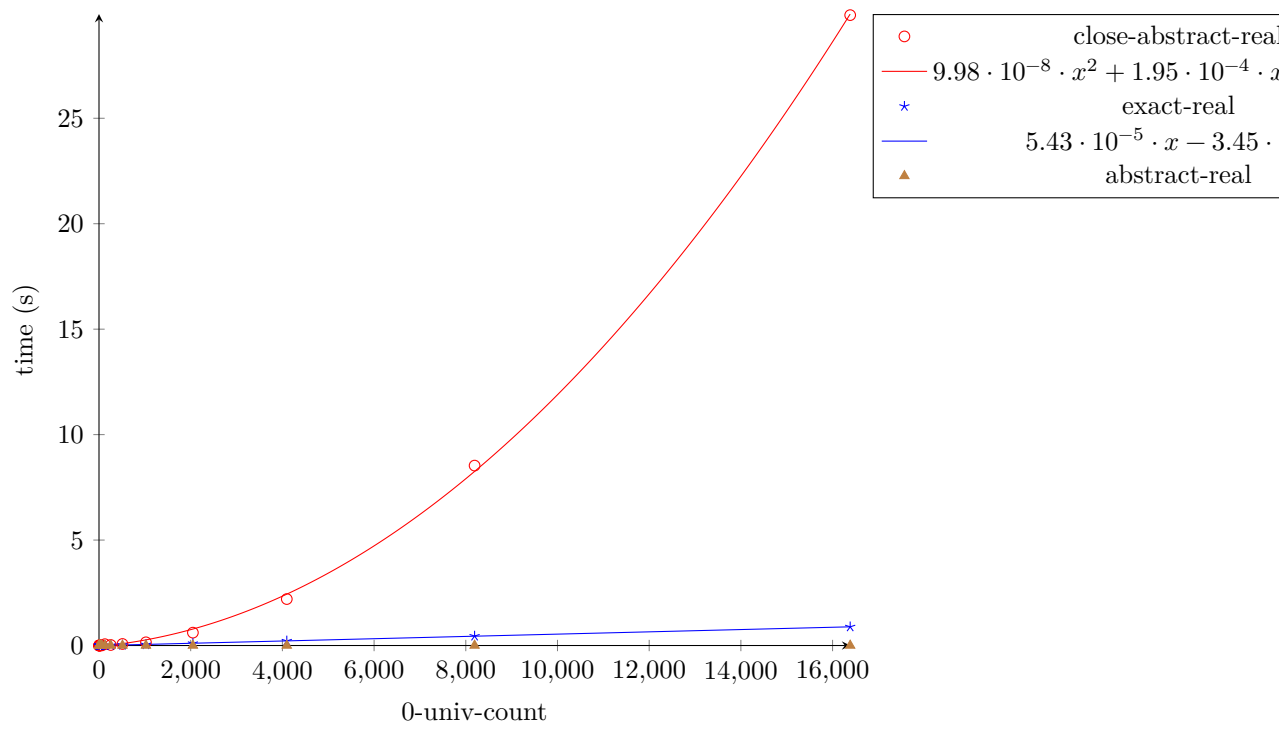Figure 1: timing-pattern

1

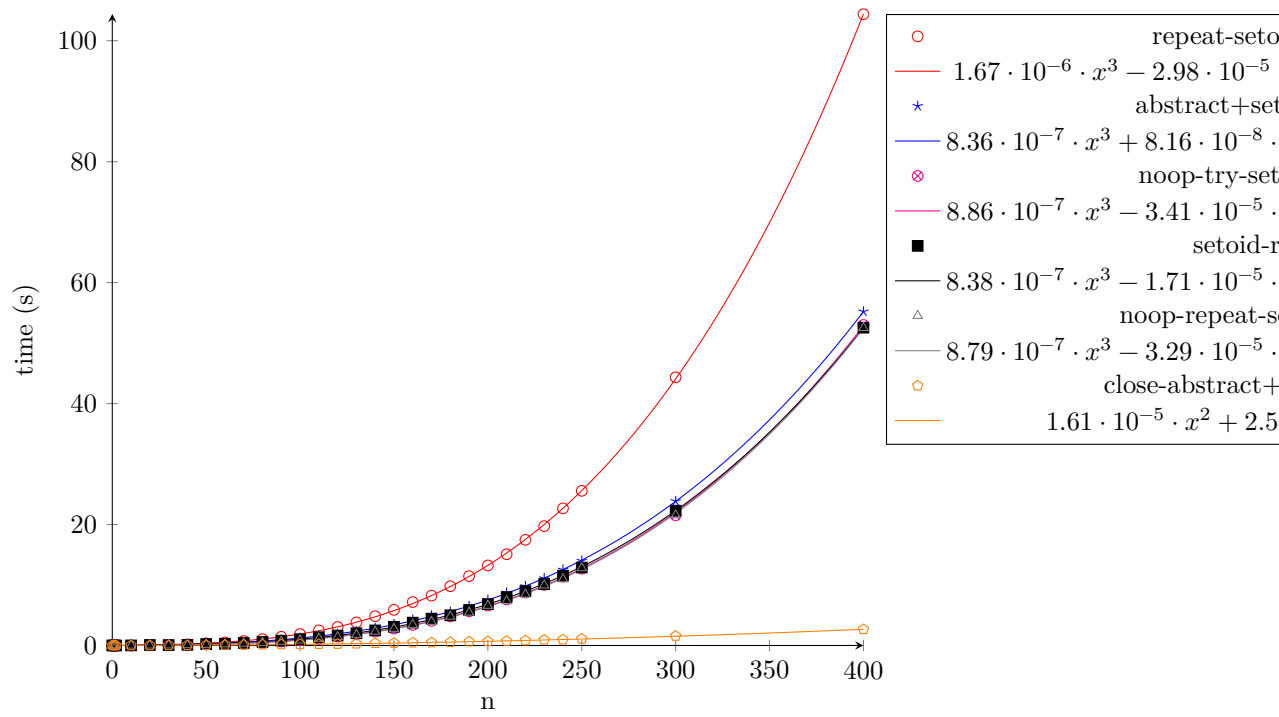Figure 2: timing-n-polymorphic-universes param-1-n 0

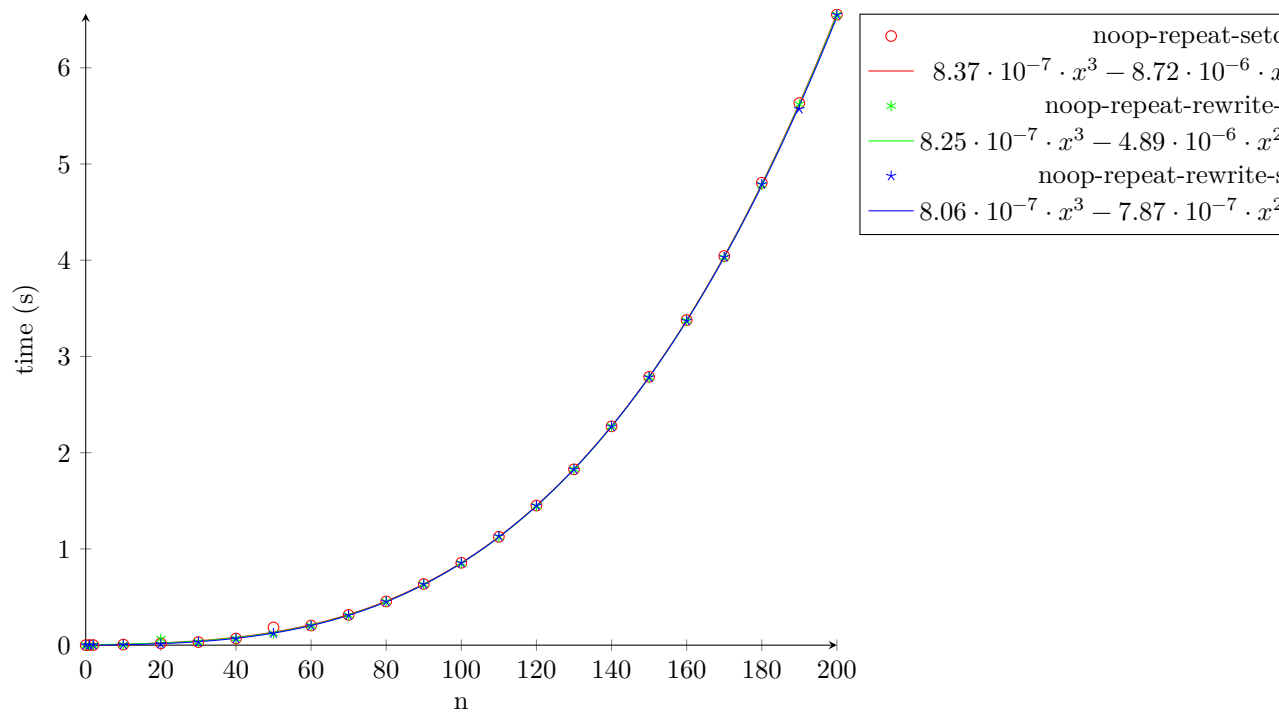Figure 3: timing-repeat-setoid-rewrite-under-binders

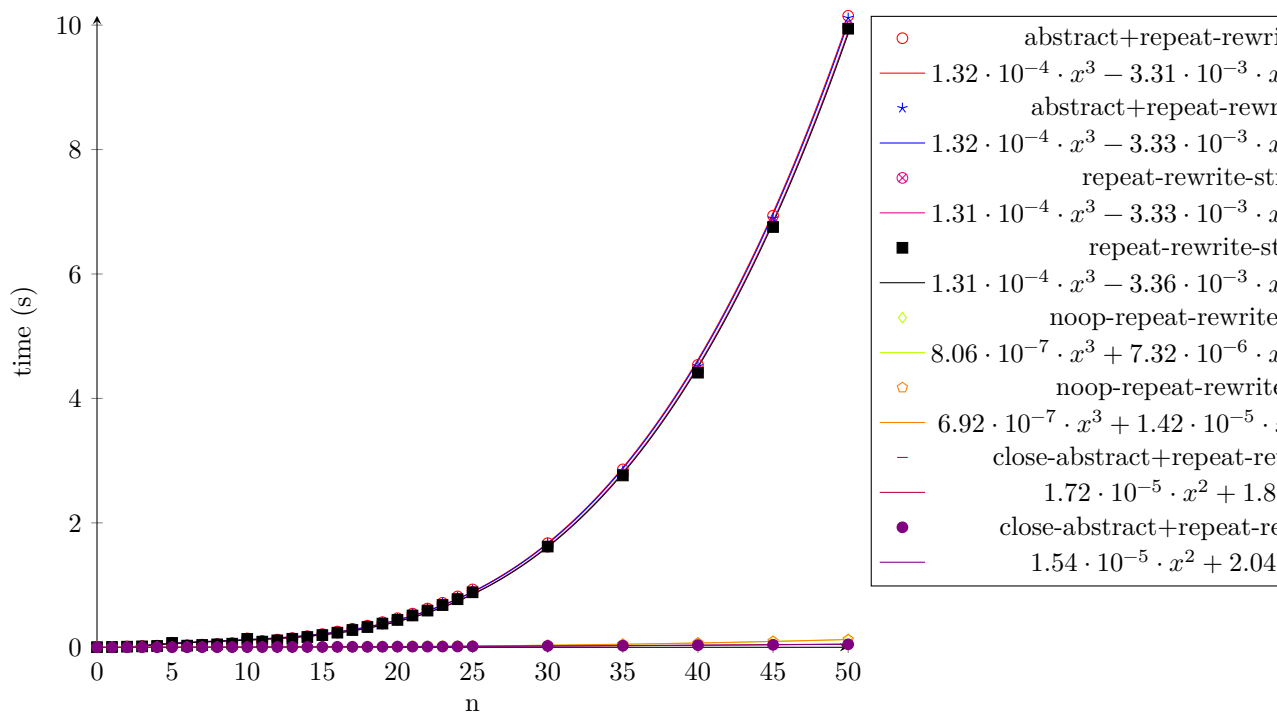Figure 4: timing-repeat-setoid-rewrite-under-binders-noop

4

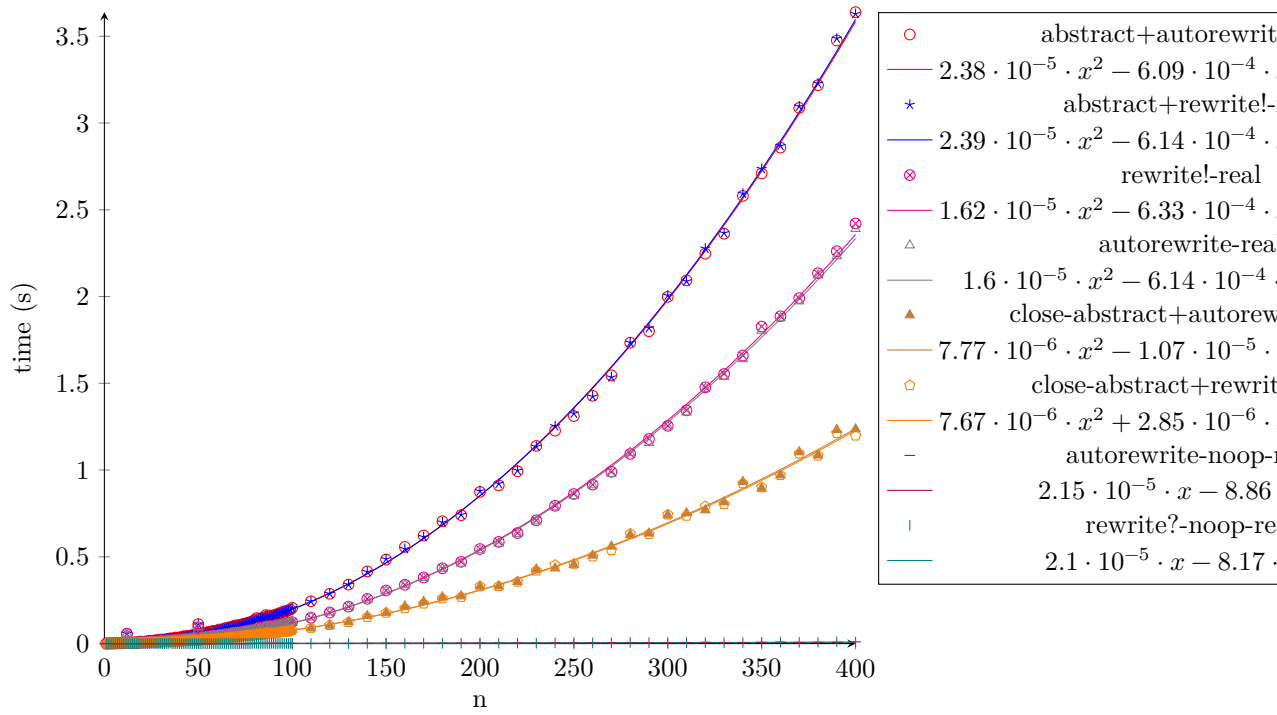Figure 5: timing-rewrite-strat-under-binders
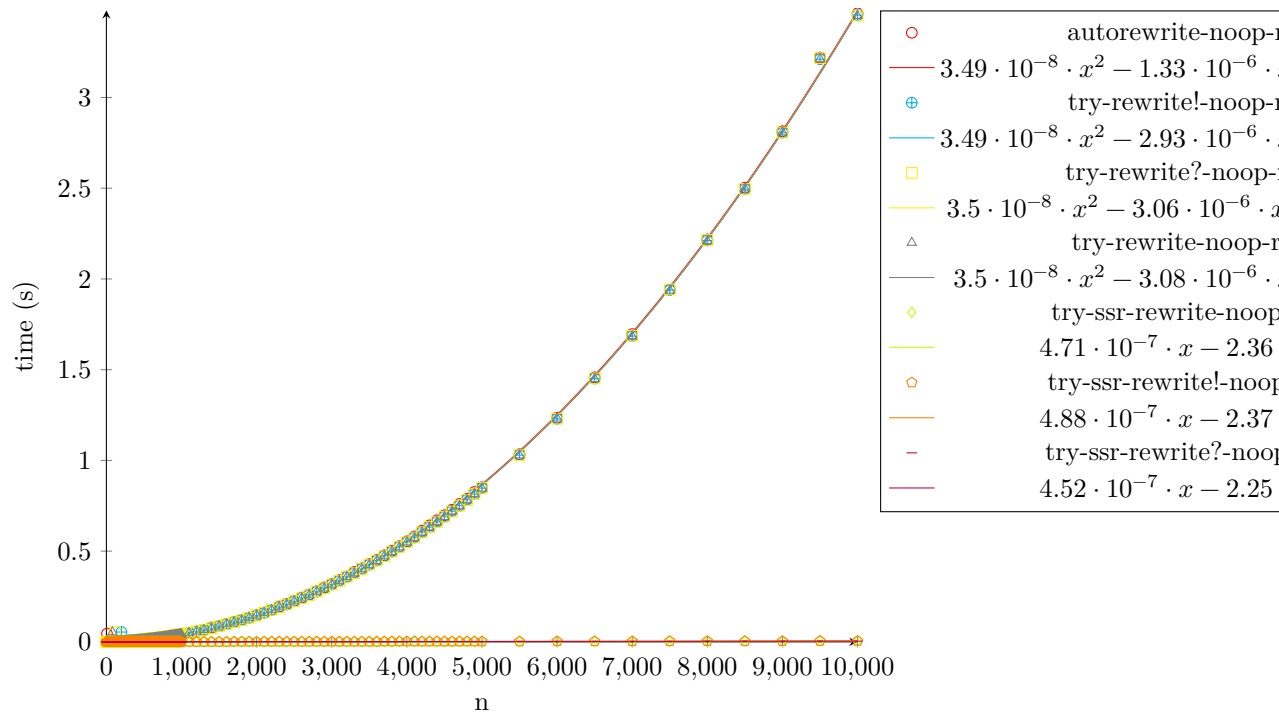
Figure 6: timing-rewrite-repeated-app-autorewrite

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

- autorewrite-noop-n
- $3.49 \cdot 10^{-8} \cdot x^2 - 1.33 \cdot 10^{-6} \cdot x$
- try-rewrite!-noop-n
- $3.49 \cdot 10^{-8} \cdot x^2 - 2.93 \cdot 10^{-6} \cdot x$
- try-rewrite?-noop-n
- $3.5 \cdot 10^{-8} \cdot x^2 - 3.06 \cdot 10^{-6} \cdot x$
- try-rewrite-noop-n
- $3.5 \cdot 10^{-8} \cdot x^2 - 3.08 \cdot 10^{-6} \cdot x$
- try-ssr-rewrite-noop
- $4.71 \cdot 10^{-7} \cdot x - 2.36$
- try-ssr-rewrite!-noop
- $4.88 \cdot 10^{-7} \cdot x - 2.37$
- try-ssr-rewrite?-noop
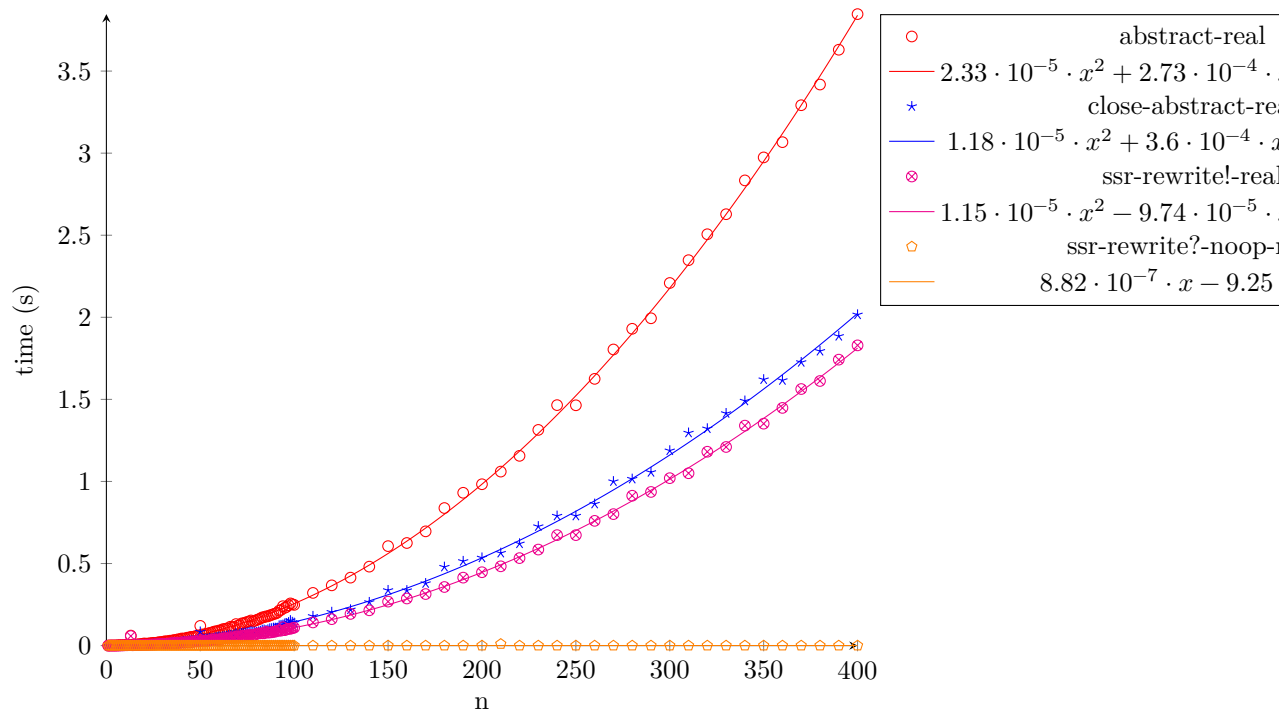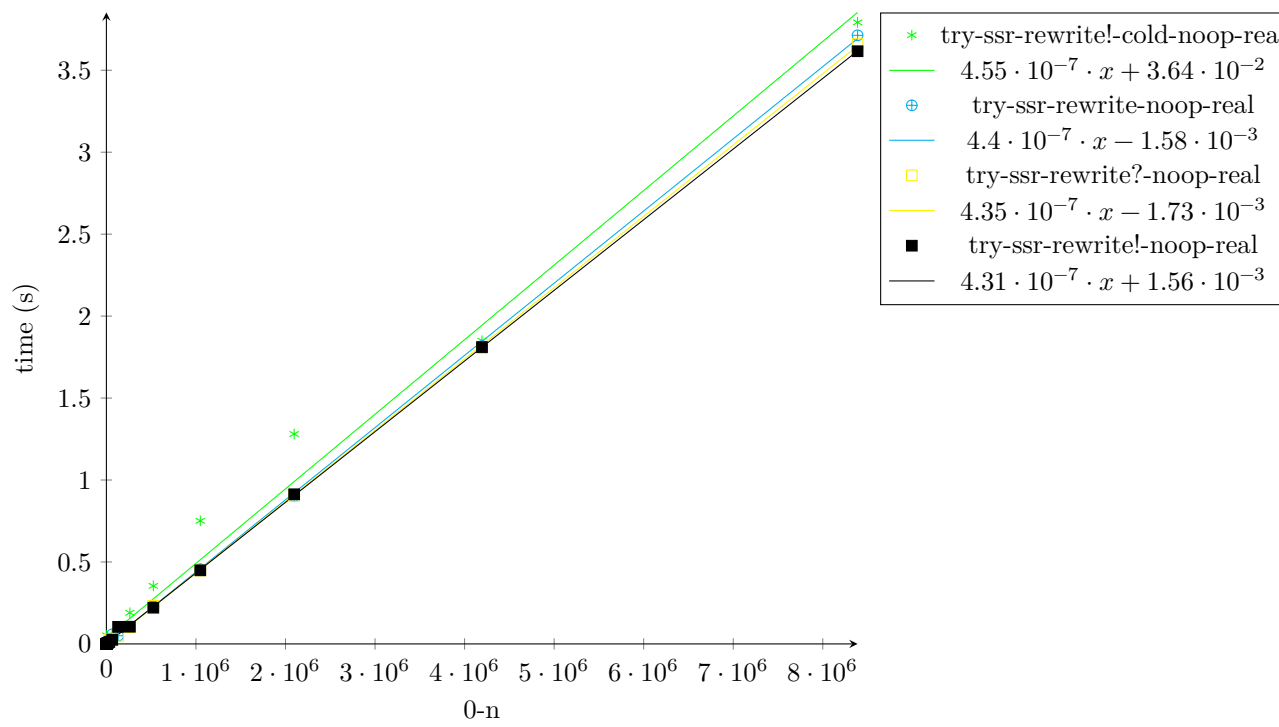- $4.52 \cdot 10^{-7} \cdot x - 2.25$

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
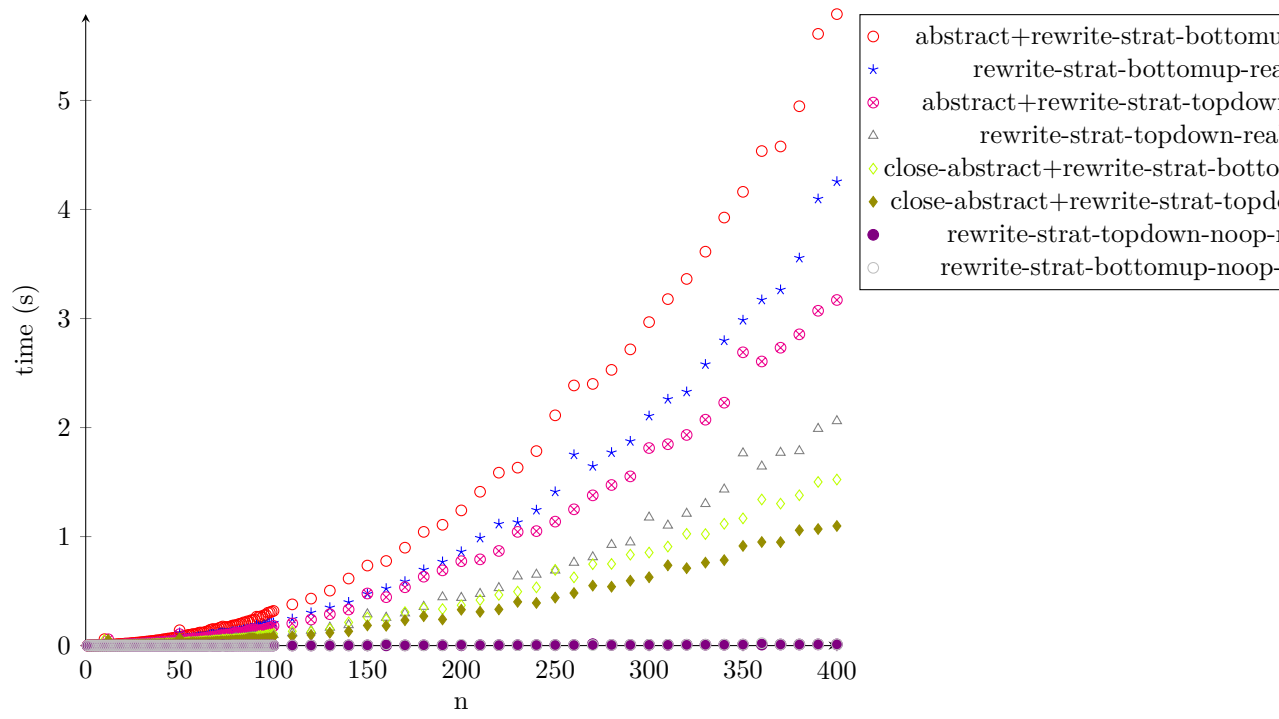
The legend labels (partially cut off on the right) read:

- 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-...
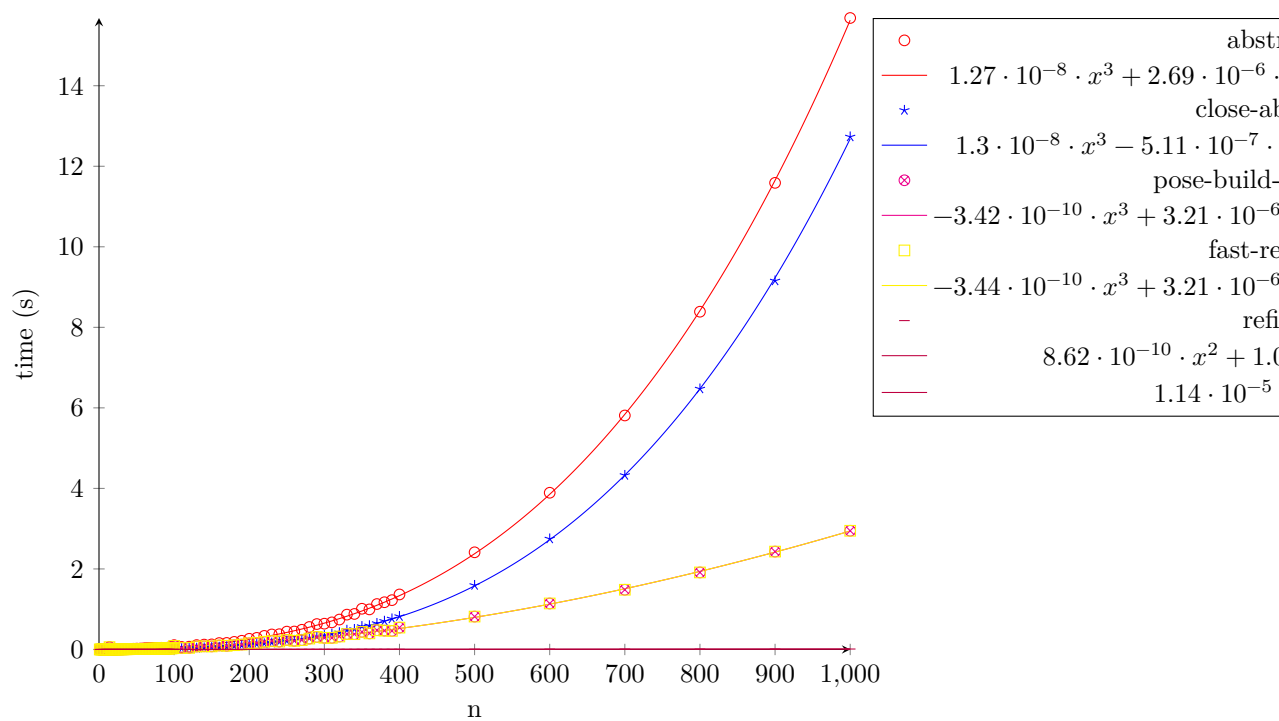- rewrite-strat-bottomup-noop-...

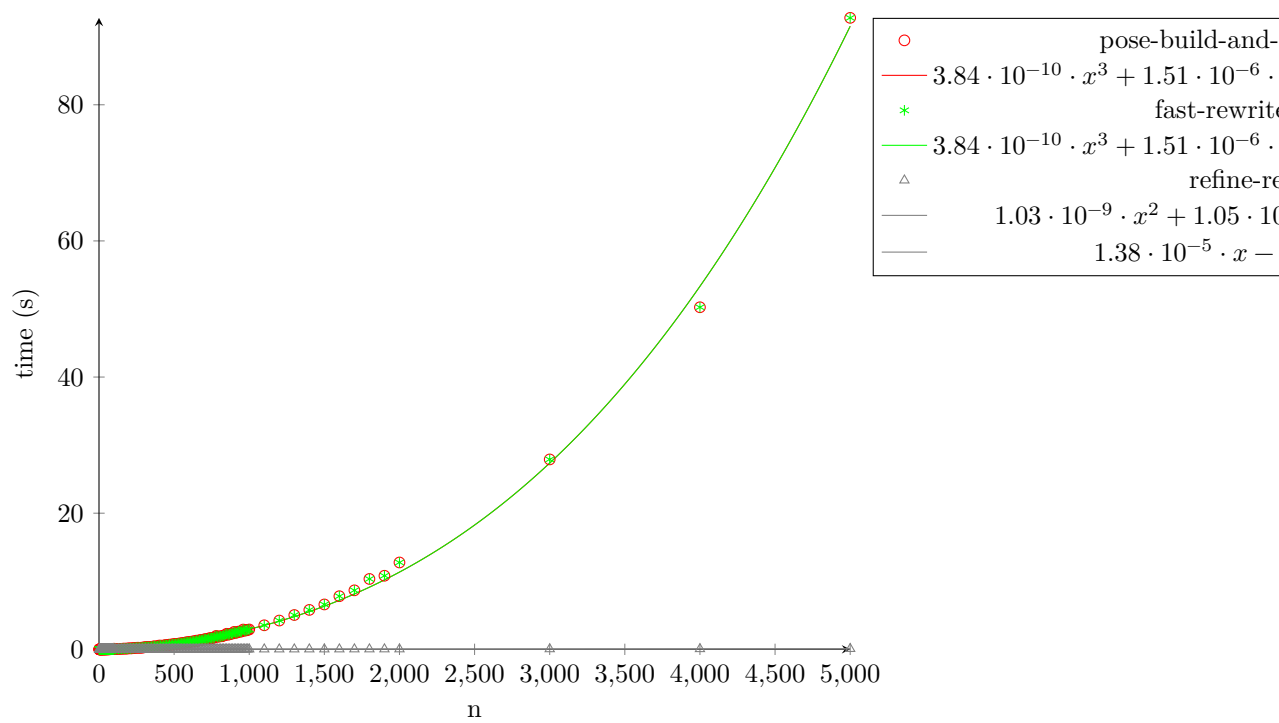Figure 11: timing-rewrite-repeated-app-fast-rewrite

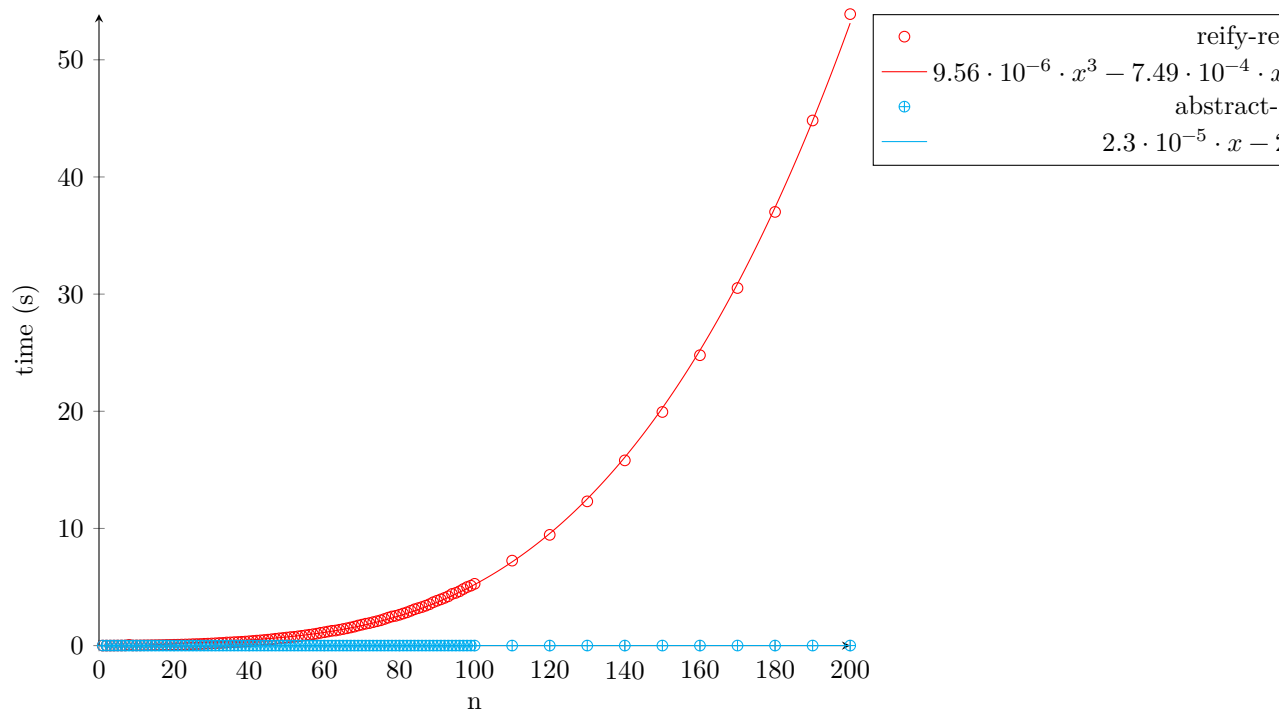Figure 12: timing-rewrite-repeated-app-fast-rewrite-no-abstract
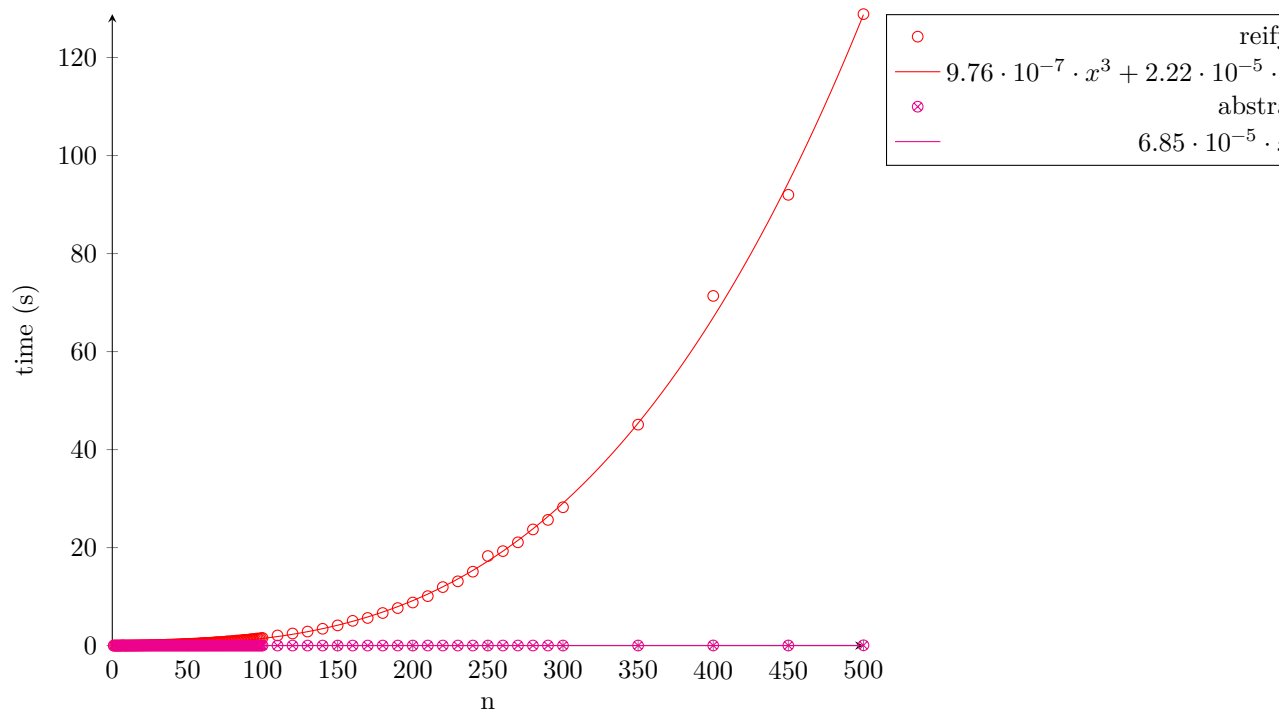
Figure 13: timing-typeclass-reification-let-in-HOAS

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