

Figure 1: timing-pattern

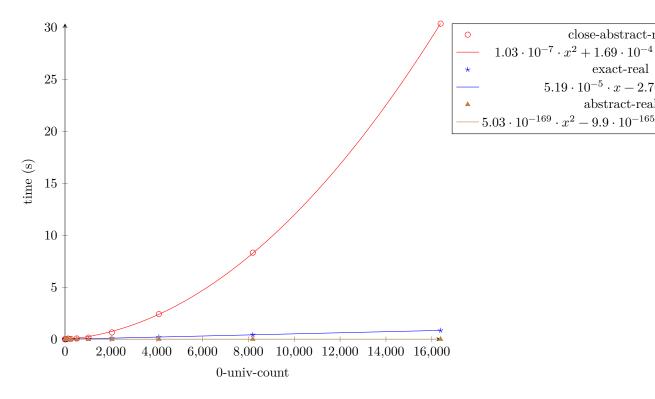
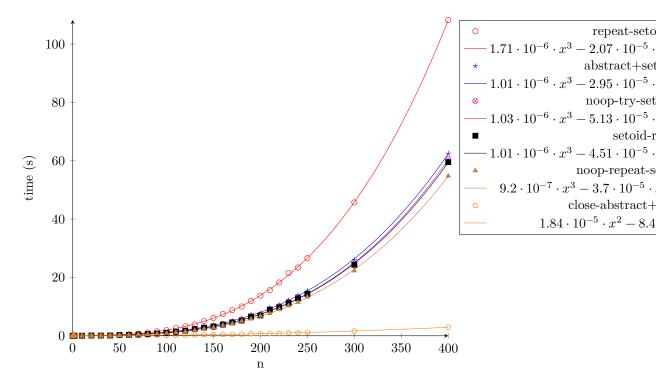
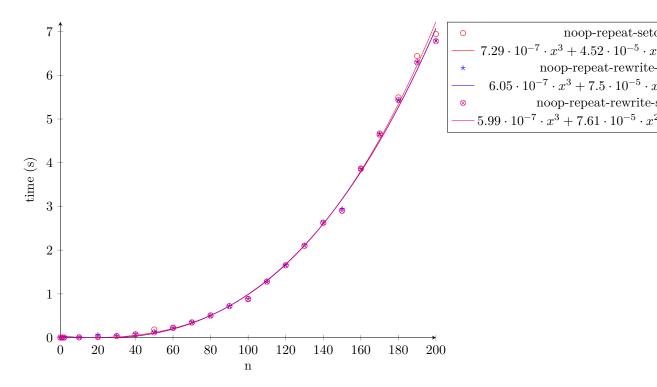


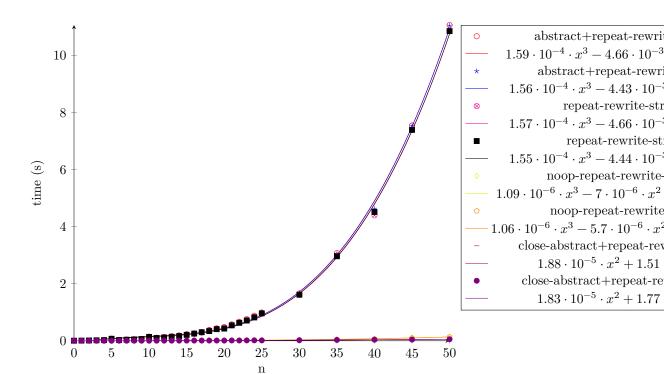
Figure 2: timing-n-polymorphic-universes param-1-n $\,0\,$



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



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



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

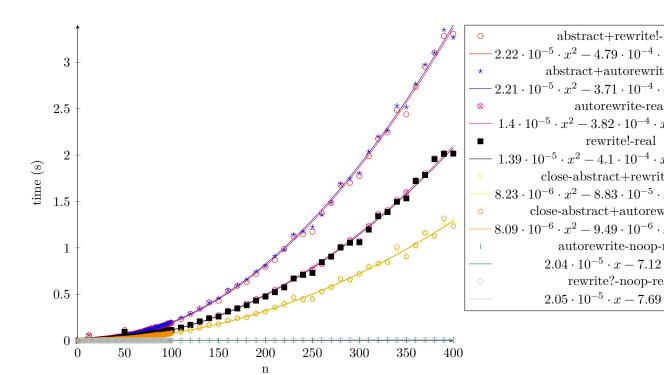
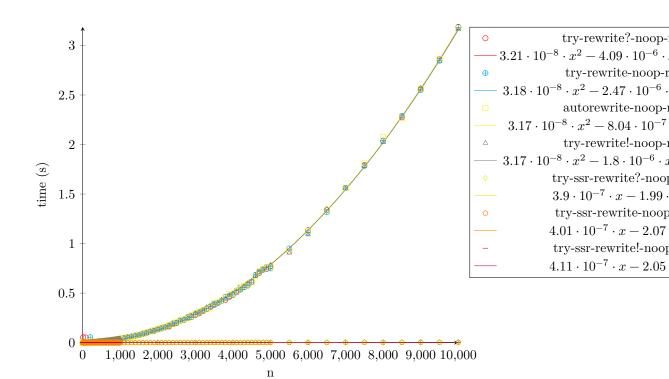


Figure 6: timing-rewrite-repeated-app-autorewrite



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

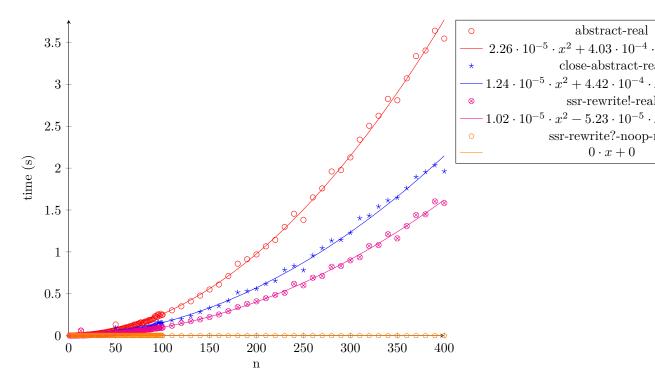
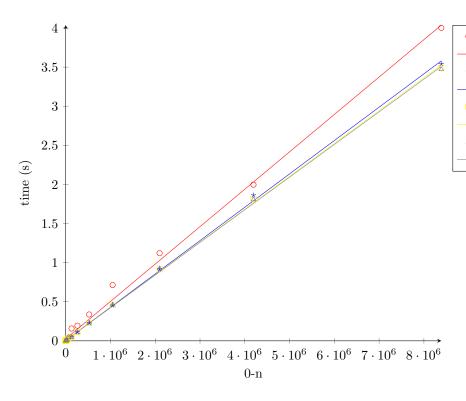


Figure 8: timing-rewrite-repeated-app-ssrrewrite



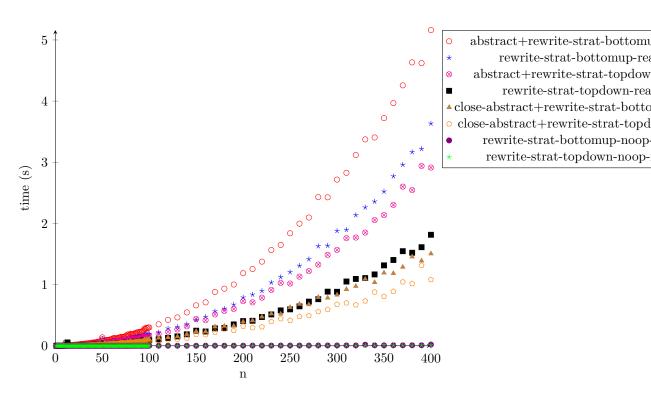
try-ssr-rewrite!-cold-noop-rea $4.78 \cdot 10^{-7} \cdot x + 2.55 \cdot 10^{-2}$

 $\begin{aligned} &\text{try-ssr-rewrite!-noop-real} \\ &4.26 \cdot 10^{-7} \cdot x + 2.83 \cdot 10^{-3} \\ &\text{try-ssr-rewrite-noop-real} \end{aligned}$

 $\begin{array}{l} 4.2\cdot 10^{-7}\cdot x + 4.28\cdot 10^{-3}\\ \text{try-ssr-rewrite?-noop-real} \end{array}$

 $4.18\cdot 10^{-7}\cdot x + 5.38\cdot 10^{-3}$

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



rewrite-strat-bottomup-rea abstract + rewrite - strat - topdow

rewrite-strat-topdown-rea

rewrite-strat-bottomup-nooprewrite-strat-topdown-noop-

 $Figure~10:~timing\mbox{-rewrite-repeated-app-rewrite-strat}$

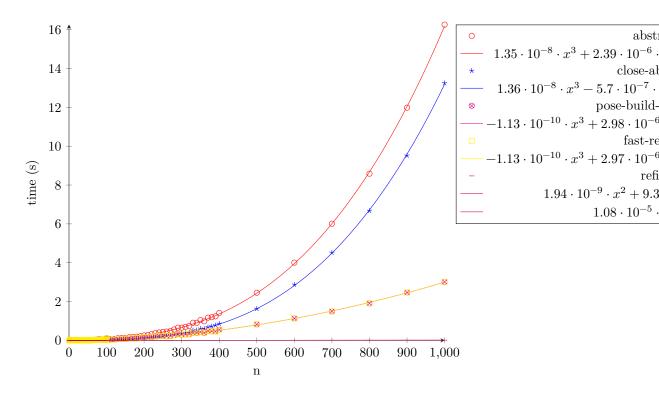
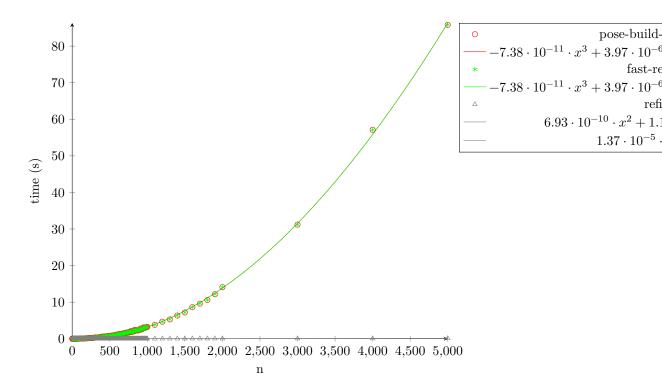


Figure 11: timing-rewrite-repeated-app-fast-rewrite



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