

Figure 1: timing-pattern

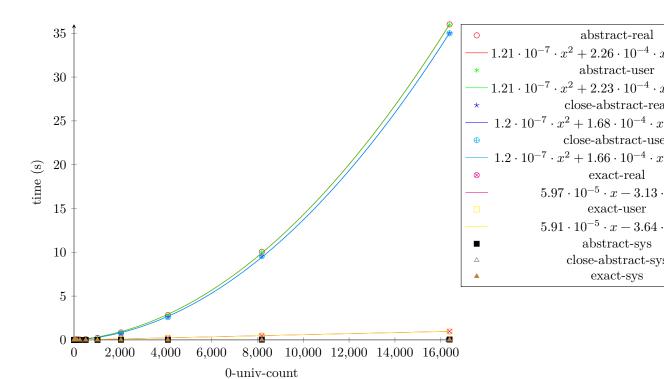


Figure 2: timing-n-polymorphic-universes param-1-n 0

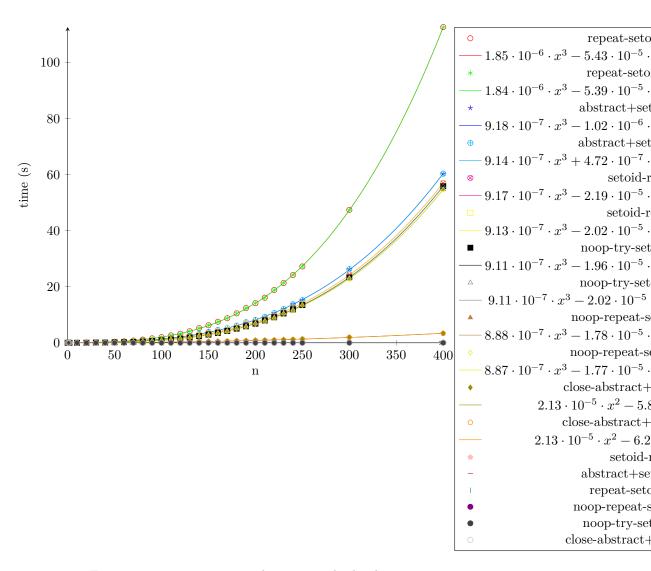


Figure 3: timing-repeat-setoid-rewrite-under-binders

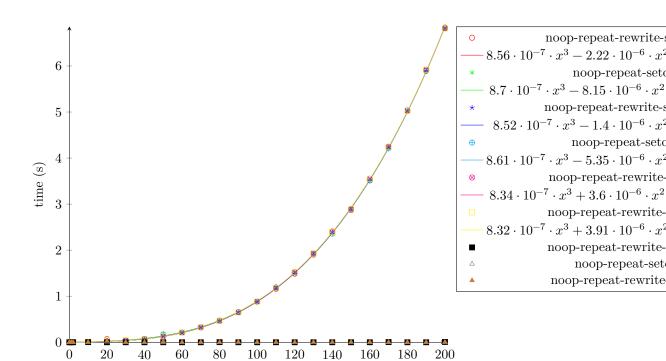


Figure 4: timing-repeat-setoid-rewrite-under-binders-noop

n

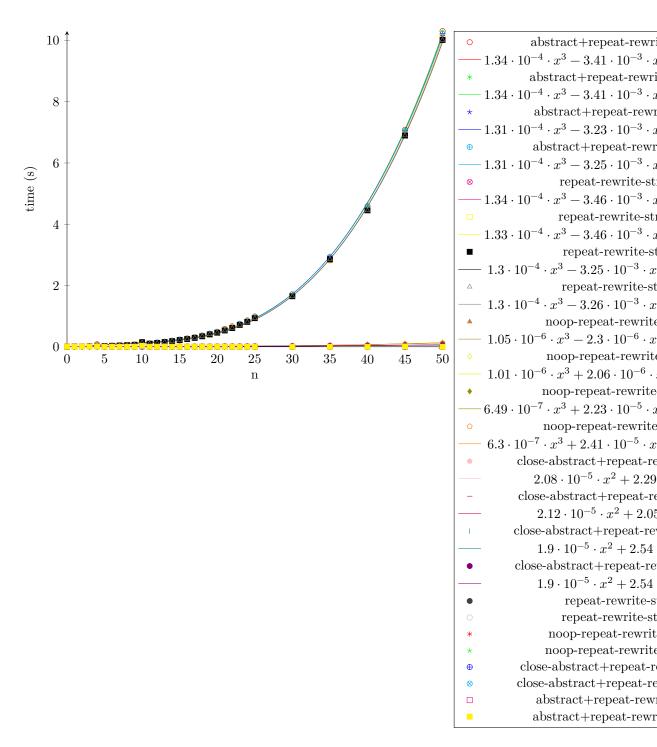
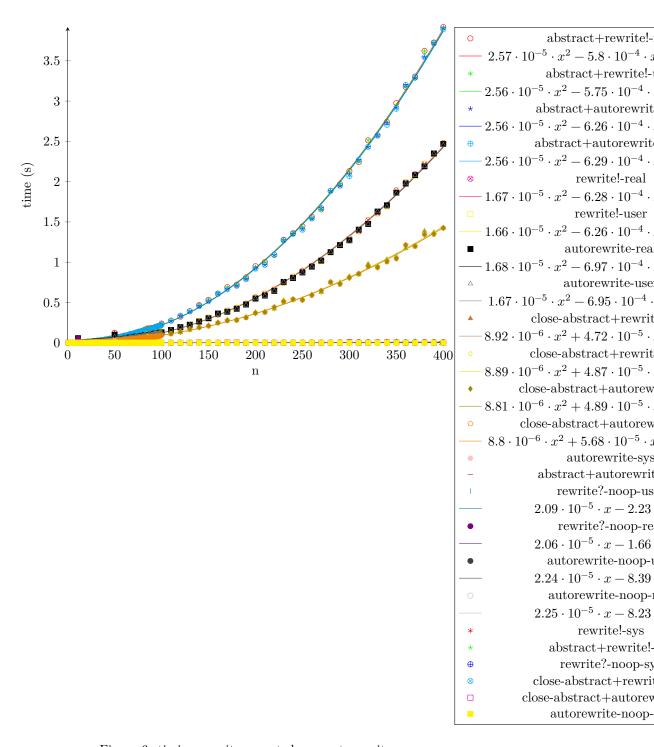


Figure 5: timing-rewrite-strat-under-binders



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

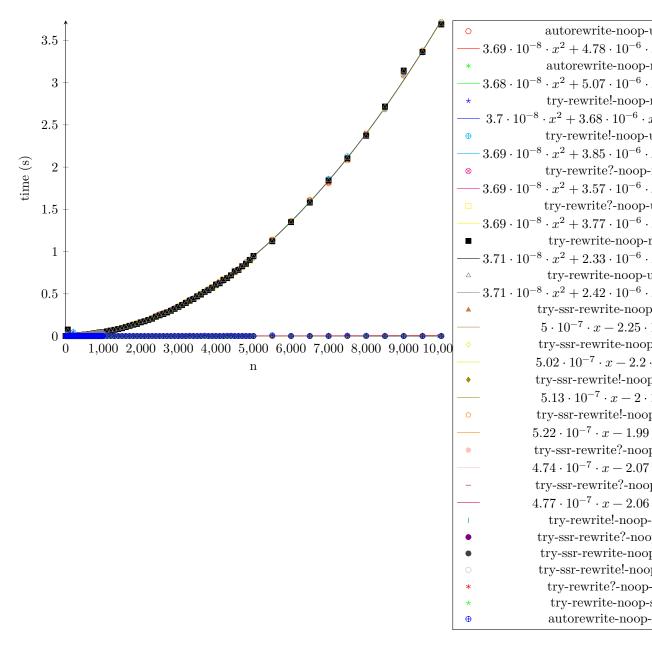


Figure 7: timing-rewrite-repeated-app-autorewrite-noop

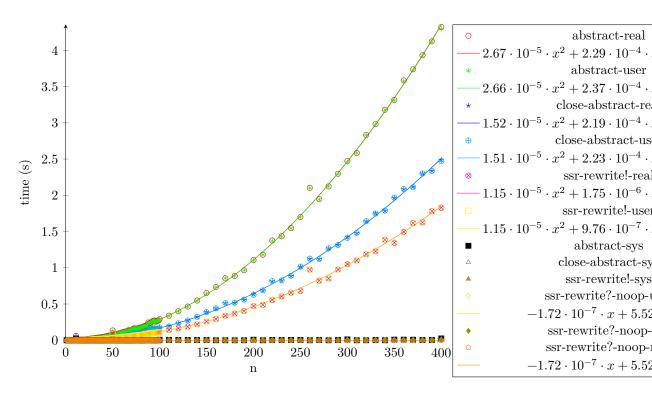


Figure 8: timing-rewrite-repeated-app-ssrrewrite

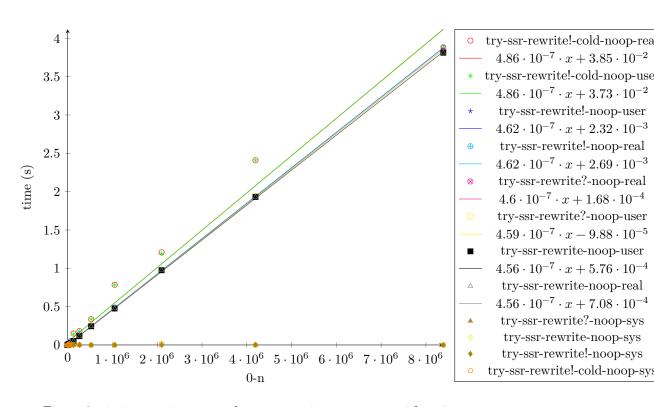


Figure 9: timing-rewrite-repeated-app-ssrrewrite-noop param-1-lgn $\ 1$

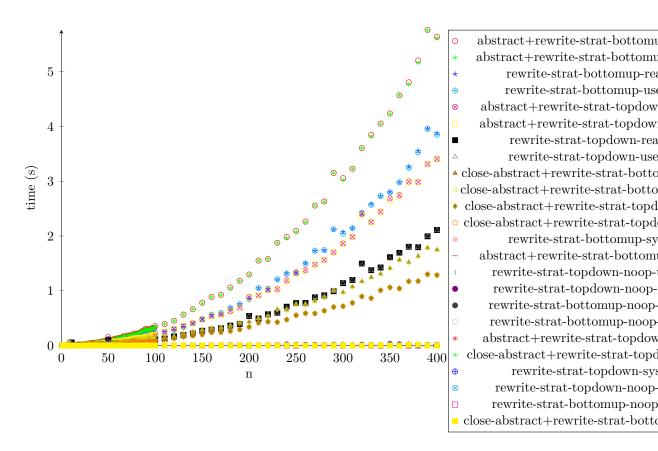
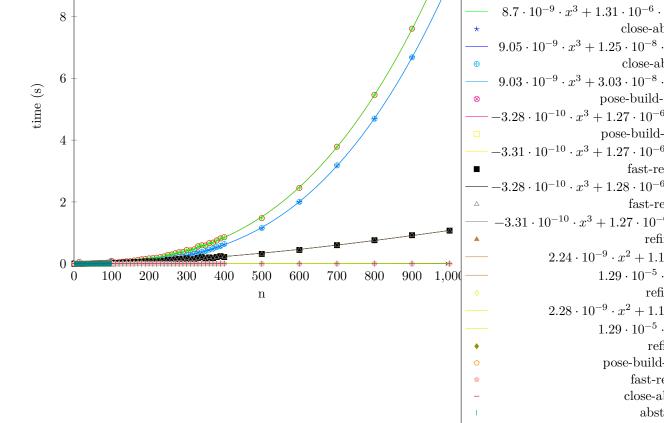


Figure 10: timing-rewrite-repeated-app-rewrite-strat



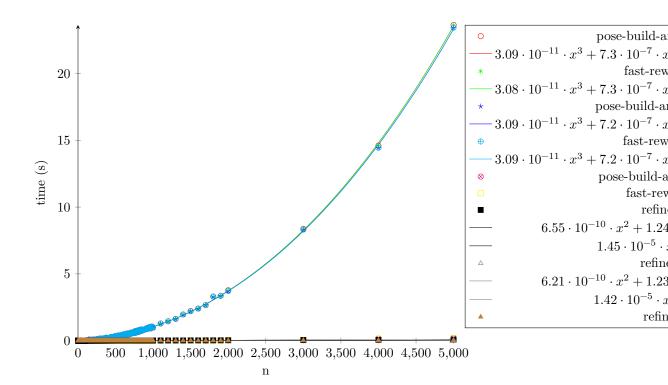
abst

abst

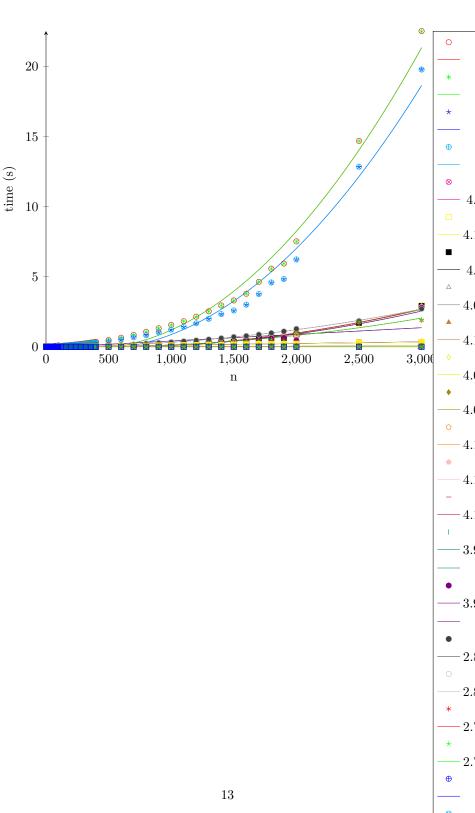
 $8.68\cdot 10^{-9}\cdot x^3 + 1.33\cdot 10^{-6}$

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

10 🕈



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



 $3.02 \cdot 10^{-6} \cdot x^2 - 2.02 \cdot 10^{-}$ $3.02 \cdot 10^{-6} \cdot x^2 - 2.02 \cdot 10^{-6}$ $2.74 \cdot 10^{-6} \cdot x^2 - 2.06 \cdot 10^{-6}$ $2.73 \cdot 10^{-6} \cdot x^2 - 2.06 \cdot 10^{-6}$ $4.15 \cdot 10^{-7} \cdot x^2 - 3.6 \cdot 10^{-4} \cdot x$ $4.15 \cdot 10^{-7} \cdot x^2 - 3.59 \cdot 10^{-4} \cdot x^2$ $4.07 \cdot 10^{-7} \cdot x^2 - 3.4 \cdot 10^{-4} \cdot x$ $4.07 \cdot 10^{-7} \cdot x^2 - 3.41 \cdot 10^{-4} \cdot x^2$ $4.15 \cdot 10^{-7} \cdot x^2 - 3.54 \cdot 10^{-4} \cdot x^2$ $4.06 \cdot 10^{-7} \cdot x^2 - 3.41 \cdot 10^{-4} \cdot x^2$ $4.06 \cdot 10^{-7} \cdot x^2 - 3.41 \cdot 10^{-4} \cdot x^2$ $4.15 \cdot 10^{-7} \cdot x^2 - 3.53 \cdot 10^{-4} \cdot x^2$ $4.12 \cdot 10^{-7} \cdot x^2 - 3.46 \cdot 10^{-4} \cdot x^2$ $4.12 \cdot 10^{-7} \cdot x^2 - 3.45 \cdot 10^{-4} \cdot x^2$ $3.97 \cdot 10^{-7} \cdot x^2 - 3.52 \cdot 10^{-4} \cdot x^2$ $3.97 \cdot 10^{-7} \cdot x^2 - 3.51 \cdot 10^{-4} \cdot x^2$ $2.88 \cdot 10^{-7} \cdot x^2 + 3.46 \cdot 10^{-5} \cdot x^2$ $2.87 \cdot 10^{-7} \cdot x^2 + 3.51 \cdot 10^{-5} \cdot x^2$ $2.79 \cdot 10^{-7} \cdot x^2 - 1.58 \cdot 10^{-4} \cdot x^2$ $2.78 \cdot 10^{-7} \cdot x^2 - 1.58 \cdot 10^{-4} \cdot x^2$

abstract-real

abstract-user

fast-rewrite-real

fast-rewrite-user

check-pf-cast-use

check-pf-cast-rea

type-pf-cast-real

type-pf-cast-user

check-admit-cast-r

type-admit-cast-us

type-admit-cast-re

check-admit-cast-u

type-admit-real

type-admit-user

refine-user

 $4.73 \cdot 10^{-4} \cdot x - 5.83 \cdot$ refine-real

 $4.73 \cdot 10^{-4} \cdot x - 5.82 \cdot$ close-abstract-rea

close-abstract-use

check-admit-real

check-admit-user

build-eval-thunk-re

 $1.17 \cdot 10^{-4} \cdot x - 7.02$ build-thunk-real $1.16 \cdot 10^{-4} \cdot x - 7.99 \cdot$ build-eval-thunk-u $1.16 \cdot 10^{-4} \cdot x - 8.92 \cdot$ build-thunk-user $1.15 \cdot 10^{-4} \cdot x - 9.77 \cdot$