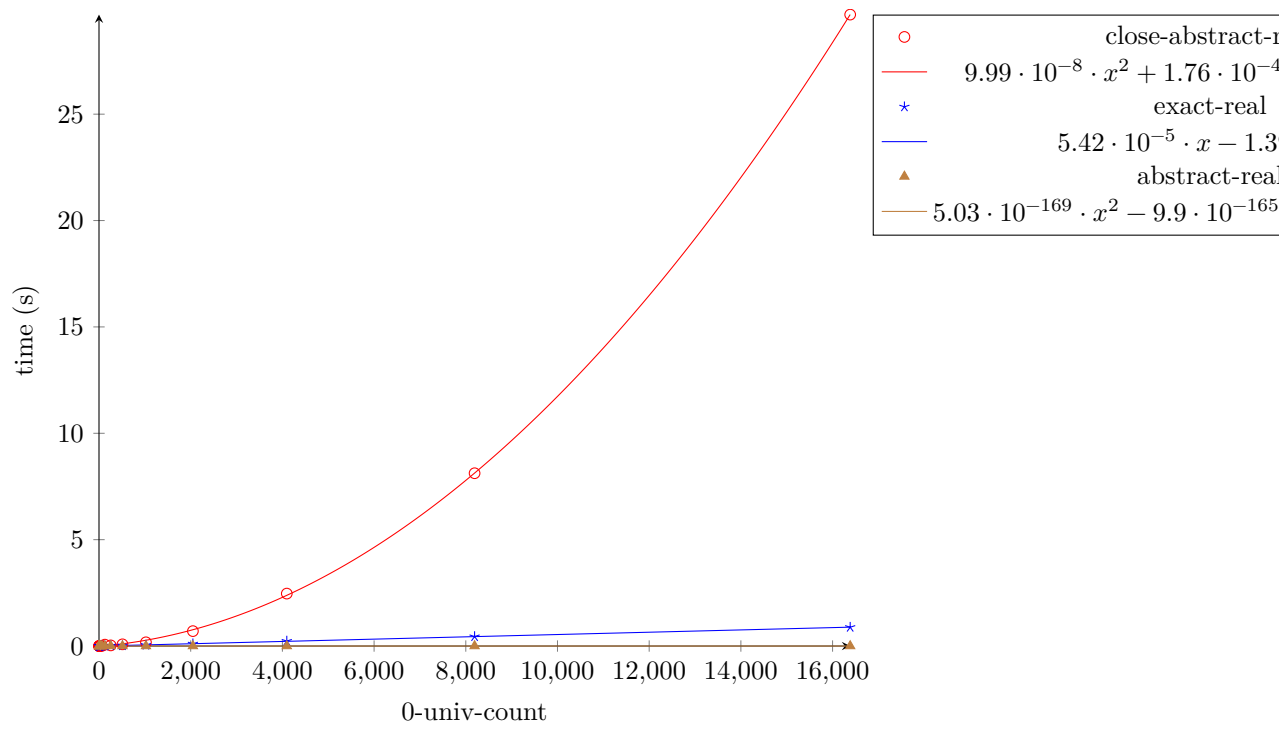Figure 1: timing-pattern

Figure 2: timing-n-polymorphic-universes param-1-n 0
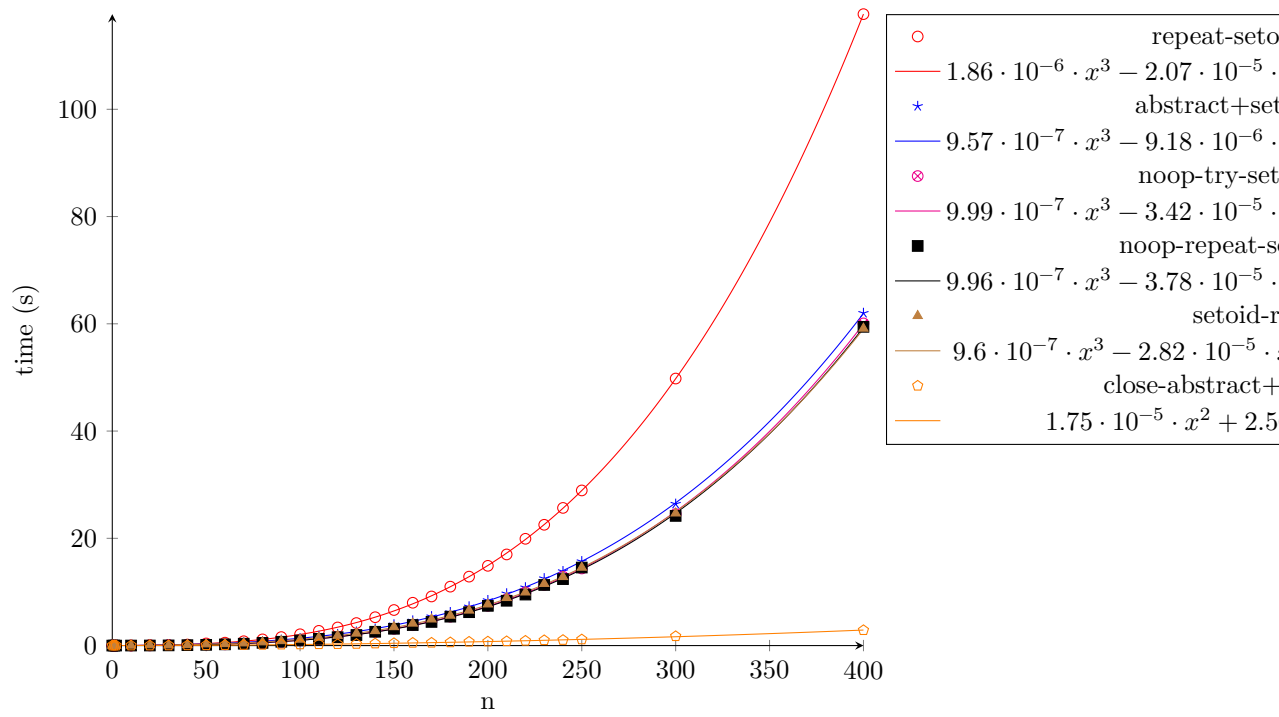
Figure 3: timing-repeat-setoid-rewrite-under-binders
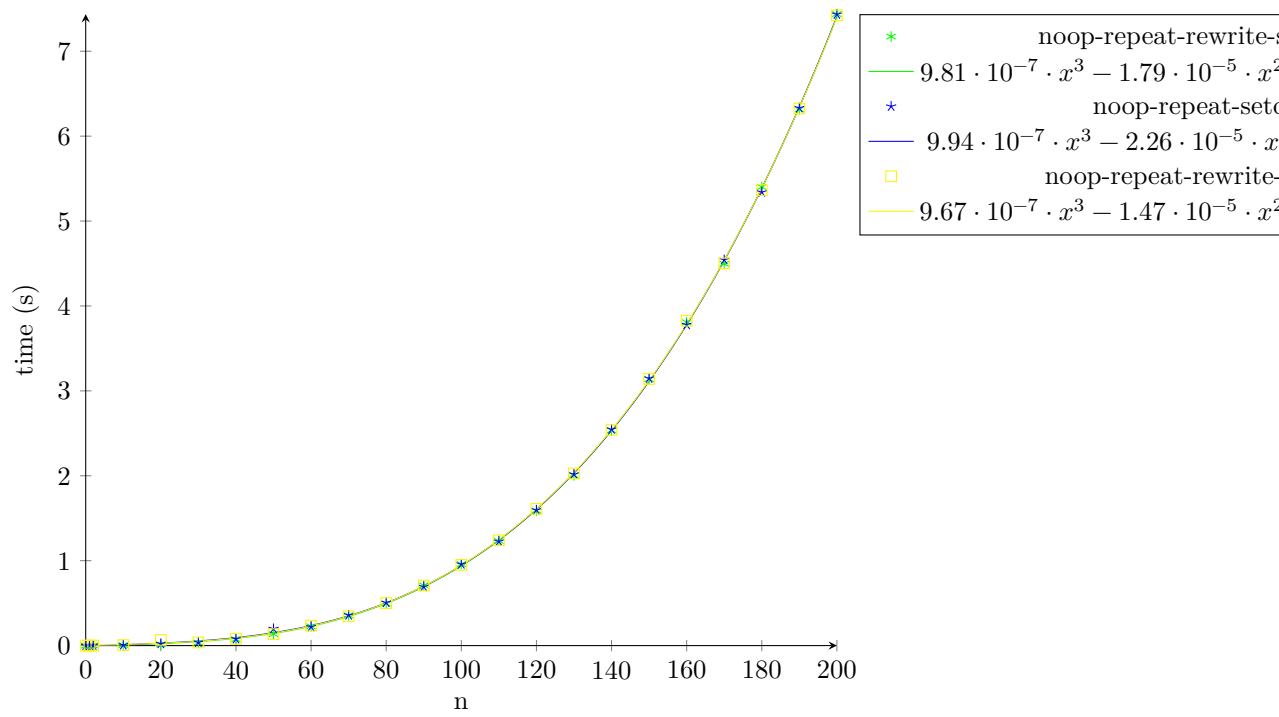
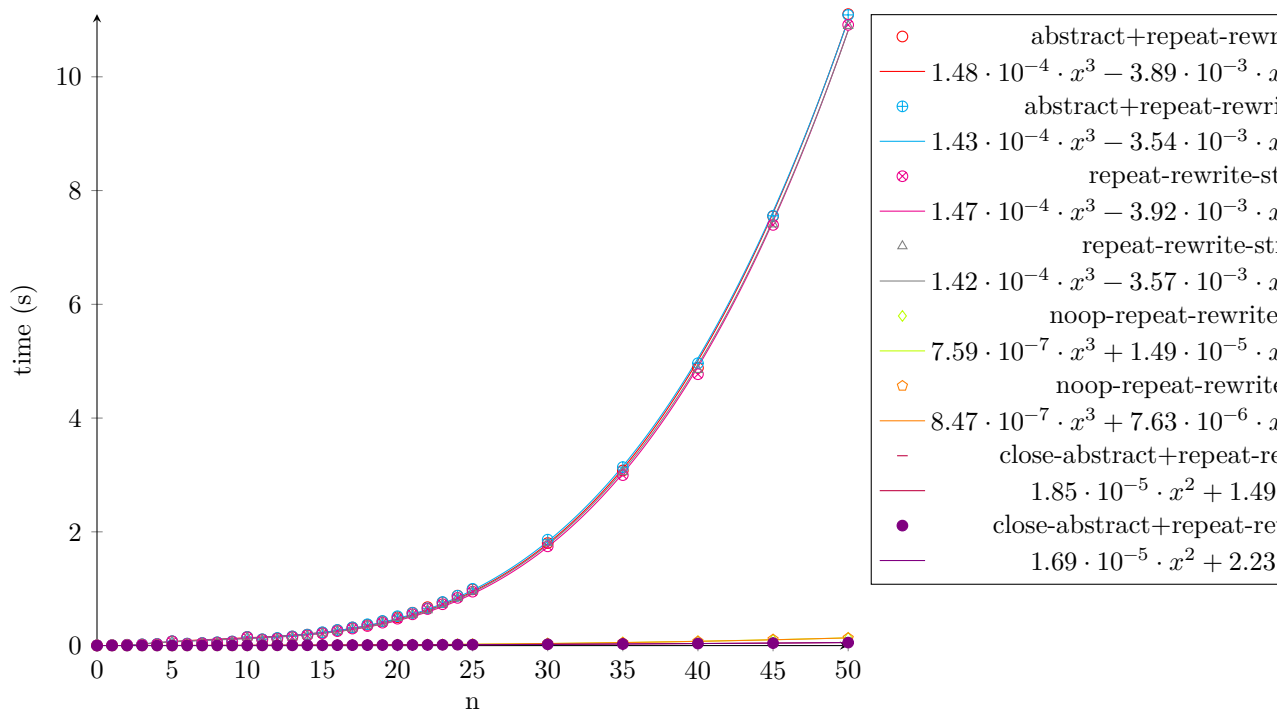Figure 4: timing-repeat-setoid-rewrite-under-binders-noop
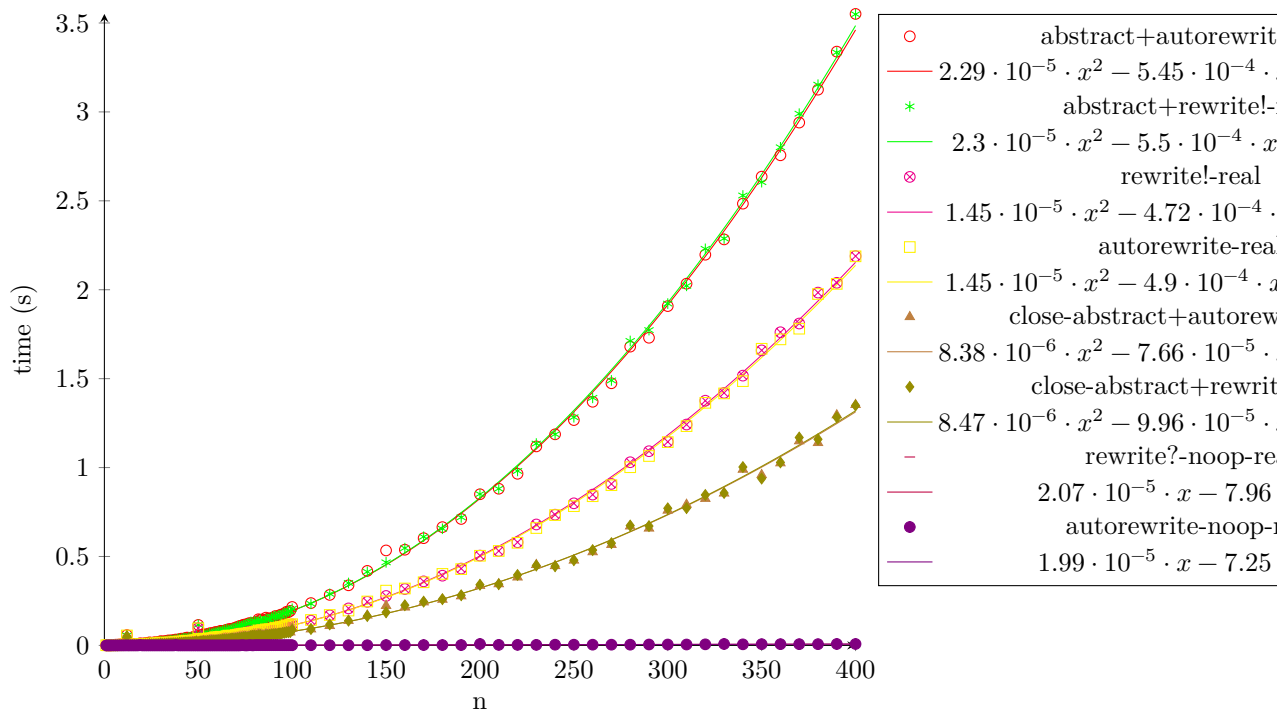
4

Figure 5: timing-rewrite-strat-under-binders
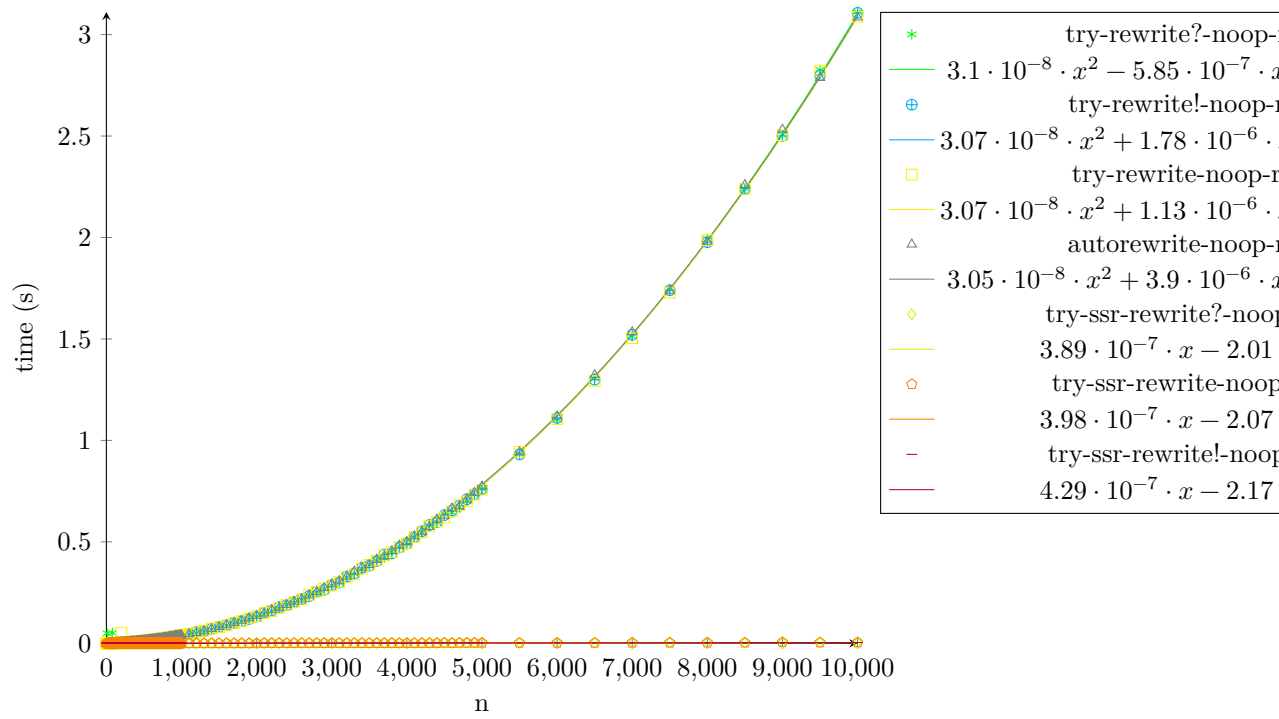
Figure 6: timing-rewrite-repeated-app-autorewrite

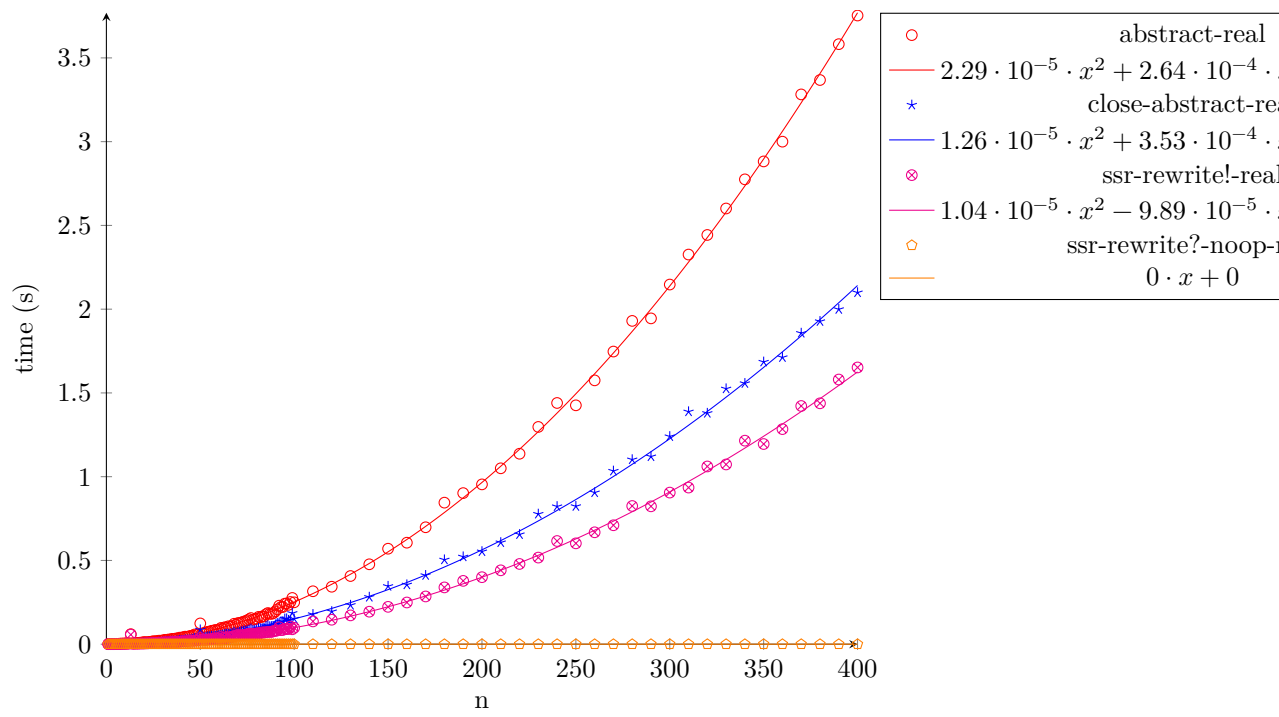Figure 7: timing-rewrite-repeated-app-autorewrite-noop

The plot legend contains the following entries:

- try-rewrite?-noop-...
  $3.1 \cdot 10^{-8} \cdot x^2 - 5.85 \cdot 10^{-7} \cdot x$
- try-rewrite!-noop-...
  $3.07 \cdot 10^{-8} \cdot x^2 + 1.78 \cdot 10^{-6} \cdot x$
- try-rewrite-noop-...
  $3.07 \cdot 10^{-8} \cdot x^2 + 1.13 \cdot 10^{-6} \cdot x$
- autorewrite-noop-...
  $3.05 \cdot 10^{-8} \cdot x^2 + 3.9 \cdot 10^{-6} \cdot x$
- try-ssr-rewrite?-noop...
  $3.89 \cdot 10^{-7} \cdot x - 2.01$
- try-ssr-rewrite-noop...
  $3.98 \cdot 10^{-7} \cdot x - 2.07$
- try-ssr-rewrite!-noop...
  $4.29 \cdot 10^{-7} \cdot x - 2.17$

Figure 8: timing-rewrite-repeated-app-ssrrewrite

time (s)

try-ssr-rewrite!-cold-noop-rea

$4.78 \cdot 10^{-7} \cdot x + 2.49 \cdot 10^{-2}$

try-ssr-rewrite?-noop-real

$4.3 \cdot 10^{-7} \cdot x + 1.56 \cdot 10^{-3}$

try-ssr-rewrite!-noop-real

$4.29 \cdot 10^{-7} \cdot x + 6.57 \cdot 10^{-4}$

try-ssr-rewrite-noop-real

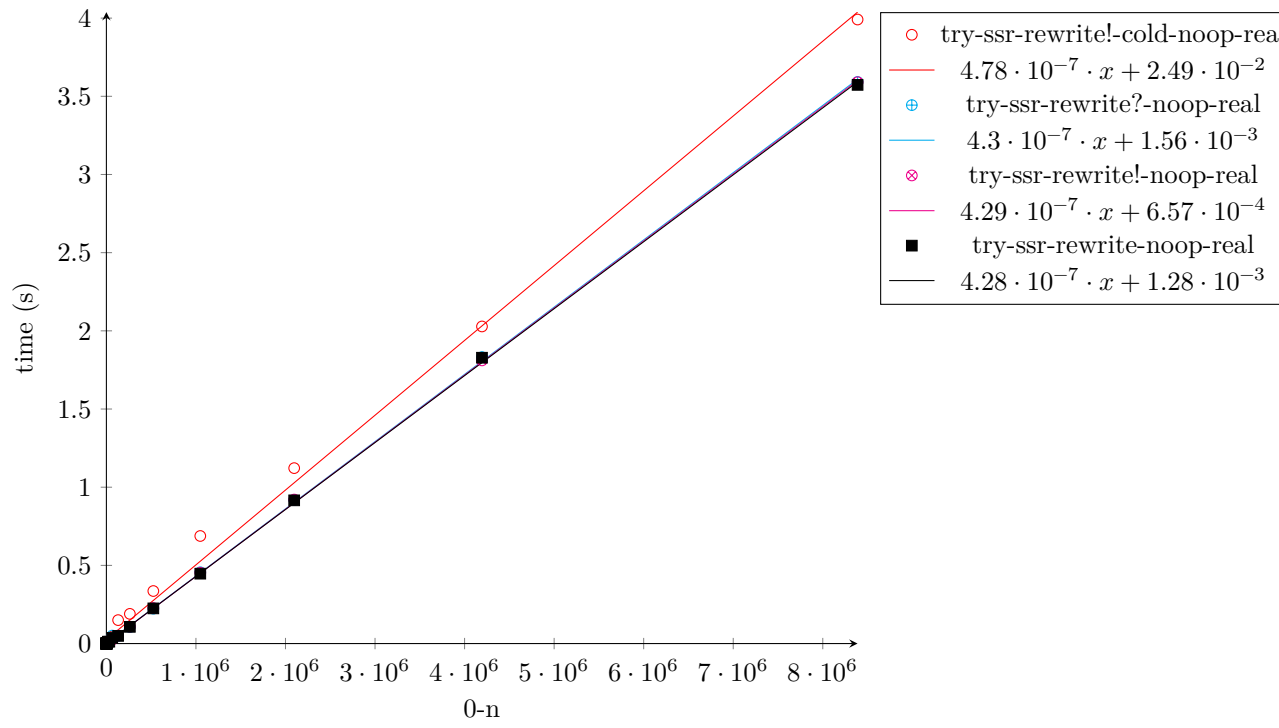$4.28 \cdot 10^{-7} \cdot x + 1.28 \cdot 10^{-3}$

0-n

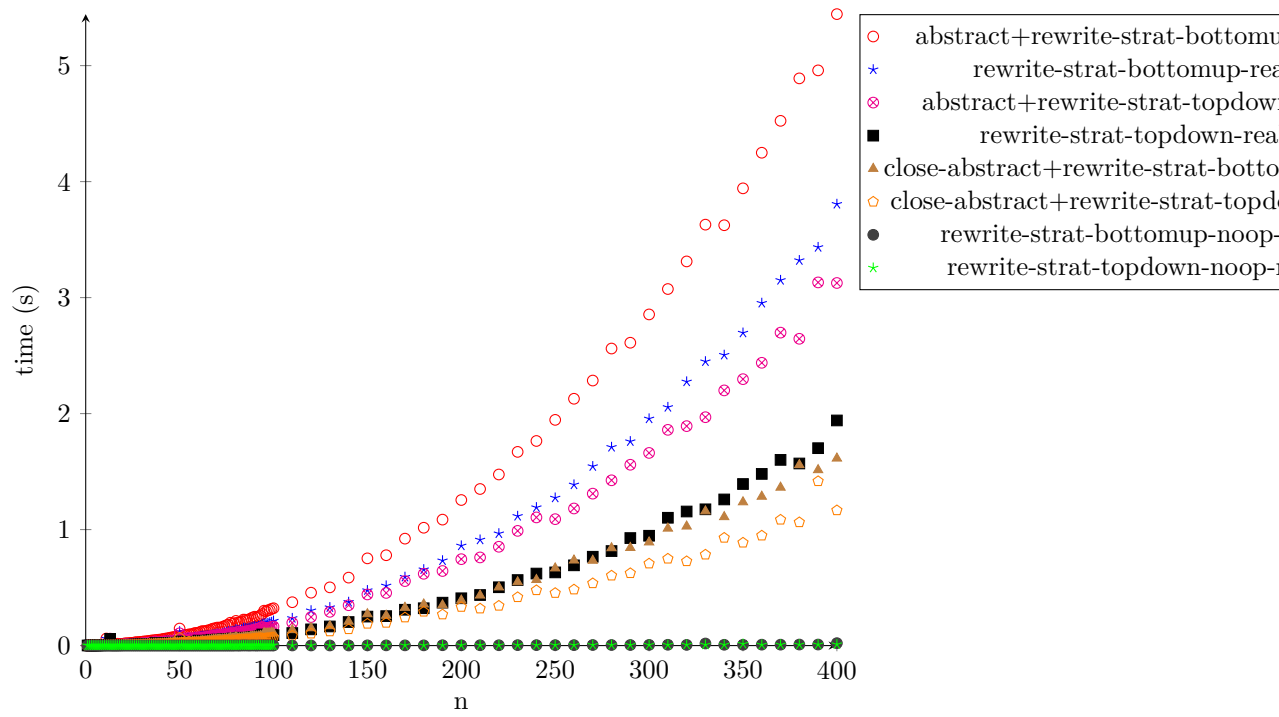Figure 9: timing-rewrite-repeated-app-ssrrewrite-noop param-1-lgn 1

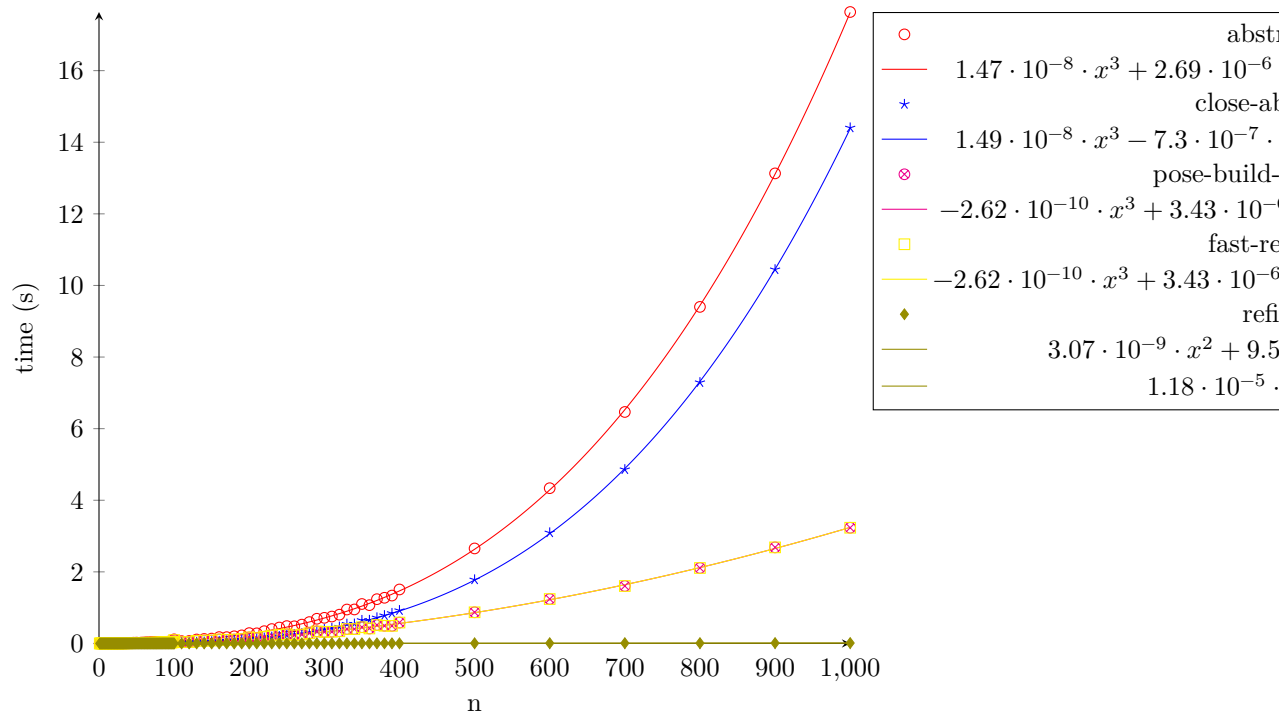Figure 10: timing-rewrite-repeated-app-rewrite-strat
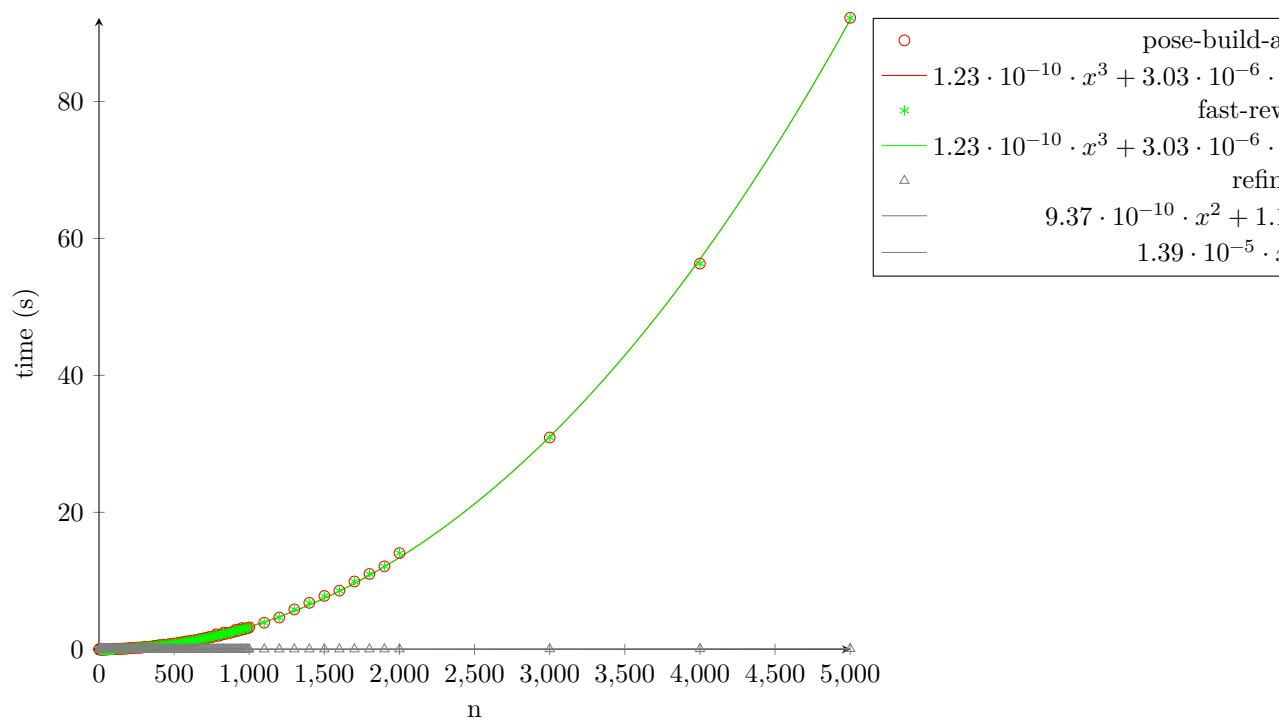
Figure 11: timing-rewrite-repeated-app-fast-rewrite

11

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