

Figure 1: timing-pattern

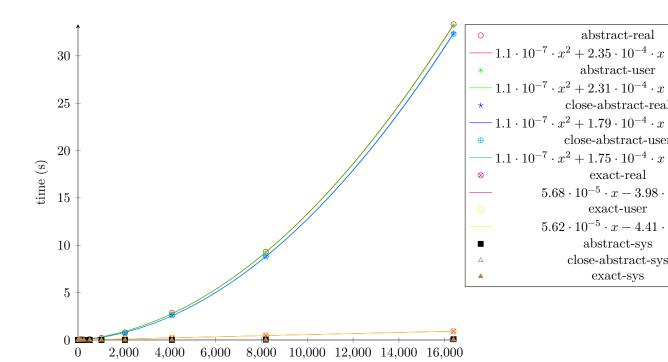


Figure 2: timing-n-polymorphic-universes param-1-n 0

-univ-count

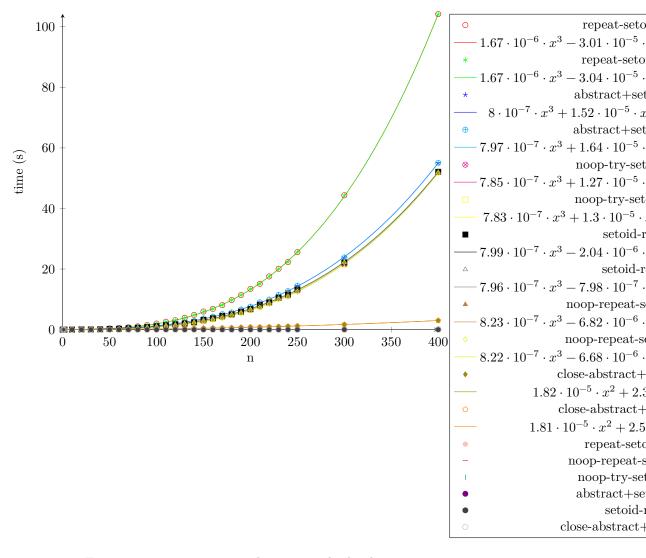


Figure 3: timing-repeat-setoid-rewrite-under-binders

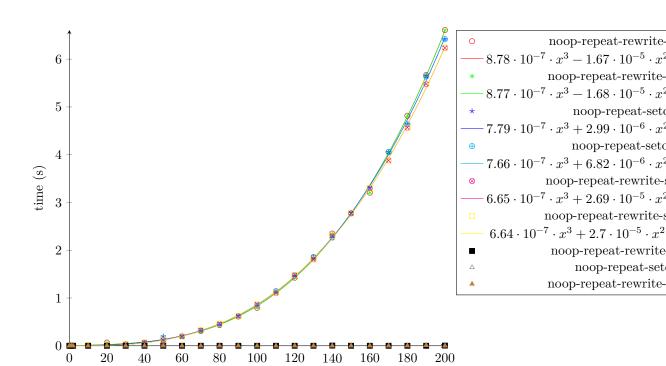


Figure 4: timing-repeat-setoid-rewrite-under-binders-noop

n

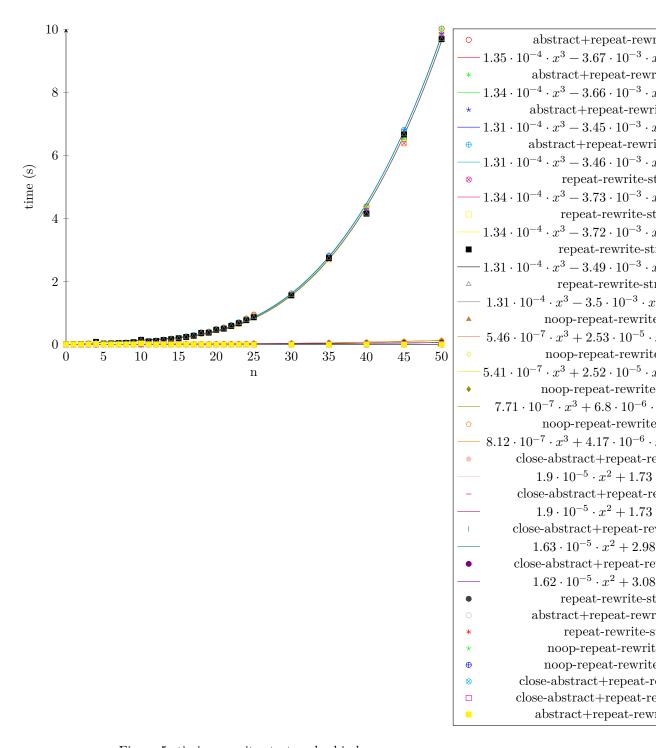


Figure 5: timing-rewrite-strat-under-binders

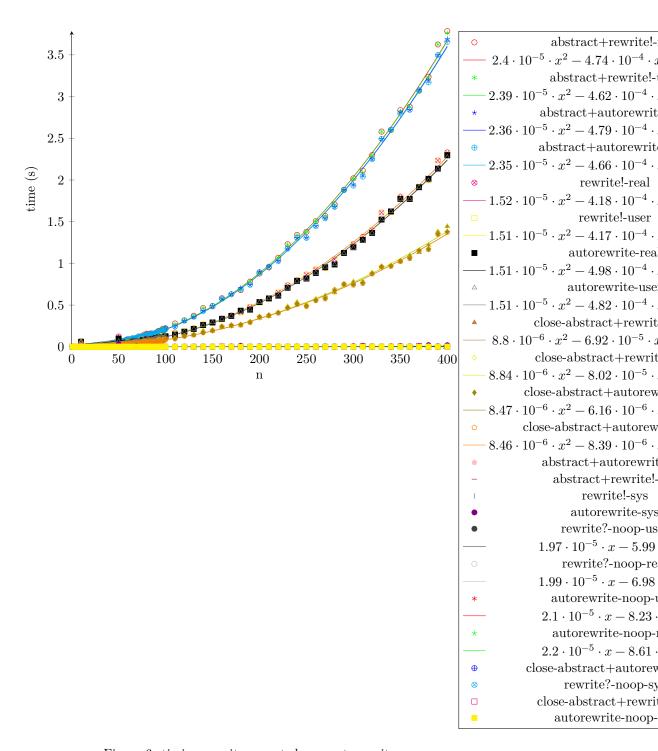


Figure 6: timing-rewrite-repeated-app-autorewrite

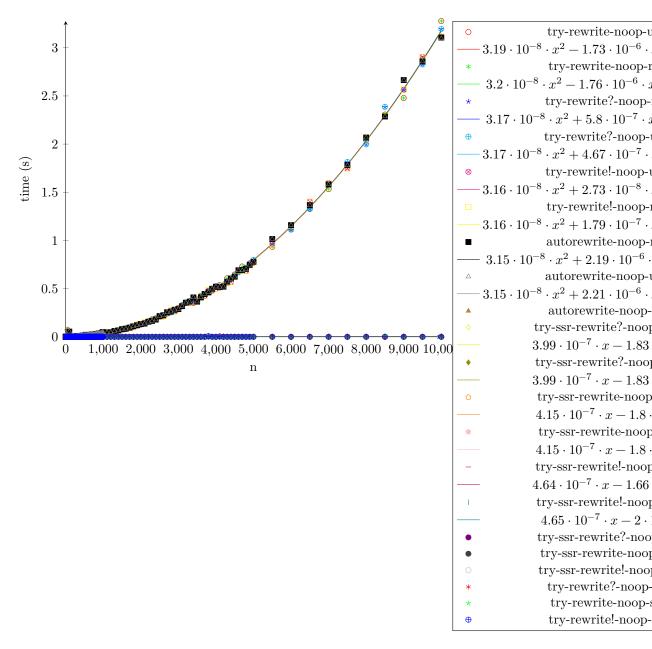


Figure 7: timing-rewrite-repeated-app-autorewrite-noop

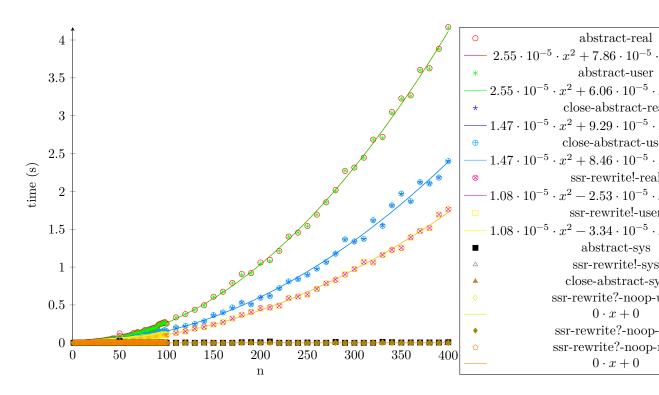


Figure 8: timing-rewrite-repeated-app-ssrrewrite

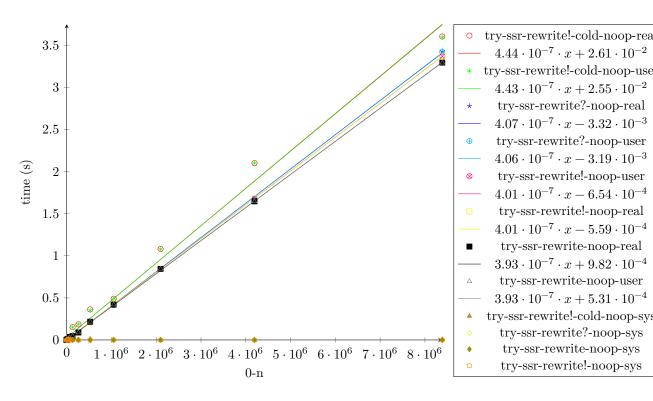


Figure 9: timing-rewrite-repeated-app-ssrrewrite-noop param-1-lgn $\ 1$

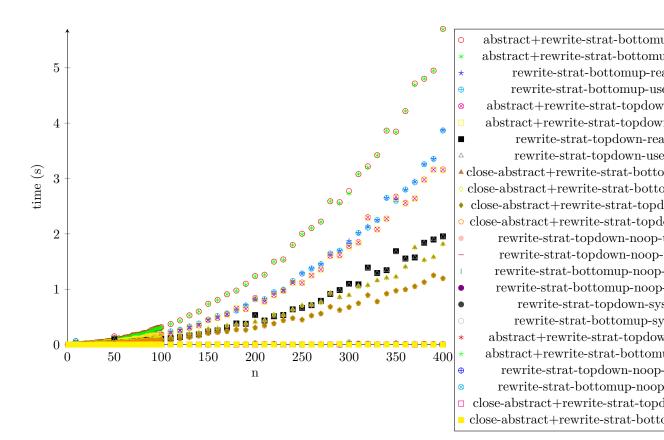


Figure 10: timing-rewrite-repeated-app-rewrite-strat

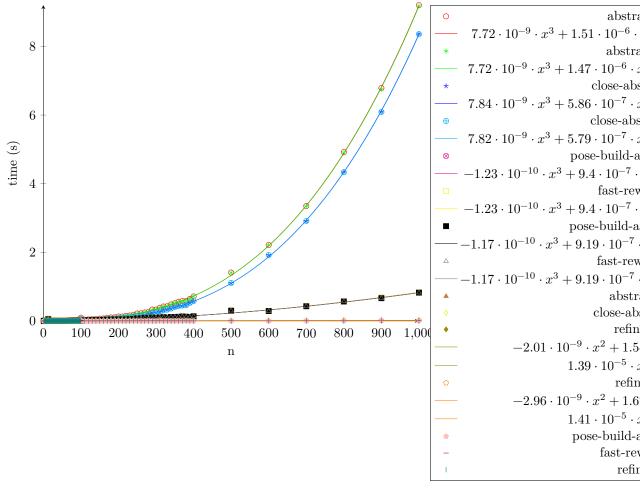
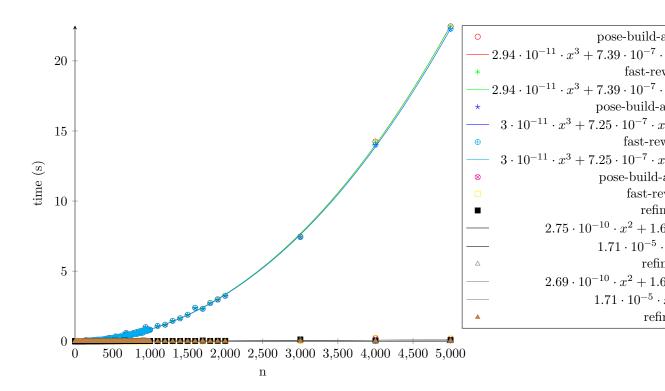
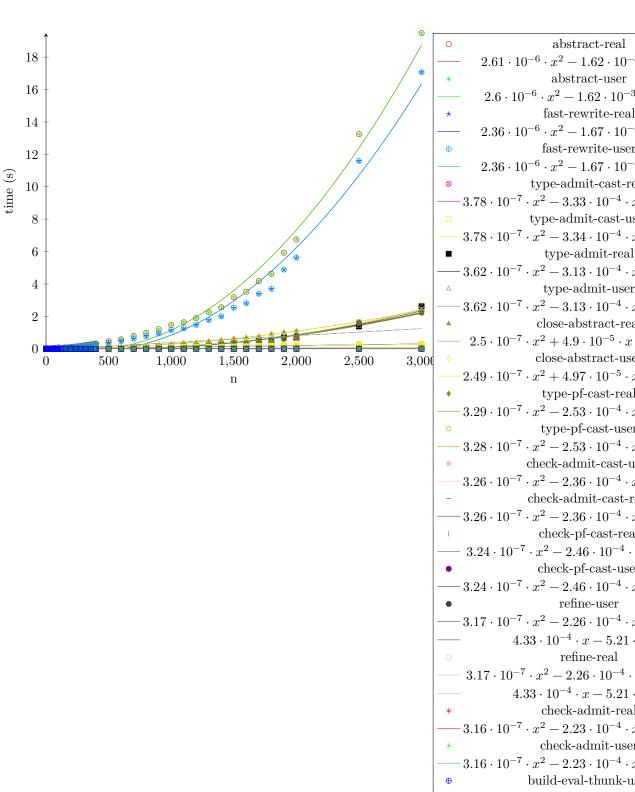


Figure 11: timing-rewrite-repeated-app-fast-rewrite



 ${\bf Figure~12:~timing\text{-}rewrite\text{-}repeated\text{-}app\text{-}fast\text{-}rewrite\text{-}no\text{-}abstract}}$



abstract-real

abstract-user

fast-rewrite-real

fast-rewrite-user

type-admit-cast-re

type-admit-cast-us

type-admit-real

type-admit-user

close-abstract-rea

close-abstract-use

type-pf-cast-real

type-pf-cast-user

check-admit-cast-u

check-admit-cast-r

check-pf-cast-rea

check-pf-cast-use

refine-user

 $4.33 \cdot 10^{-4} \cdot x - 5.21 \cdot$ refine-real

 $4.33 \cdot 10^{-4} \cdot x - 5.21 \cdot$ check-admit-real

check-admit-user

build-eval-thunk-u

 $1.01 \cdot 10^{-4} \cdot x - 6.35$ build-eval-thunk-re $1.01 \cdot 10^{-4} \cdot x - 4.13 \cdot$ build-thunk-user $9.98 \cdot 10^{-5} \cdot x - 7.16 \cdot$ build-thunk-real $1 \cdot 10^{-4} \cdot x - 5.03 \cdot 1$ abaal, I

 $2.61 \cdot 10^{-6} \cdot x^2 - 1.62 \cdot 10^{-3}$

 $2.6 \cdot 10^{-6} \cdot x^2 - 1.62 \cdot 10^{-3}$

 $2.36 \cdot 10^{-6} \cdot x^2 - 1.67 \cdot 10^{-6}$

 $2.36 \cdot 10^{-6} \cdot x^2 - 1.67 \cdot 10^{-6}$