Figure 1: timing-pattern

Figure 2: timing-n-polymorphic-universes param-1-n 0

The figure legend contains the following entries:

- abstract-real
  $9.99 \cdot 10^{-8} \cdot x^2 + 2.43 \cdot 10^{-4} \cdot x$
- abstract-user
  $9.98 \cdot 10^{-8} \cdot x^2 + 2.41 \cdot 10^{-4} \cdot x$
- close-abstract-real
  $9.89 \cdot 10^{-8} \cdot x^2 + 1.83 \cdot 10^{-4} \cdot x$
- close-abstract-user
  $9.89 \cdot 10^{-8} \cdot x^2 + 1.82 \cdot 10^{-4} \cdot x$
- exact-user
  $7.34 \cdot 10^{-5} \cdot x - 9.33 \cdot$
- exact-real
  $7.34 \cdot 10^{-5} \cdot x - 8.78 \cdot$
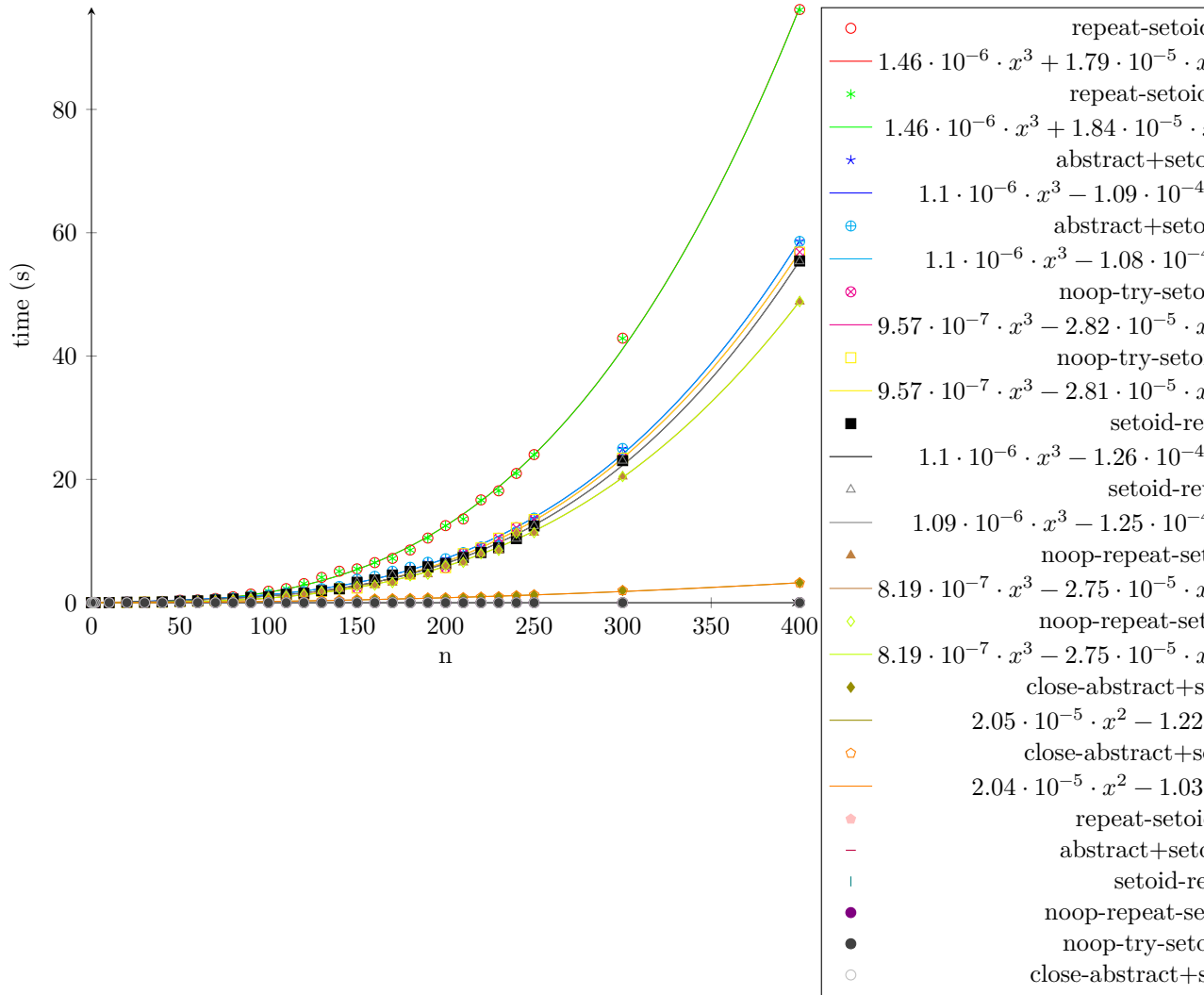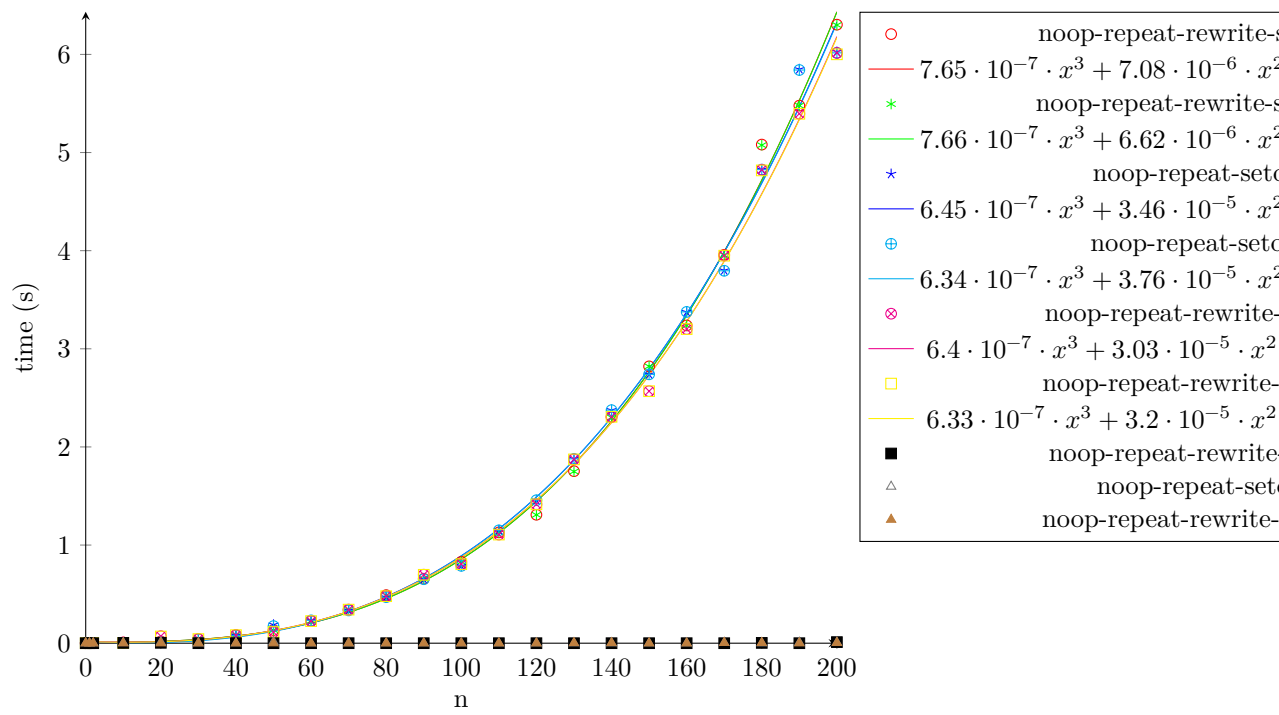- close-abstract-sys
- abstract-sys
- exact-sys

Figure 3: timing-repeat-setoid-rewrite-under-binders

Figure 4: timing-repeat-setoid-rewrite-under-binders-noop

time (s)

n

10

8

6

4

2

0

0   5   10   15   20   25   30   35   40   45   50

abstract+repeat-rewr

$1.62 \cdot 10^{-4} \cdot x^3 - 5.14 \cdot 10^{-3}$

abstract+repeat-rewr

$1.61 \cdot 10^{-4} \cdot x^3 - 5.13 \cdot 10^{-3}$

repeat-rewrite-st

$1.6 \cdot 10^{-4} \cdot x^3 - 5.13 \cdot 10^{-3}$

repeat-rewrite-st

$1.6 \cdot 10^{-4} \cdot x^3 - 5.12 \cdot 10^{-3}$

abstract+repeat-rewri

$1.5 \cdot 10^{-4} \cdot x^3 - 4.54 \cdot 10^{-3}$

abstract+repeat-rewri

$1.5 \cdot 10^{-4} \cdot x^3 - 4.54 \cdot 10^{-3}$

repeat-rewrite-st

$1.49 \cdot 10^{-4} \cdot x^3 - 4.55 \cdot 10^{-3}$

repeat-rewrite-st

$1.49 \cdot 10^{-4} \cdot x^3 - 4.54 \cdot 10^{-3}$

noop-repeat-rewrite

$9.91 \cdot 10^{-7} \cdot x^3 - 7.93 \cdot 10^{-6} \cdot x$

noop-repeat-rewrite

$1.01 \cdot 10^{-6} \cdot x^3 - 9.16 \cdot 10^{-6} \cdot x$

noop-repeat-rewrite

$9.62 \cdot 10^{-7} \cdot x^3 - 7.19 \cdot 10^{-6} \cdot x$

noop-repeat-rewrite

$9.77 \cdot 10^{-7} \cdot x^3 - 8.19 \cdot 10^{-6} \cdot x$

close-abstract+repeat-re

$2.23 \cdot 10^{-5} \cdot x^2 + 2.4$

close-abstract+repeat-re

$2.22 \cdot 10^{-5} \cdot x^2 + 2.42$

close-abstract+repeat-re

$2.29 \cdot 10^{-5} \cdot x^2 + 1.76$

close-abstract+repeat-re

$2.3 \cdot 10^{-5} \cdot x^2 + 1.79$

repeat-rewrite-s

abstract+repeat-rewr

repeat-rewrite-st

abstract+repeat-rewr

noop-repeat-rewrit

noop-repeat-rewrite

close-abstract+repeat-re

close-abstract+repeat-re

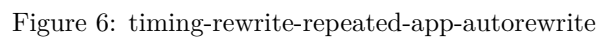Figure 5: timing-rewrite-strat-under-binders

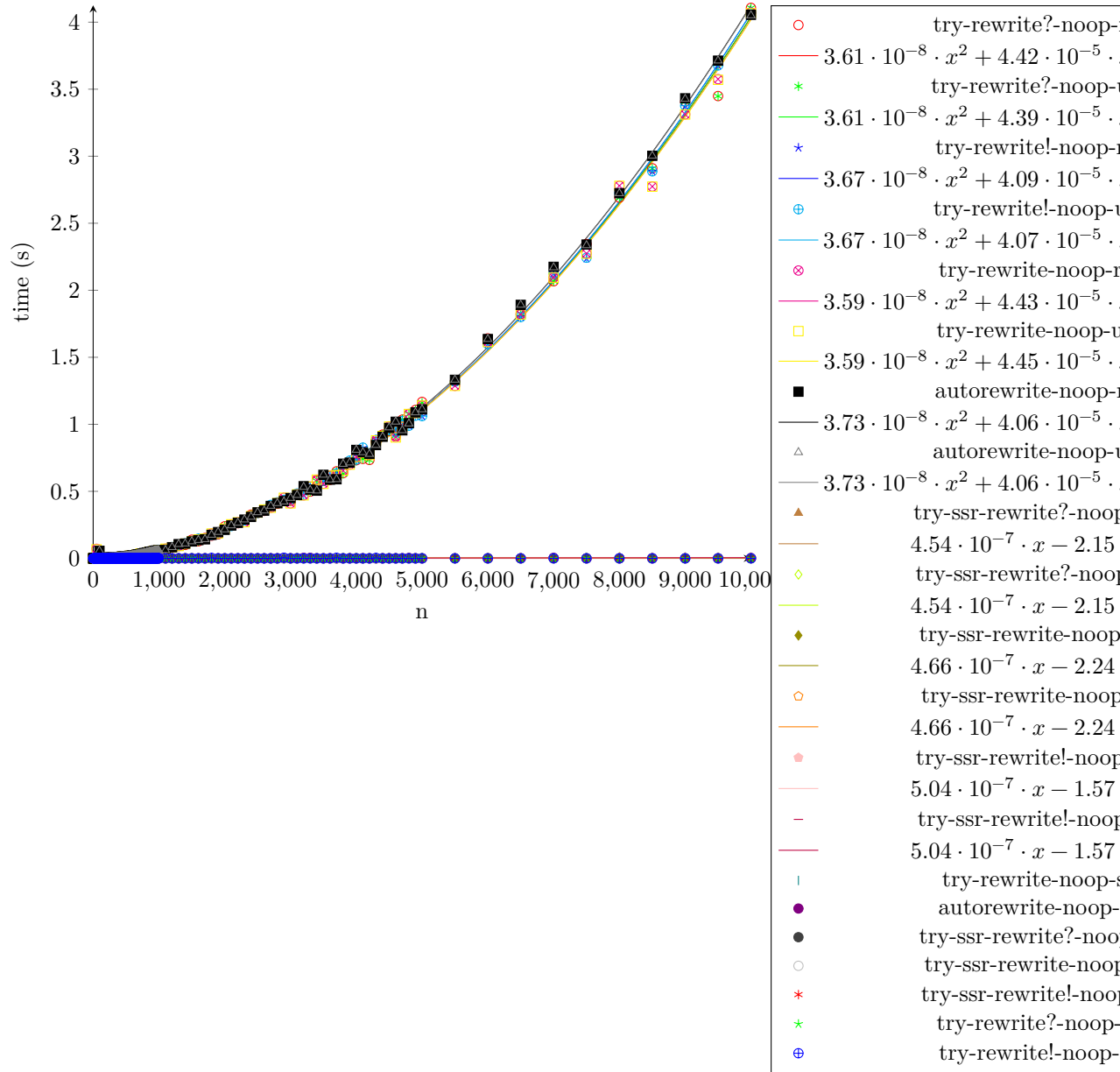Figure 6: timing-rewrite-repeated-app-autorewrite

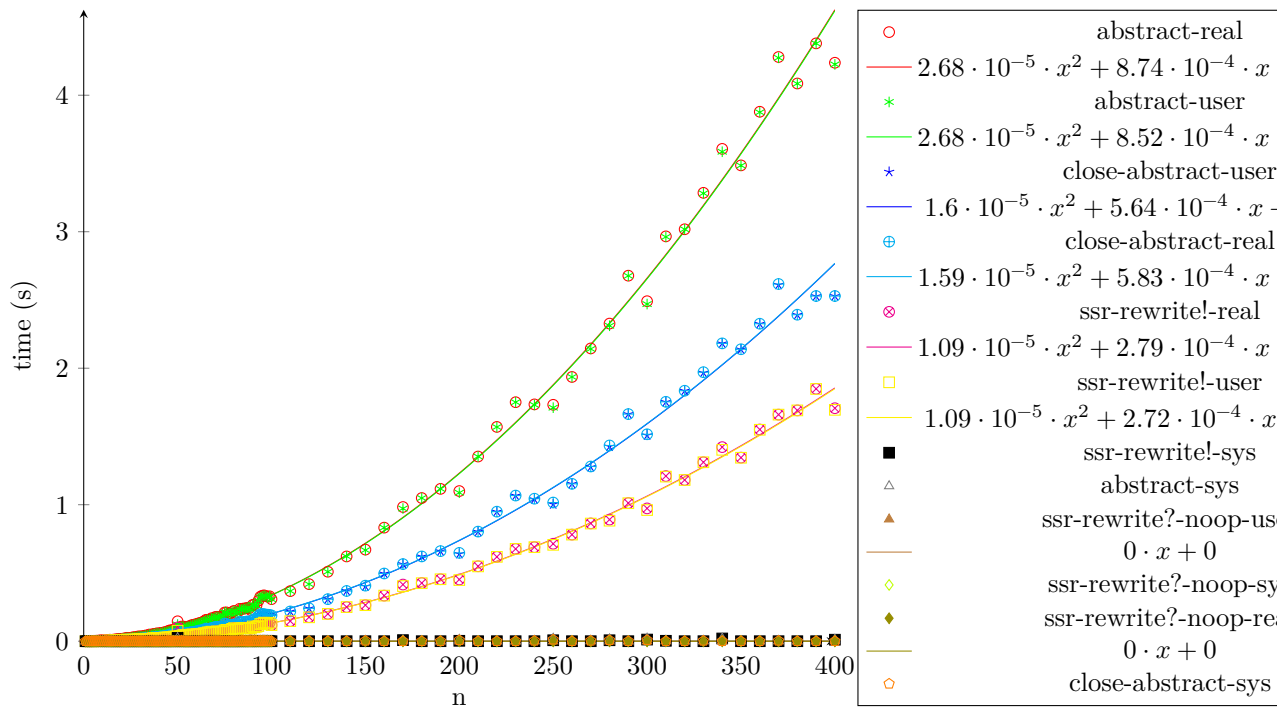Figure 7: timing-rewrite-repeated-app-autorewrite-noop
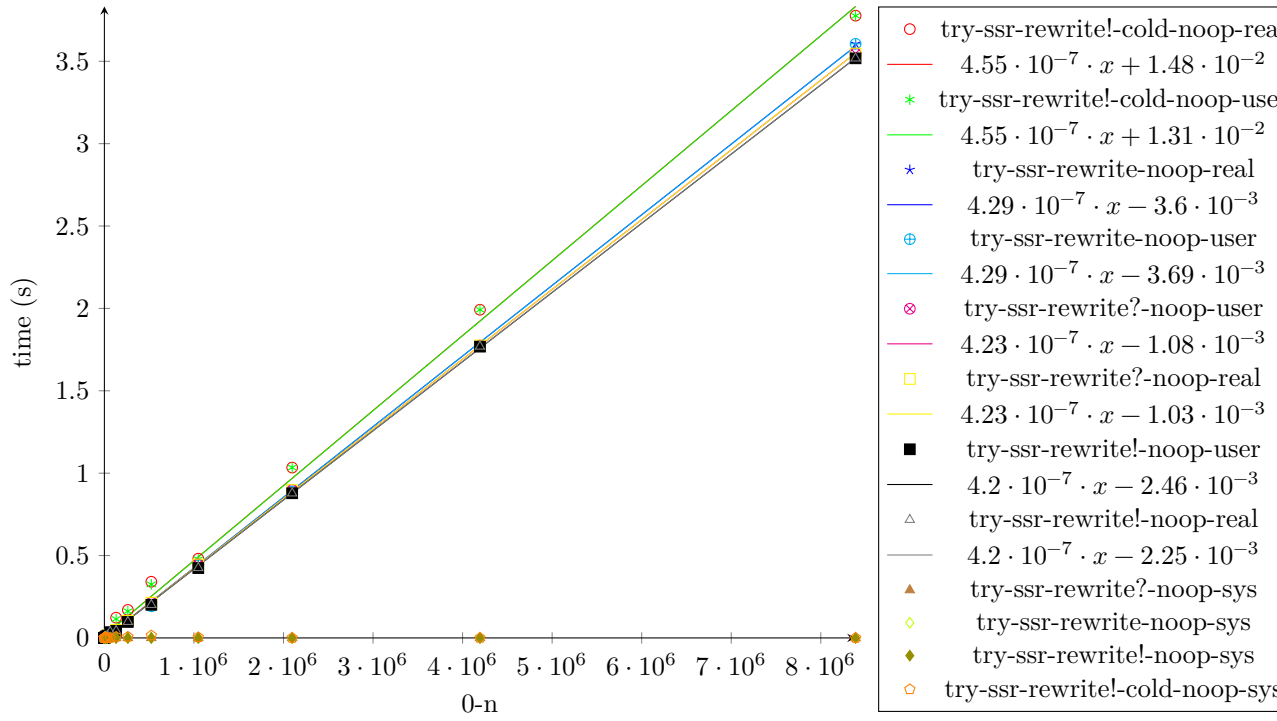
Figure 8: timing-rewrite-repeated-app-ssrrewrite

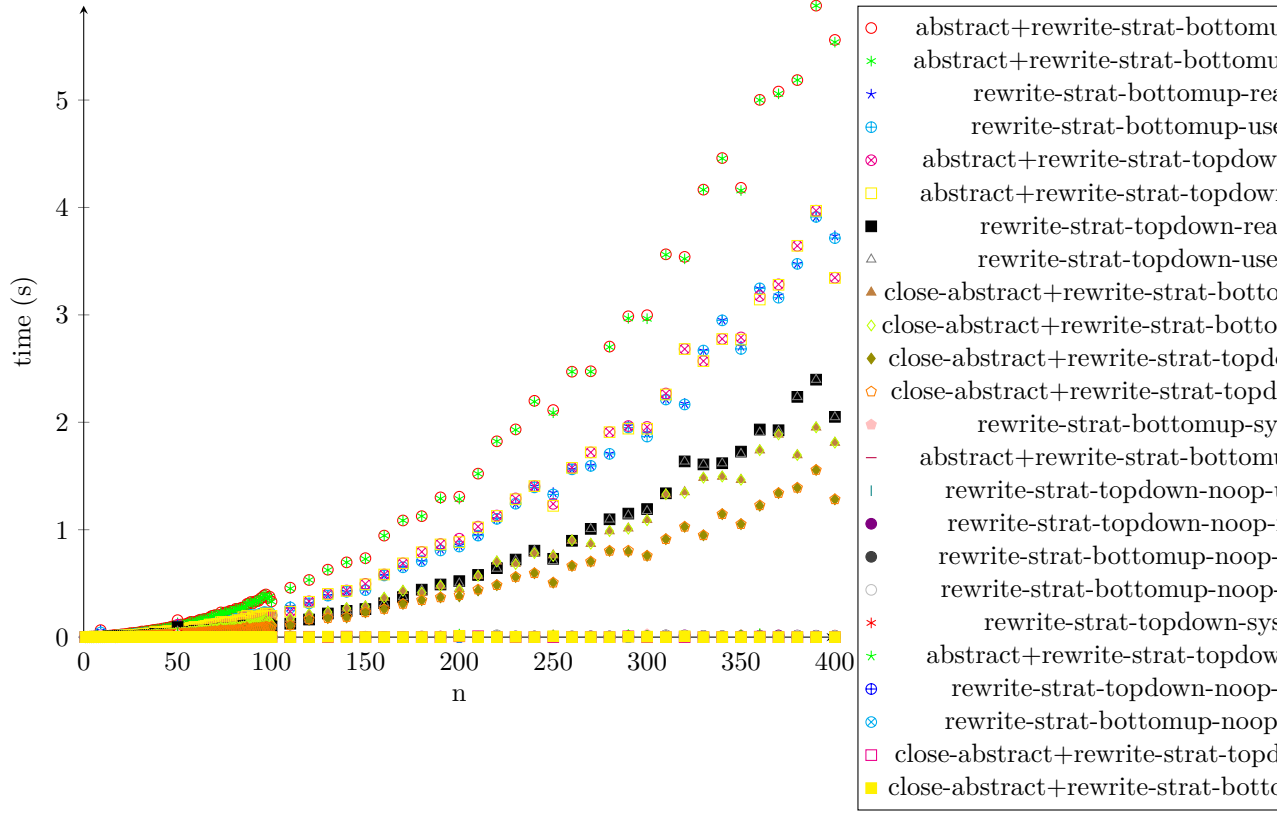Figure 9: timing-rewrite-repeated-app-ssrrewrite-noop param-1-lgn 1

Figure 10: timing-rewrite-repeated-app-rewrite-strat

Figure 11: timing-rewrite-repeated-app-fast-rewrite

Figure 12: timing-rewrite-repeated-app-fast-rewrite-no-abstract