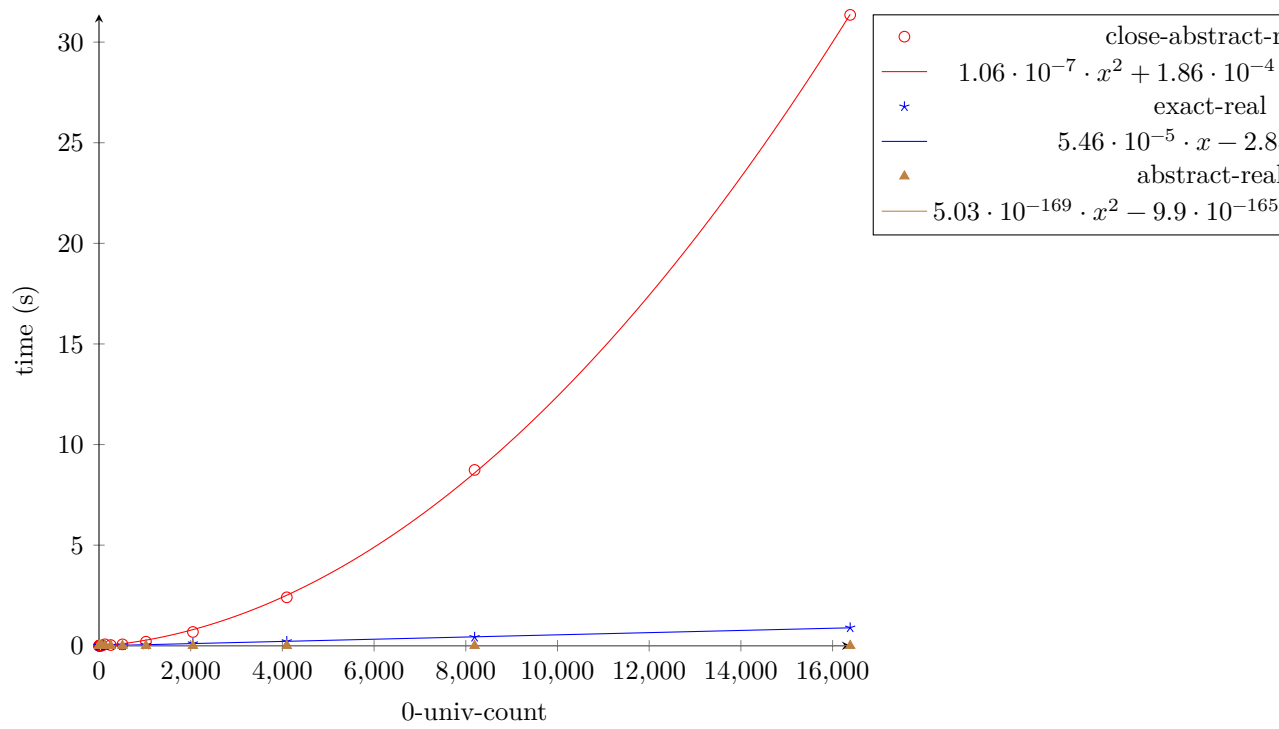Figure 1: timing-pattern

1

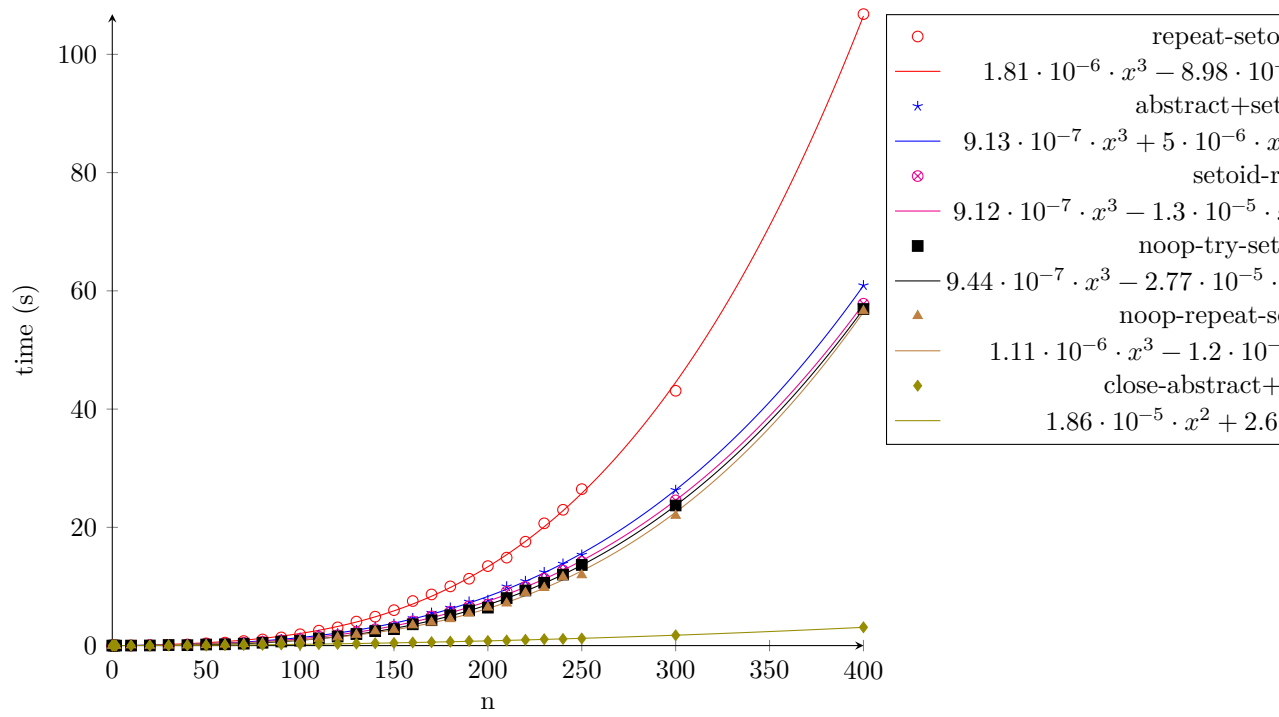Figure 2: timing-n-polymorphic-universes param-1-n   0

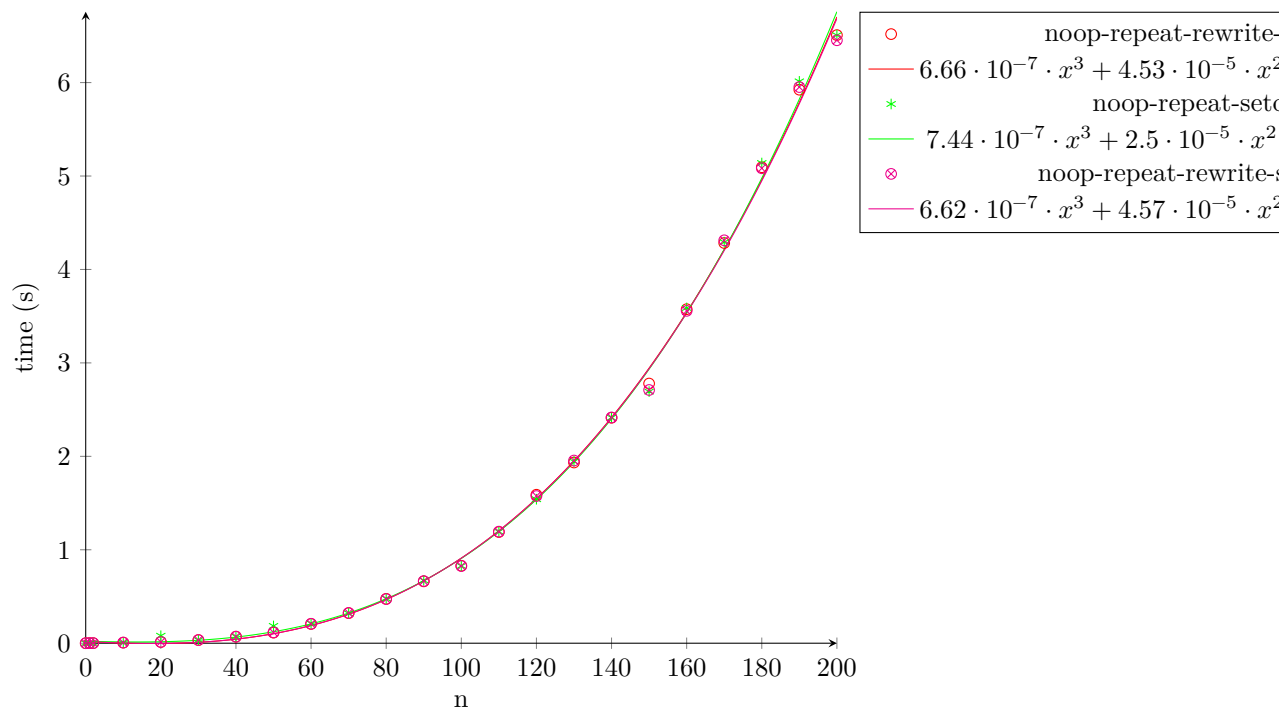Figure 3: timing-repeat-setoid-rewrite-under-binders

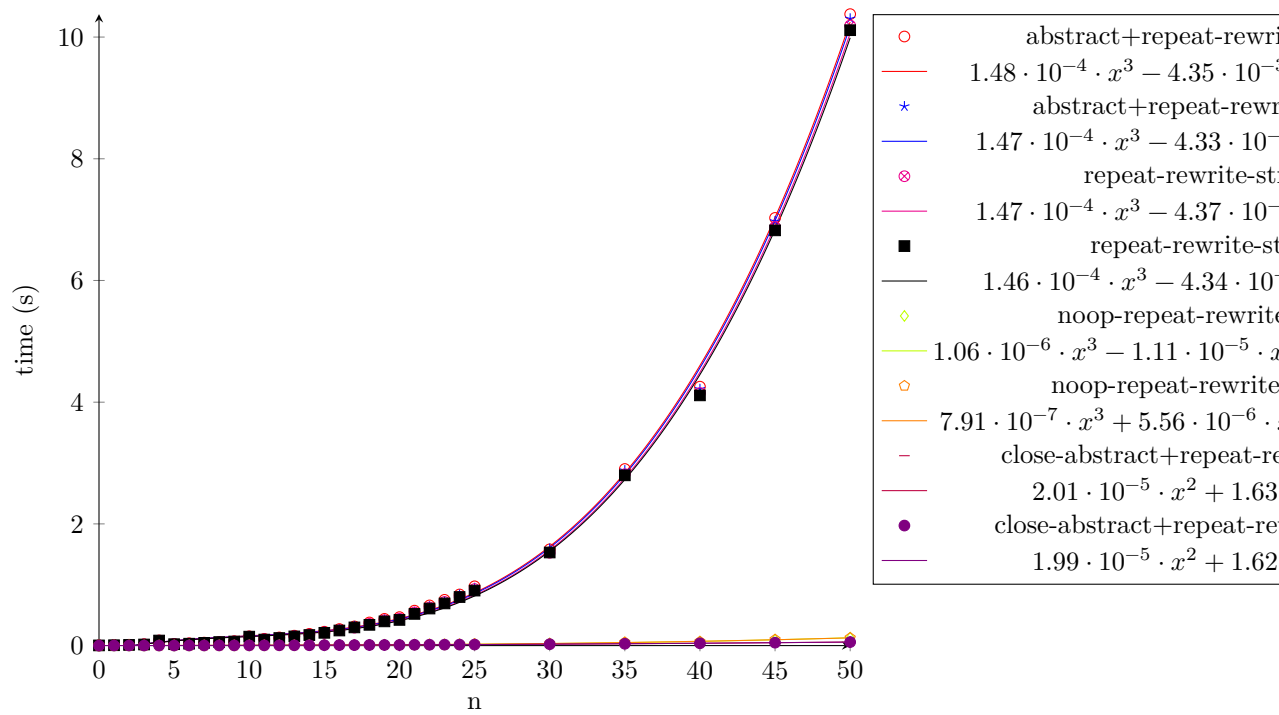Figure 4: timing-repeat-setoid-rewrite-under-binders-noop

4

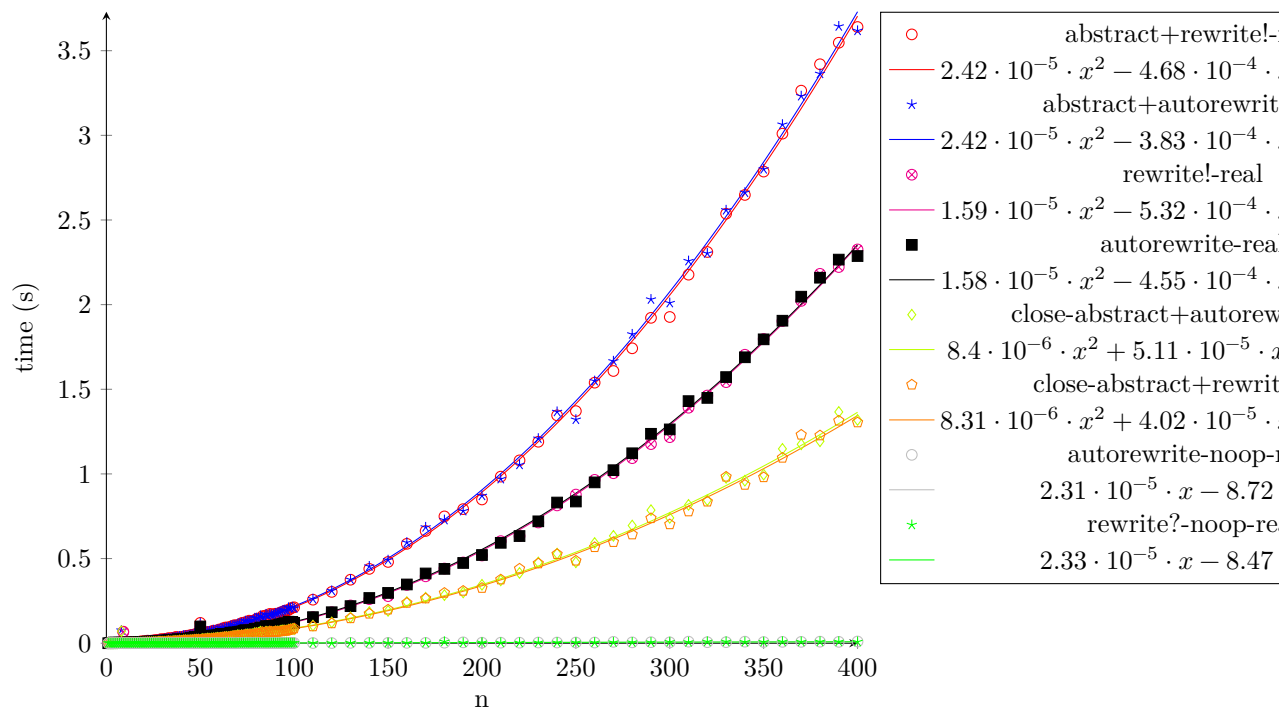Figure 5: timing-rewrite-strat-under-binders
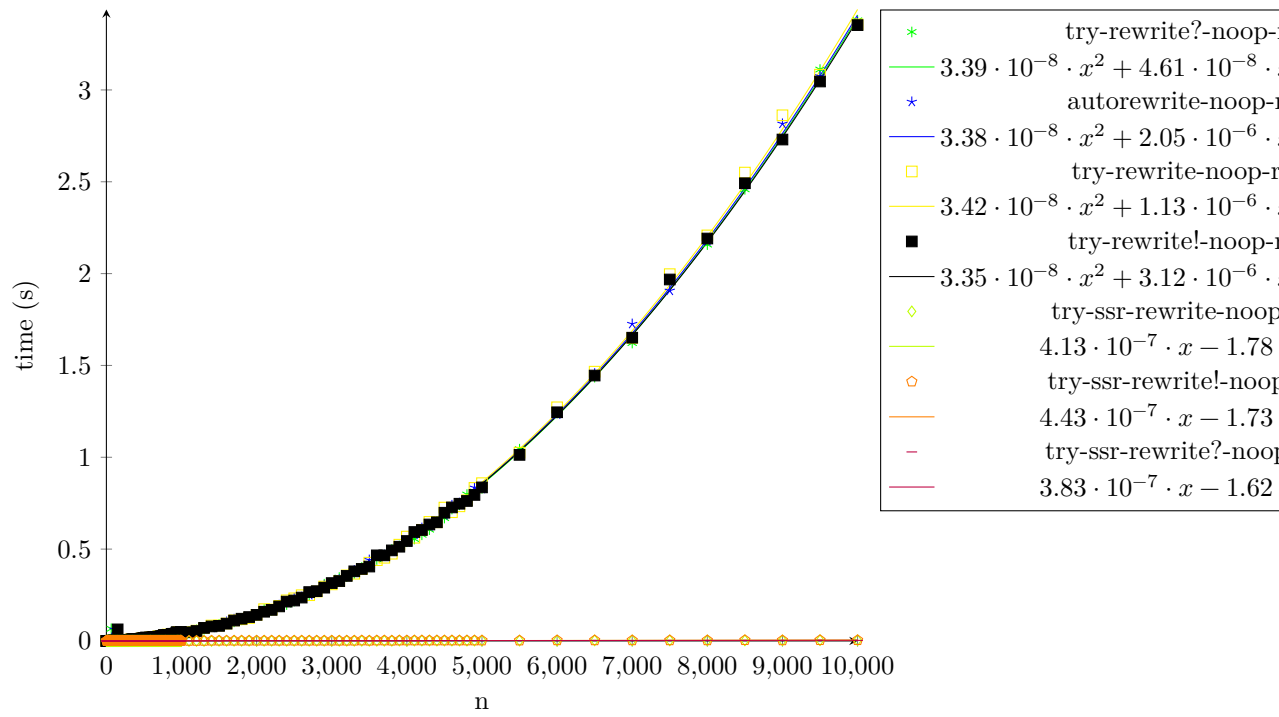
Figure 6: timing-rewrite-repeated-app-autorewrite

6

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

The plot shows several curves with the following legend entries and fits:

- try-rewrite?-noop-
  $3.39 \cdot 10^{-8} \cdot x^2 + 4.61 \cdot 10^{-8} \cdot$

- autorewrite-noop-
  $3.38 \cdot 10^{-8} \cdot x^2 + 2.05 \cdot 10^{-6} \cdot$

- try-rewrite-noop-
  $3.42 \cdot 10^{-8} \cdot x^2 + 1.13 \cdot 10^{-6} \cdot$

- try-rewrite!-noop-
  $3.35 \cdot 10^{-8} \cdot x^2 + 3.12 \cdot 10^{-6} \cdot$

- try-ssr-rewrite-noop
  $4.13 \cdot 10^{-7} \cdot x - 1.78$

- try-ssr-rewrite!-noop
  $4.43 \cdot 10^{-7} \cdot x - 1.73$

- try-ssr-rewrite?-noop
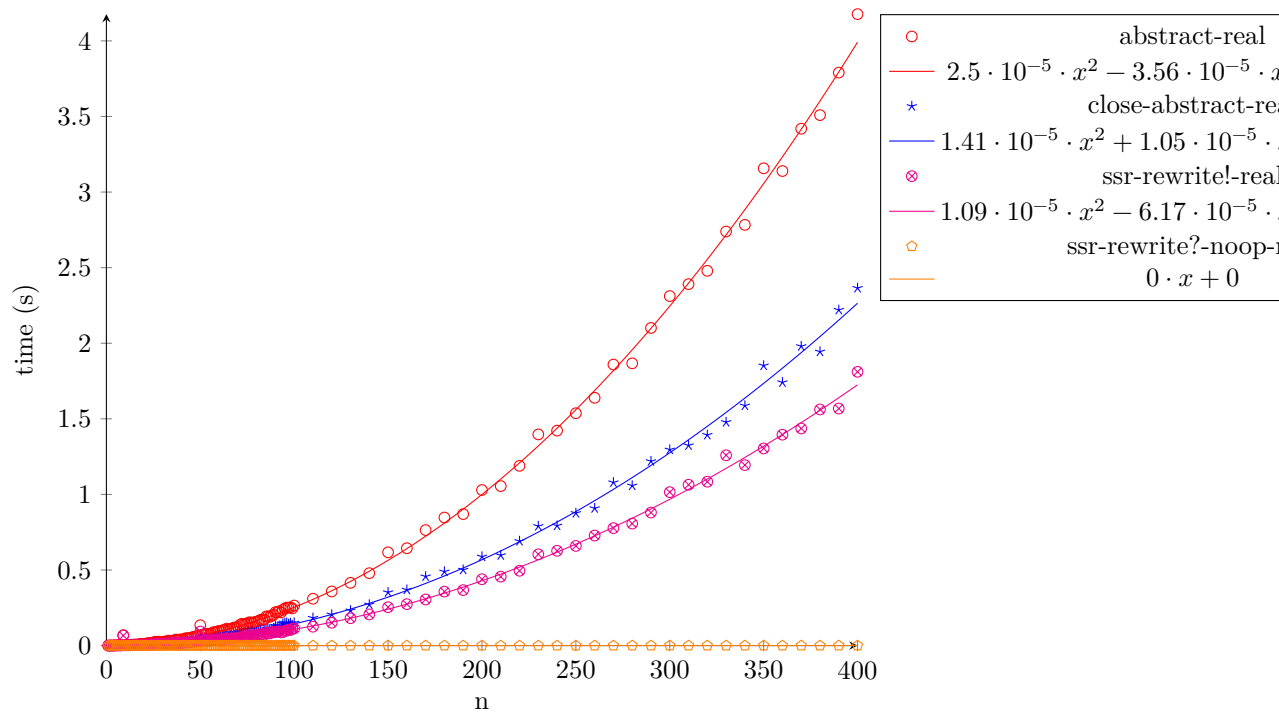 $3.83 \cdot 10^{-7} \cdot x - 1.62$

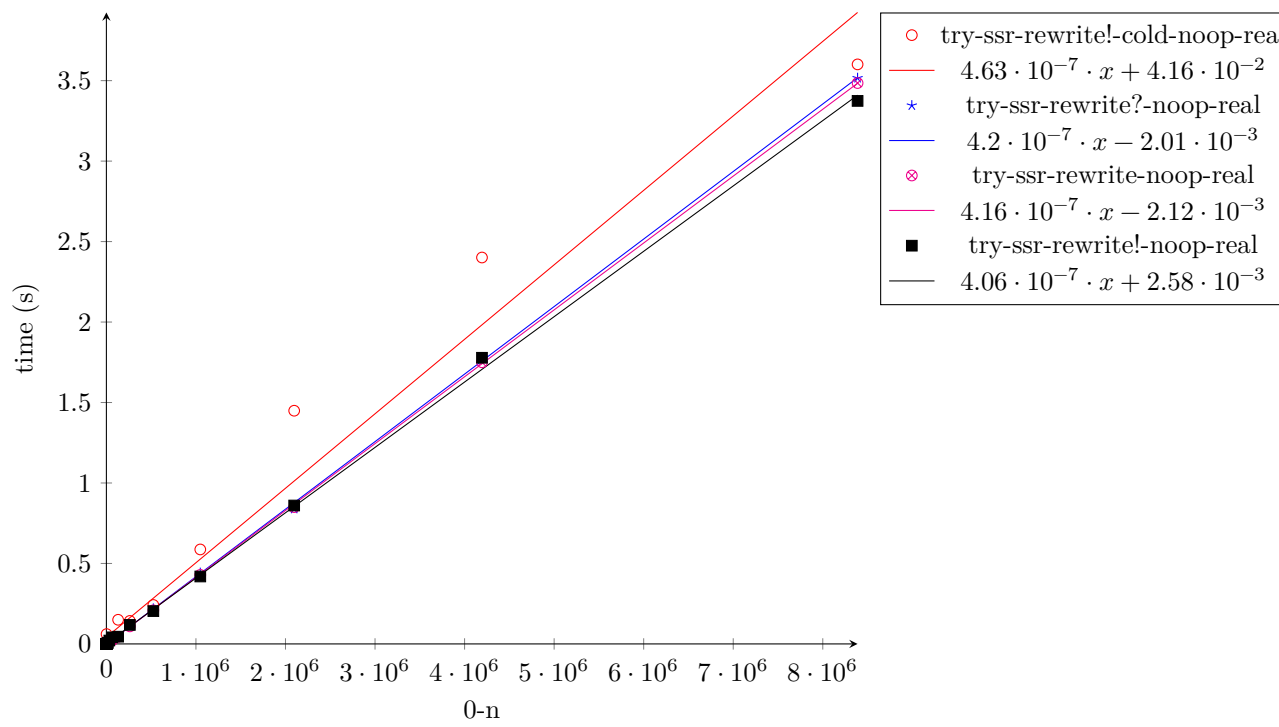Figure 8: timing-rewrite-repeated-app-ssrrewrite

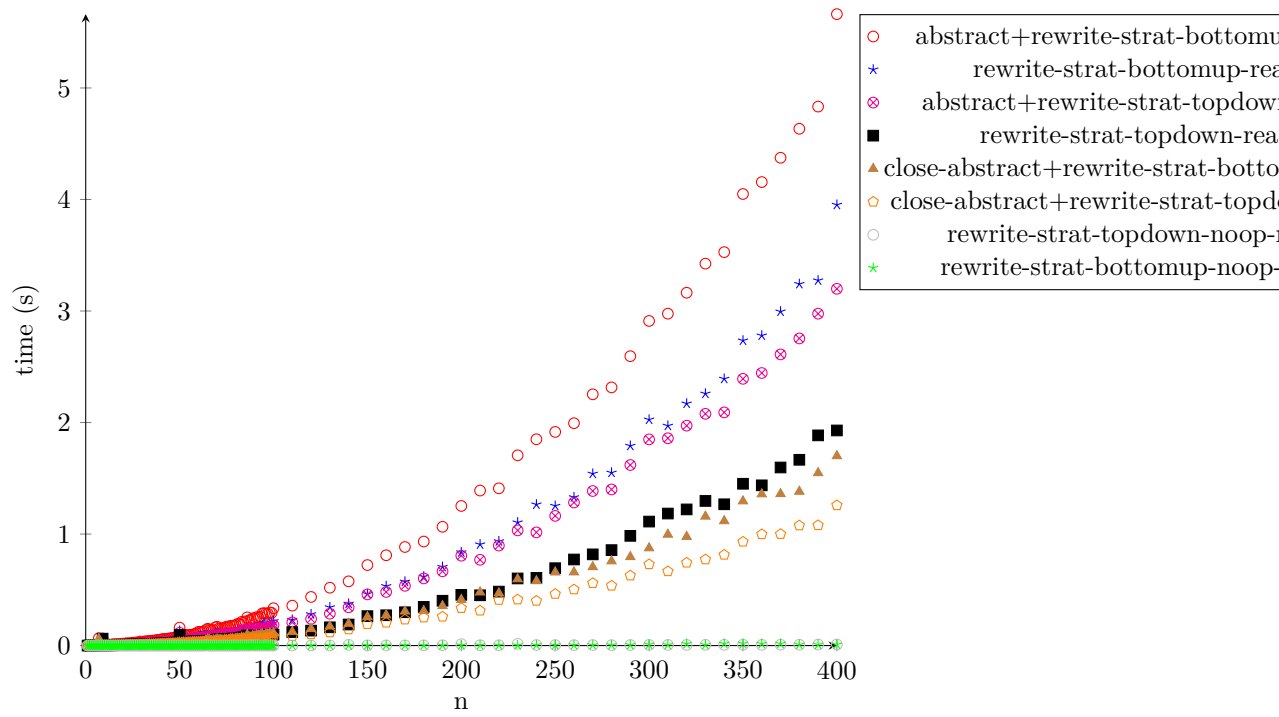Figure 9: timing-rewrite-repeated-app-ssrrewrite-noop param-1-lgn 1

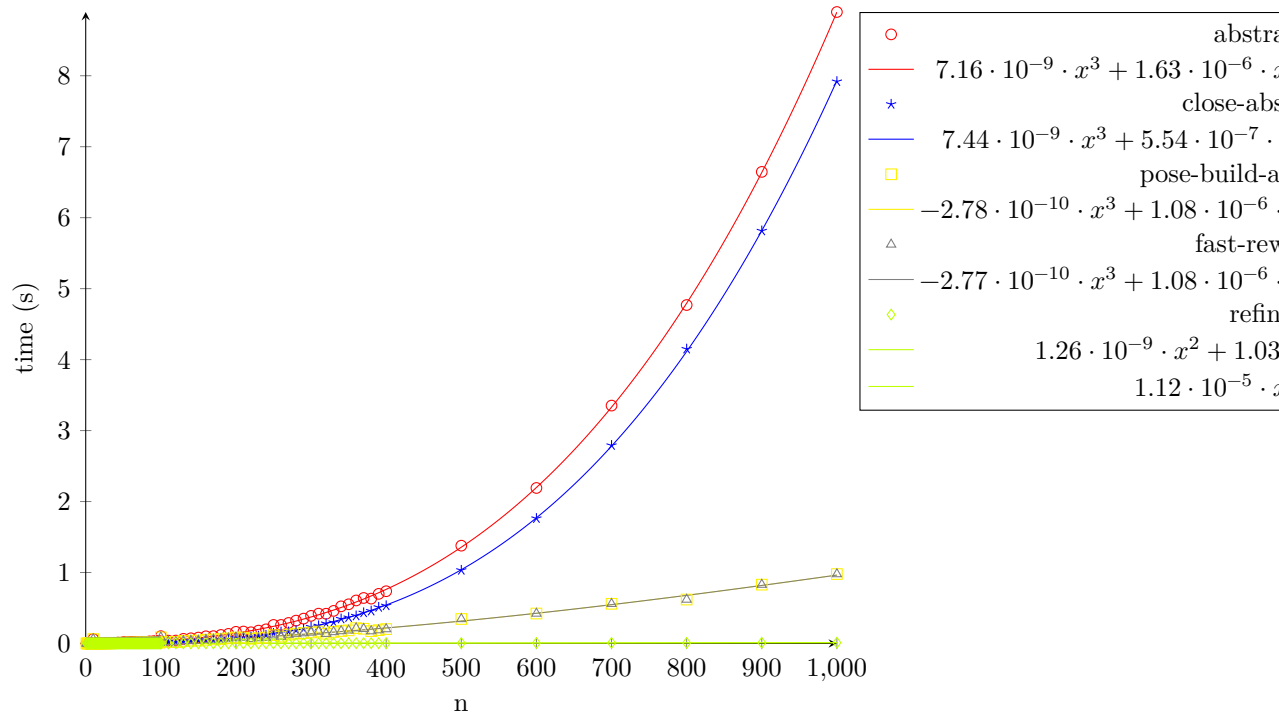Figure 10: timing-rewrite-repeated-app-rewrite-strat

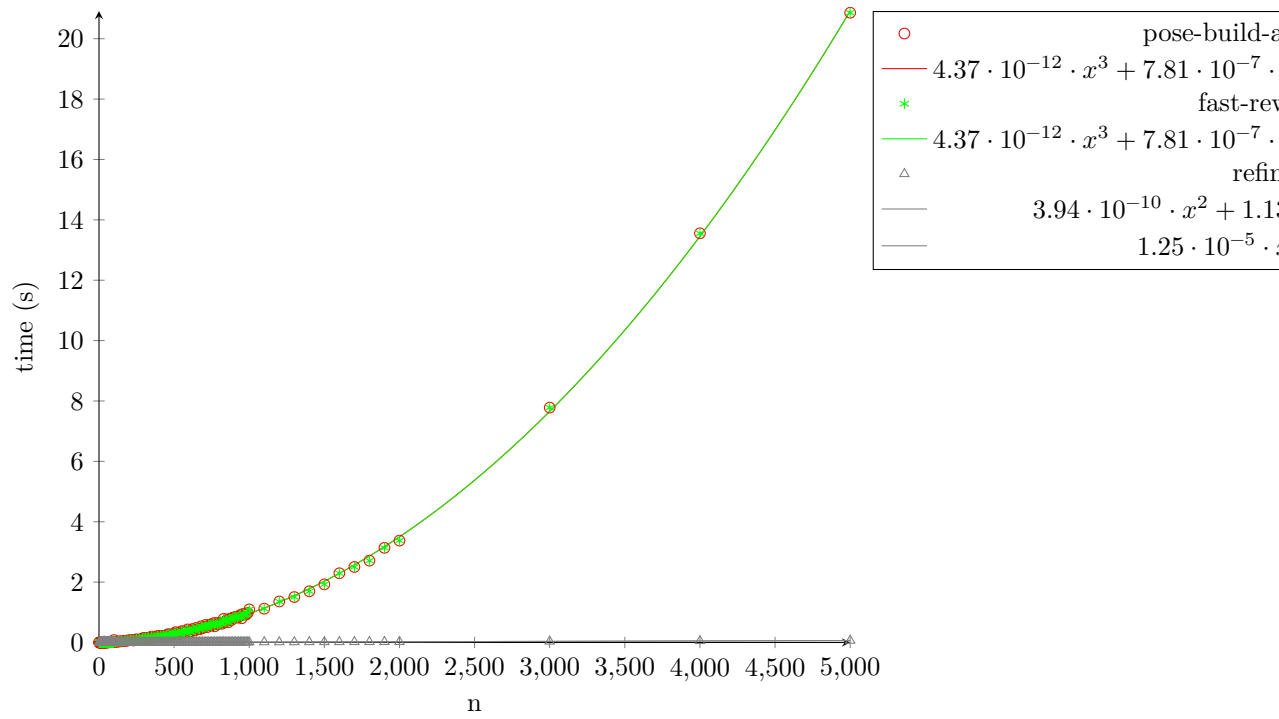Figure 11: timing-rewrite-repeated-app-fast-rewrite

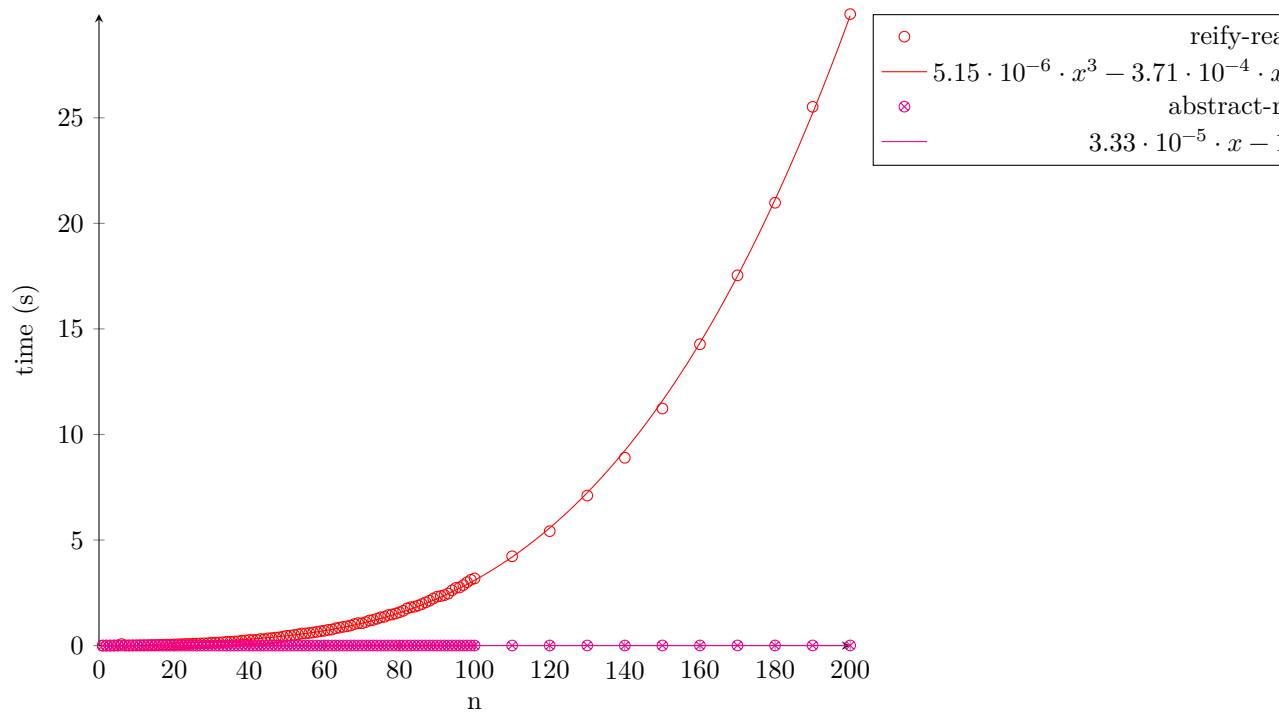Figure 12: timing-rewrite-repeated-app-fast-rewrite-no-abstract
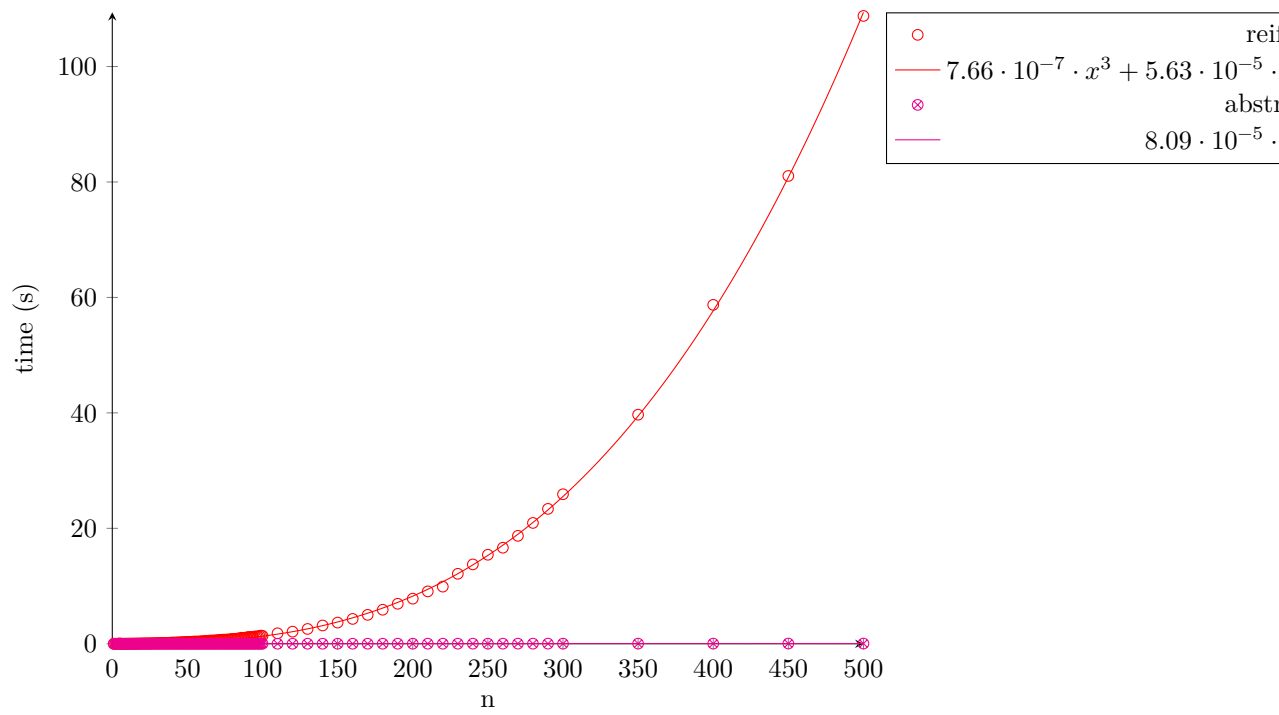
Figure 13: timing-typeclass-reification-let-in-HOAS

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