

Figure 1: timing-pattern

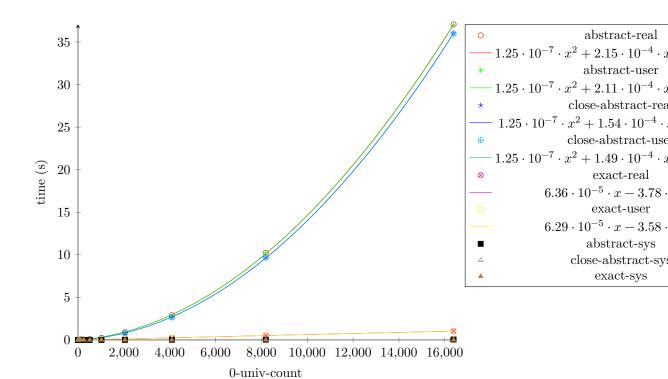


Figure 2: timing-n-polymorphic-universes param-1-n 0

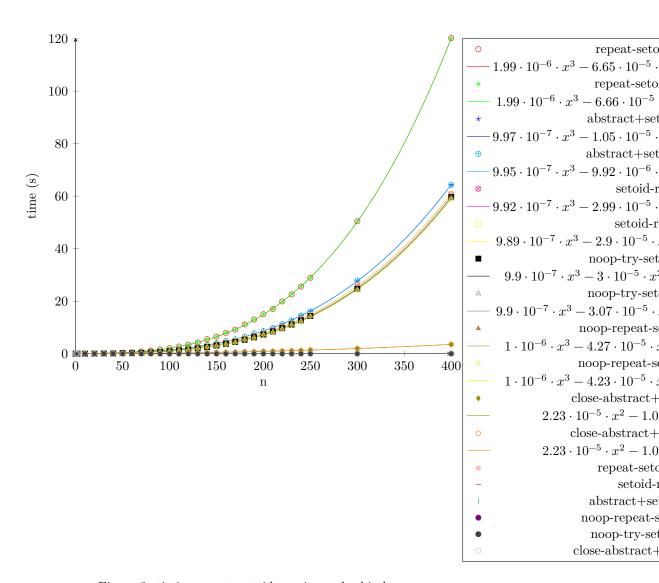


Figure 3: timing-repeat-setoid-rewrite-under-binders

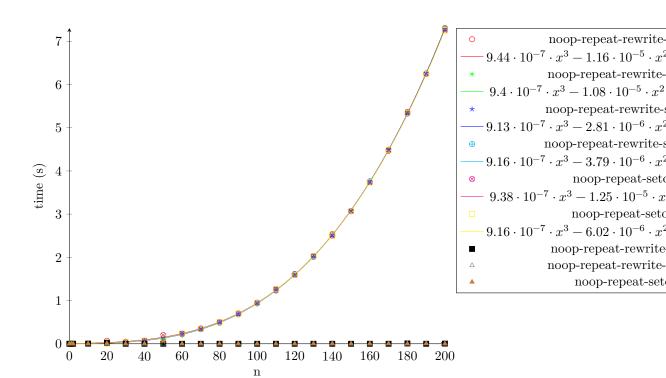


Figure 4: timing-repeat-setoid-rewrite-under-binders-noop

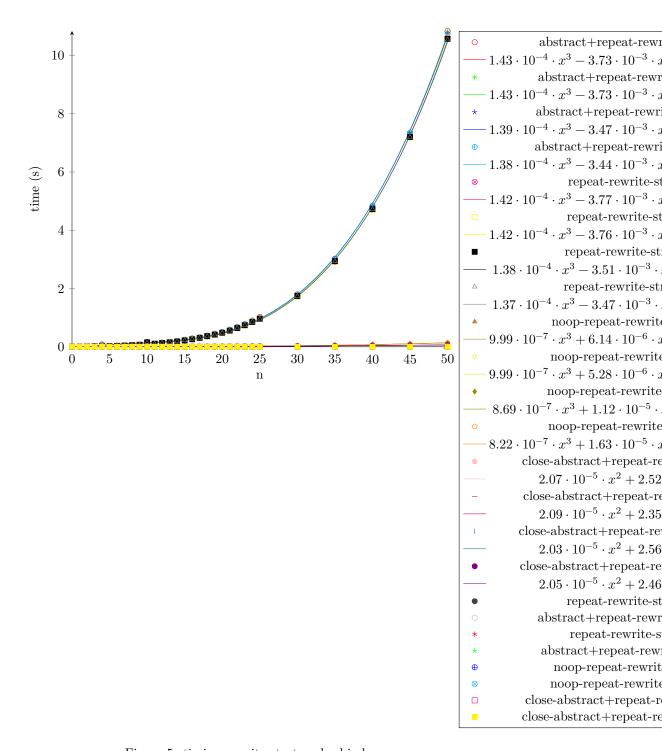
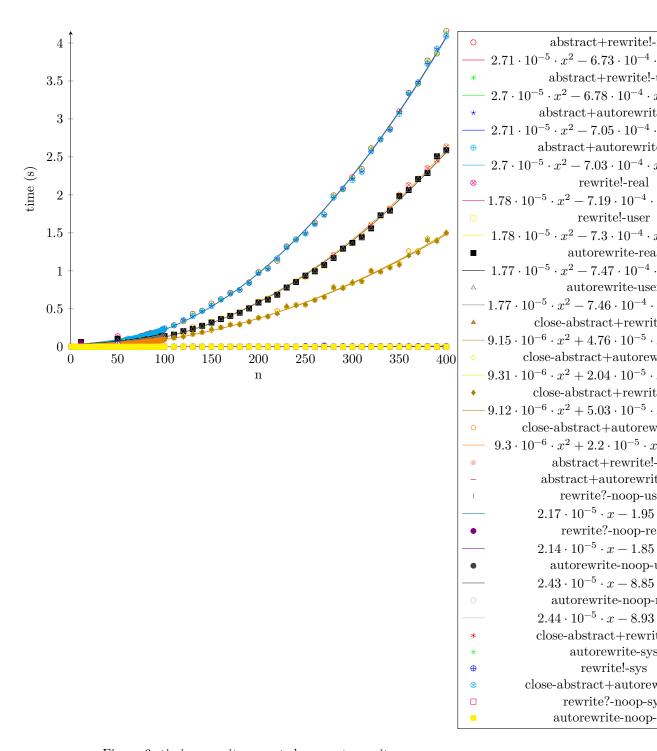


Figure 5: timing-rewrite-strat-under-binders



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

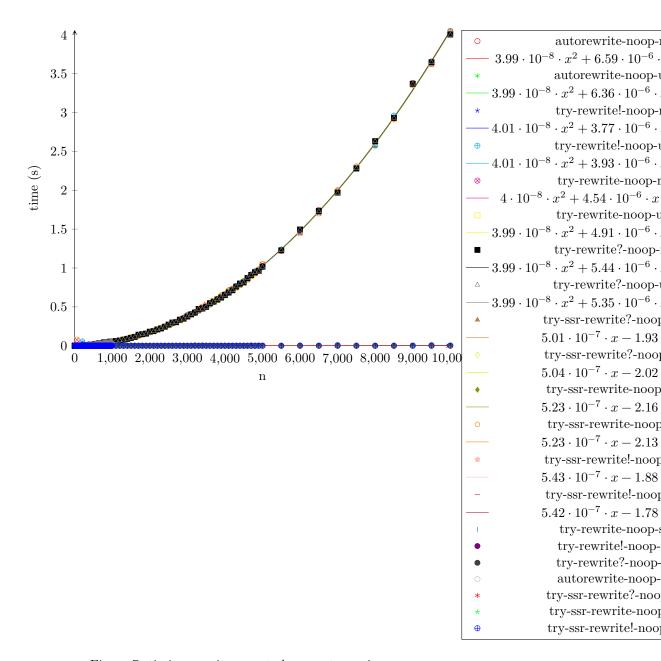


Figure 7: timing-rewrite-repeated-app-autorewrite-noop

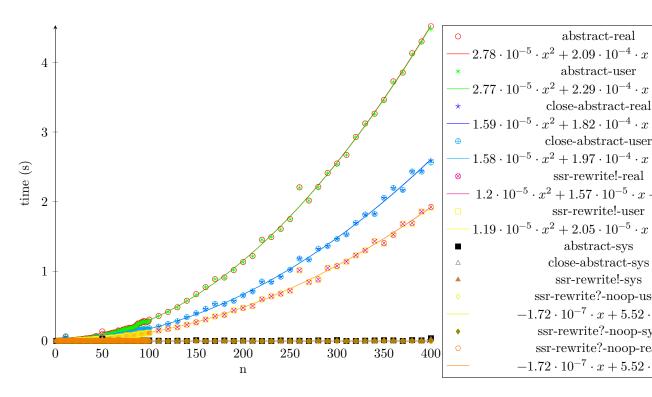


Figure 8: timing-rewrite-repeated-app-ssrrewrite

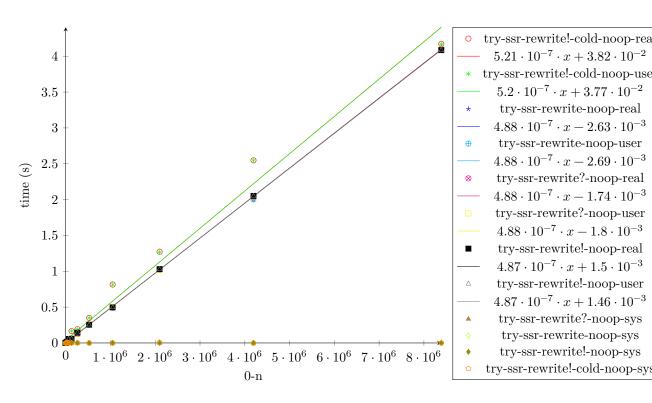


Figure 9: timing-rewrite-repeated-app-ssrrewrite-noop param-1-lgn $\ 1$

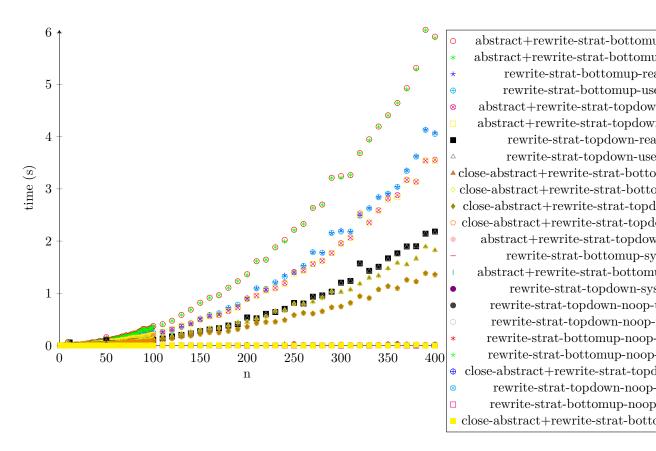
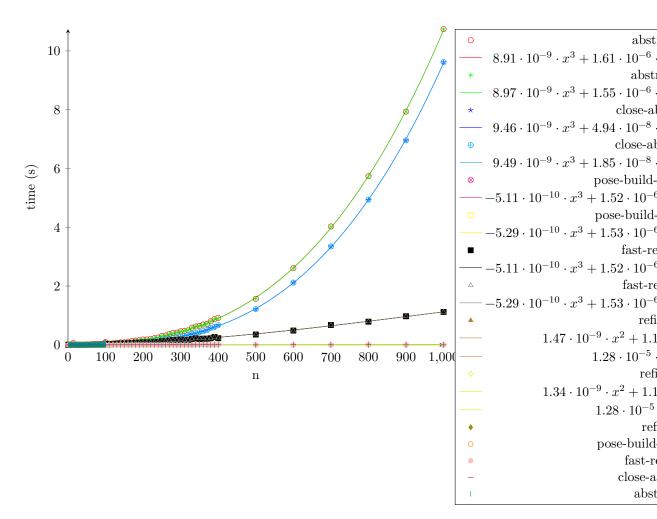
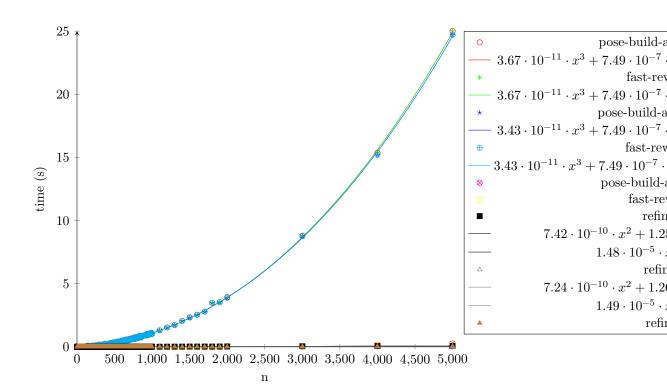


Figure 10: timing-rewrite-repeated-app-rewrite-strat

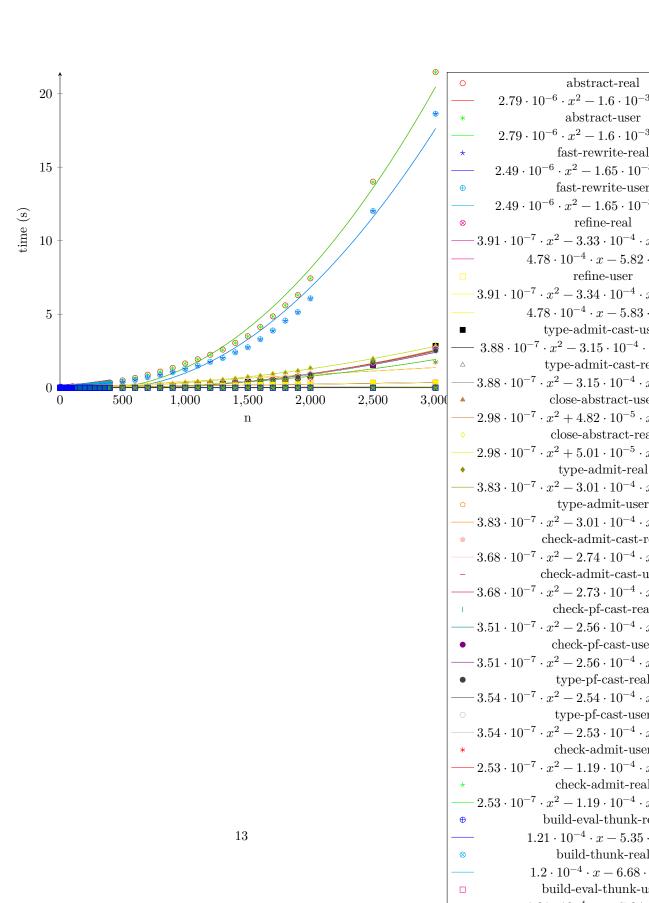


ref

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



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



abstract-real

abstract-user

fast-rewrite-real

fast-rewrite-user

refine-real

 $4.78 \cdot 10^{-4} \cdot x - 5.82 \cdot$ refine-user

 $4.78 \cdot 10^{-4} \cdot x - 5.83$

type-admit-cast-us

type-admit-cast-re

close-abstract-use

close-abstract-rea

type-admit-real

type-admit-user

check-admit-cast-r

check-admit-cast-u

check-pf-cast-rea

check-pf-cast-use

type-pf-cast-real

type-pf-cast-user

check-admit-user

check-admit-real

build-eval-thunk-re

 $1.21 \cdot 10^{-4} \cdot x - 5.35 \cdot$ build-thunk-real $1.2 \cdot 10^{-4} \cdot x - 6.68 \cdot$ build-eval-thunk-u $1.21 \cdot 10^{-4} \cdot x - 7.24 \cdot$ build-thunk-user $1.2 \cdot 10^{-4} \cdot x - 8.51 \cdot$ ob ools I ...