

Figure 1: timing-pattern

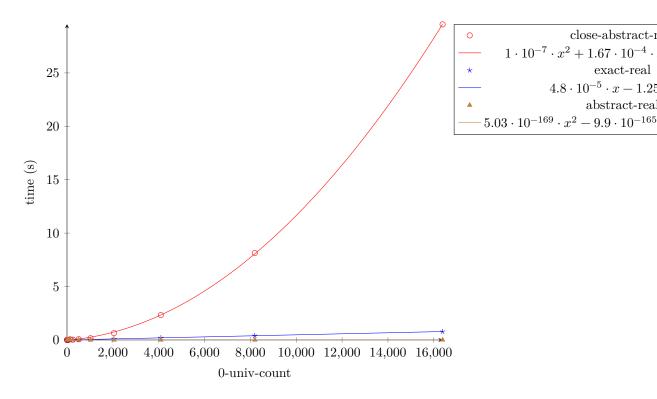
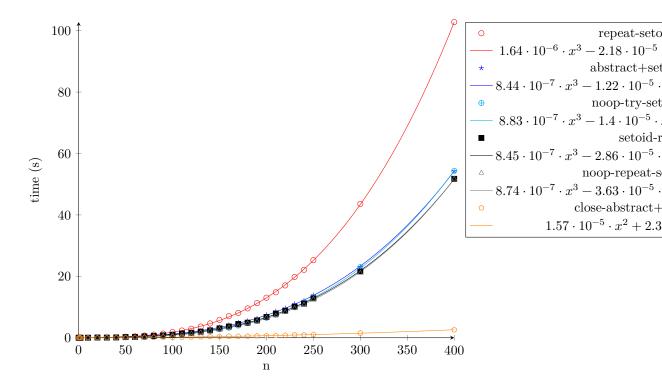


Figure 2: timing-n-polymorphic-universes param-1-n  $\,0\,$ 



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

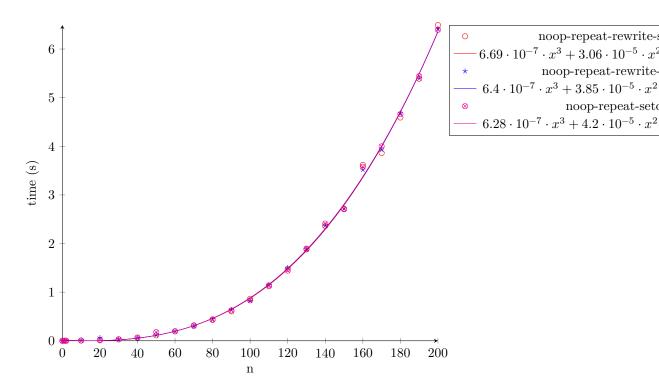
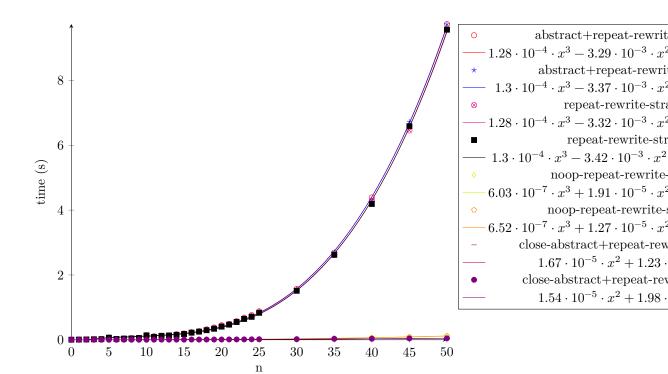
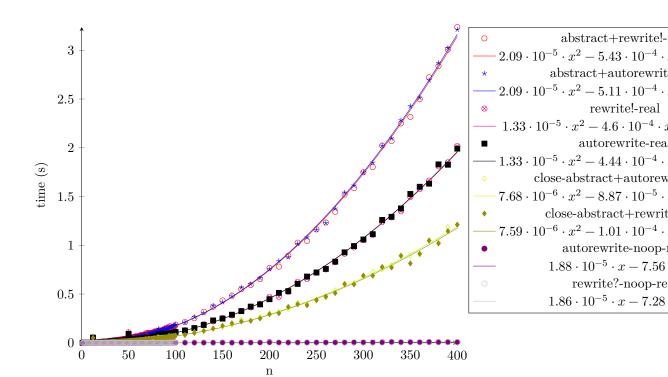


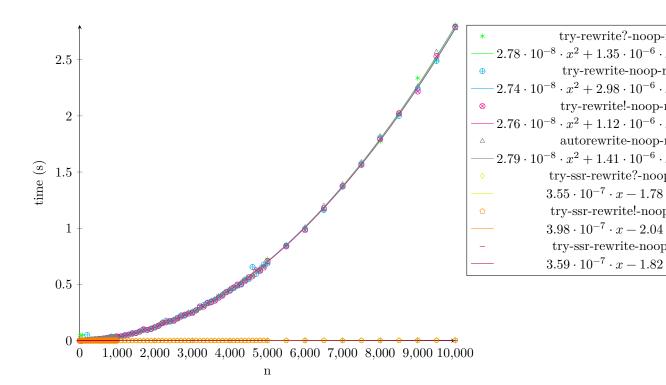
Figure 4: timing-repeat-setoid-rewrite-under-binders-noop



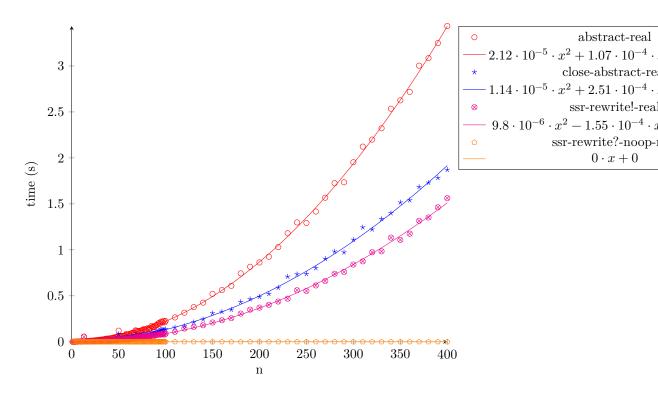
 $Figure\ 5:\ timing-rewrite-strat-under-binders$ 



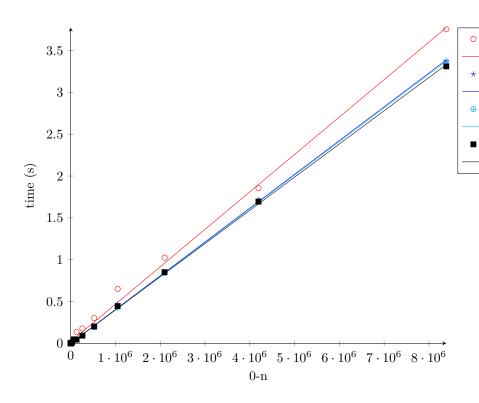
 $Figure \ 6: \ timing-rewrite-repeated-app-autorewrite \\$ 



 $Figure~7:~timing\mbox{-rewrite-repeated-app-autorewrite-noop}$ 



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



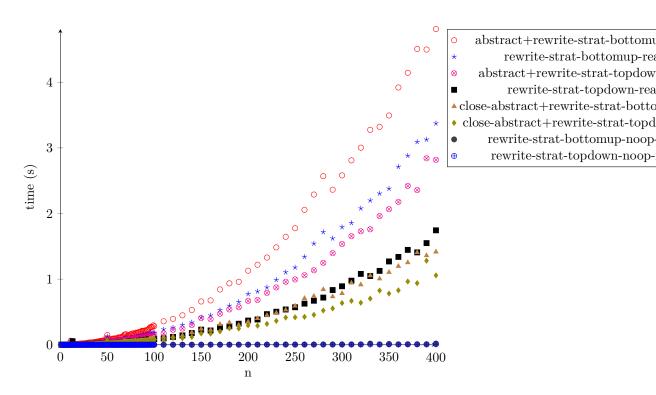
try-ssr-rewrite!-cold-noop-rea

 $\begin{array}{l} 4.47 \cdot 10^{-7} \cdot x + 2.07 \cdot 10^{-2} \\ \text{try-ssr-rewrite-noop-real} \\ 4.04 \cdot 10^{-7} \cdot x + 1.54 \cdot 10^{-3} \end{array}$ 

try-ssr-rewrite!-noop-real  $4.02\cdot 10^{-7}\cdot x - 1.36\cdot 10^{-3}$ 

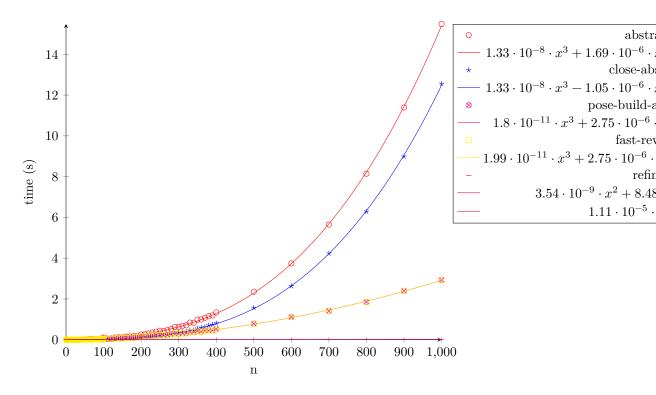
try-ssr-rewrite?-noop-real  $3.97\cdot 10^{-7}\cdot x + 2.39\cdot 10^{-3}$ 

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

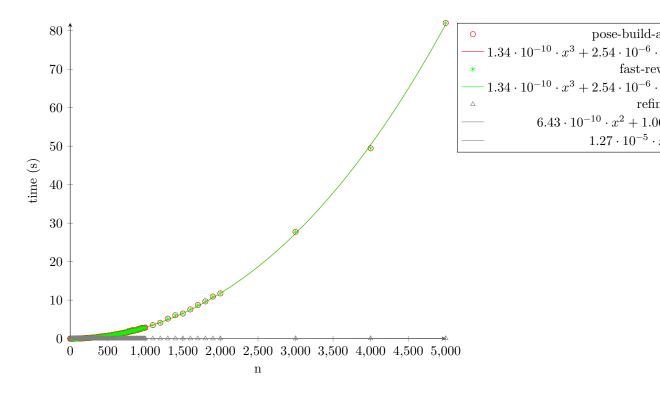


rewrite-strat-topdown-rea

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



 $Figure~11:~timing\mbox{-rewrite-repeated-app-fast-rewrite}$ 



Figure~12:~timing-rewrite-repeated-app-fast-rewrite-no-abstract