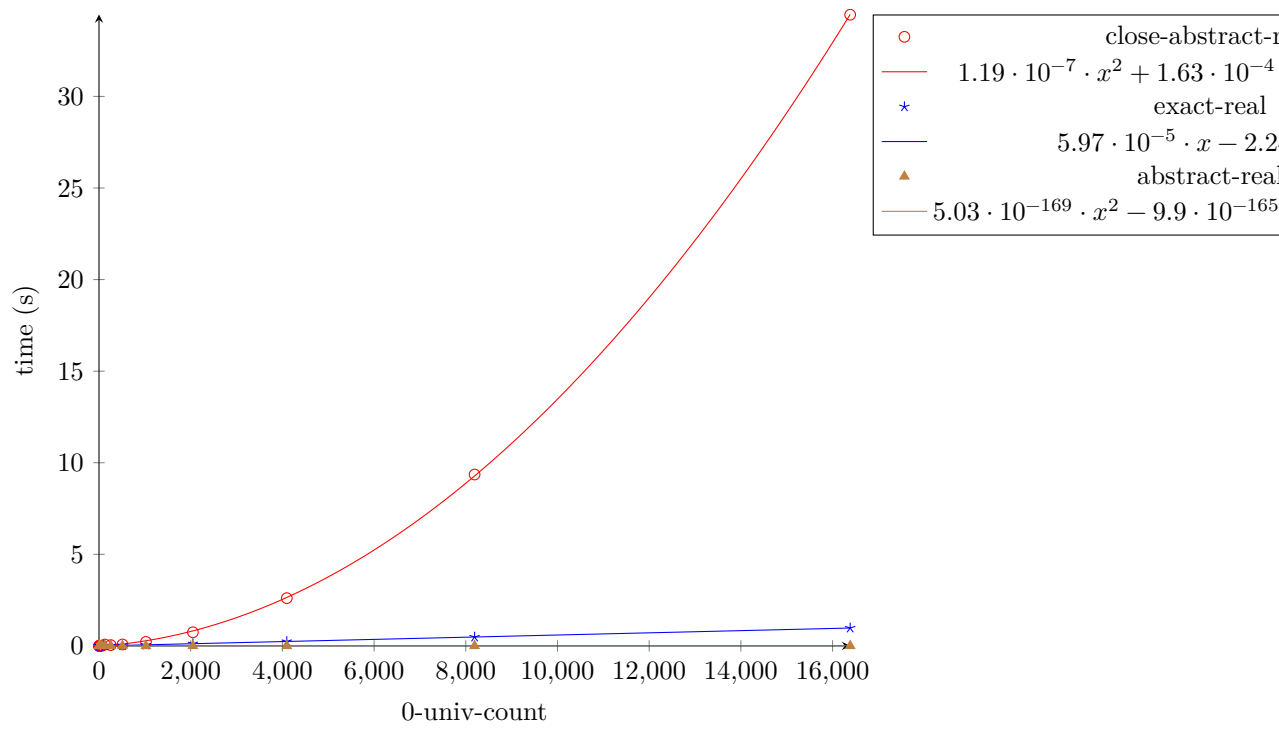Figure 1: timing-pattern

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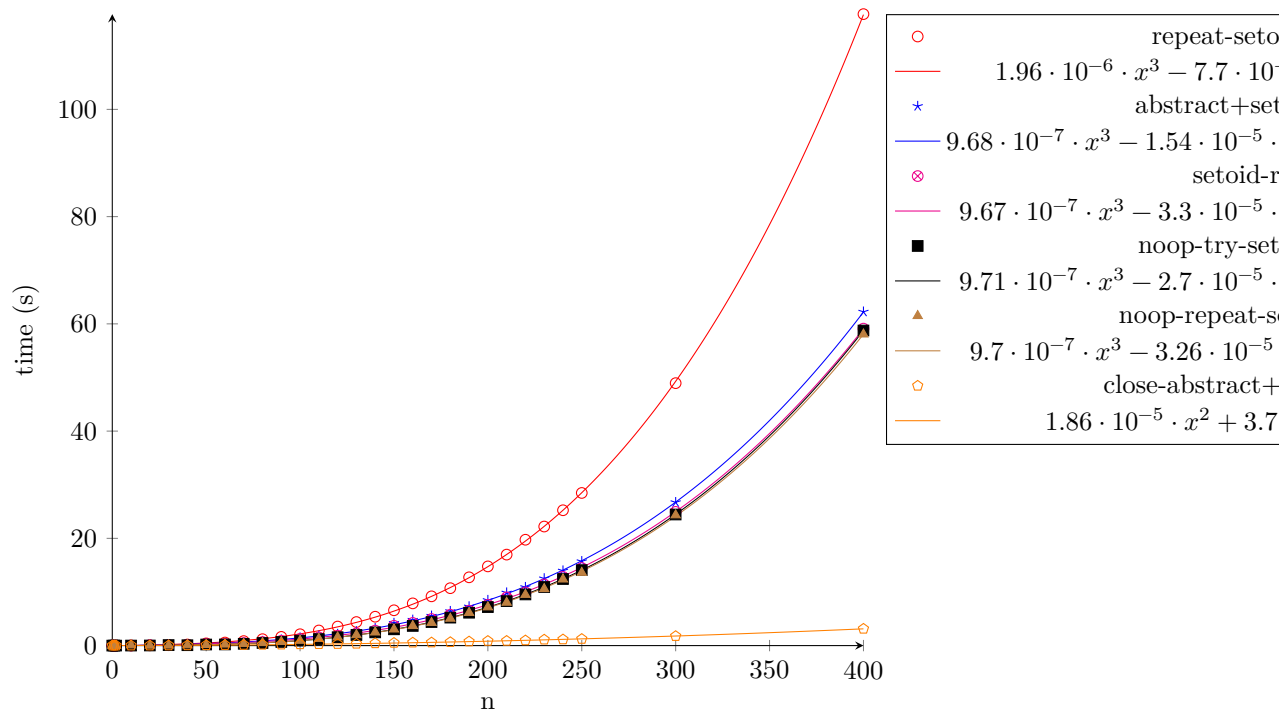
Figure 3: timing-repeat-setoid-rewrite-under-binders
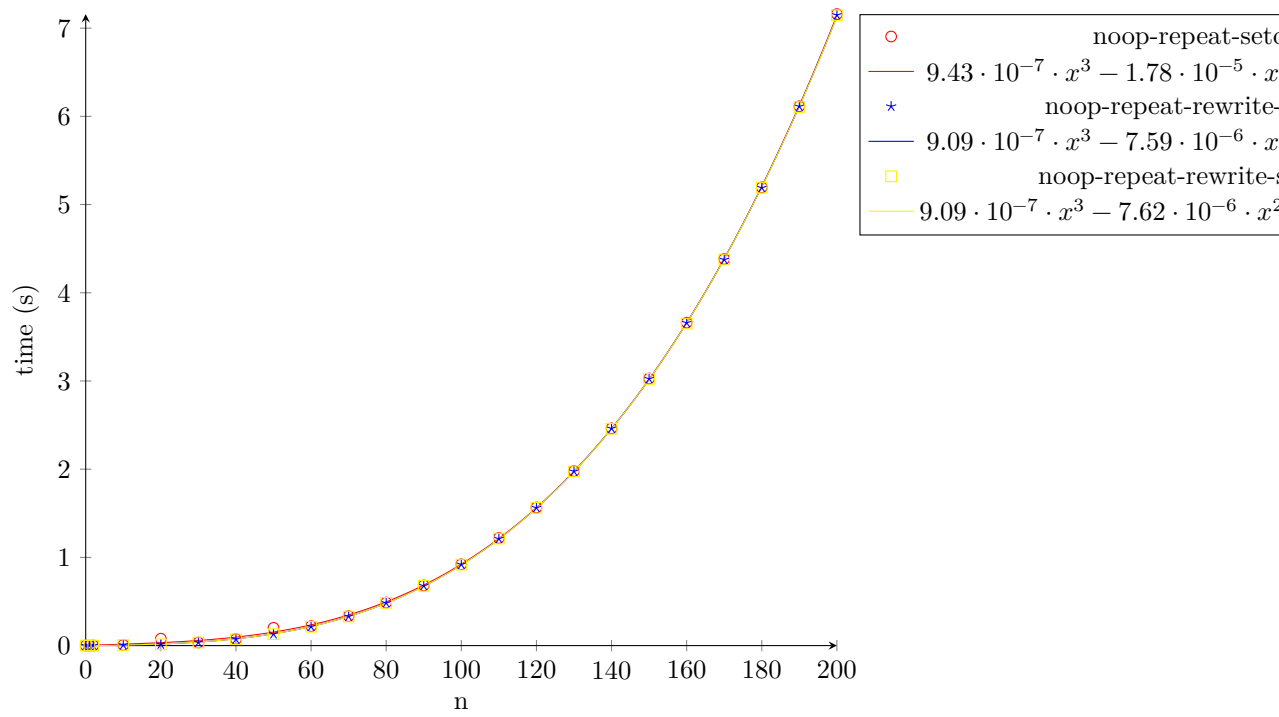
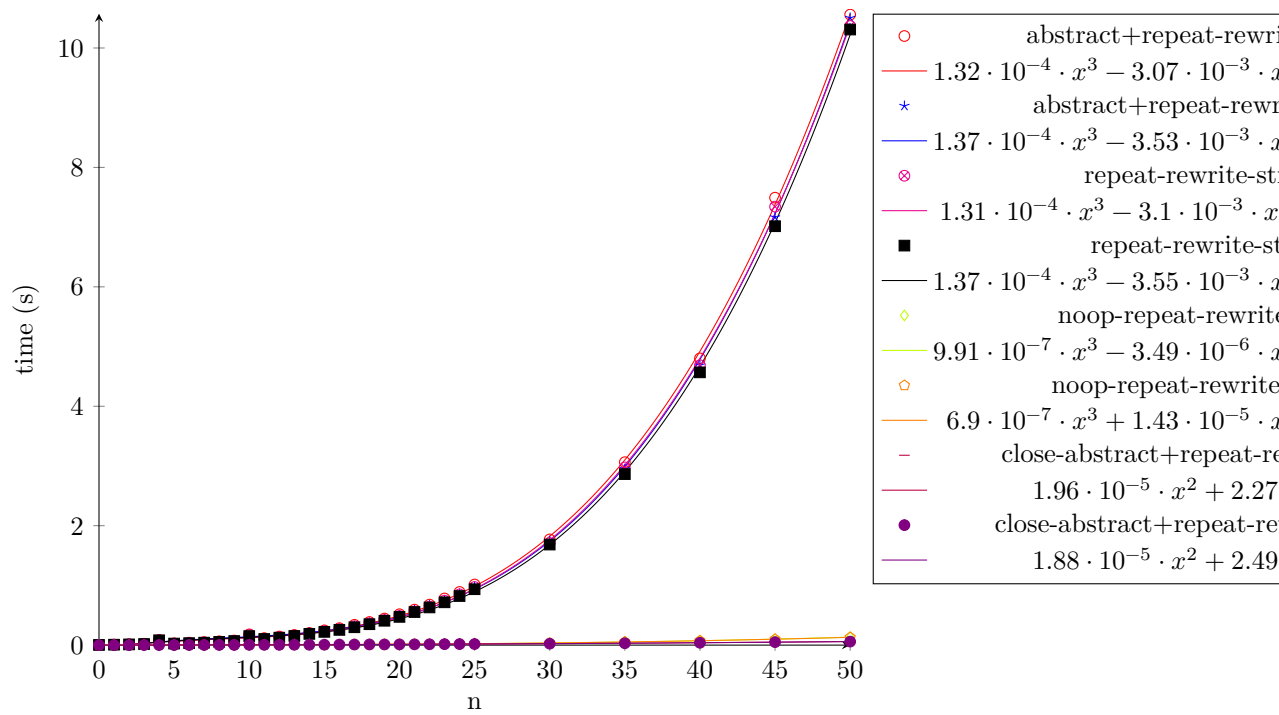Figure 4: timing-repeat-setoid-rewrite-under-binders-noop
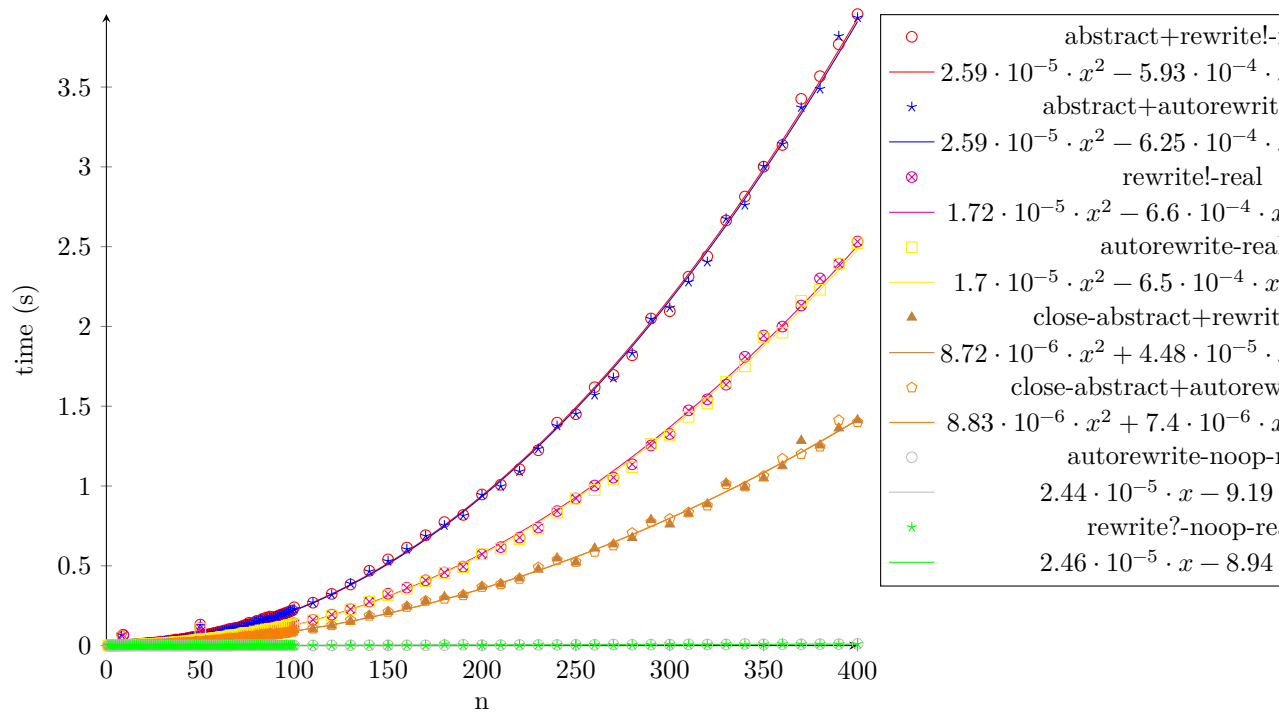
4

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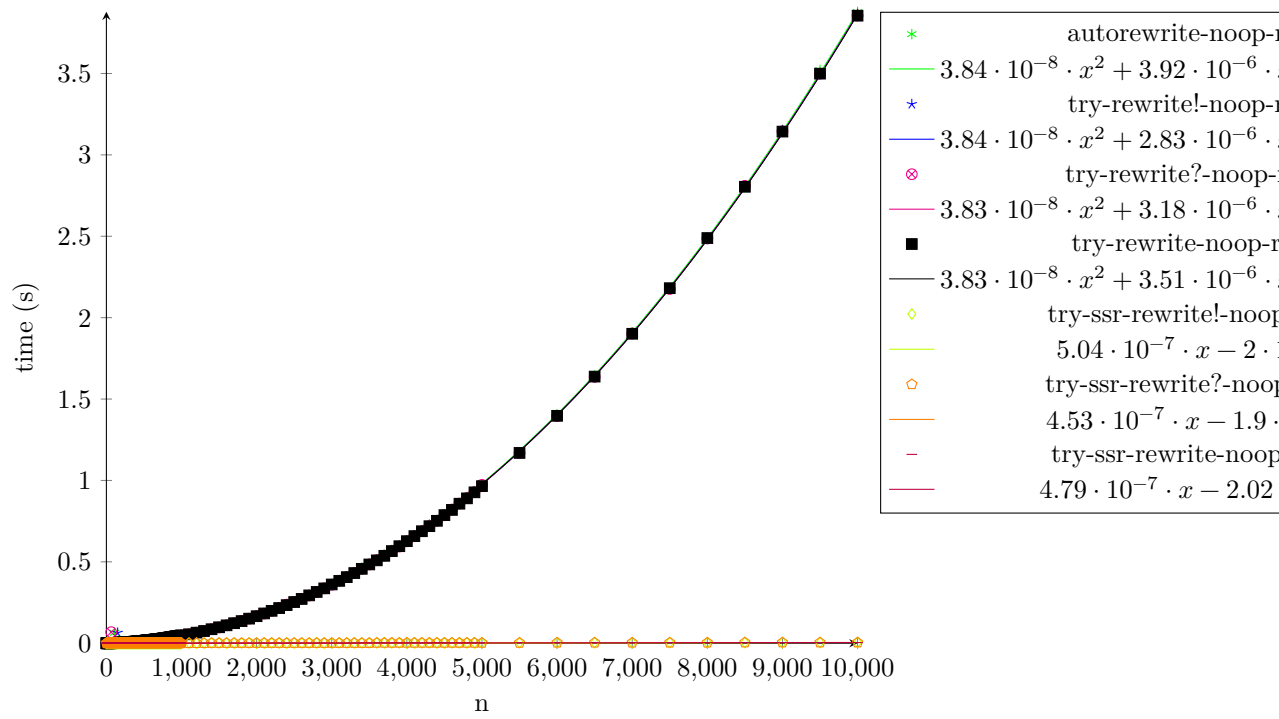
Figure 6: timing-rewrite-repeated-app-autorewrite

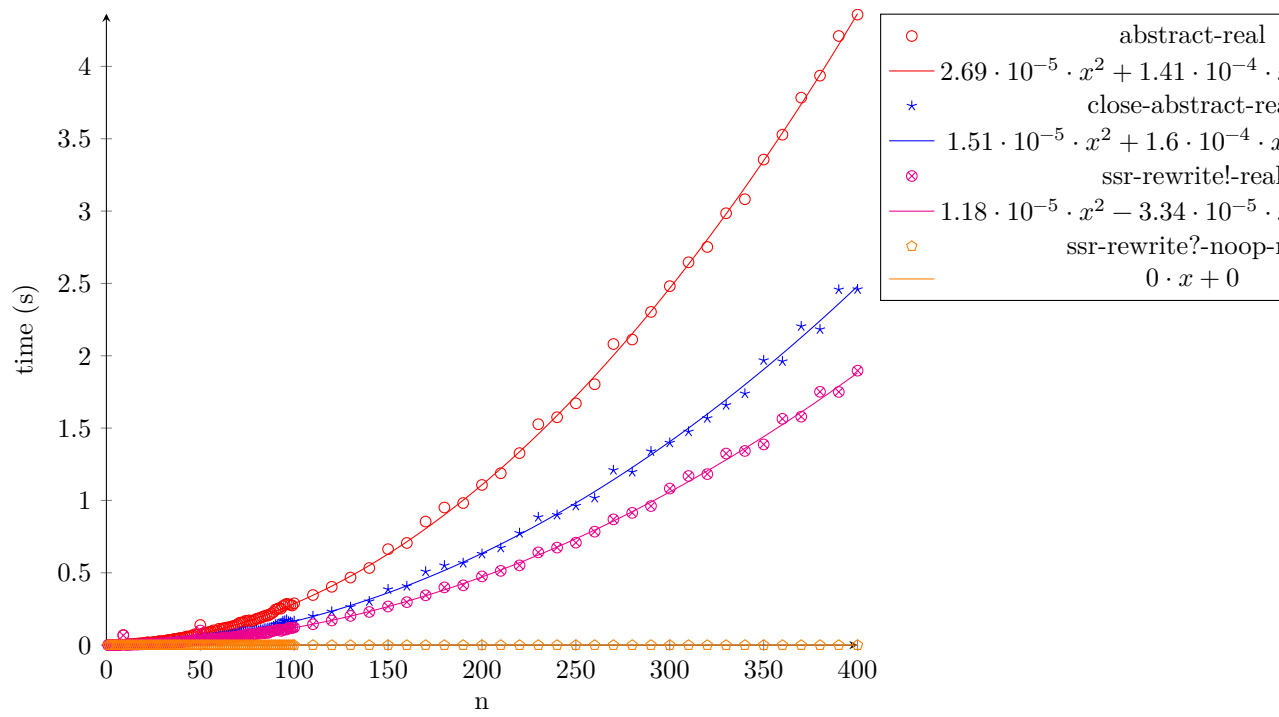Figure 7: timing-rewrite-repeated-app-autorewrite-noop

The legend in the figure reads:

* autorewrite-noop-...
  $3.84 \cdot 10^{-8} \cdot x^2 + 3.92 \cdot 10^{-6} \cdot x$
* try-rewrite!-noop-...
  $3.84 \cdot 10^{-8} \cdot x^2 + 2.83 \cdot 10^{-6} \cdot x$
* try-rewrite?-noop-...
  $3.83 \cdot 10^{-8} \cdot x^2 + 3.18 \cdot 10^{-6} \cdot x$
* try-rewrite-noop-...
  $3.83 \cdot 10^{-8} \cdot x^2 + 3.51 \cdot 10^{-6} \cdot x$
* try-ssr-rewrite!-noop
  $5.04 \cdot 10^{-7} \cdot x - 2 \cdot$
* try-ssr-rewrite?-noop
  $4.53 \cdot 10^{-7} \cdot x - 1.9 \cdot$
* try-ssr-rewrite-noop
  $4.79 \cdot 10^{-7} \cdot x - 2.02$

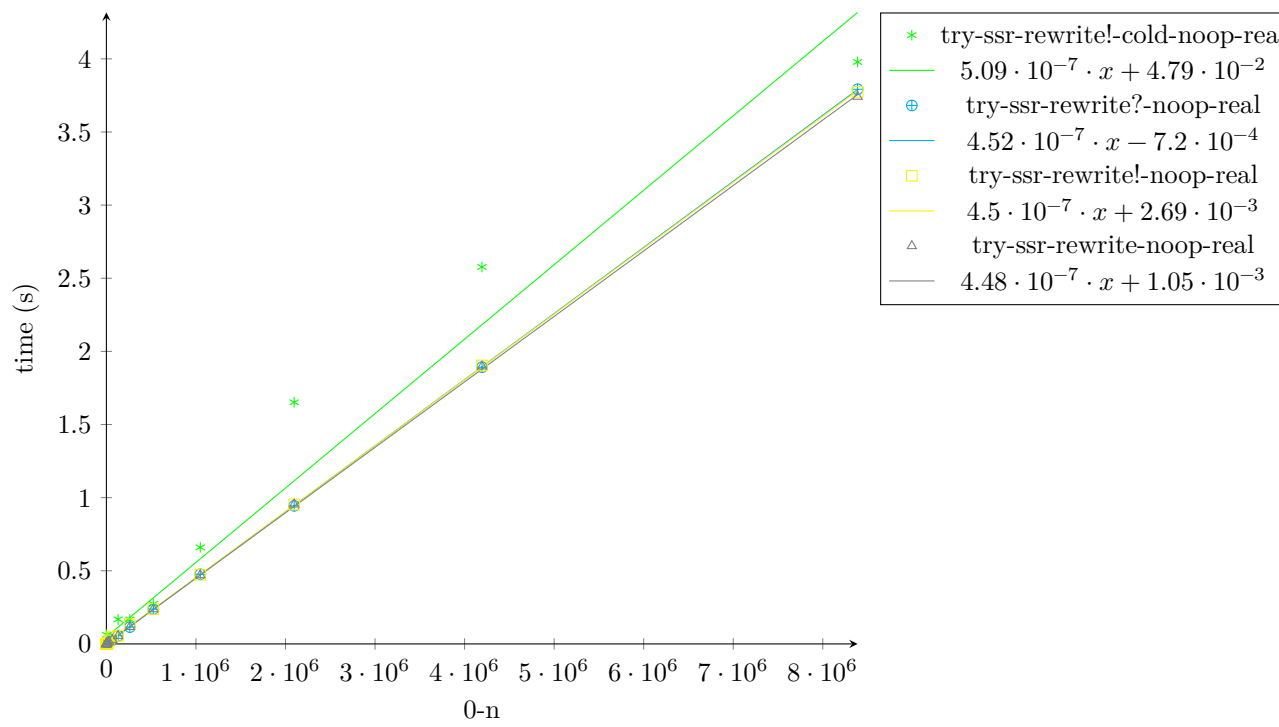Figure 8: timing-rewrite-repeated-app-ssrrewrite

8

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

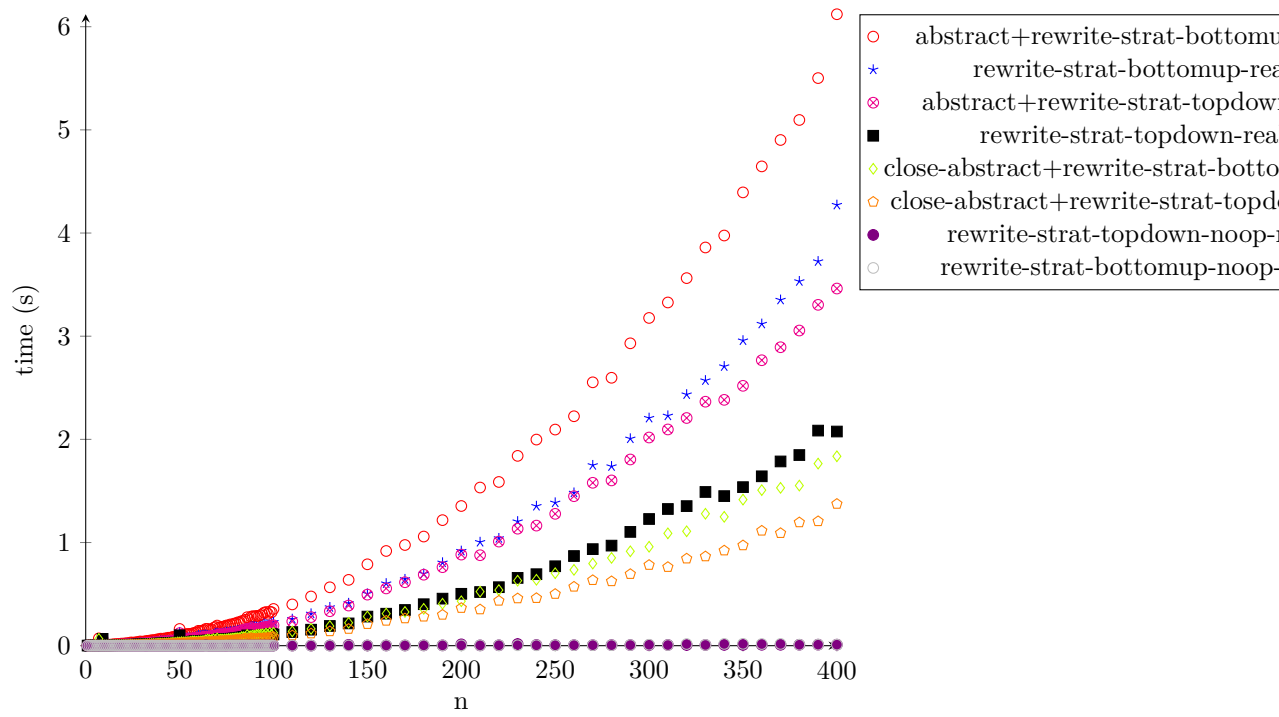Figure 10: timing-rewrite-repeated-app-rewrite-strat

Legend:
- ○ abstract+rewrite-strat-bottomu...
- ⋆ rewrite-strat-bottomup-rea...
- ⊗ abstract+rewrite-strat-topdow...
- ■ rewrite-strat-topdown-rea...
- ◇ close-abstract+rewrite-strat-botto...
- ⬠ close-abstract+rewrite-strat-topd...
- ● rewrite-strat-topdown-noop-...
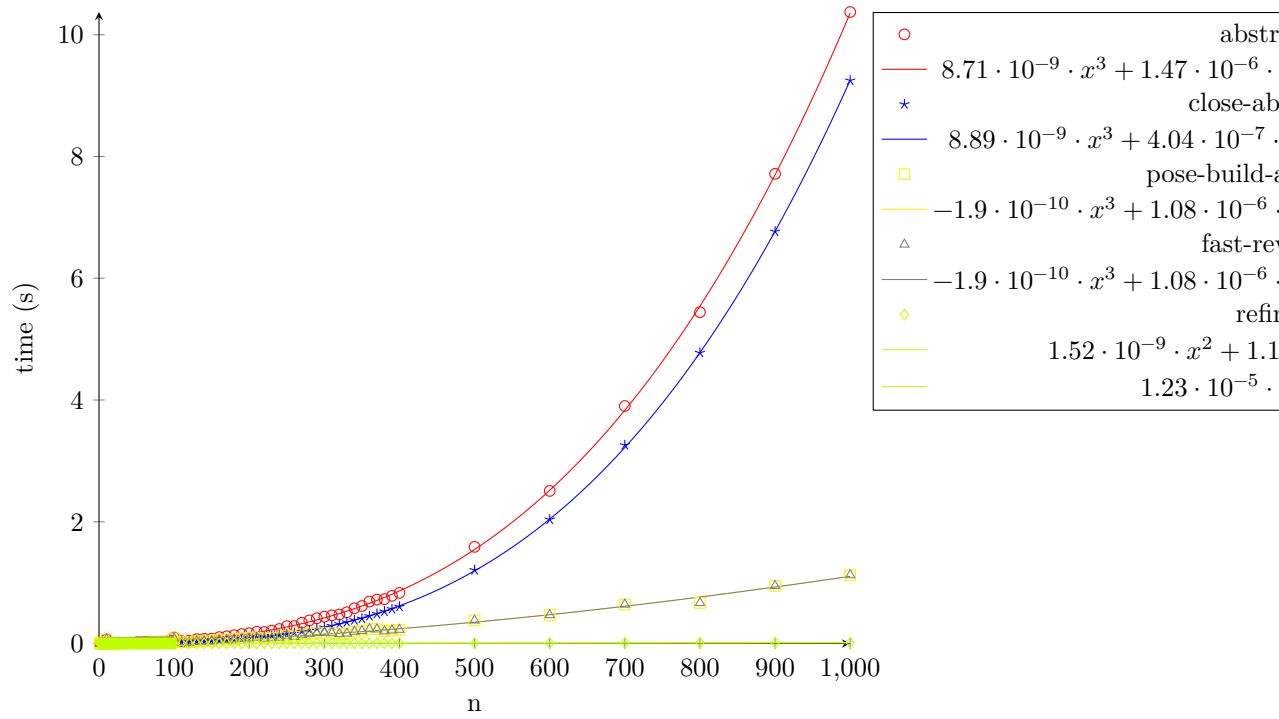- ○ rewrite-strat-bottomup-noop-...

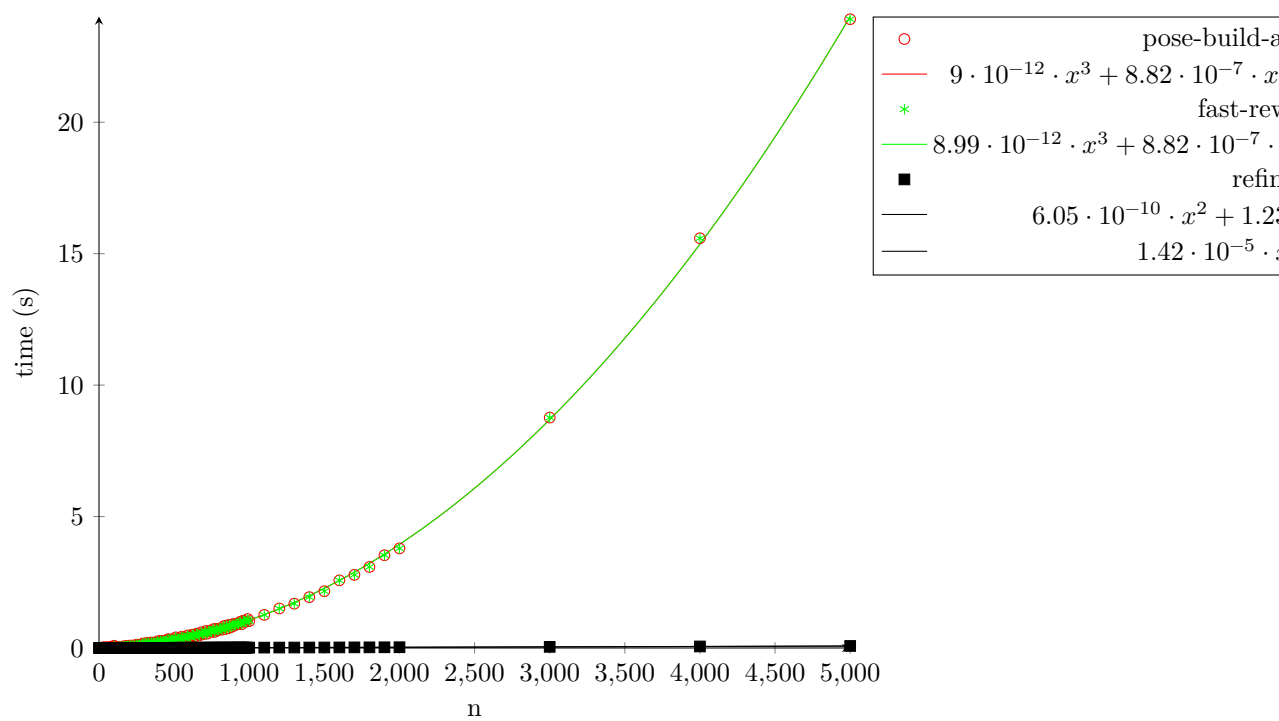Figure 11: timing-rewrite-repeated-app-fast-rewrite

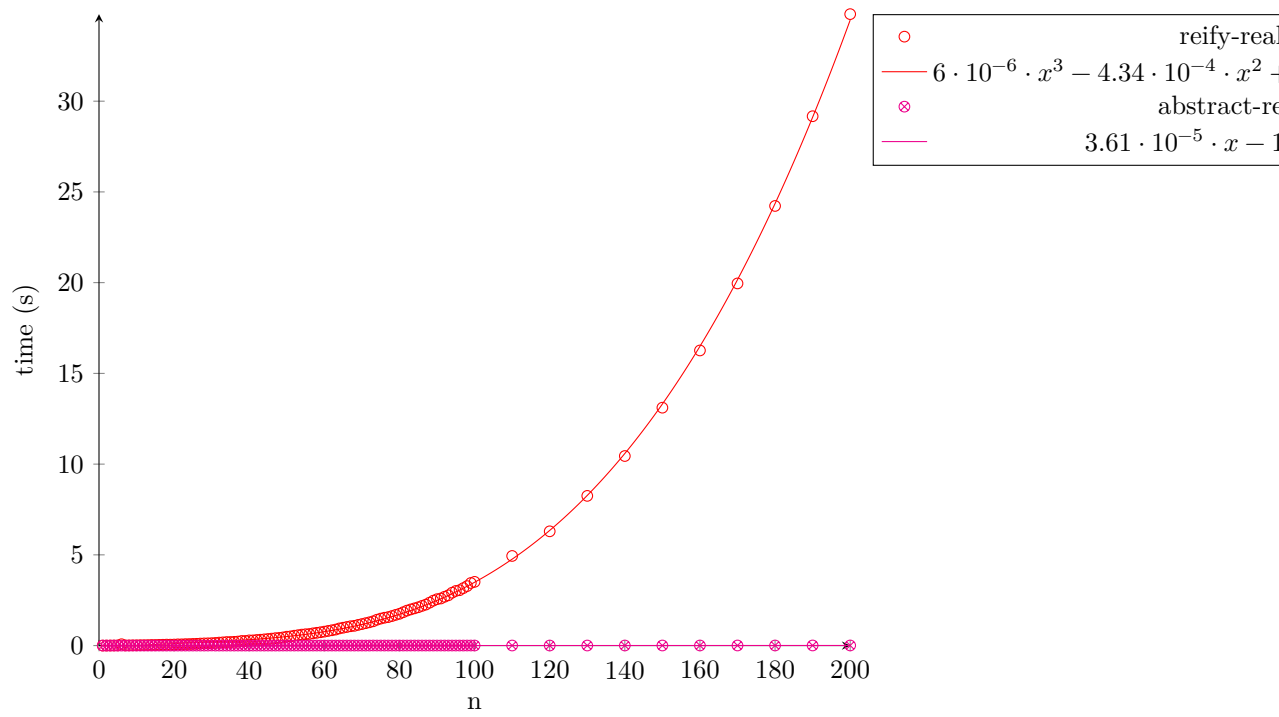Figure 12: timing-rewrite-repeated-app-fast-rewrite-no-abstract
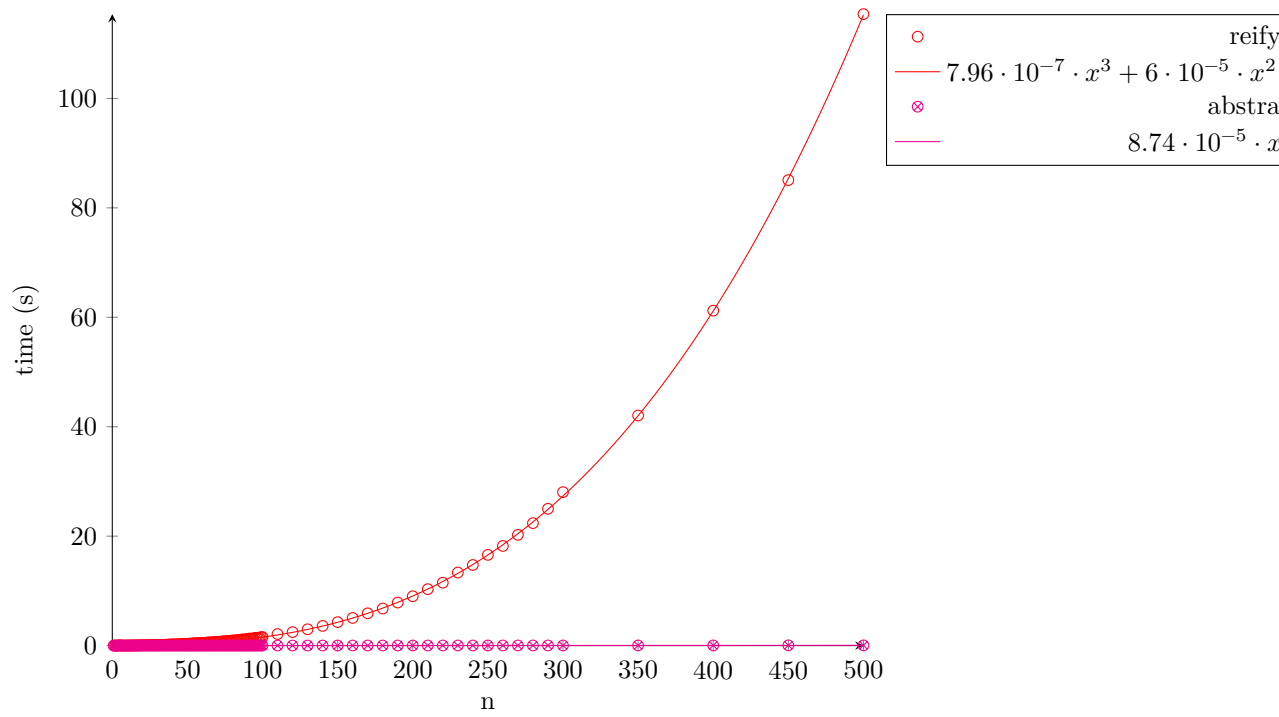
Figure 13: timing-typeclass-reification-let-in-HOAS

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