

Figure 1: timing-pattern

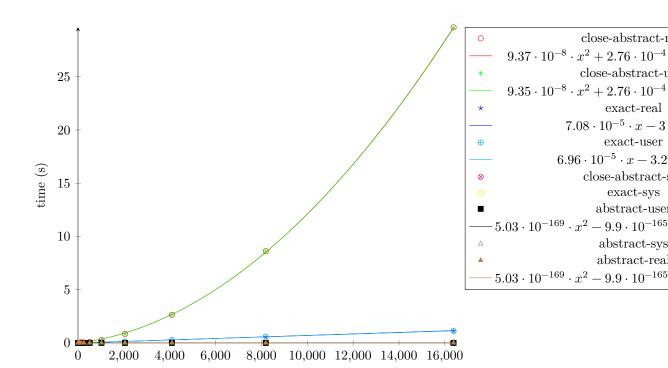


Figure 2: timing-n-polymorphic-universes param-1-n 0

-univ-count

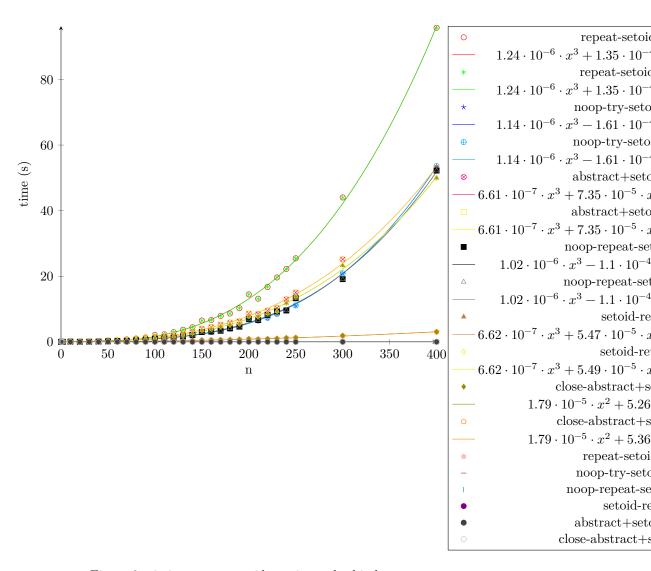
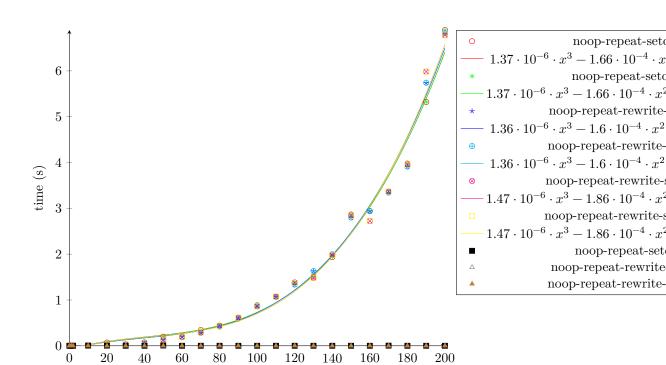


Figure 3: timing-repeat-setoid-rewrite-under-binders



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

n

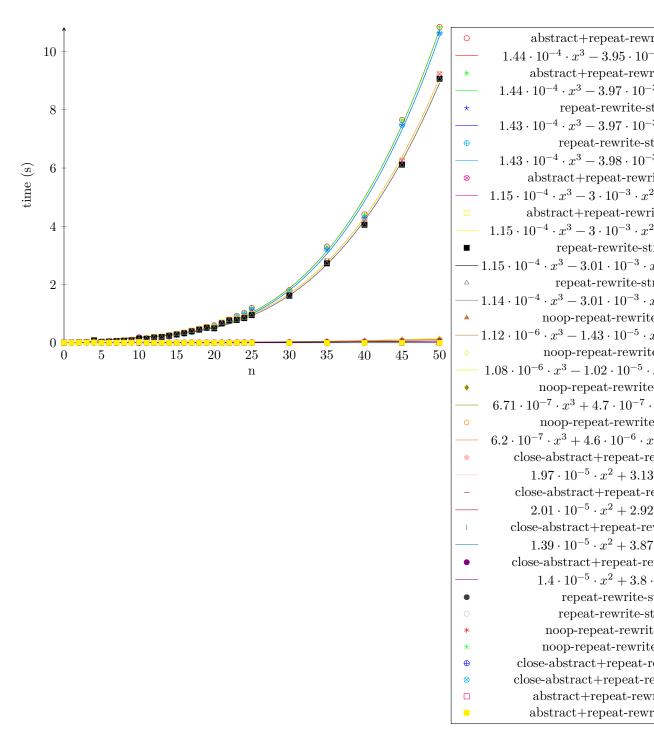
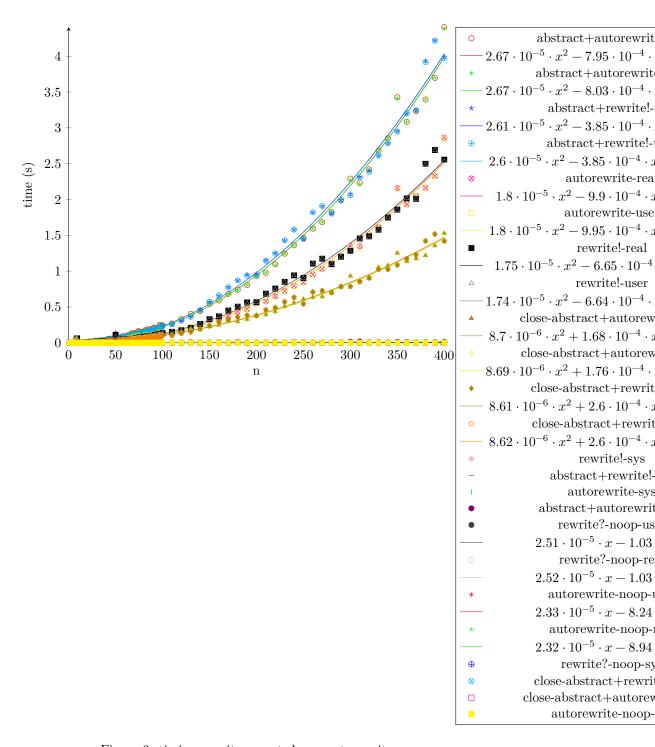


Figure 5: timing-rewrite-strat-under-binders



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

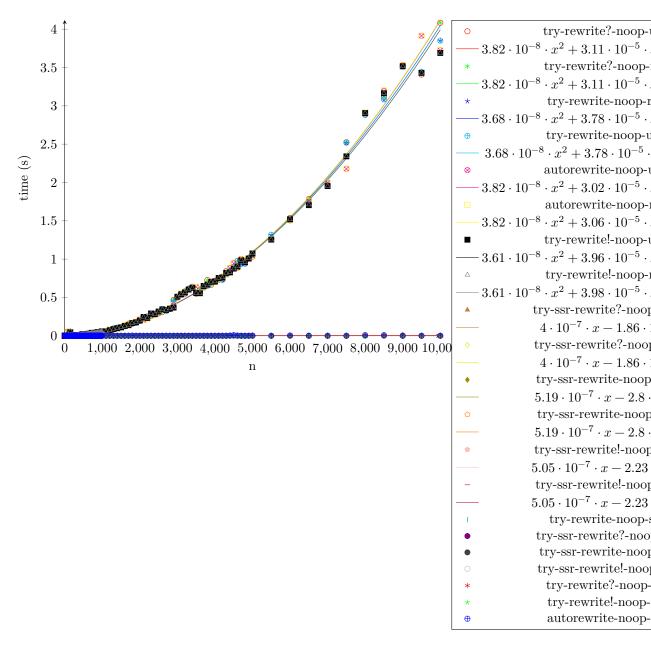
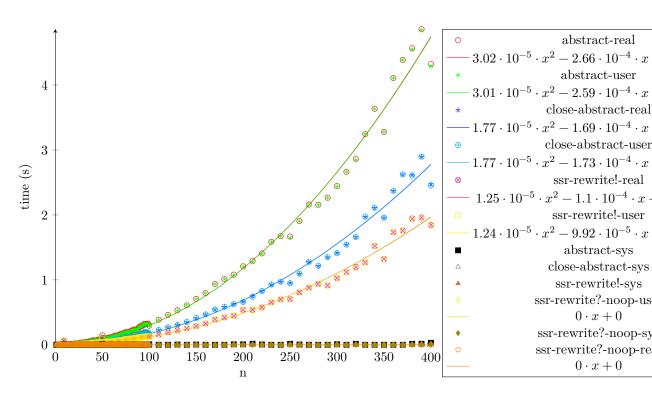


Figure 7: timing-rewrite-repeated-app-autorewrite-noop



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

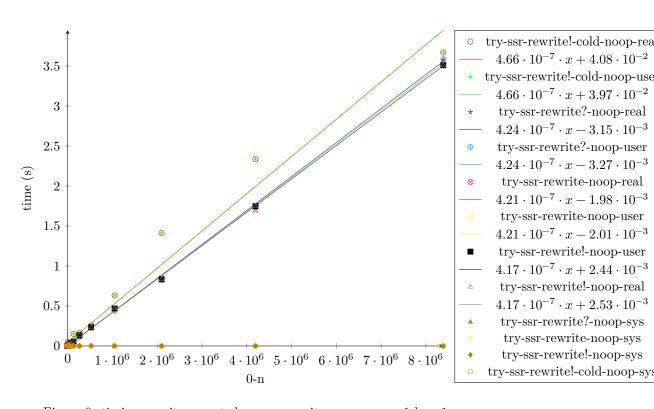


Figure 9: timing-rewrite-repeated-app-ssrrewrite-noop param-1-lgn $\ 1$

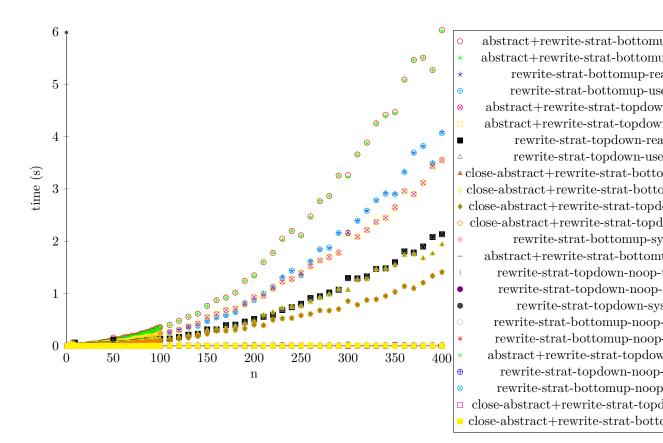
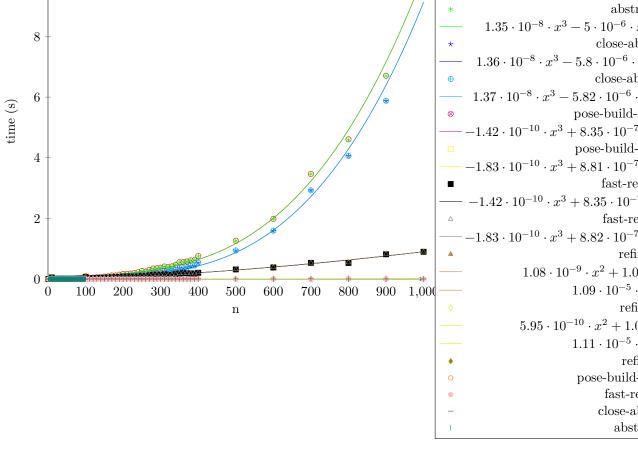


Figure 10: timing-rewrite-repeated-app-rewrite-strat

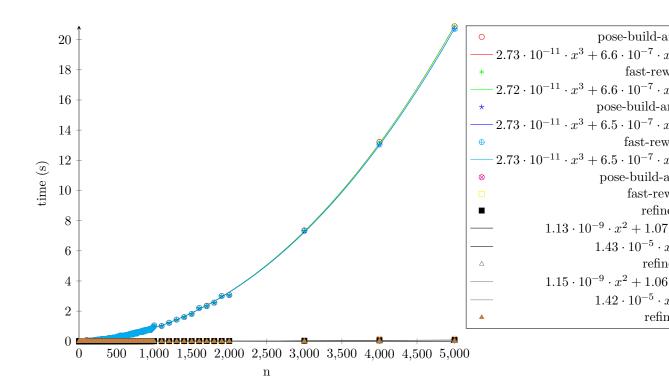


abst

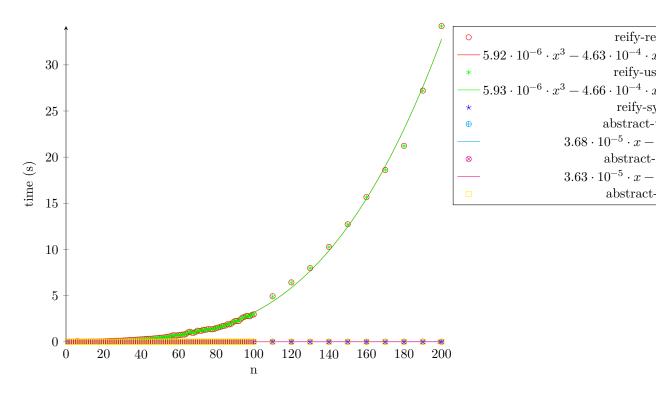
 $1.35 \cdot 10^{-8} \cdot x^3 - 4.93 \cdot 10^{-6} \cdot$

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

10



 $Figure~12:~timing\mbox{-rewrite-repeated-app-fast-rewrite-no-abstract}$



 ${\bf Figure~13:~timing-type class-reification-let-in-HOAS}$

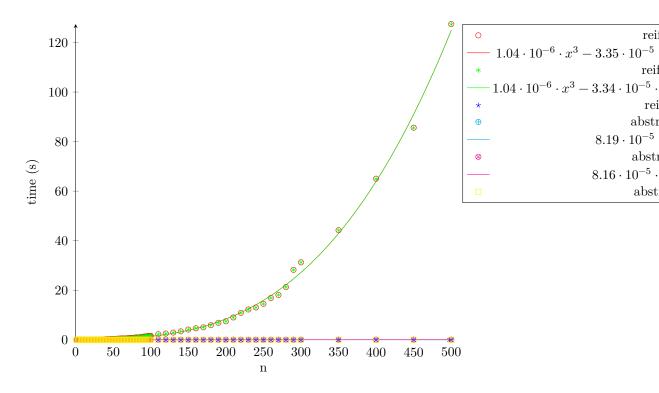


Figure 14: timing-typeclass-reification-let-in-PHOAS