

Figure 1: timing-pattern

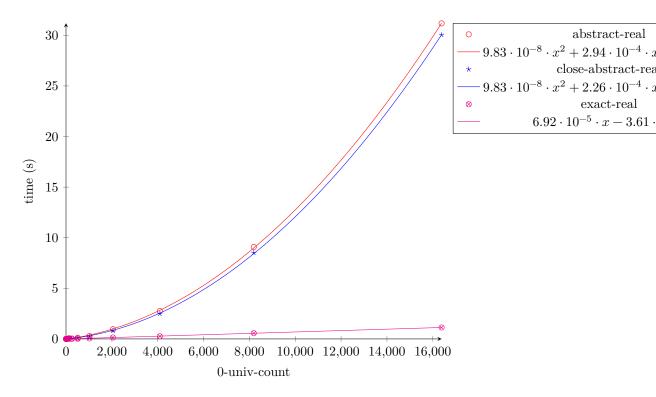
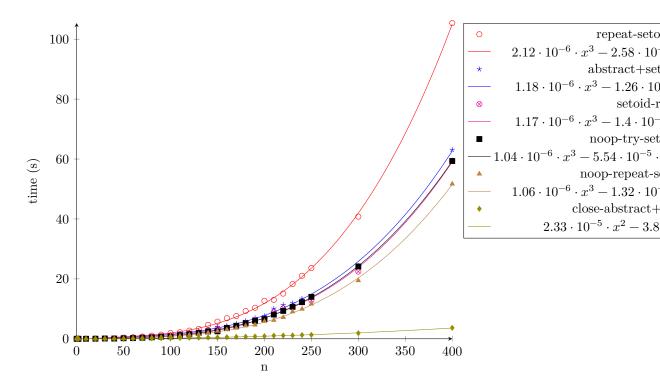
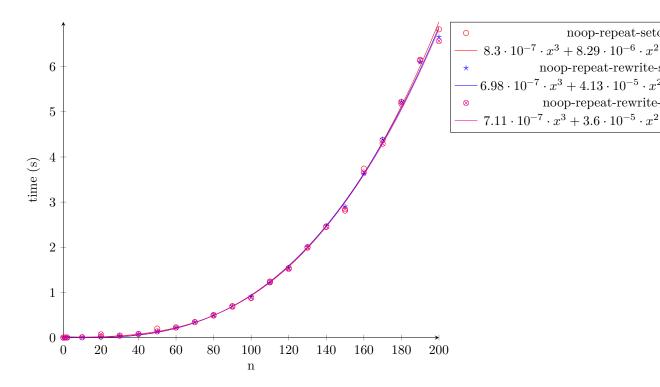


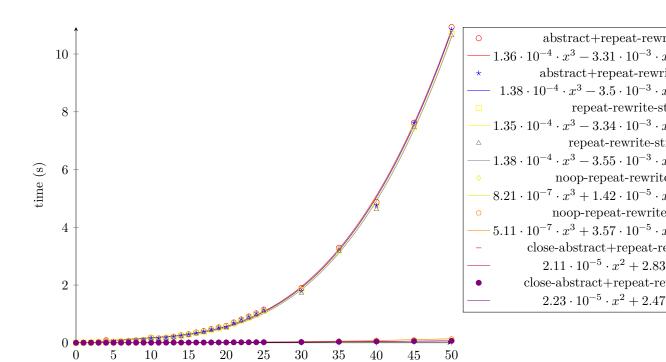
Figure 2: timing-n-polymorphic-universes param-1-n $\,0\,$



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

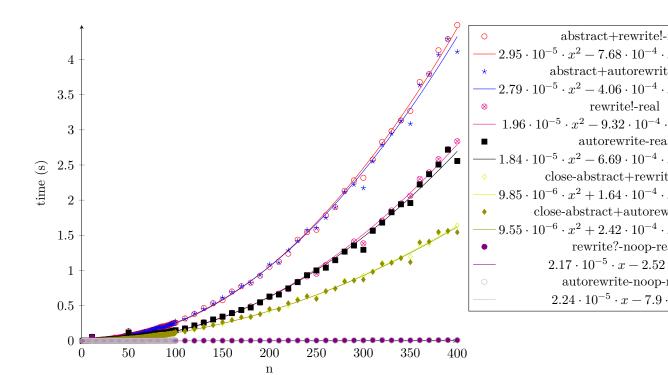


 $Figure \ 4: \ timing-repeat-setoid-rewrite-under-binders-noop \\$

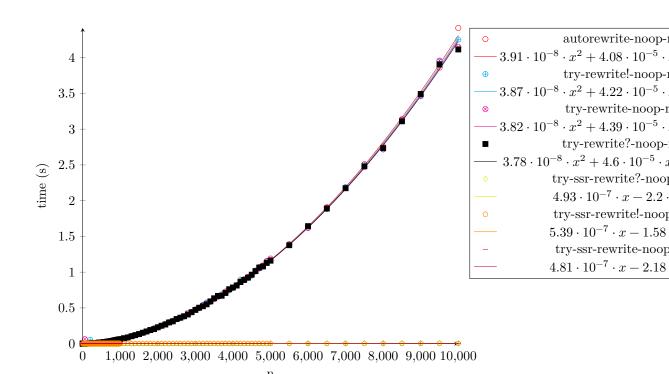


 $Figure\ 5:\ timing-rewrite-strat-under-binders$

n



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



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

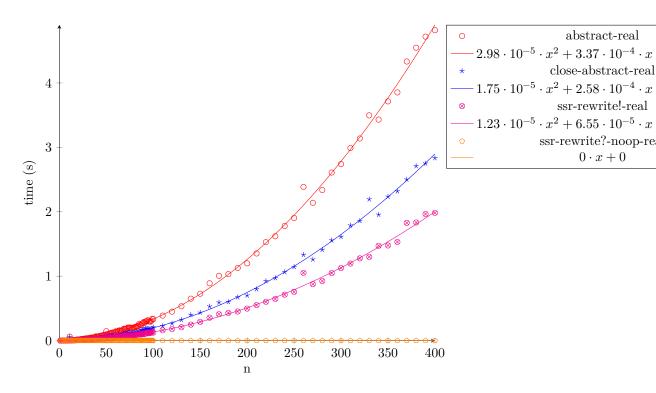
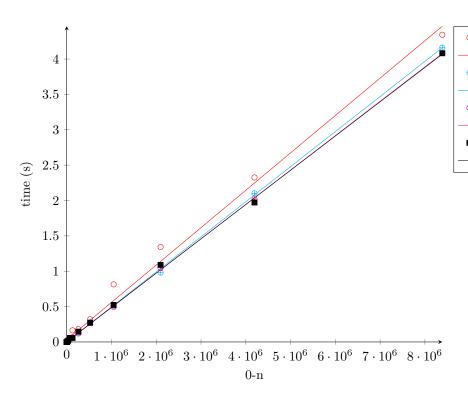


Figure 8: timing-rewrite-repeated-app-ssrrewrite



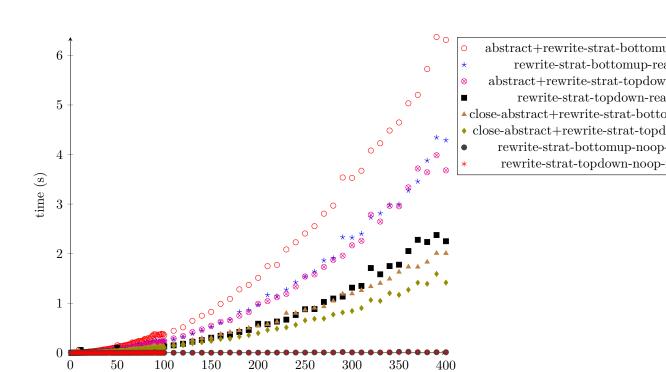
try-ssr-rewrite!-cold-noop-rea $5.29 \cdot 10^{-7} \cdot x + 3.08 \cdot 10^{-2}$

try-ssr-rewrite?-noop-real $4.96\cdot 10^{-7}\cdot x - 1.57\cdot 10^{-3}$

try-ssr-rewrite-noop-real $4.86\cdot 10^{-7}\cdot x + 3.13\cdot 10^{-4}$

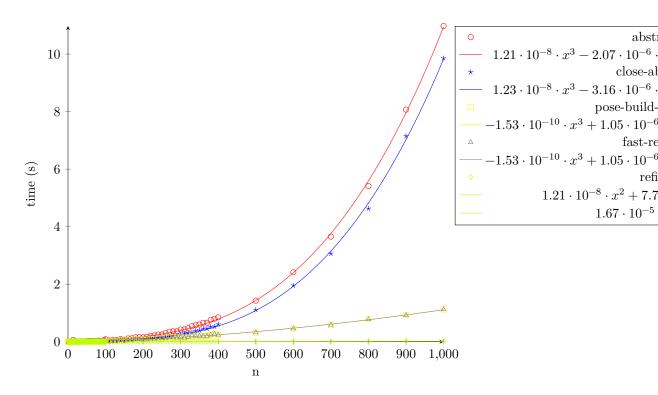
try-ssr-rewrite!-noop-real $4.85\cdot 10^{-7}\cdot x + 4.46\cdot 10^{-3}$

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

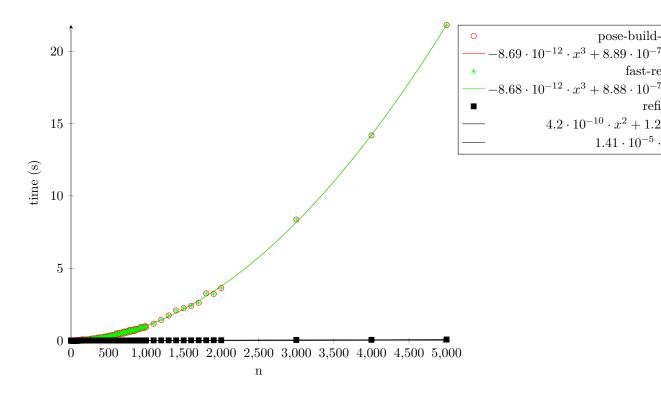


 $Figure~10:~timing\mbox{-rewrite-repeated-app-rewrite-strat}$

n



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



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

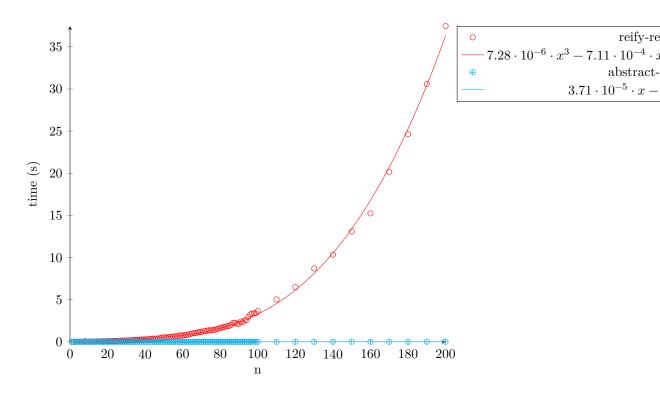


Figure 13: timing-typeclass-reification-let-in-HOAS

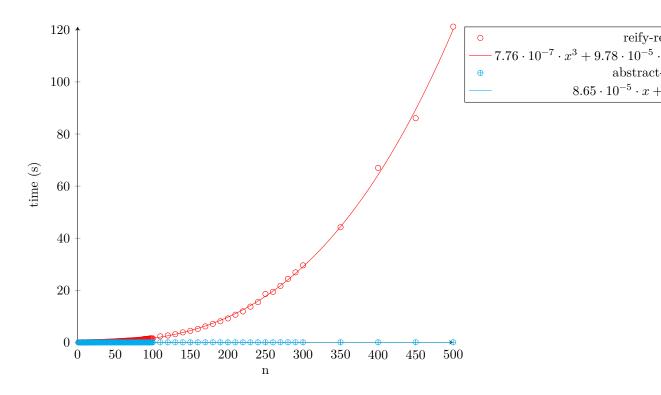


Figure 14: timing-typeclass-reification-let-in-PHOAS

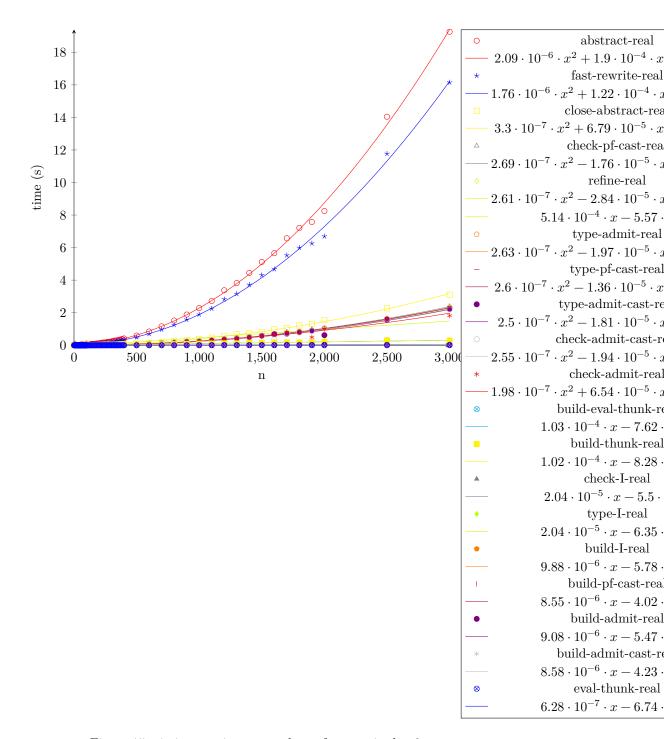


Figure 15: timing-rewrite-repeated-app-fast-rewrite-ltac2