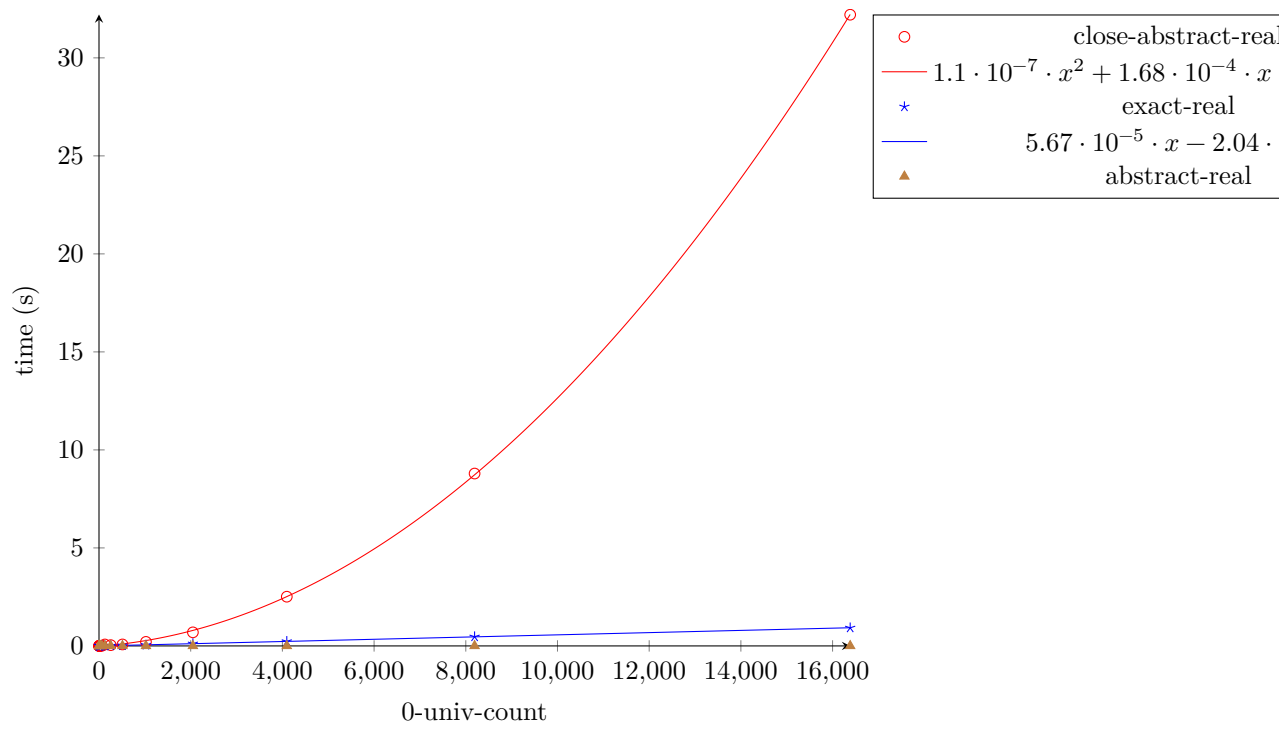Figure 1: timing-pattern

1

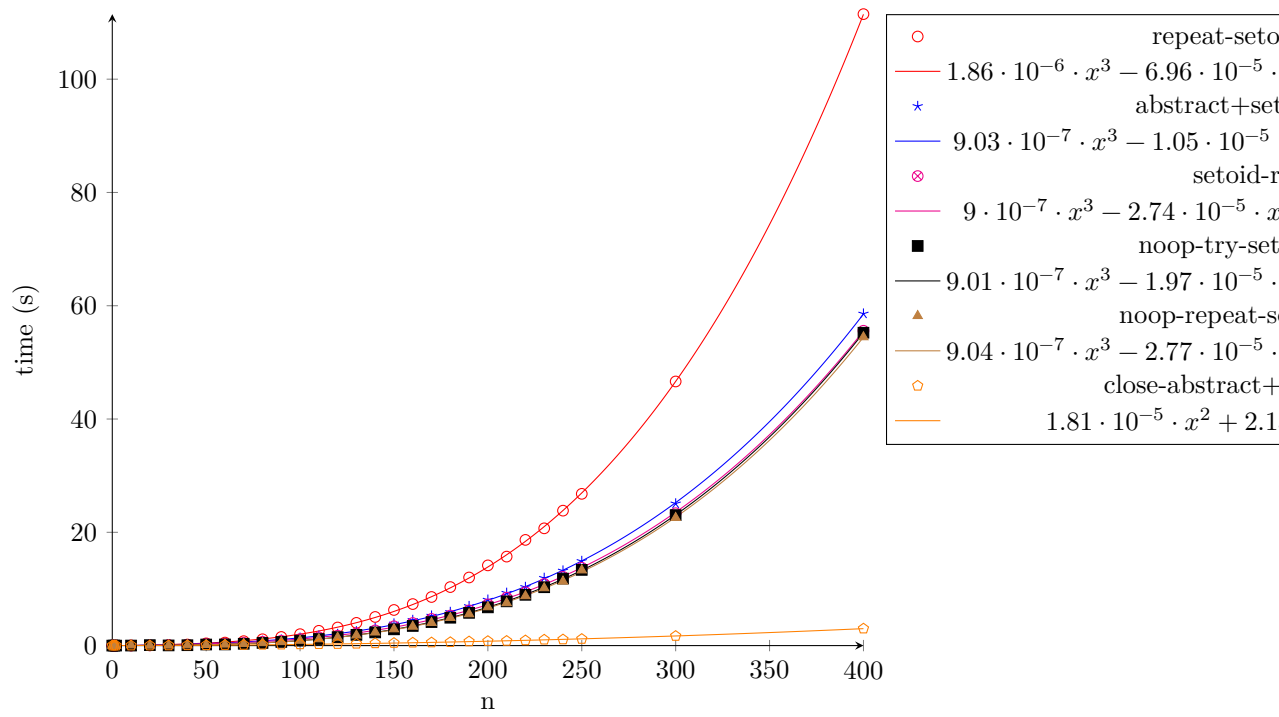Figure 2: timing-n-polymorphic-universes param-1-n 0

Figure 3: timing-repeat-setoid-rewrite-under-binders
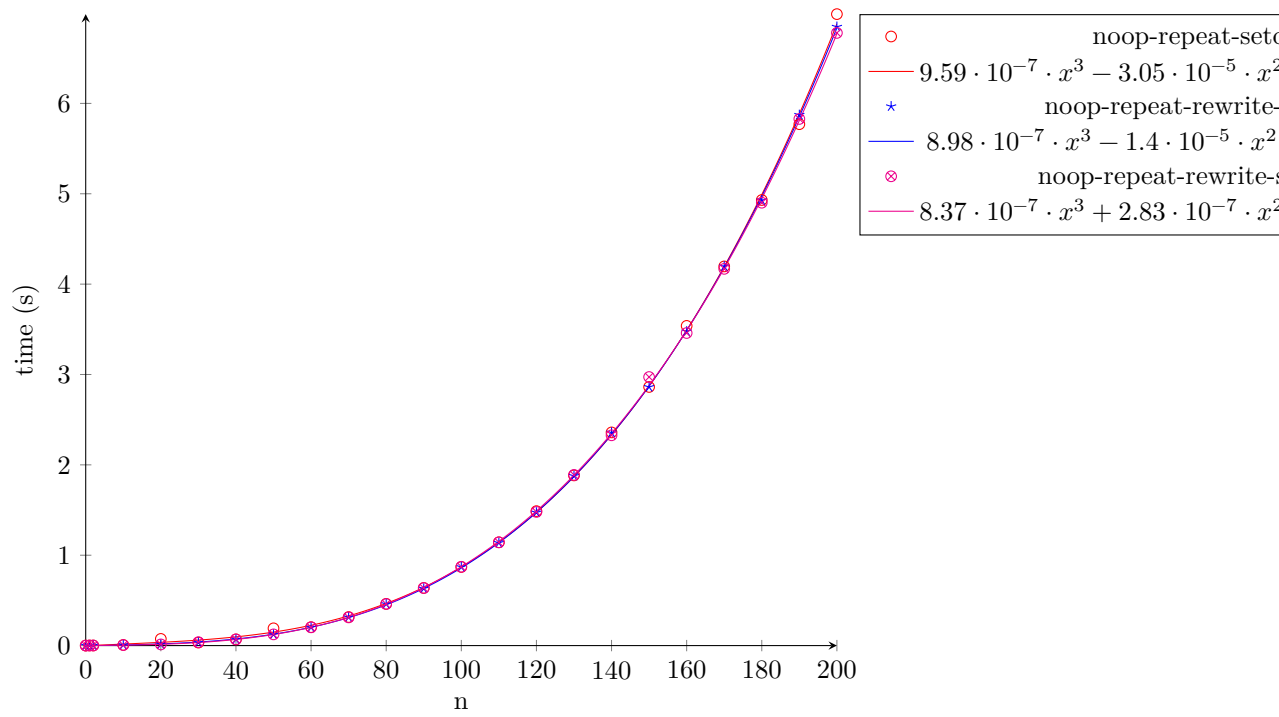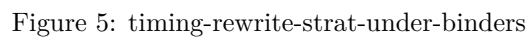
Figure 4: timing-repeat-setoid-rewrite-under-binders-noop

4

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

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

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

The legend entries visible on the right:

autorewrite-noop-r
$3.73 \cdot 10^{-8} \cdot x^2 + 5.02 \cdot 10^{-7} \cdot x$
try-rewrite?-noop-
$3.72 \cdot 10^{-8} \cdot x^2 + 9.46 \cdot 10^{-8} \cdot x$
try-rewrite!-noop-r
$3.71 \cdot 10^{-8} \cdot x^2 + 1.5 \cdot 10^{-6} \cdot x$
try-rewrite-noop-r
$3.7 \cdot 10^{-8} \cdot x^2 + 1.5 \cdot 10^{-6} \cdot x$
try-ssr-rewrite?-noop
$4.6 \cdot 10^{-7} \cdot x - 2.08 \cdot$
try-ssr-rewrite-noop
$4.67 \cdot 10^{-7} \cdot x - 2.06$
try-ssr-rewrite!-noop
$4.09 \cdot 10^{-7} \cdot x + 8.4 \cdot$

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

8

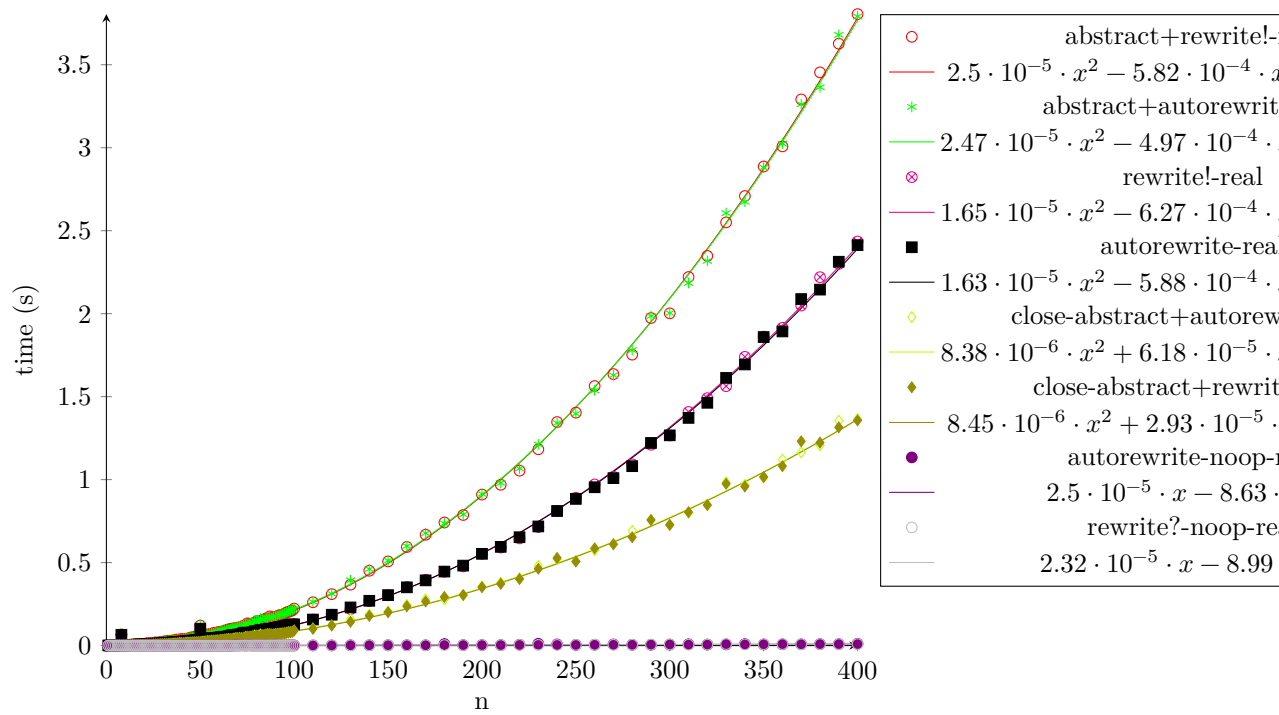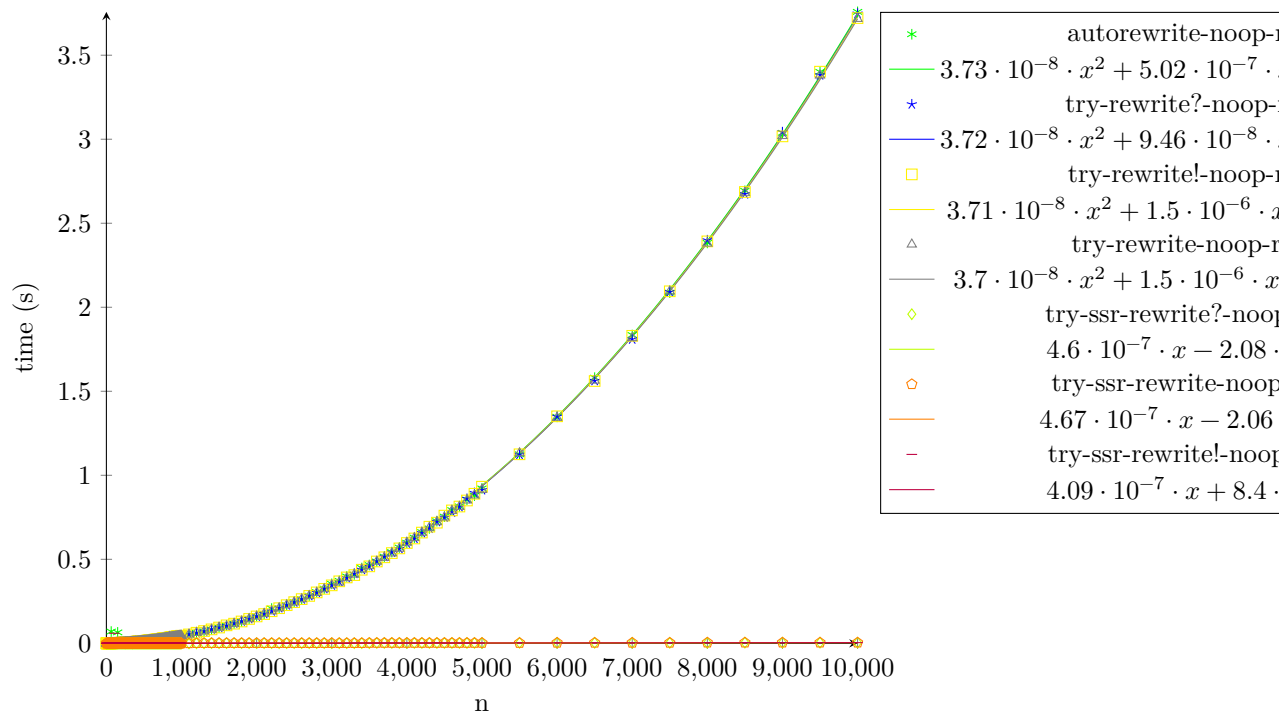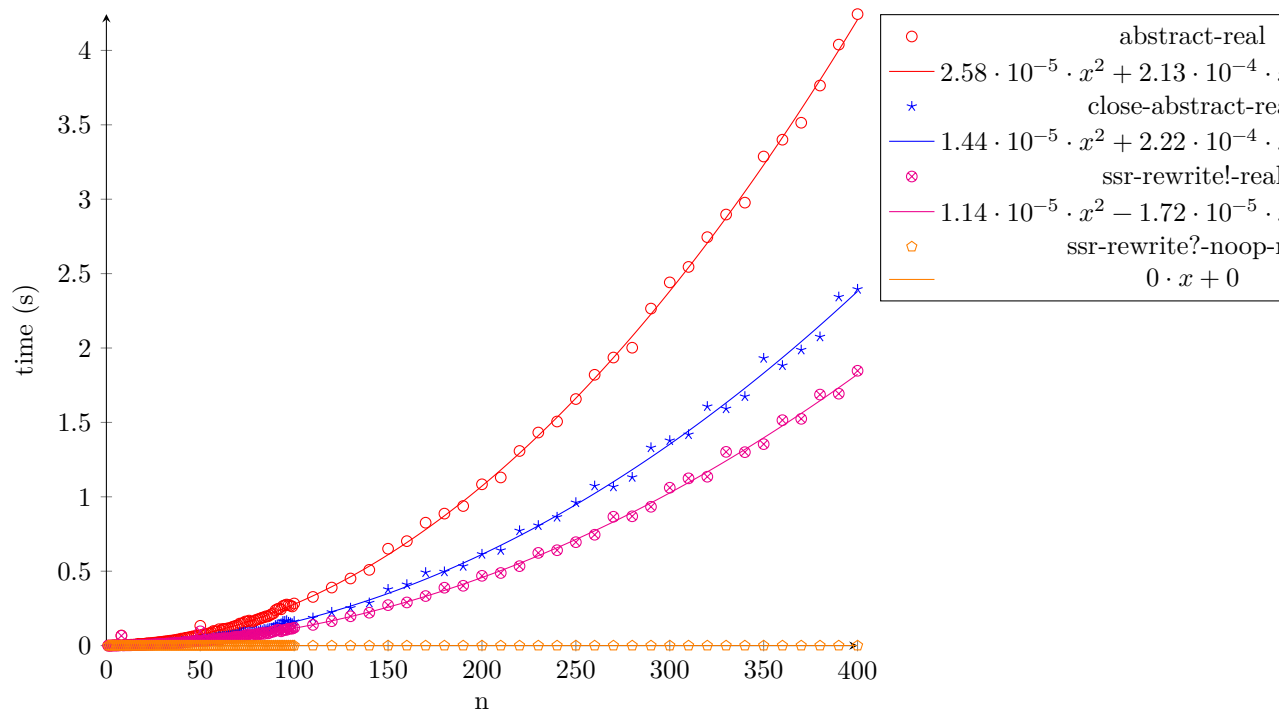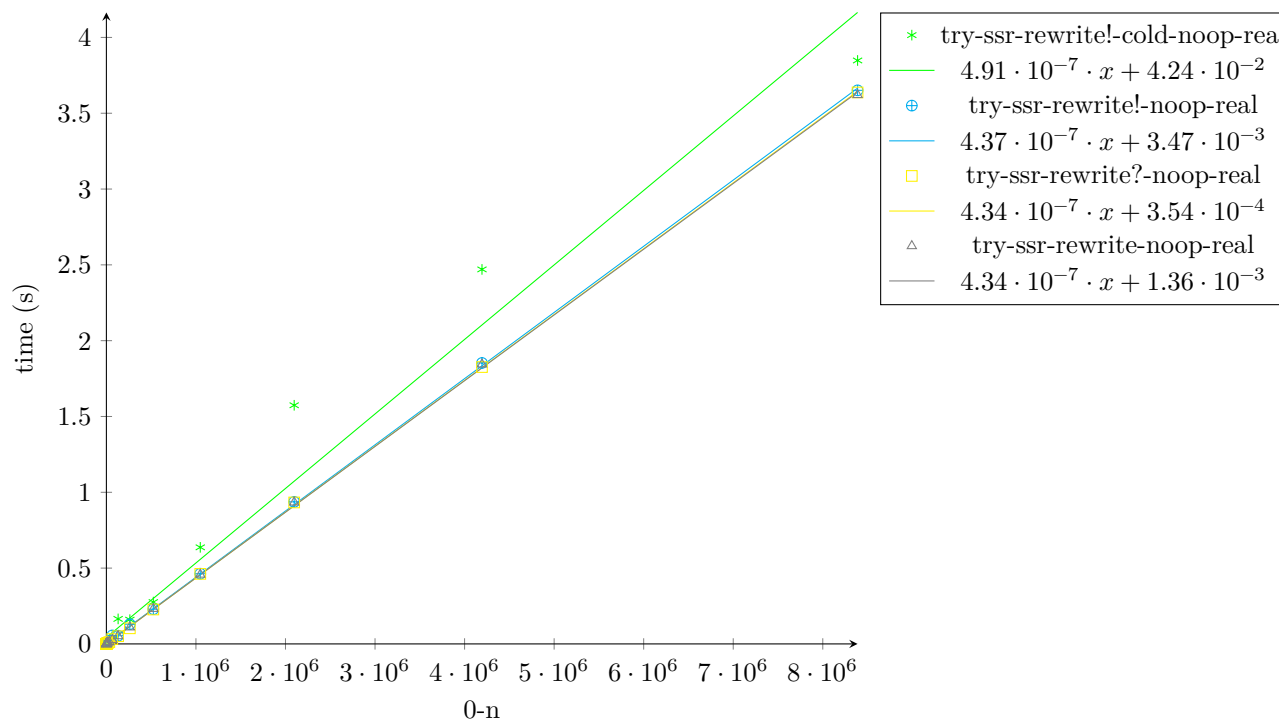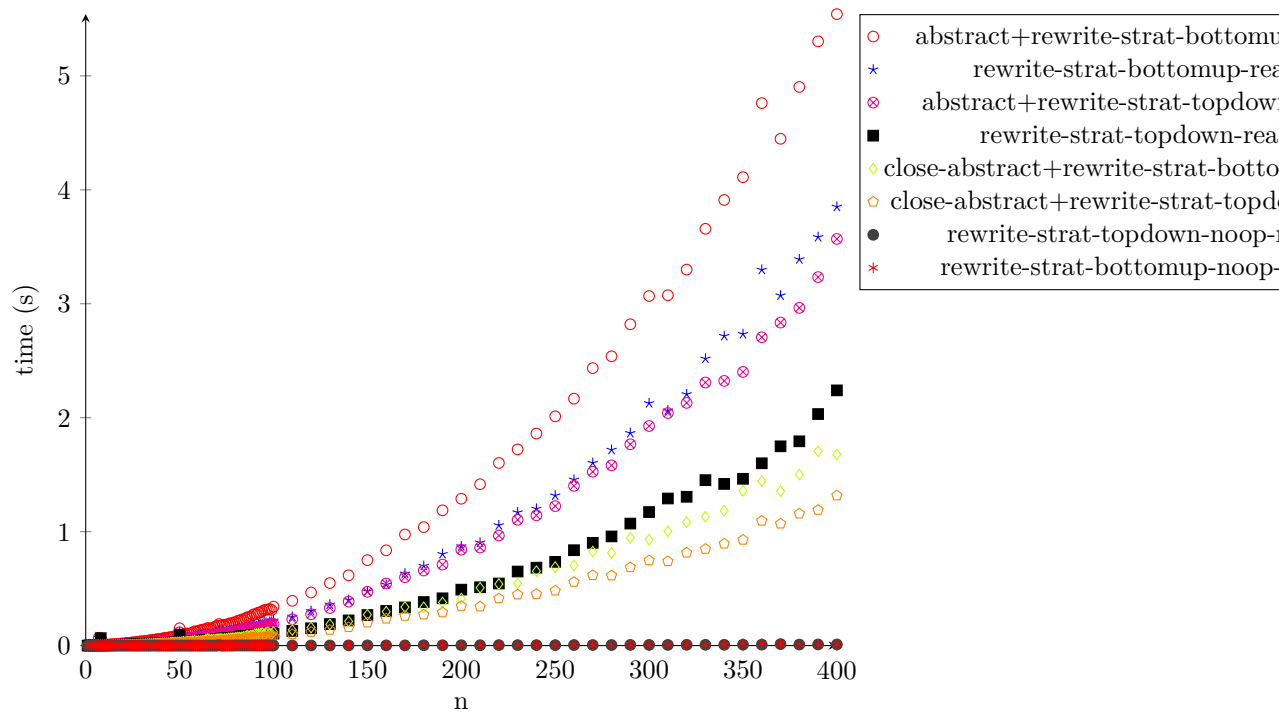Figure 9: timing-rewrite-repeated-app-ssrrewrite-noop param-1-lgn 1

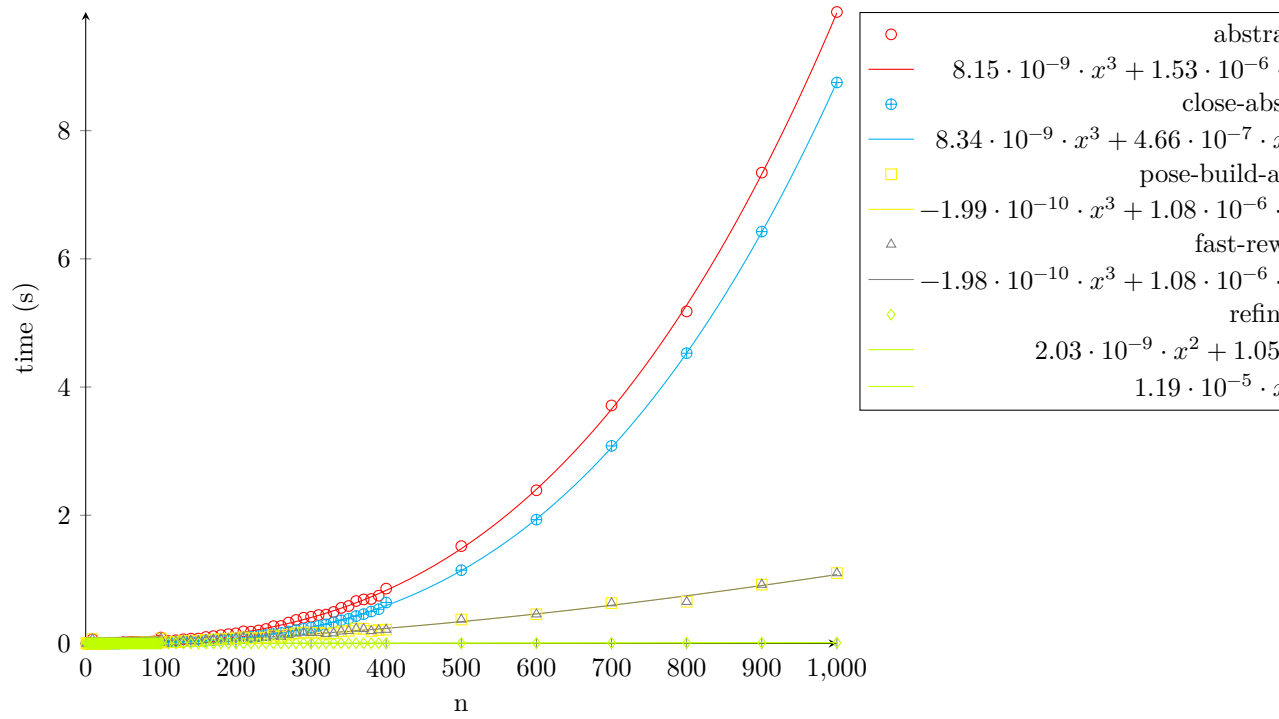Figure 10: timing-rewrite-repeated-app-rewrite-strat

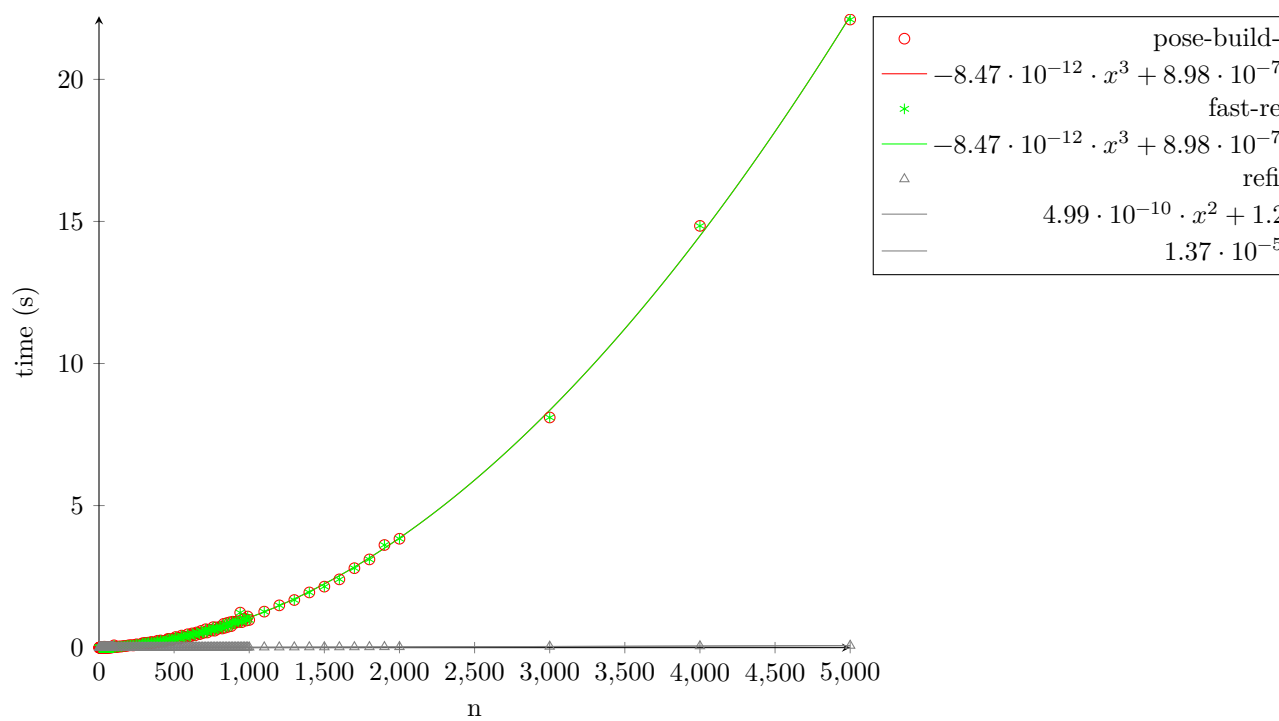Figure 11: timing-rewrite-repeated-app-fast-rewrite

Figure 12: timing-rewrite-repeated-app-fast-rewrite-no-abstract
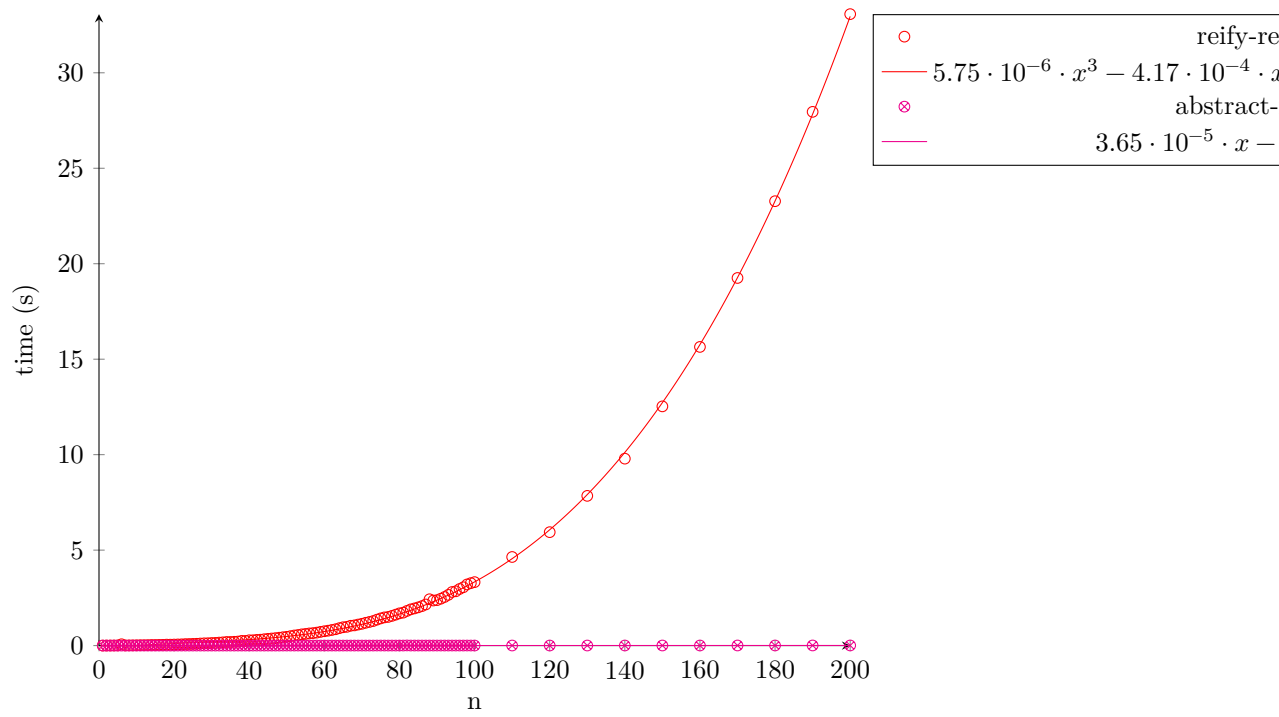
Figure 13: timing-typeclass-reification-let-in-HOAS

The chart contains the following axis labels and legend text:

time (s)

n

Legend:
- rei...
- $7.57 \cdot 10^{-7} \cdot x^3 + 5.97 \cdot 10^{-5} \cdot ...$
- abstr...
- $8.8 \cdot 10^{-5} \cdot ...$
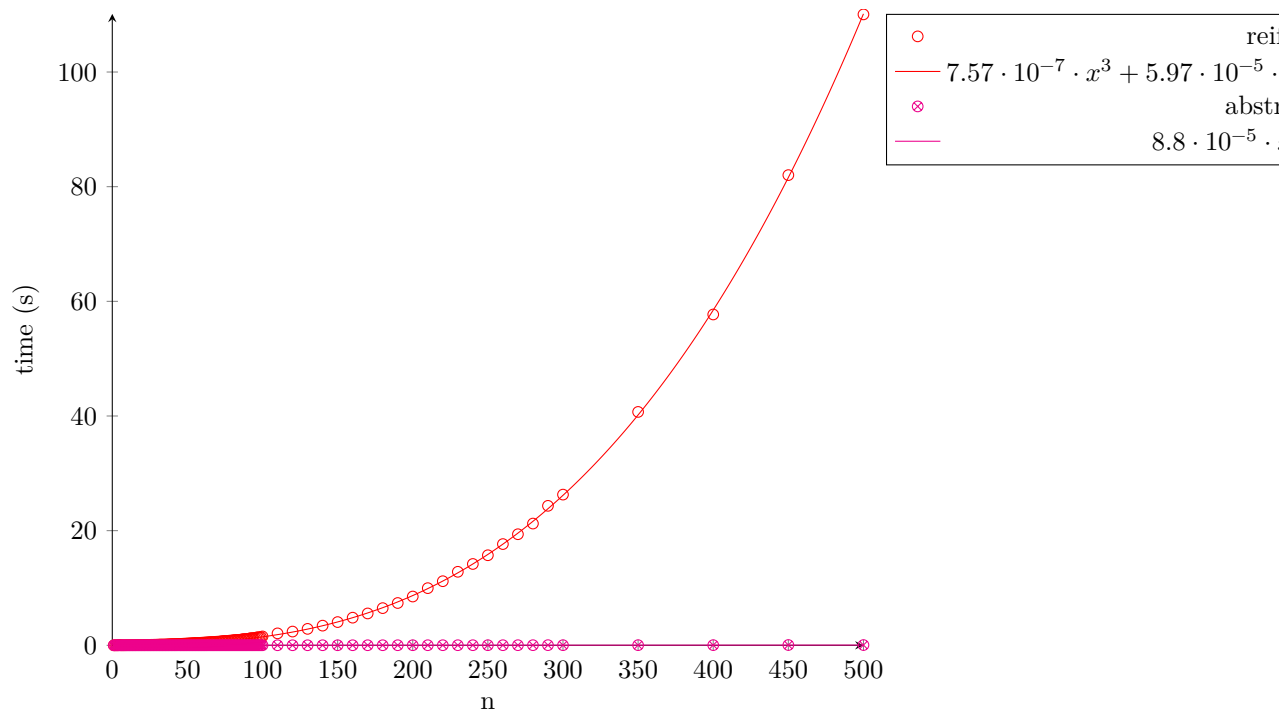
Figure 14: timing-typeclass-reification-let-in-PHOAS
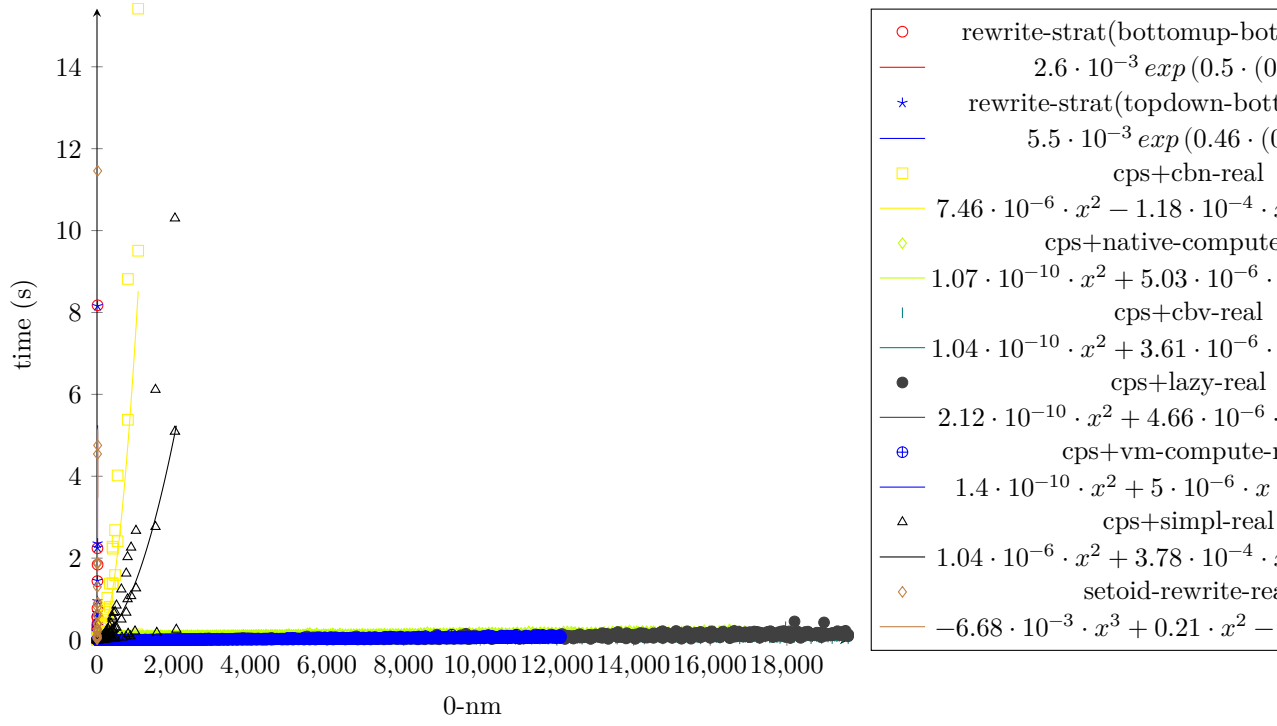
Figure 15: timing-rewrite-lift-lets-map param-1-n 1, param-2-m 1

The plot contains the following legend entries and fitted curves:

- setoid-r... (green star markers)
  $1.62 \cdot 10^{-9} \cdot x^3 + 3.1 \cdot 10^{-6} \cdot \ldots$
- ssr-rew... (blue star markers)
  $2.86 \cdot 10^{-9} \cdot x^3 + 2.37 \cdot 10^{-7} \cdot \ldots$
- rewri... (magenta circle-cross markers)
  $4.28 \cdot 10^{-9} \cdot x^3 - 4.34 \cdot 10^{-6} \cdot \ldots$
- rewrite-strat((black square markers)
  $-4.55 \cdot 10^{-8} \cdot x^3 + 2.45 \cdot 10^{-5} \cdot \ldots$
- rewrite-strat... (yellow diamond markers)
  $-3.52 \cdot 10^{-9} \cdot x^3 + 6.62 \cdot 10^{-6} \cdot \ldots$
- autore... (red dash markers)
  $-3.35 \cdot 10^{-9} \cdot x^3 + 5.7 \cdot 10^{-6} \cdot \ldots$

Axis labels: time (s) on the vertical axis, 0-nm on the horizontal axis.
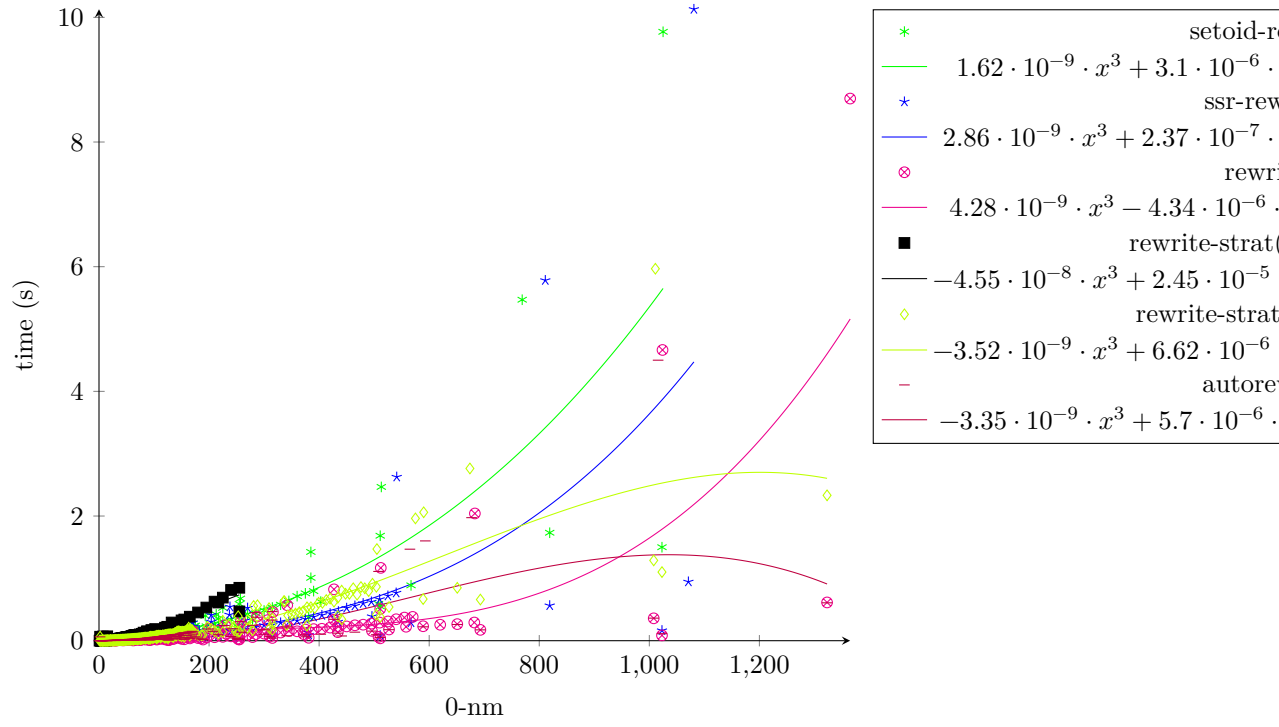
Figure 16: timing-rewrite-plus-0-tree param-1-n 0, param-2-m 1, param-3-input-size 5, param-4-output-size 3, param-5-num-rewrites 1
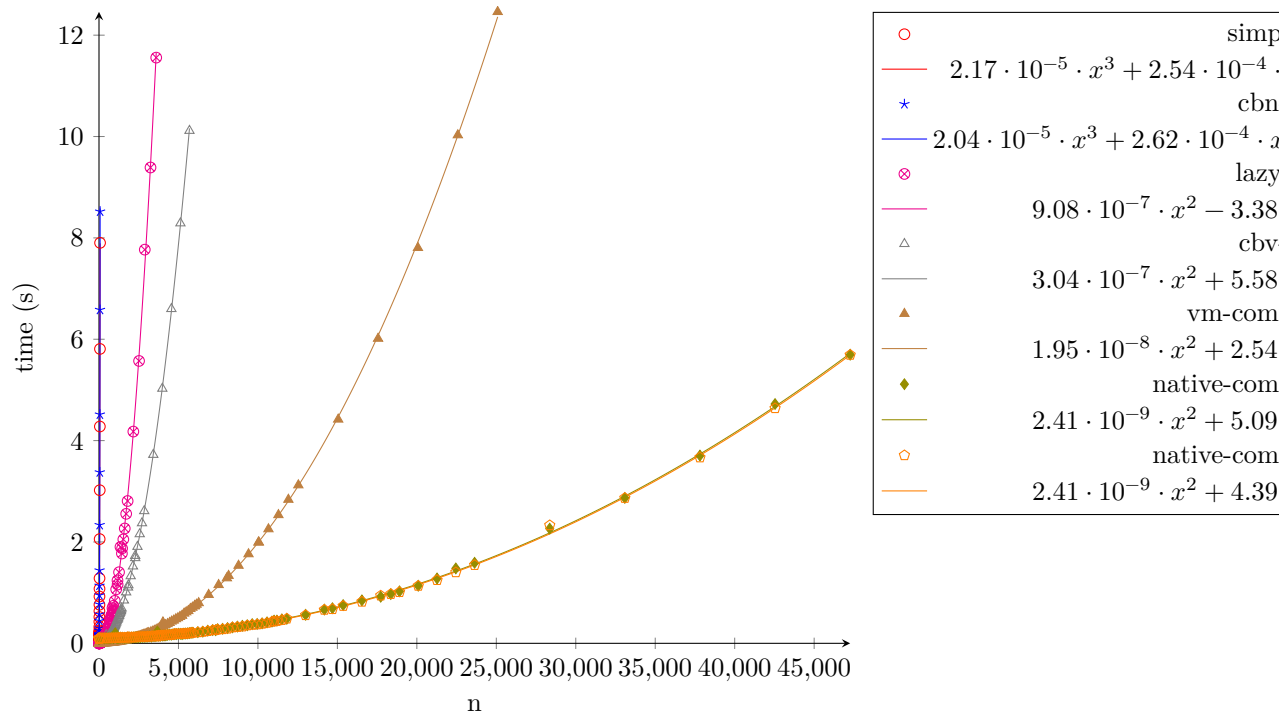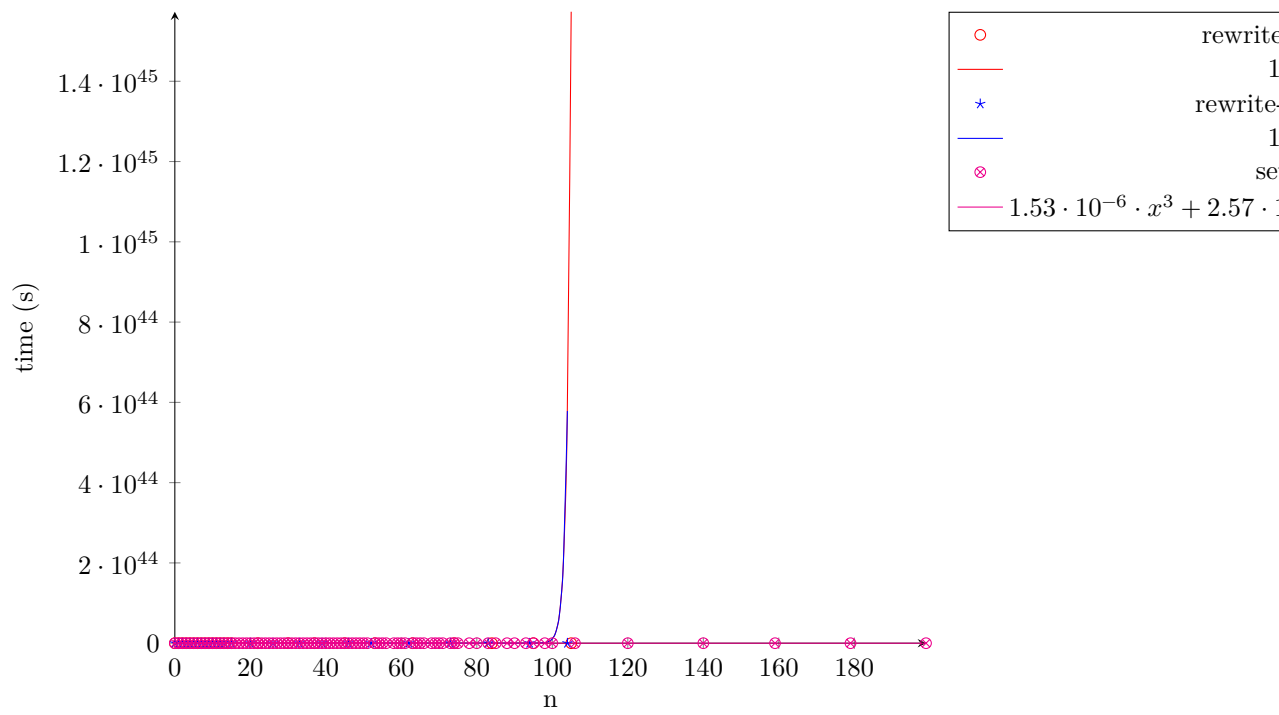
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Figure 17: timing-sieve-of-eratosthenes

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