

Figure 1: timing-pattern

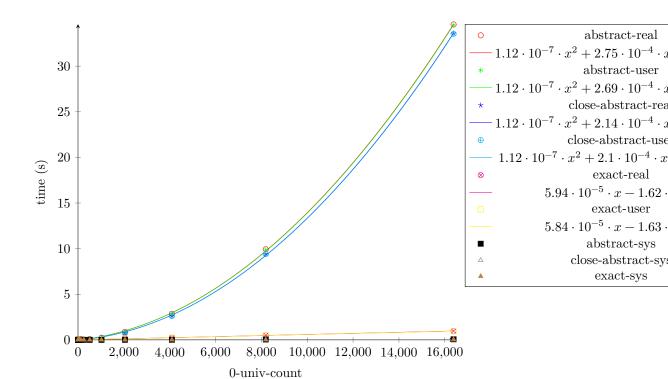


Figure 2: timing-n-polymorphic-universes param-1-n 0

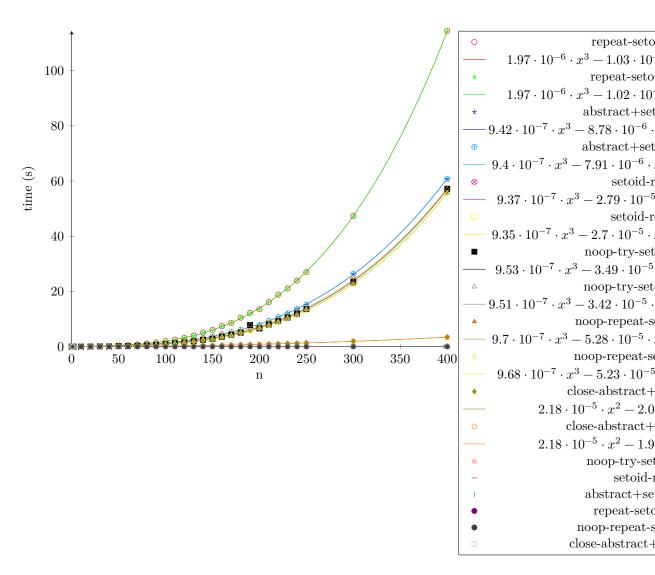


Figure 3: timing-repeat-setoid-rewrite-under-binders

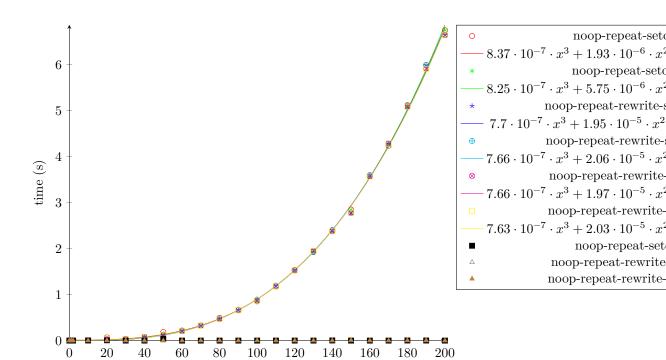


Figure 4: timing-repeat-setoid-rewrite-under-binders-noop

n

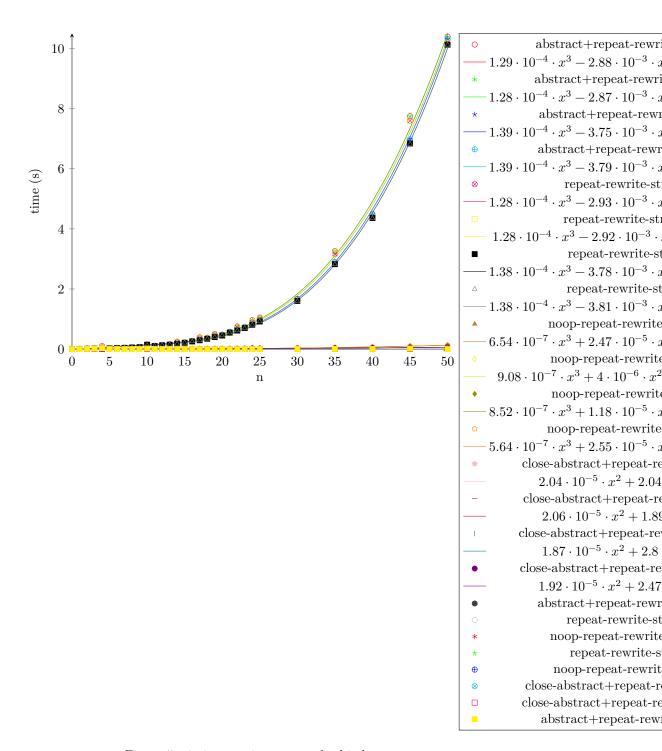


Figure 5: timing-rewrite-strat-under-binders

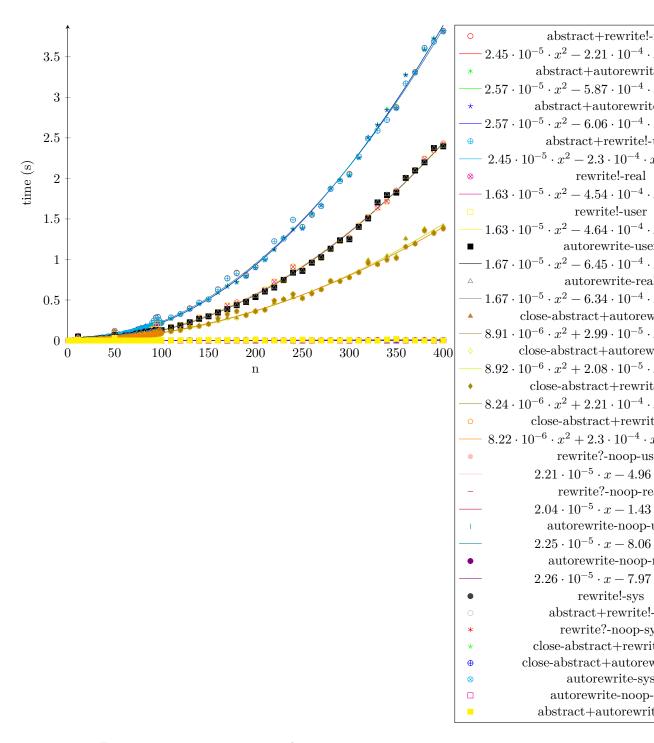


Figure 6: timing-rewrite-repeated-app-autorewrite

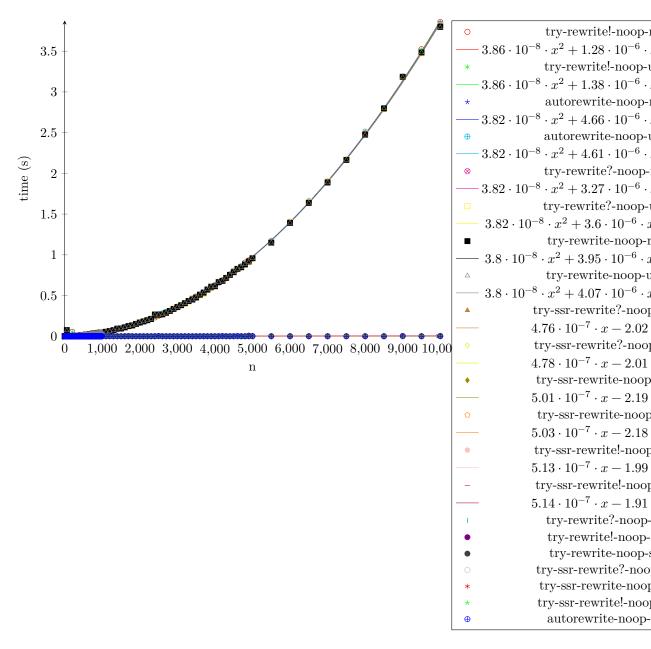
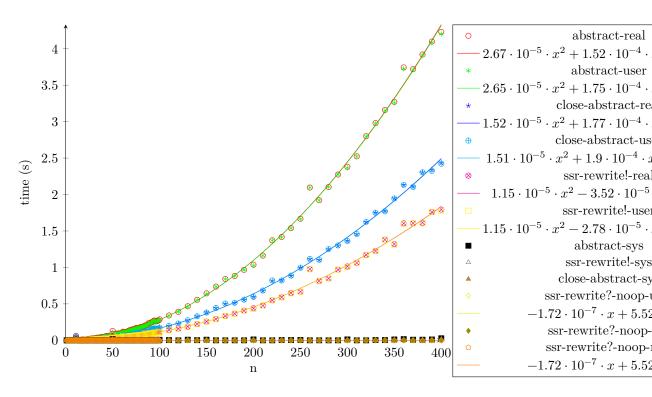


Figure 7: timing-rewrite-repeated-app-autorewrite-noop



 $Figure~8:~timing\mbox{-rewrite-repeated-app-ssrrewrite}$

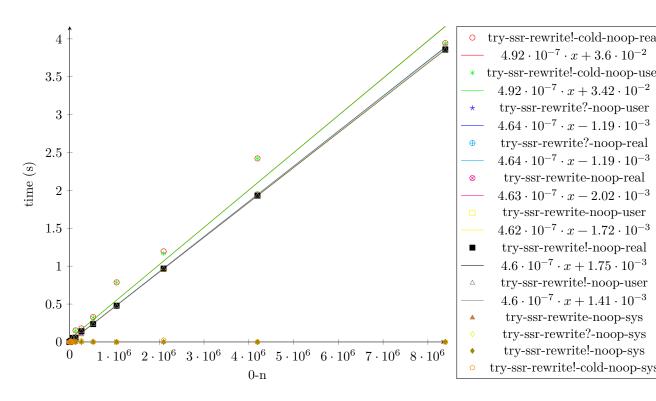


Figure 9: timing-rewrite-repeated-app-ssrrewrite-noop param-1-lgn $\ 1$

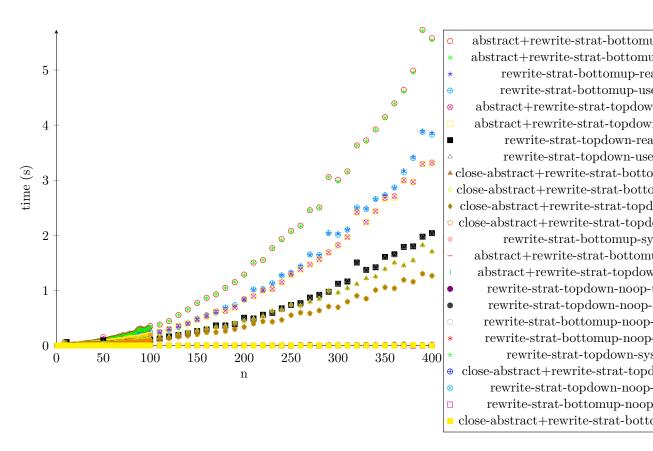
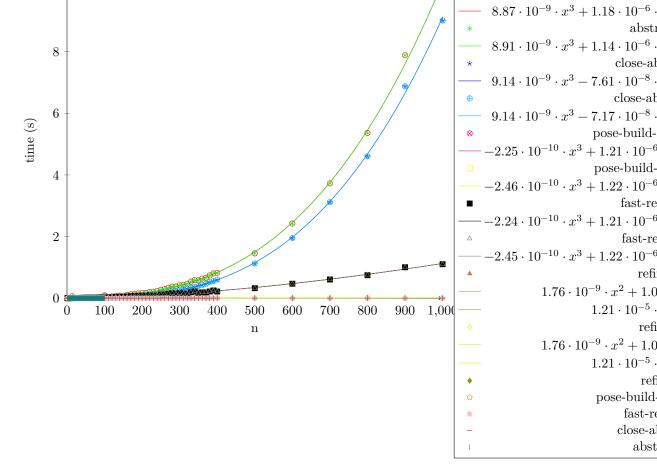


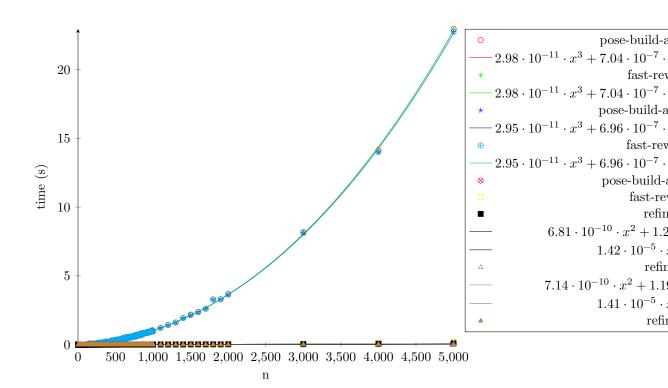
Figure 10: timing-rewrite-repeated-app-rewrite-strat



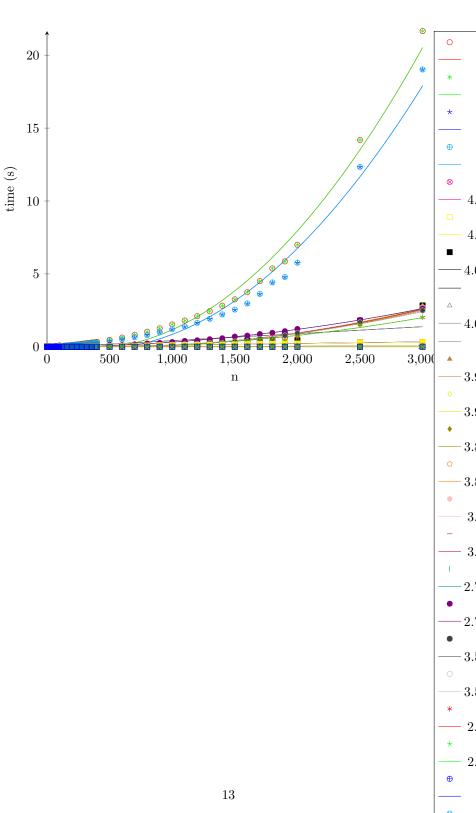
abst

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

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



 $2.9 \cdot 10^{-6} \cdot x^2 - 1.91 \cdot 10^{-3}$ $2.9 \cdot 10^{-6} \cdot x^2 - 1.91 \cdot 10^{-3}$ $2.62 \cdot 10^{-6} \cdot x^2 - 1.96 \cdot 10^{-6}$ $2.62 \cdot 10^{-6} \cdot x^2 - 1.96 \cdot 10^{-6}$ $4.1 \cdot 10^{-7} \cdot x^2 - 3.57 \cdot 10^{-4} \cdot x$ $4.1 \cdot 10^{-7} \cdot x^2 - 3.58 \cdot 10^{-4} \cdot x$ $4.05 \cdot 10^{-7} \cdot x^2 - 3.62 \cdot 10^{-4} \cdot x^2$ $4.05 \cdot 10^{-7} \cdot x^2 - 3.63 \cdot 10^{-4} \cdot x^2$ $3.95 \cdot 10^{-7} \cdot x^2 - 3.38 \cdot 10^{-4} \cdot x^2$ $3.95 \cdot 10^{-7} \cdot x^2 - 3.38 \cdot 10^{-4} \cdot x^2$ $3.85 \cdot 10^{-7} \cdot x^2 - 3.32 \cdot 10^{-4} \cdot x^2$ $3.85 \cdot 10^{-7} \cdot x^2 - 3.32 \cdot 10^{-4} \cdot x^2$ $3.89 \cdot 10^{-7} \cdot x^2 - 3.2 \cdot 10^{-4} \cdot x$ $3.89 \cdot 10^{-7} \cdot x^2 - 3.2 \cdot 10^{-4} \cdot x$ $2.77 \cdot 10^{-7} \cdot x^2 + 4.33 \cdot 10^{-5} \cdot x^2$ $2.77 \cdot 10^{-7} \cdot x^2 + 4.32 \cdot 10^{-5} \cdot x^2$ $3.52 \cdot 10^{-7} \cdot x^2 - 2.58 \cdot 10^{-4} \cdot x^2$ $3.52 \cdot 10^{-7} \cdot x^2 - 2.58 \cdot 10^{-4} \cdot x^2$ $2.8 \cdot 10^{-7} \cdot x^2 - 1.77 \cdot 10^{-4} \cdot x$ $2.8 \cdot 10^{-7} \cdot x^2 - 1.76 \cdot 10^{-4} \cdot x$

obools I secon

abstract-real

abstract-user

fast-rewrite-real

fast-rewrite-user

check-pf-cast-use

check-pf-cast-rea

refine-real

 $4.79 \cdot 10^{-4} \cdot x - 5.95 \cdot$ refine-user

 $4.79 \cdot 10^{-4} \cdot x - 5.95 \cdot$

type-admit-real

type-admit-user

type-admit-cast-us

type-admit-cast-re

check-admit-cast-u

check-admit-cast-r

close-abstract-rea

close-abstract-use

type-pf-cast-user

type-pf-cast-real

check-admit-user

check-admit-real

build-eval-thunk-re