



Processing subset\_10.fasta with delta

string length n = 303706

delta = 6151

delta\_{<=K} (with K = 0) = 0

ratio n/delta = 49.3678

argmax\_k(d\_k/k) = 10

length of longest repeated substring = 9908

Command being timed: "delta subset\_10.fasta echo Processing subset\_10.fasta with delta-stream"

User time (seconds): 0.08

System time (seconds): 0.00

Percent of CPU this job got: 24%

Elapsed (wall clock) time (h:mm:ss or m:ss): 0:00.35

Average shared text size (kbytes): 0

Average unshared data size (kbytes): 0

Average stack size (kbytes): 0

Average total size (kbytes): 0

Maximum resident set size (kbytes): 12276

Average resident set size (kbytes): 0

Major (requiring I/O) page faults: 11

Minor (reclaiming a frame) page faults: 2640

Voluntary context switches: 783

Involuntary context switches: 1

Swaps: 0

File system inputs: 2040

File system outputs: 0

Socket messages sent: 0

Socket messages received: 0

Signals delivered: 0

Page size (bytes): 4096

Exit status: 0

Selected prime number, q = 19588819345623137

Number of sampled lengths: 53

Stream length = 303706

delta = 6031.12

argmax\_k = 9

Command being timed: "delta-stream -s -o output\_subset\_10.fasta"

User time (seconds): 0.79

System time (seconds): 0.01

Percent of CPU this job got: 84%

Elapsed (wall clock) time (h:mm:ss or m:ss): 0:00.94

Average shared text size (kbytes): 0

Average unshared data size (kbytes): 0

Average stack size (kbytes): 0

Average total size (kbytes): 0

Maximum resident set size (kbytes): 5976

Average resident set size (kbytes): 0

Major (requiring I/O) page faults: 2

Minor (reclaiming a frame) page faults: 822

Voluntary context switches: 576

Involuntary context switches: 2

Swaps: 0

File system inputs: 456

File system outputs: 0

Socket messages sent: 0

Socket messages received: 0

Signals delivered: 0

Page size (bytes): 4096

Exit status: 0

Processing subset\_100.fasta with delta

string length n = 3036801

delta = 13870

delta\_{<=K} (with K = 0) = 0

ratio n/delta = 218.942

argmax\_k(d\_k/k) = 11

length of longest repeated substring = 30286

Command being timed: "delta subset\_100.fasta echo Processing subset\_100.fasta with delta-stream"

User time (seconds): 0.62

System time (seconds): 0.04

Percent of CPU this job got: 47%

Elapsed (wall clock) time (h:mm:ss or m:ss): 0:01.39

Average shared text size (kbytes): 0

Average unshared data size (kbytes): 0

Average stack size (kbytes): 0

Average total size (kbytes): 0

Maximum resident set size (kbytes): 27840

Average resident set size (kbytes): 0

Major (requiring I/O) page faults: 7

Minor (reclaiming a frame) page faults: 3277

Voluntary context switches: 1817

Involuntary context switches: 2

Swaps: 0

File system inputs: 1368

File system outputs: 0

Socket messages sent: 0

Socket messages received: 0

Signals delivered: 0

Page size (bytes): 4096

Exit status: 0

Selected prime number, q = 22153505209819649

Number of sampled lengths: 53

Stream length = 3036801

delta = 13705.1

argmax\_k = 12

Command being timed: "delta-stream -s -o output\_subset\_100.fasta"

User time (seconds): 8.51

System time (seconds): 0.02

Percent of CPU this job got: 94%

Elapsed (wall clock) time (h:mm:ss or m:ss): 0:09.01

Average shared text size (kbytes): 0

Average unshared data size (kbytes): 0

Average stack size (kbytes): 0

Average total size (kbytes): 0

Maximum resident set size (kbytes): 6008

Average resident set size (kbytes): 0

Major (requiring I/O) page faults: 2

Minor (reclaiming a frame) page faults: 822

Voluntary context switches: 1242

Involuntary context switches: 8

Swaps: 0

File system inputs: 456

File system outputs: 0

Socket messages sent: 0

Socket messages received: 0

Signals delivered: 0

Page size (bytes): 4096

Exit status: 0

Processing subset\_1000.fasta with delta

string length n = 30350061

delta = 42344

delta\_{<=K} (with K = 0) = 0

ratio n/delta = 716.742

argmax\_k(d\_k/k) = 58

length of longest repeated substring = 30409

Command being timed: "delta subset\_1000.fasta echo Processing subset\_1000.fasta with delta-stream"

User time (seconds): 9.77

System time (seconds): 0.43

Percent of CPU this job got: 58%

Elapsed (wall clock) time (h:mm:ss or m:ss): 0:17.43

Average shared text size (kbytes): 0

Average unshared data size (kbytes): 0

Average stack size (kbytes): 0

Average total size (kbytes): 0

Maximum resident set size (kbytes): 211520

Average resident set size (kbytes): 0

Major (requiring I/O) page faults: 7

Minor (reclaiming a frame) page faults: 5323

Voluntary context switches: 12996

Involuntary context switches: 7

Swaps: 0

File system inputs: 1368

File system outputs: 0

Socket messages sent: 0

Socket messages received: 0

Signals delivered: 0

Page size (bytes): 4096

Exit status: 0

Selected prime number, q = 23449324212626971

Number of sampled lengths: 53

Stream length = 30350061

delta = 42424.1

argmax\_k = 57

Command being timed: "delta-stream -s -o output\_subset\_1000.fasta"

User time (seconds): 72.23

System time (seconds): 0.20

Percent of CPU this job got: 93%

Elapsed (wall clock) time (h:mm:ss or m:ss): 1:17.86

Average shared text size (kbytes): 0

Average unshared data size (kbytes): 0

Average stack size (kbytes): 0

Average total size (kbytes): 0

Maximum resident set size (kbytes): 5948

Average resident set size (kbytes): 0

Major (requiring I/O) page faults: 2

Minor (reclaiming a frame) page faults: 823

Voluntary context switches: 7910

Involuntary context switches: 7

Swaps: 0

File system inputs: 456

File system outputs: 0

Socket messages sent: 0

Socket messages received: 0

Signals delivered: 0

Page size (bytes): 4096

Exit status: 0

Processing subset\_5.fasta with delta

string length n = 151947

delta = 4474

delta\_{<=K} (with K = 0) = 0

ratio n/delta = 33.9589

argmax\_k(d\_k/k) = 9

length of longest repeated substring = 8508

Command being timed: "delta subset\_5.fasta echo Processing subset\_5.fasta with delta-stream"

User time (seconds): 0.04

System time (seconds): 0.01

Percent of CPU this job got: 19%

Elapsed (wall clock) time (h:mm:ss or m:ss): 0:00.29

Average shared text size (kbytes): 0

Average unshared data size (kbytes): 0

Average stack size (kbytes): 0

Average total size (kbytes): 0

Maximum resident set size (kbytes): 11904

Average resident set size (kbytes): 0

Major (requiring I/O) page faults: 7

Minor (reclaiming a frame) page faults: 2195

Voluntary context switches: 734

Involuntary context switches: 0

Swaps: 0

File system inputs: 1368

File system outputs: 0

Socket messages sent: 0

Socket messages received: 0

Signals delivered: 0

Page size (bytes): 4096

Exit status: 0

Selected prime number, q = 22939756524004319

Number of sampled lengths: 53

Stream length = 151947

delta = 4500.85

argmax\_k = 9

Command being timed: "delta-stream -s -o output\_subset\_5.fasta"

User time (seconds): 0.36

System time (seconds): 0.00

Percent of CPU this job got: 73%

Elapsed (wall clock) time (h:mm:ss or m:ss): 0:00.48

Average shared text size (kbytes): 0

Average unshared data size (kbytes): 0

Average stack size (kbytes): 0

Average total size (kbytes): 0

Maximum resident set size (kbytes): 5928

Average resident set size (kbytes): 0

Major (requiring I/O) page faults: 2

Minor (reclaiming a frame) page faults: 823

Voluntary context switches: 539

Involuntary context switches: 2

Swaps: 0

File system inputs: 456

File system outputs: 0

Socket messages sent: 0

Socket messages received: 0

Signals delivered: 0

Page size (bytes): 4096

Exit status: 0

Processing subset\_50.fasta with delta

string length n = 1519208

delta = 8865

delta\_{<=K} (with K = 0) = 0

ratio n/delta = 171.356

argmax\_k(d\_k/k) = 10

length of longest repeated substring = 15687

Command being timed: "delta subset\_50.fasta echo Processing subset\_50.fasta with delta-stream"

User time (seconds): 0.40

System time (seconds): 0.02

Percent of CPU this job got: 47%

Elapsed (wall clock) time (h:mm:ss or m:ss): 0:00.89

Average shared text size (kbytes): 0

Average unshared data size (kbytes): 0

Average stack size (kbytes): 0

Average total size (kbytes): 0

Maximum resident set size (kbytes): 14368

Average resident set size (kbytes): 0

Major (requiring I/O) page faults: 7

Minor (reclaiming a frame) page faults: 4087

Voluntary context switches: 1235

Involuntary context switches: 1

Swaps: 0

File system inputs: 1368

File system outputs: 0

Socket messages sent: 0

Socket messages received: 0

Signals delivered: 0

Page size (bytes): 4096

Exit status: 0

Selected prime number, q = 20675780546077117

Number of sampled lengths: 53

Stream length = 1519208

delta = 8650.64

argmax\_k = 12

Command being timed: "delta-stream -s -o output\_subset\_50.fasta"

User time (seconds): 3.48

System time (seconds): 0.03

Percent of CPU this job got: 92%

Elapsed (wall clock) time (h:mm:ss or m:ss): 0:03.80

Average shared text size (kbytes): 0

Average unshared data size (kbytes): 0

Average stack size (kbytes): 0

Average total size (kbytes): 0

Maximum resident set size (kbytes): 6016

Average resident set size (kbytes): 0

Major (requiring I/O) page faults: 2

Minor (reclaiming a frame) page faults: 822

Voluntary context switches: 871

Involuntary context switches: 4

Swaps: 0

File system inputs: 456

File system outputs: 0

Socket messages sent: 0

Socket messages received: 0

Signals delivered: 0

Page size (bytes): 4096

Exit status: 0

Processing subset\_500.fasta with delta

string length n = 15177597

delta = 31240

delta\_{<=K} (with K = 0) = 0

ratio n/delta = 485.83

argmax\_k(d\_k/k) = 13

length of longest repeated substring = 30409

Command being timed: "delta subset\_500.fasta echo Processing subset\_500.fasta with delta-stream"

User time (seconds): 4.72

System time (seconds): 0.24

Percent of CPU this job got: 52%

Elapsed (wall clock) time (h:mm:ss or m:ss): 0:09.40

Average shared text size (kbytes): 0

Average unshared data size (kbytes): 0

Average stack size (kbytes): 0

Average total size (kbytes): 0

Maximum resident set size (kbytes): 110852

Average resident set size (kbytes): 0

Major (requiring I/O) page faults: 7

Minor (reclaiming a frame) page faults: 5132

Voluntary context switches: 6665

Involuntary context switches: 6

Swaps: 0

File system inputs: 1368

File system outputs: 0

Socket messages sent: 0

Socket messages received: 0

Signals delivered: 0

Page size (bytes): 4096

Exit status: 0

Selected prime number, q = 25561391224445207

Number of sampled lengths: 53

Stream length = 15177597

delta = 31262.3

argmax\_k = 21

Command being timed: "delta-stream -s -o output\_subset\_500.fasta"

User time (seconds): 35.33

System time (seconds): 0.07

Percent of CPU this job got: 94%

Elapsed (wall clock) time (h:mm:ss or m:ss): 0:37.45

Average shared text size (kbytes): 0

Average unshared data size (kbytes): 0

Average stack size (kbytes): 0

Average total size (kbytes): 0

Maximum resident set size (kbytes): 5936

Average resident set size (kbytes): 0

Major (requiring I/O) page faults: 2

Minor (reclaiming a frame) page faults: 824

Voluntary context switches: 4206

Involuntary context switches: 5

Swaps: 0

File system inputs: 456

File system outputs: 0

Socket messages sent: 0

Socket messages received: 0

Signals delivered: 0

Page size (bytes): 4096

Exit status: 0

Processing subset\_5000.fasta with delta

string length n = 151711617

delta = 84790

delta\_{<=K} (with K = 0) = 0

ratio n/delta = 1789.26

argmax\_k(d\_k/k) = 60

length of longest repeated substring = 30409

Command being timed: "delta subset\_5000.fasta echo Processing subset\_5000.fasta with delta-stream"

User time (seconds): 60.63

System time (seconds): 2.24

Percent of CPU this job got: 48%

Elapsed (wall clock) time (h:mm:ss or m:ss): 2:10.76

Average shared text size (kbytes): 0

Average unshared data size (kbytes): 0

Average stack size (kbytes): 0

Average total size (kbytes): 0

Maximum resident set size (kbytes): 890844

Average resident set size (kbytes): 0

Major (requiring I/O) page faults: 7

Minor (reclaiming a frame) page faults: 9564

Voluntary context switches: 67610

Involuntary context switches: 23

Swaps: 0

File system inputs: 1368

File system outputs: 0

Socket messages sent: 0

Socket messages received: 0

Signals delivered: 0

Page size (bytes): 4096

Exit status: 0

Selected prime number, q = 28501630478218669

Number of sampled lengths: 53

Stream length = 151711617

delta = 84075.2

argmax\_k = 57

Command being timed: "delta-stream -s -o output\_subset\_5000.fasta"

User time (seconds): 497.81

System time (seconds): 1.11

Percent of CPU this job got: 92%

Elapsed (wall clock) time (h:mm:ss or m:ss): 8:58.74

Average shared text size (kbytes): 0

Average unshared data size (kbytes): 0

Average stack size (kbytes): 0

Average total size (kbytes): 0

Maximum resident set size (kbytes): 5980

Average resident set size (kbytes): 0

Major (requiring I/O) page faults: 2

Minor (reclaiming a frame) page faults: 820

Voluntary context switches: 37540

Involuntary context switches: 21

Swaps: 0

File system inputs: 456

File system outputs: 0

Socket messages sent: 0

Socket messages received: 0

Signals delivered: 0

Page size (bytes): 4096

Exit status: 0

Processing open\_sc2\_10k.fasta with delta

string length n = 298308903

delta = 53750

delta\_{<=K} (with K = 1000) = 53750.3

ratio n/delta = 5549.9

argmax\_k(d\_k/k) = 23

length of longest repeated substring = 29911

Command being timed: "delta open\_sc2\_10k.fasta"

User time (seconds): 142.02

System time (seconds): 7.03

Percent of CPU this job got: 53%

Elapsed (wall clock) time (h:mm:ss or m:ss): 4:37.97

Average shared text size (kbytes): 0

Average unshared data size (kbytes): 0

Average stack size (kbytes): 0

Average total size (kbytes): 0

Maximum resident set size (kbytes): 1755240

Average resident set size (kbytes): 0

Major (requiring I/O) page faults: 7

Minor (reclaiming a frame) page faults: 9570

Voluntary context switches: 135813

Involuntary context switches: 84

Swaps: 0

File system inputs: 1368

File system outputs: 0

Socket messages sent: 0

Socket messages received: 0

Signals delivered: 0

Page size (bytes): 4096

Exit status: 0

Processing open\_sc2\_10k.fasta with delta-stream

Selected prime number, q = 18275596222994107

Number of sampled lengths: 53

Stream length = 298308903

delta = 53920

argmax\_k = 21

Command being timed: "delta-stream -s -o output\_open\_sc2\_10k.fasta"

User time (seconds): 997.28

System time (seconds): 2.64

Percent of CPU this job got: 93%

Elapsed (wall clock) time (h:mm:ss or m:ss): 17:53.04

Average shared text size (kbytes): 0

Average unshared data size (kbytes): 0

Average stack size (kbytes): 0

Average total size (kbytes): 0

Maximum resident set size (kbytes): 5956

Average resident set size (kbytes): 0

Major (requiring I/O) page faults: 2

Minor (reclaiming a frame) page faults: 825

Voluntary context switches: 73331

Involuntary context switches: 73

Swaps: 0

File system inputs: 456

File system outputs: 0

Socket messages sent: 0

Socket messages received: 0

Signals delivered: 0

Page size (bytes): 4096

Exit status: 0