory usage for all algorithms.

plot
: Plot measurements.

SEE ALSO

sacabench list(1), **sacabench construct**(1), **sacabench demo**(1), **sacabench batch**(1), **sacabench plot**(1)

NAME

sacabench list − manual page for sacabench list 1.0

SYNOPSIS

sacabench *list* [*OPTIONS*]

DESCRIPTION

List all implemented algorithms.

OPTIONS

−h,−−help
: Print this help message and exit

−n,−−no−description
: Don’t show a description for each algorithm.

−j,−−json
: Output list as an json array

SEE ALSO

sacabench(1)

NAME

sacabench construct − manual page for sacabench construct 1.0

SYNOPSIS

sacabench *construct* [*OPTIONS*] *algorithm input*

DESCRIPTION

Construct a SA.

Positionals:

algorithm TEXT REQUIRED
: Which algorithm to run.

input TEXT REQUIRED
: Path to input file, or − for STDIN.

OPTIONS

−h,−−help
: Print this help message and exit

−−config TEXT
: Read an config file for CLI args

−c,−−check
: Check the constructed SA.

−q,−−fastcheck
: Check the constructed SA with a faster, parallel algorithm.

−b,−−benchmark TEXT
: Record benchmark and output as JSON. Takes path to output file, or − for STDOUT

−J,−−json TEXT
: Output SA as JSON array. Takes path to output file, or − for STDOUT.

−B,−−binary TEXT
: Output SA as binary array of unsigned integers, with a 1 Byte header describing the number of bits used for each integer. Takes path to output file, or − for STDOUT.

−F,−−fixed UINT Needs: **−−binary**
: Elide the header, and output a fixed number of bits per SA entry

−p,−−prefix TEXT
: Calculate SA of prefix of size TEXT.

−f,−−force
: Overwrite existing files instead of raising an error.

−m,−−minimum_sa_bits UINT=32
: The lower bound of bits to use per SA entry during construction

−r,−−repetitions UINT=1
: The value indicates the number of times the SACA(s) will run. A larger number will possibly yield more accurate results

−z,−−rplot Needs: **−−benchmark**
: Plots measurements with R.

−−latexplot Needs: **−−benchmark**
: Plots measurements with LaTex and SqlPlotTools.

−s,−−sysinfo Needs: **−−benchmark**
: Add system information to benchmark output.

SEE ALSO

sacabench(1)

NAME

sacabench batch − manual page for sacabench batch 1.0

SYNOPSIS

sacabench *batch* [*OPTIONS*] *input*

DESCRIPTION

Measure runtime and memory usage for all algorithms.

Positionals:

input TEXT REQUIRED
: Path to input file, or − for STDIN.

OPTIONS

−h,−−help
: Print this help message and exit

−−**config** TEXT
: Read an config file for CLI args

−c,−−check
: Check the constructed SA.

−q,−−fastcheck
: Check the constructed SA with a faster, parallel algorithm.

−b,−−benchmark TEXT
: Record benchmark and output as JSON. Takes path to output file, or − for STDOUT

−f,−−force
: Overwrite existing files instead of raising an error.

−m,−−minimum_sa_bits UINT=32
: The lower bound of bits to use per SA entry during construction

−p,−−prefix TEXT
: calculate SA of prefix of input.

−r,−−repetitions UINT=1
: The value indicates the number of times the SACA(s) will run. A larger number will possibly yield more accurate results

−−**whitelist** TEXT ... Excludes: −−**blacklist**
: Execute only specific algorithms

−−**blacklist** TEXT ... Excludes: −−**whitelist**
: Blacklist algorithms from execution

−z,−−rplot Needs: −−**benchmark**
: Plots measurements with R.

−−**latexplot** Needs: −−**benchmark**
: Plots measurements with LaTex and SqlPlotTools.

−s,−−sysinfo Needs: −−**benchmark**
: Add system information to benchmark output.

SEE ALSO

sacabench(1)

NAME

sacabench demo − manual page for sacabench demo 1.0

SYNOPSIS

sacabench *demo* [*OPTIONS*]

DESCRIPTION

Run all algorithms on an example string.

OPTIONS

−h,−−help

Print this help message and exit

SEE ALSO

sacabench(1)

NAME

sacabench plot − manual page for sacabench plot 1.0

SYNOPSIS

sacabench *plot* [*OPTIONS*] *benchmark_file*

DESCRIPTION

Plot measurements.

Positionals:

benchmark_file TEXT REQUIRED
: Path to benchmark json file.

OPTIONS

−h,−−help
: Print this help message and exit

SEE ALSO

sacabench(1)