

Figure 1: timing-pattern

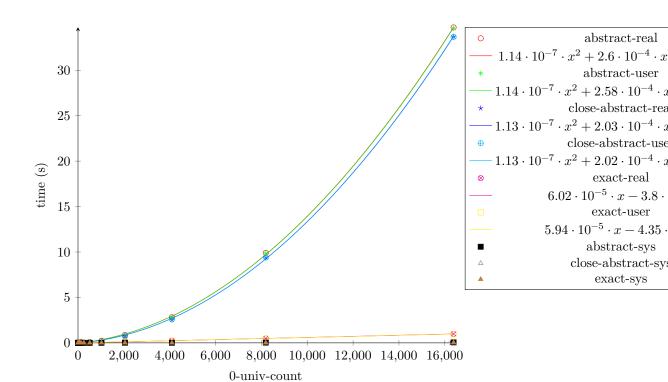


Figure 2: timing-n-polymorphic-universes param-1-n 0

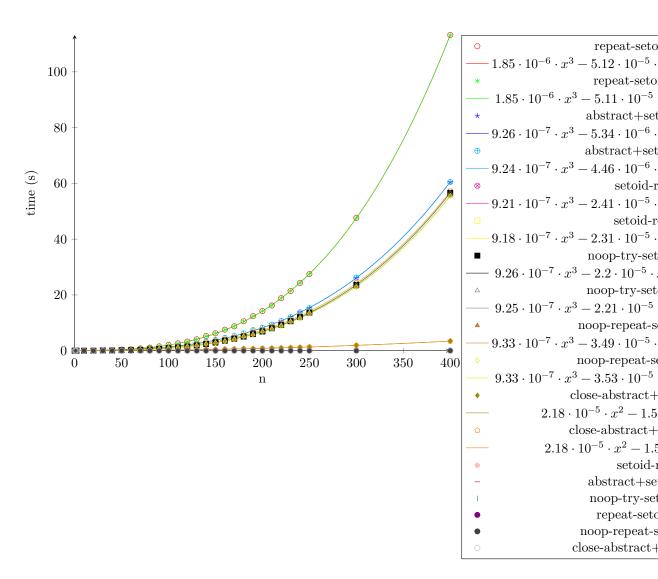


Figure 3: timing-repeat-setoid-rewrite-under-binders

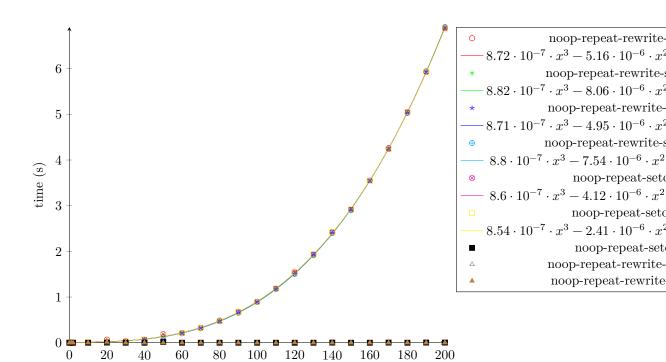


Figure 4: timing-repeat-setoid-rewrite-under-binders-noop

n

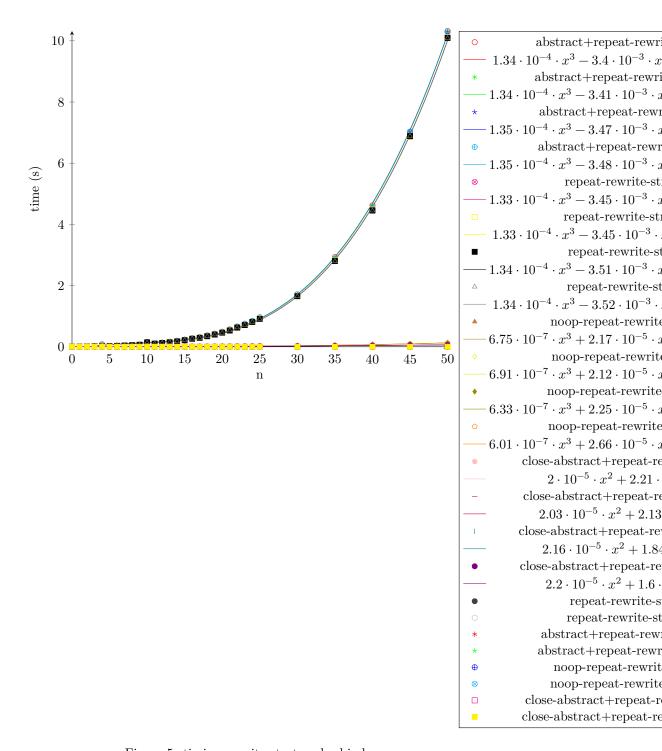
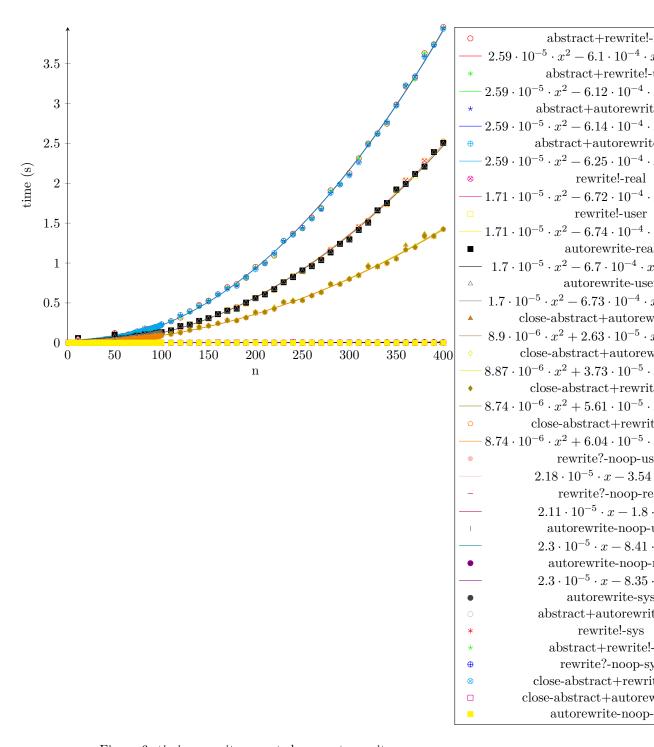


Figure 5: timing-rewrite-strat-under-binders



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

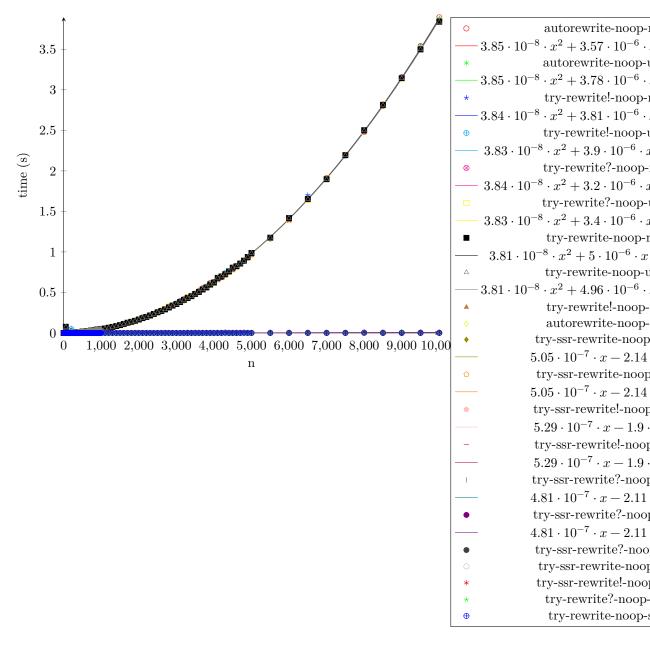


Figure 7: timing-rewrite-repeated-app-autorewrite-noop

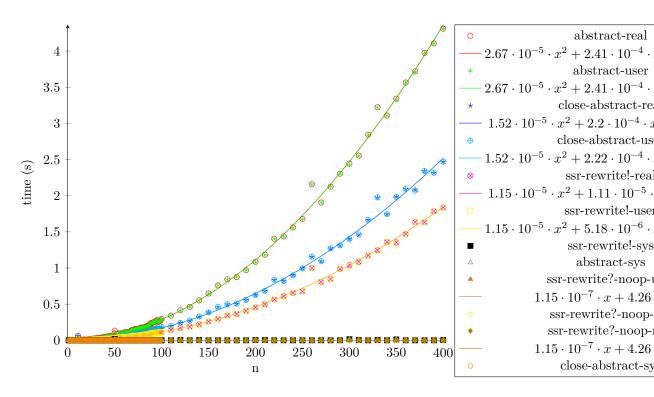


Figure 8: timing-rewrite-repeated-app-ssrrewrite

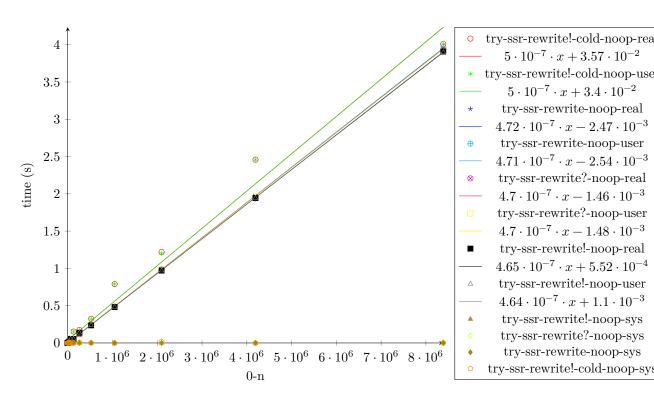


Figure 9: timing-rewrite-repeated-app-ssrrewrite-noop param-1-lgn $\ 1$

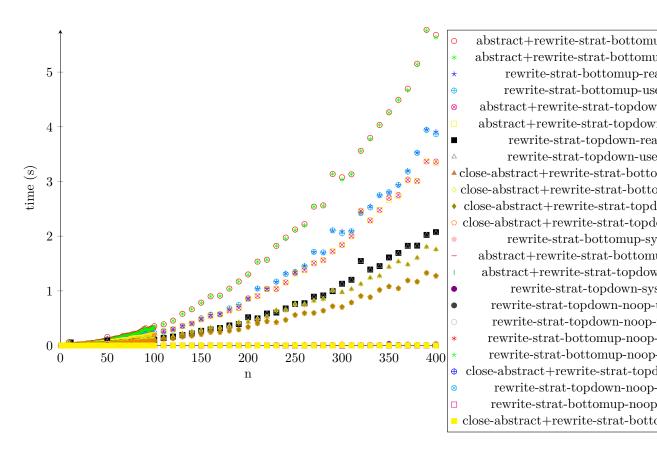
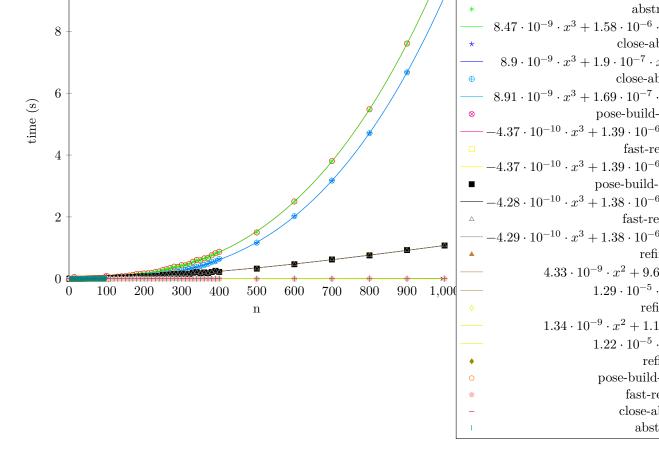


Figure 10: timing-rewrite-repeated-app-rewrite-strat

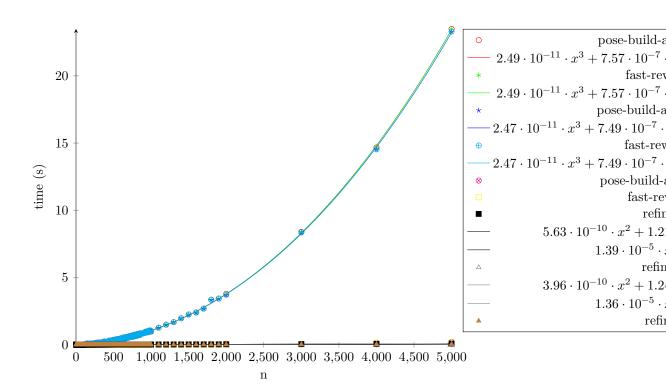


abst

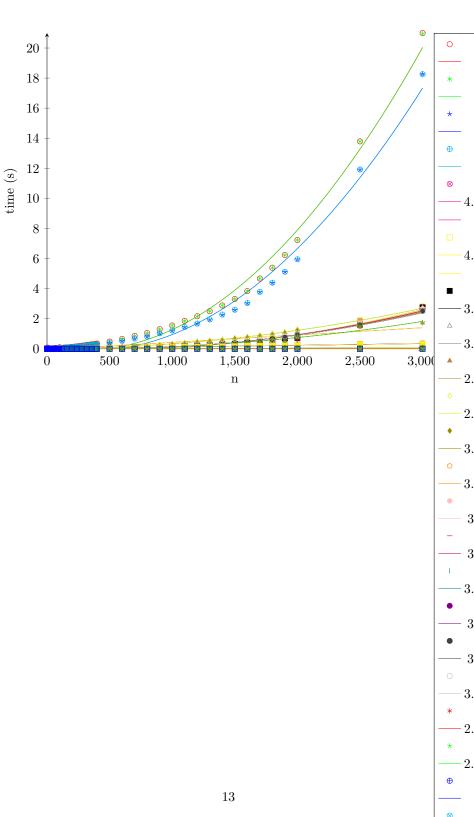
 $8.44 \cdot 10^{-9} \cdot x^3 + 1.61 \cdot 10^{-6}$

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

10 🕈



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



 $2.76 \cdot 10^{-6} \cdot x^2 - 1.65 \cdot 10^{-6}$ $2.75 \cdot 10^{-6} \cdot x^2 - 1.64 \cdot 10^{-6}$ $2.47 \cdot 10^{-6} \cdot x^2 - 1.69 \cdot 10^{-6}$ $2.47 \cdot 10^{-6} \cdot x^2 - 1.69 \cdot 10^{-6}$ $4.05 \cdot 10^{-7} \cdot x^2 - 3.55 \cdot 10^{-4} \cdot x^2$ $4.05 \cdot 10^{-7} \cdot x^2 - 3.55 \cdot 10^{-4} \cdot x^2$ $3.84 \cdot 10^{-7} \cdot x^2 - 3.23 \cdot 10^{-4} \cdot x^2$ $3.83 \cdot 10^{-7} \cdot x^2 - 3.22 \cdot 10^{-4} \cdot x^2$ $2.85 \cdot 10^{-7} \cdot x^2 + 4.36 \cdot 10^{-5} \cdot x^2$ $2.85 \cdot 10^{-7} \cdot x^2 + 4.37 \cdot 10^{-5} \cdot x^2$ $3.68 \cdot 10^{-7} \cdot x^2 - 2.94 \cdot 10^{-4} \cdot x^2$ $3.67 \cdot 10^{-7} \cdot x^2 - 2.92 \cdot 10^{-4} \cdot x^2$ $3.82 \cdot 10^{-7} \cdot x^2 - 3.1 \cdot 10^{-4} \cdot x$ $3.82 \cdot 10^{-7} \cdot x^2 - 3.1 \cdot 10^{-4} \cdot x$ $3.49 \cdot 10^{-7} \cdot x^2 - 2.53 \cdot 10^{-4} \cdot x^2$ $3.47 \cdot 10^{-7} \cdot x^2 - 2.49 \cdot 10^{-4}$ $3.47 \cdot 10^{-7} \cdot x^2 - 2.49 \cdot 10^{-4}$ $3.48 \cdot 10^{-7} \cdot x^2 - 2.53 \cdot 10^{-4} \cdot x^2$ $2.35 \cdot 10^{-7} \cdot x^2 - 1.01 \cdot 10^{-4} \cdot x^2$ $2.35 \cdot 10^{-7} \cdot x^2 - 1.01 \cdot 10^{-4} \cdot x^2$

abstract-real

abstract-user

fast-rewrite-real

fast-rewrite-user

refine-real

refine-user

type-admit-real

type-admit-user

close-abstract-rea

close-abstract-use

check-pf-cast-rea

check-pf-cast-use

check-admit-cast-r

check-admit-cast-u

type-admit-cast-re

type-pf-cast-user

type-pf-cast-real

type-admit-cast-us

check-admit-user

check-admit-real

build-eval-thunk-re

 $1.16 \cdot 10^{-4} \cdot x - 7.9$ build-thunk-real $1.15 \cdot 10^{-4} \cdot x - 8.7 \cdot$ build-eval-thunk-u $1.15 \cdot 10^{-4} \cdot x - 9.55 \cdot$ build-thunk-user $1.14 \cdot 10^{-4} \cdot x - 1.05 \cdot$ shool. I

 $4.87 \cdot 10^{-4} \cdot x - 6.02 \cdot$

 $4.87 \cdot 10^{-4} \cdot x - 6.02 \cdot$