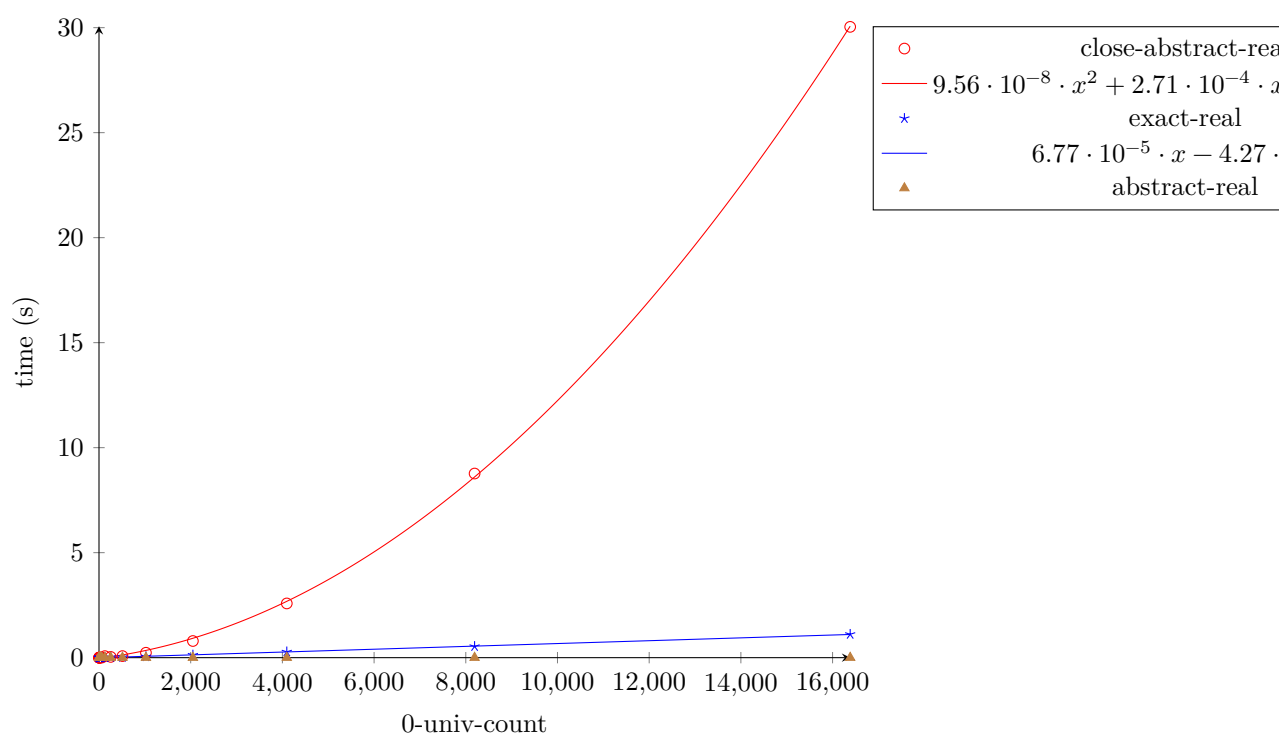Figure 1: timing-pattern

1

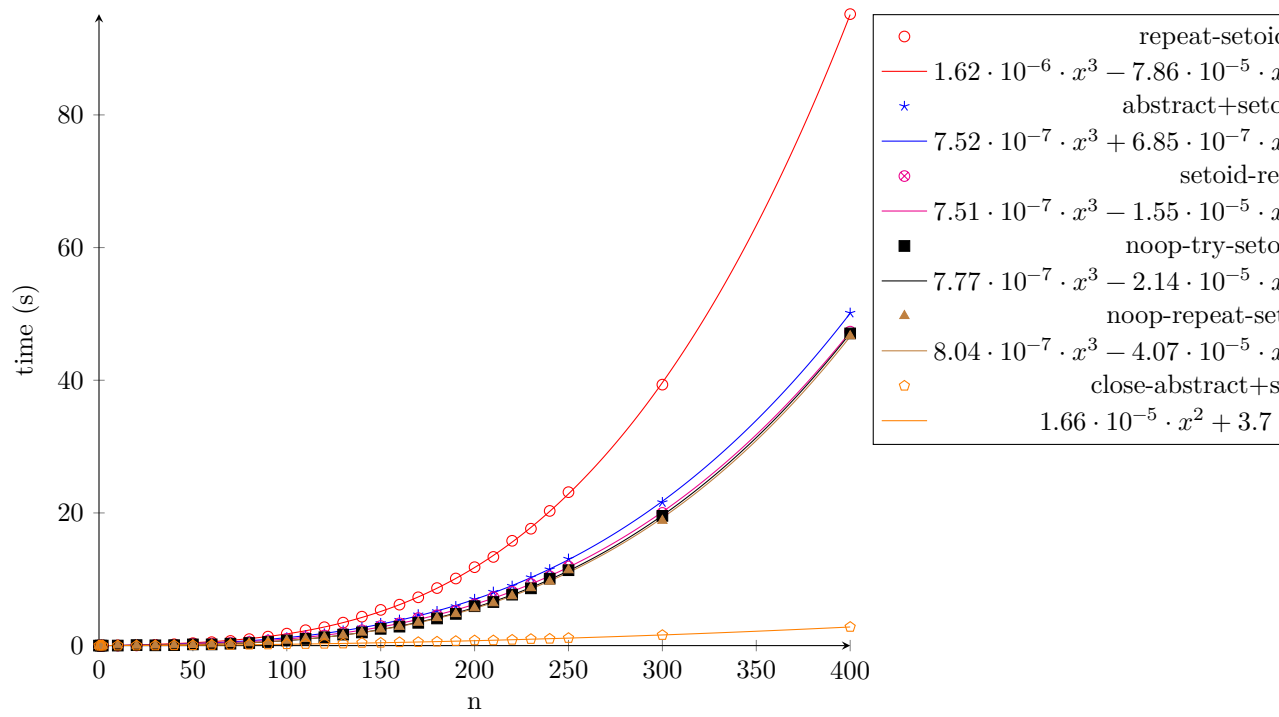Figure 2: timing-n-polymorphic-universes param-1-n   0

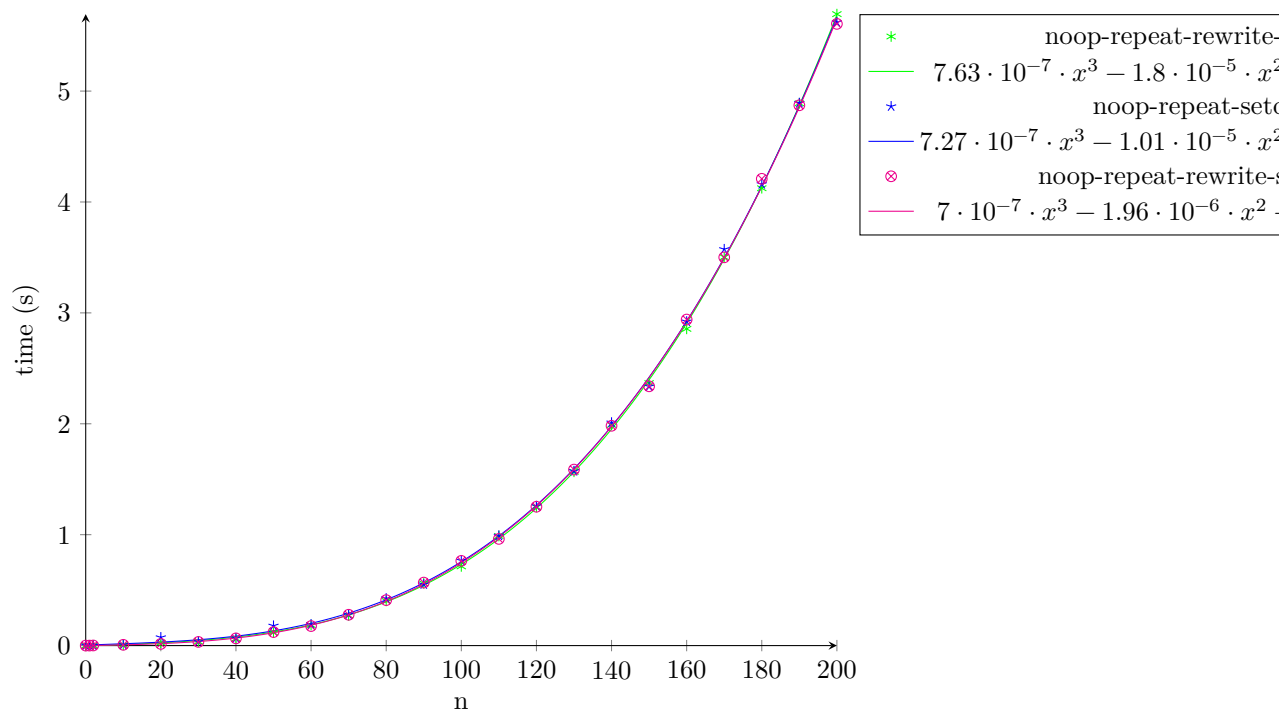Figure 3: timing-repeat-setoid-rewrite-under-binders

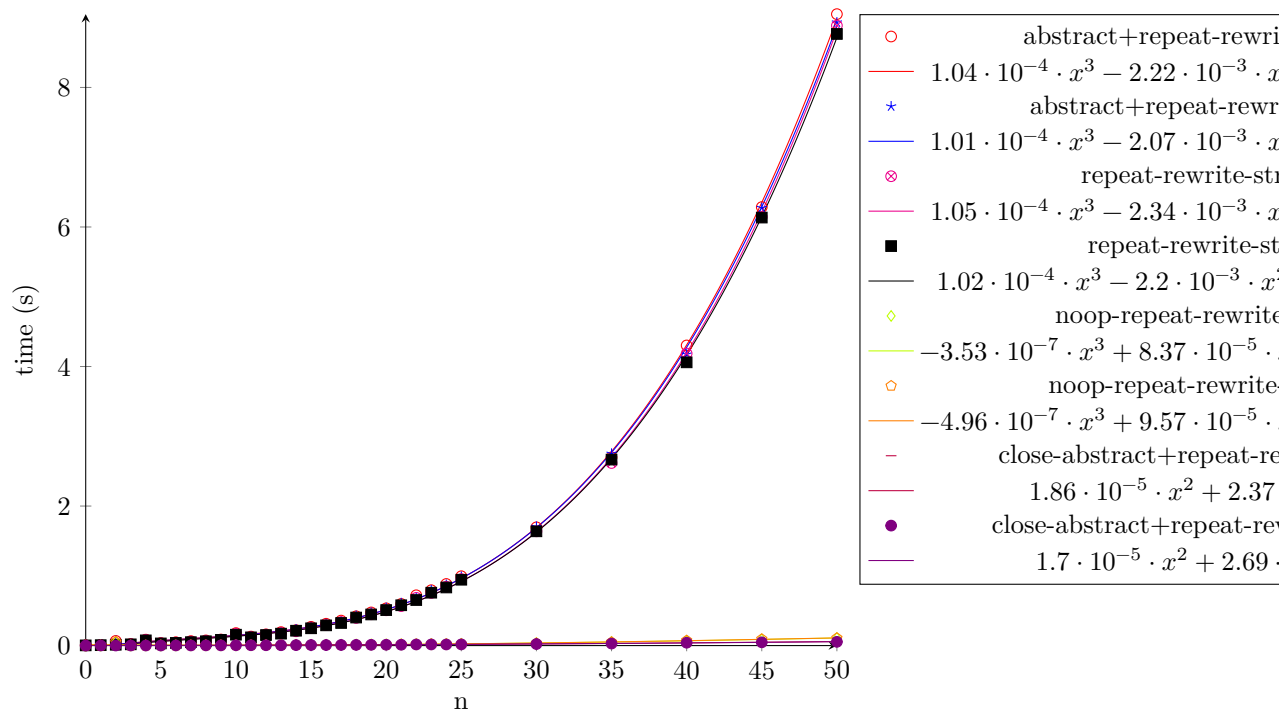Figure 4: timing-repeat-setoid-rewrite-under-binders-noop

4

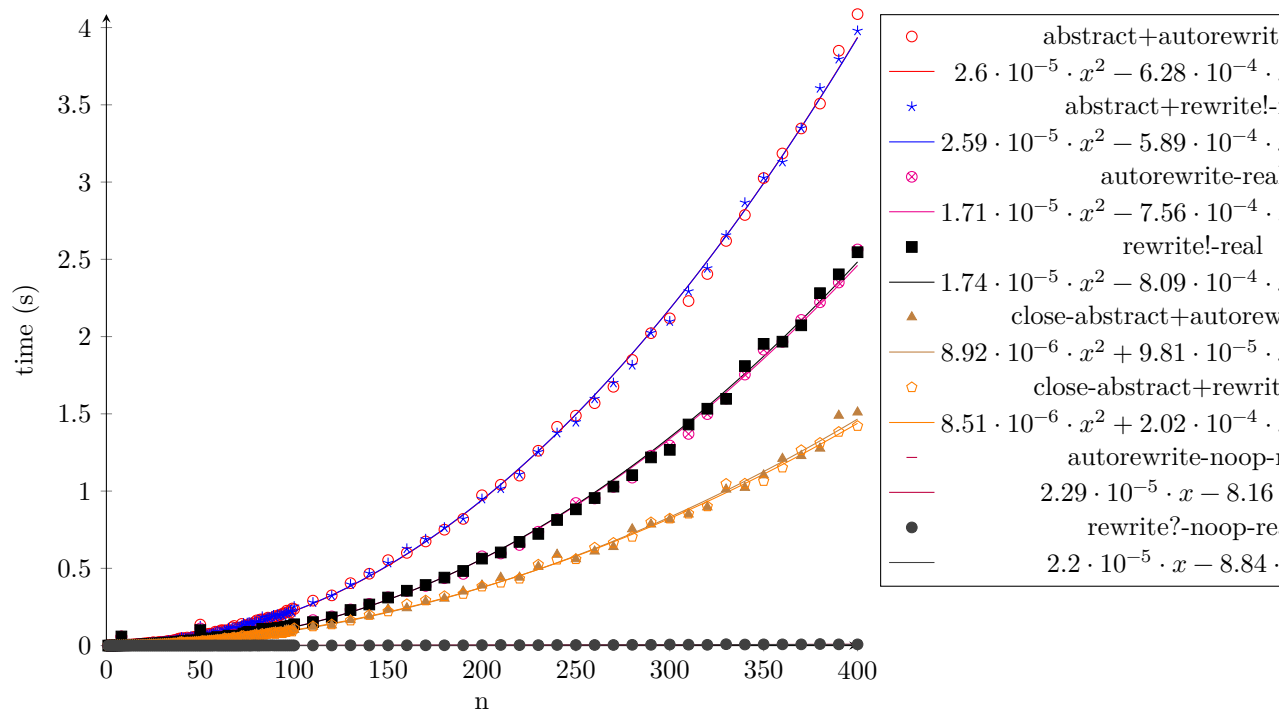Figure 5: timing-rewrite-strat-under-binders
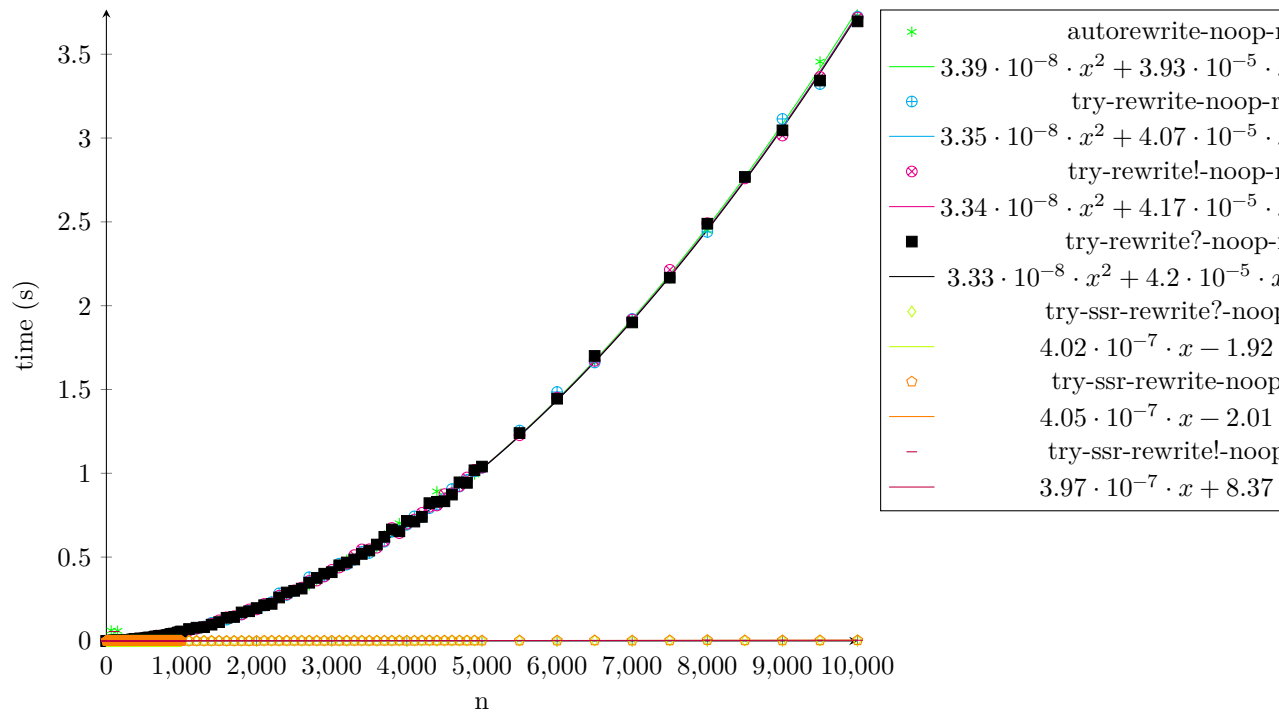
Figure 6: timing-rewrite-repeated-app-autorewrite

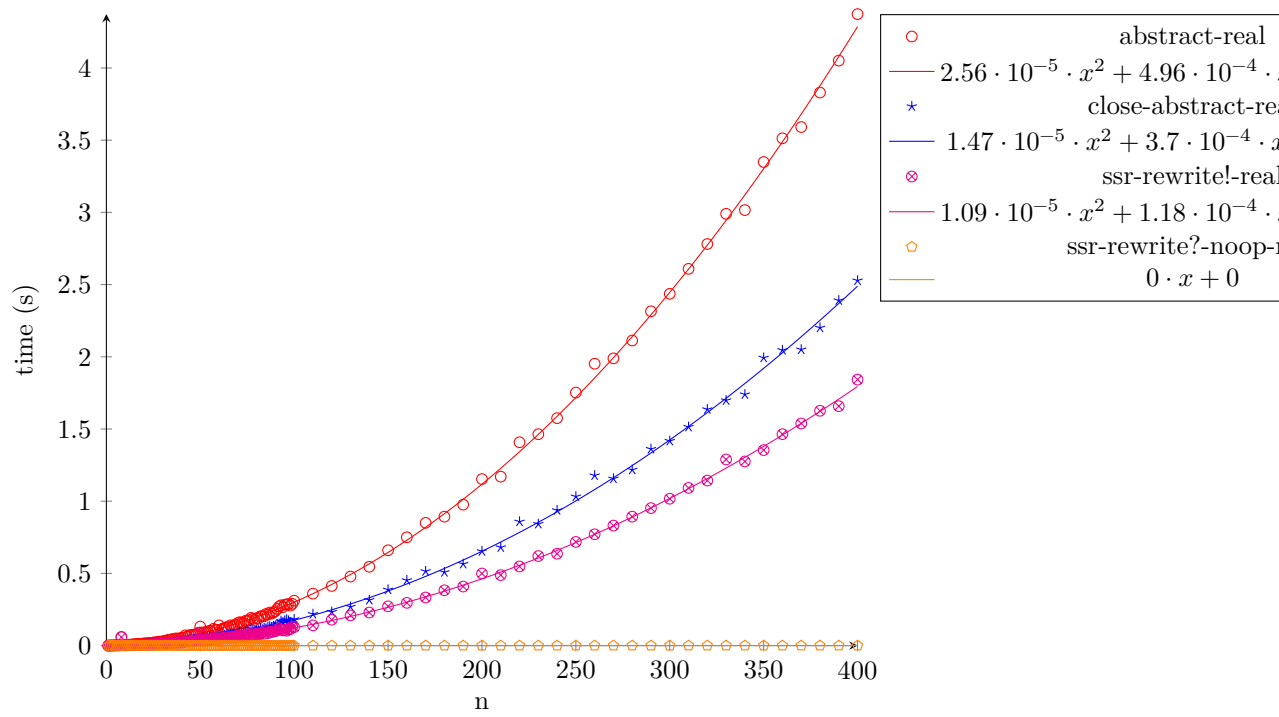Figure 7: timing-rewrite-repeated-app-autorewrite-noop

The chart contains the following legend entries:

autorewrite-noop-n

$3.39 \cdot 10^{-8} \cdot x^2 + 3.93 \cdot 10^{-5} \cdot$

try-rewrite-noop-n

$3.35 \cdot 10^{-8} \cdot x^2 + 4.07 \cdot 10^{-5} \cdot$

try-rewrite!-noop-n

$3.34 \cdot 10^{-8} \cdot x^2 + 4.17 \cdot 10^{-5} \cdot$

try-rewrite?-noop-n

$3.33 \cdot 10^{-8} \cdot x^2 + 4.2 \cdot 10^{-5} \cdot x$

try-ssr-rewrite?-noop

$4.02 \cdot 10^{-7} \cdot x - 1.92$

try-ssr-rewrite-noop

$4.05 \cdot 10^{-7} \cdot x - 2.01$

try-ssr-rewrite!-noop

$3.97 \cdot 10^{-7} \cdot x + 8.37$

time (s)

n

abstract-real
$2.56 \cdot 10^{-5} \cdot x^2 + 4.96 \cdot 10^{-4} \cdot$
close-abstract-re
$1.47 \cdot 10^{-5} \cdot x^2 + 3.7 \cdot 10^{-4} \cdot$
ssr-rewrite!-real
$1.09 \cdot 10^{-5} \cdot x^2 + 1.18 \cdot 10^{-4} \cdot$
ssr-rewrite?-noop-
$0 \cdot x + 0$
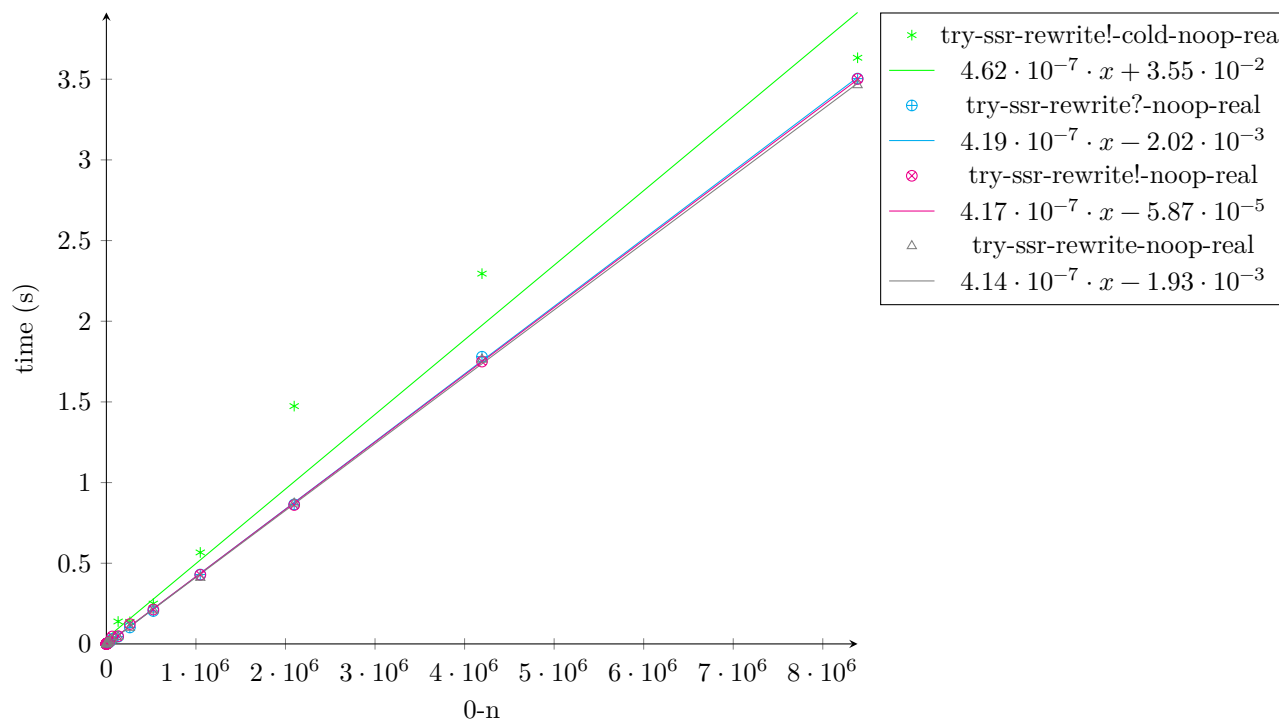
Figure 8: timing-rewrite-repeated-app-ssrrewrite

8

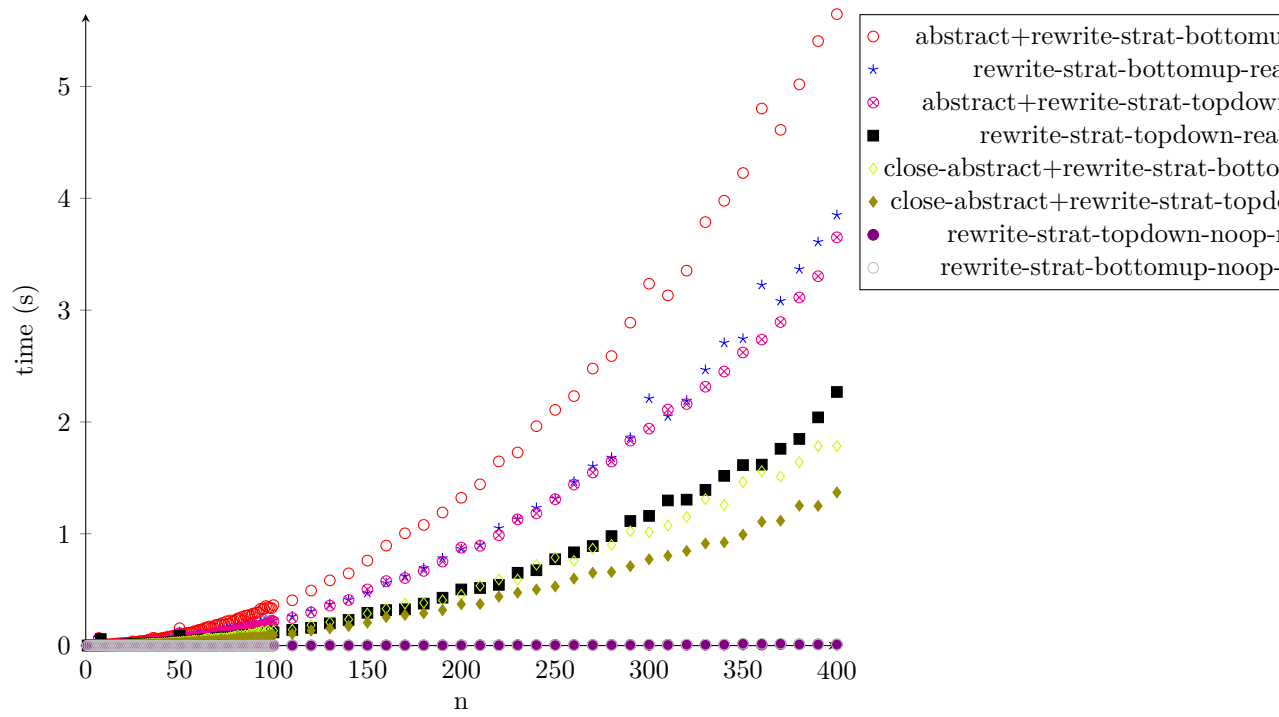Figure 9: timing-rewrite-repeated-app-ssrrewrite-noop param-1-lgn 1

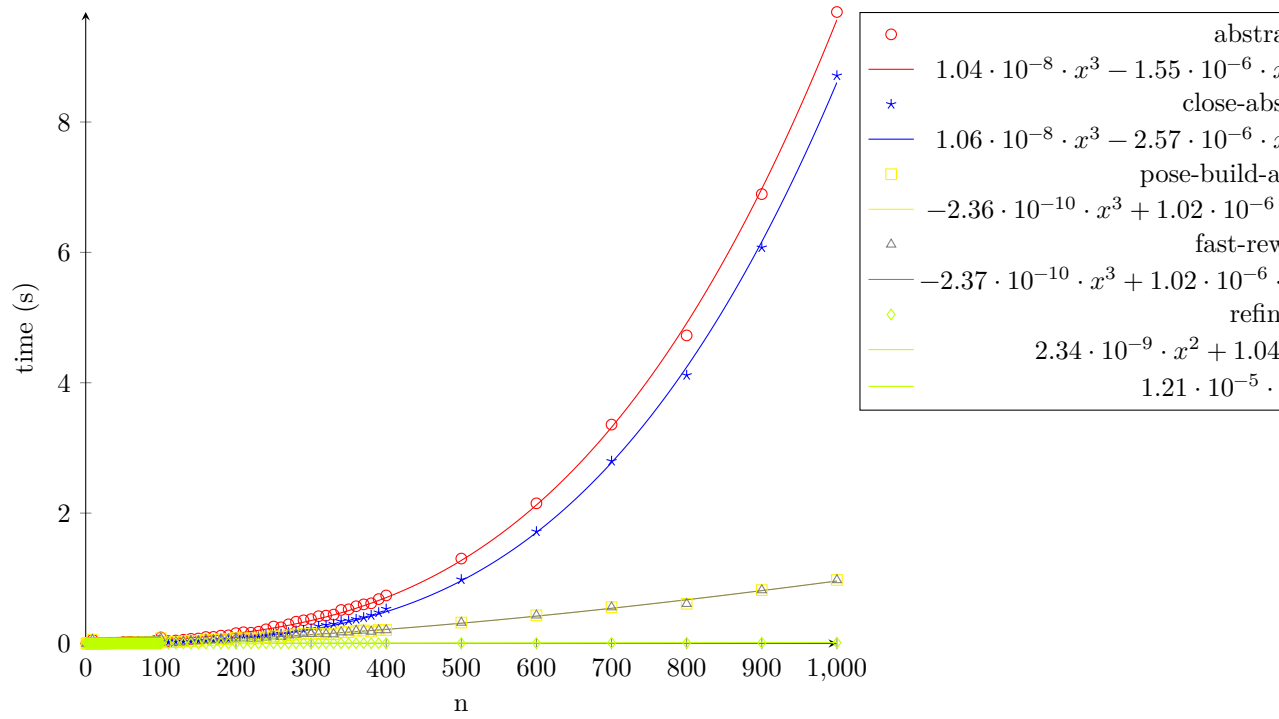Figure 10: timing-rewrite-repeated-app-rewrite-strat
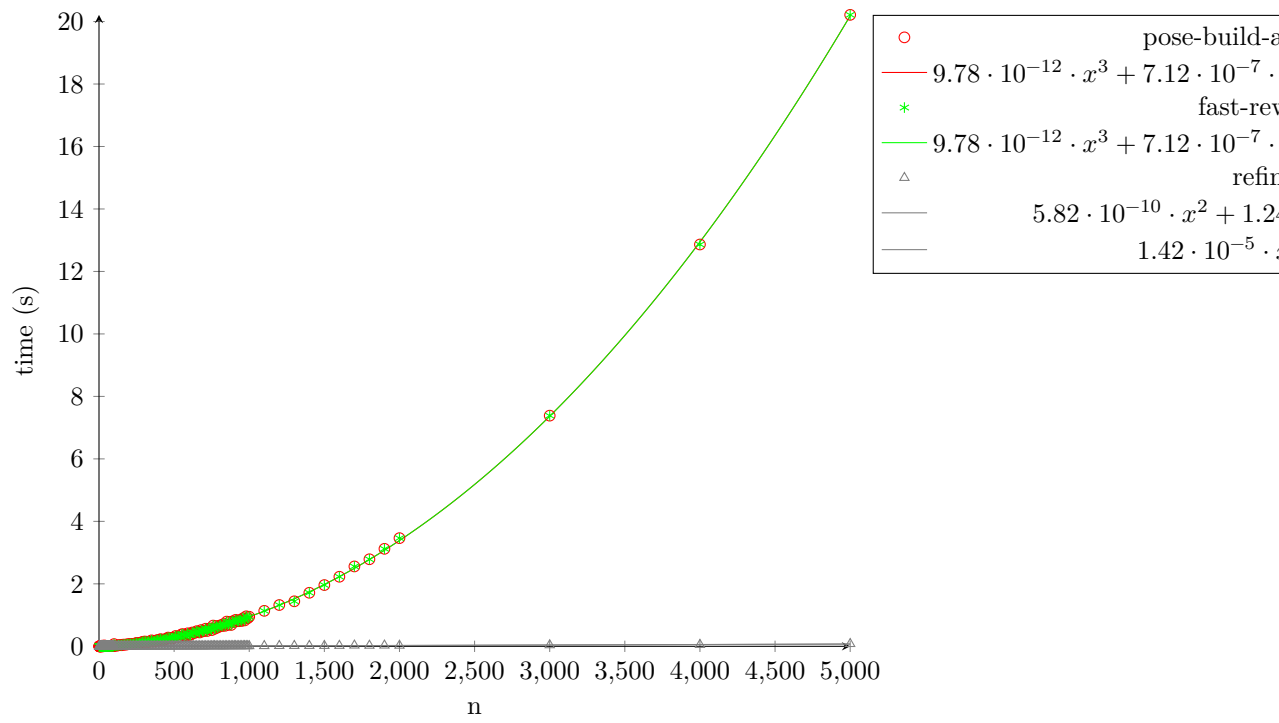
Figure 11: timing-rewrite-repeated-app-fast-rewrite

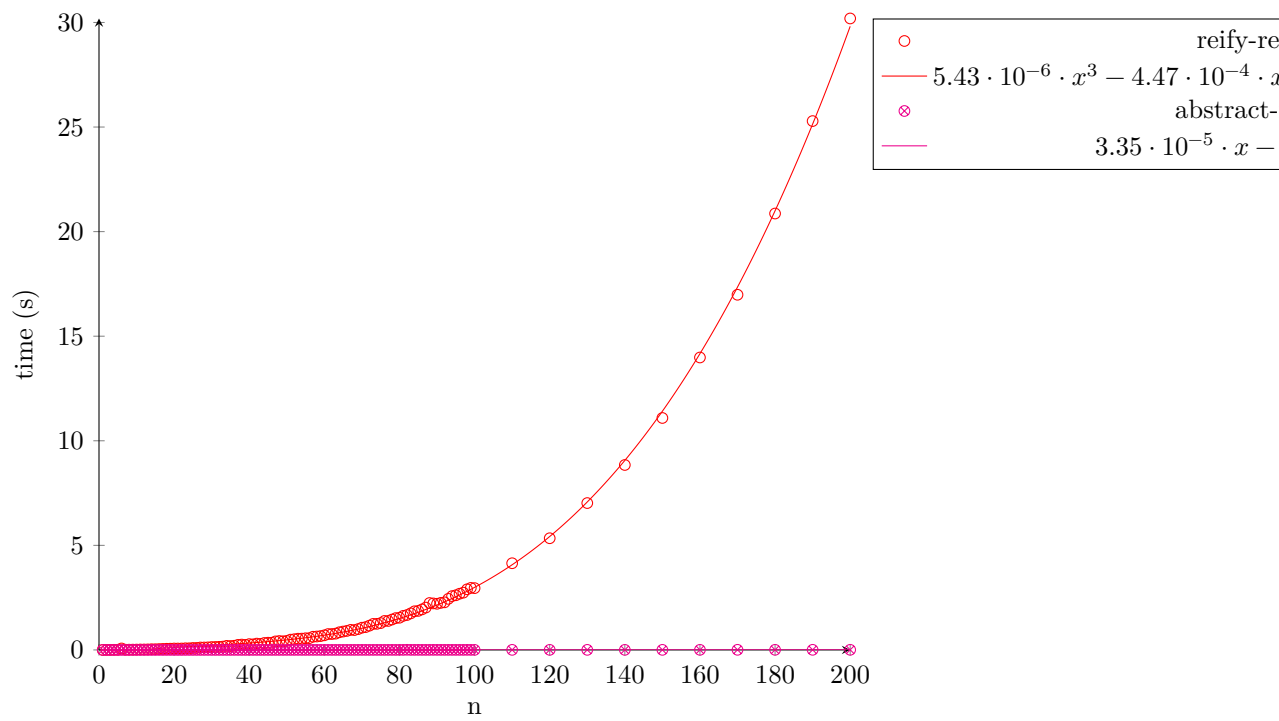Figure 12: timing-rewrite-repeated-app-fast-rewrite-no-abstract

Figure 13: timing-typeclass-reification-let-in-HOAS
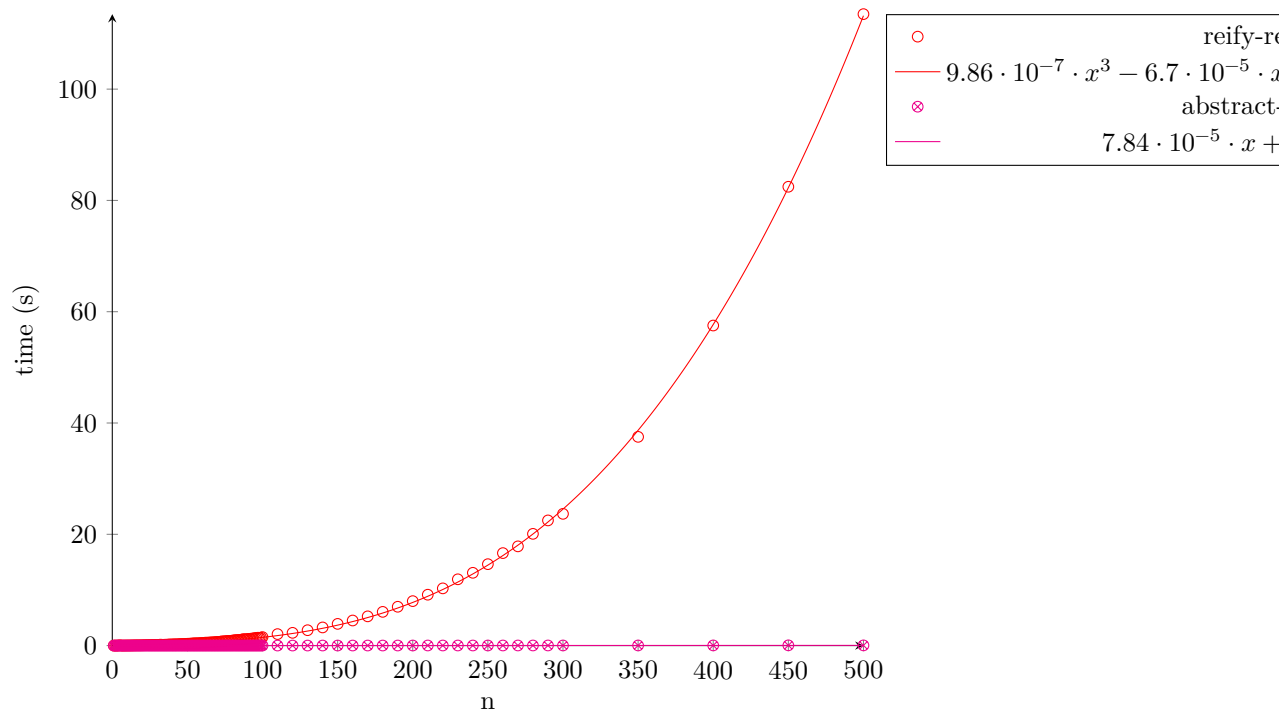
13

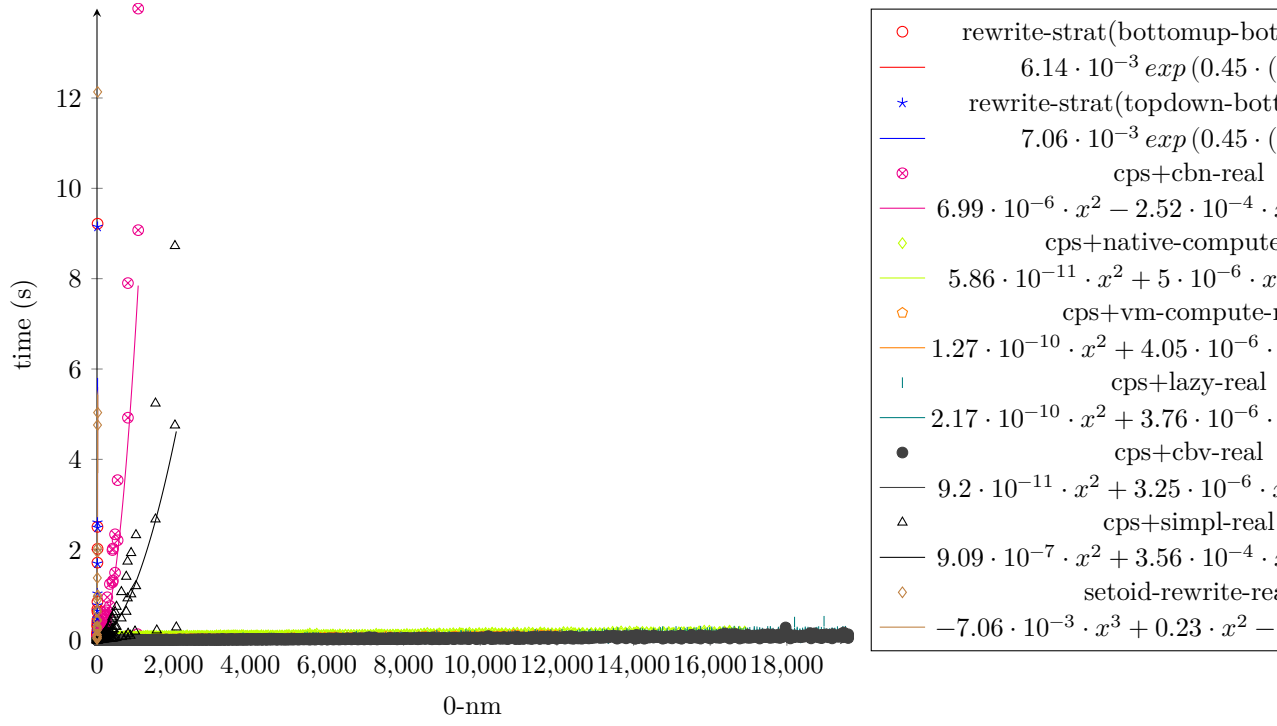Figure 14: timing-typeclass-reification-let-in-PHOAS

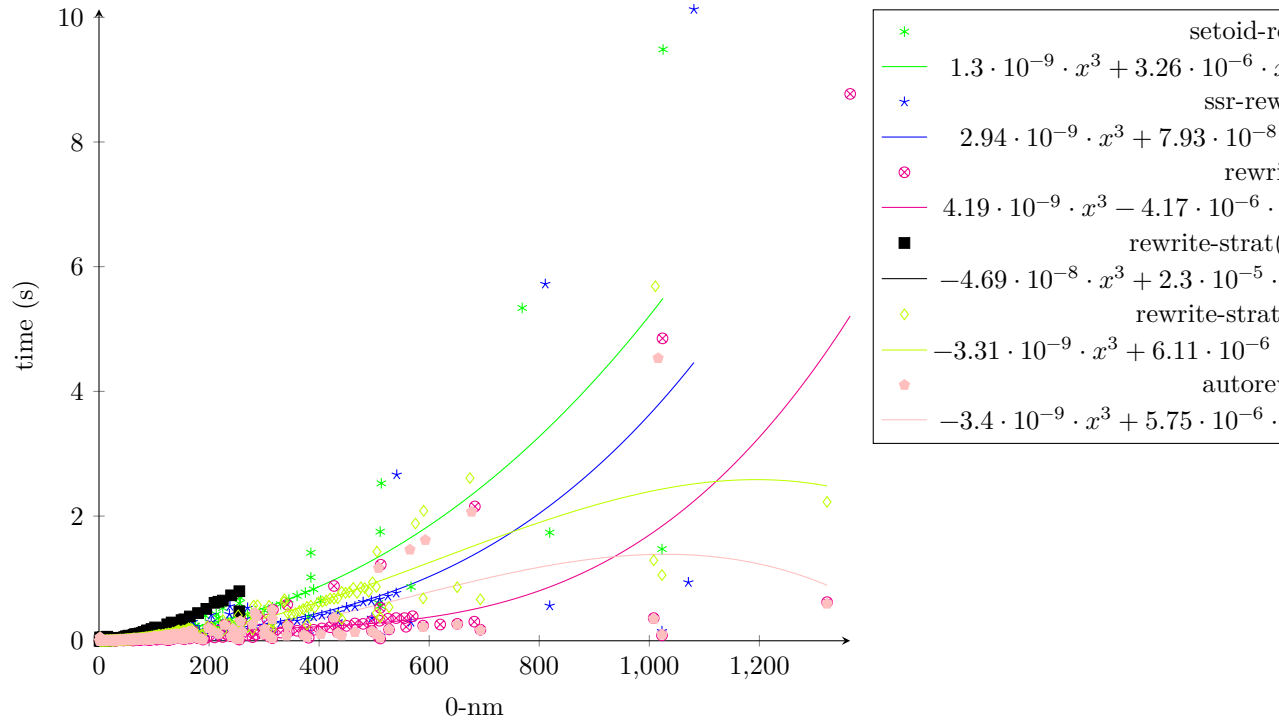Figure 15: timing-rewrite-lift-lets-map param-1-n  1, param-2-m  1

Figure 16: timing-rewrite-plus-0-tree param-1-n 0, param-2-m 1, param-3-input-size 5, param-4-output-size 3, param-5-num-rewrites 1
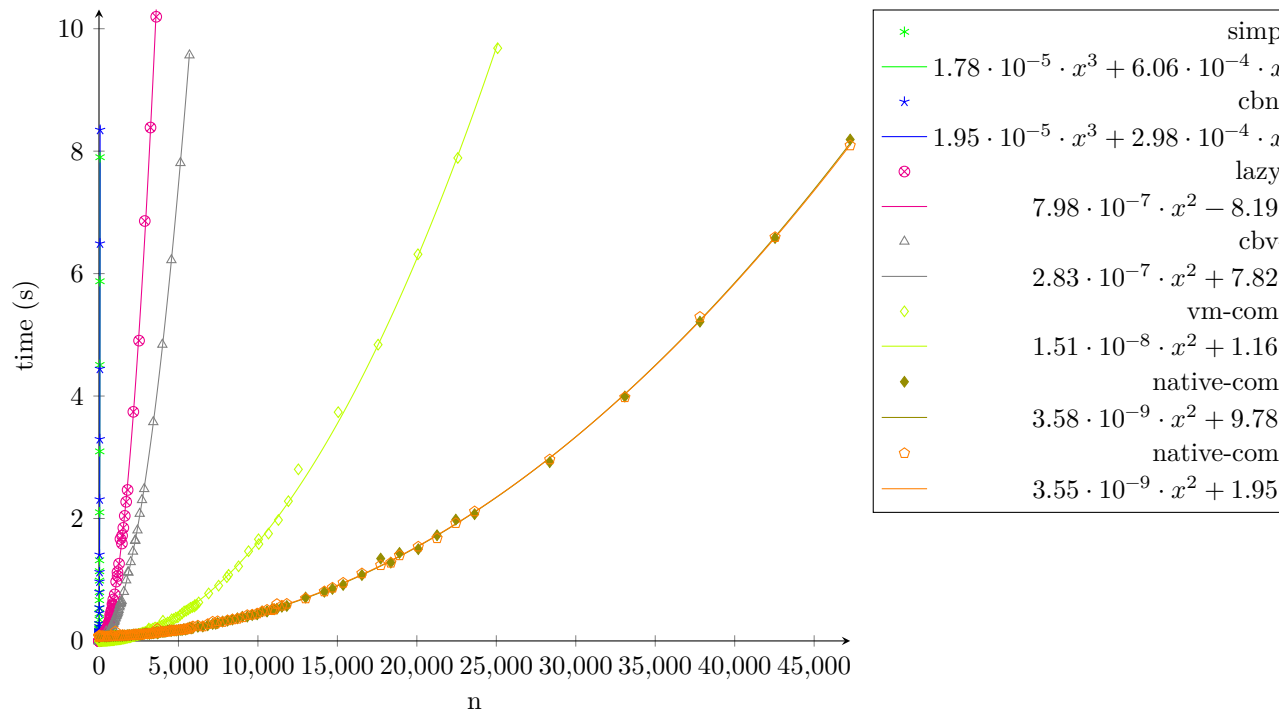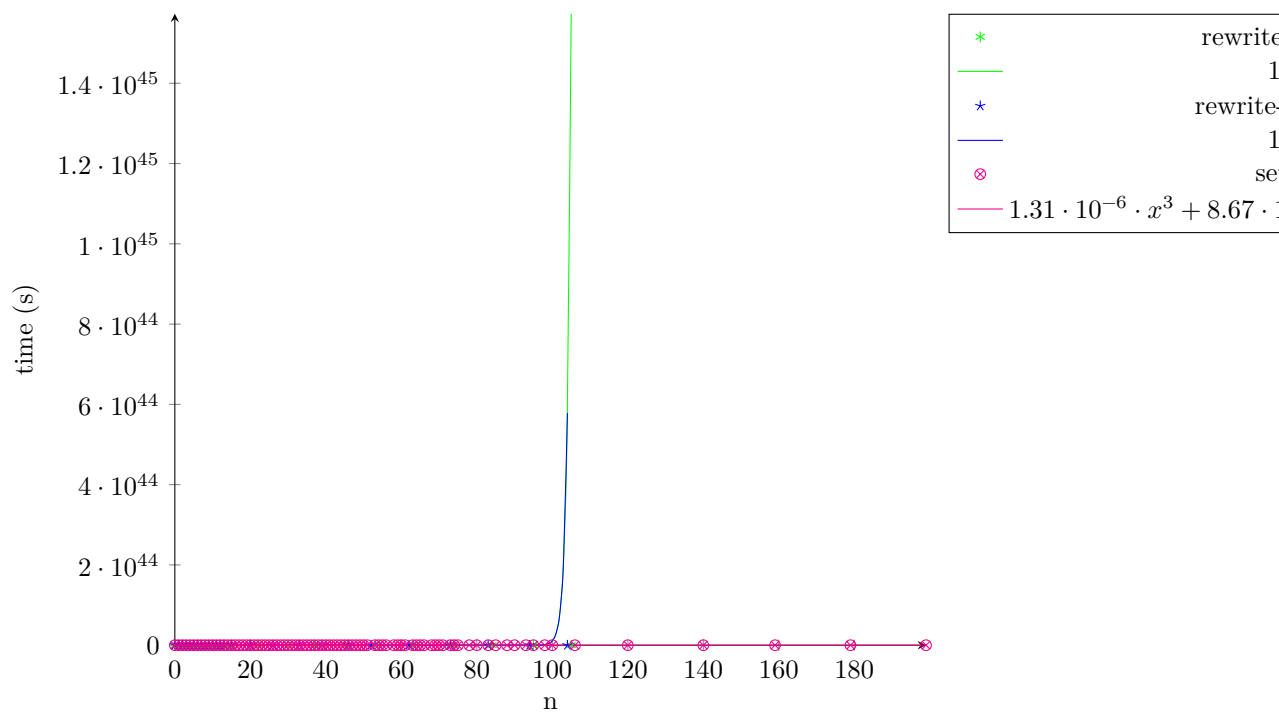
Figure 17: timing-sieve-of-eratosthenes

Figure 18: timing-rewrite-under-lets-plus-0