

Figure 1: timing-pattern

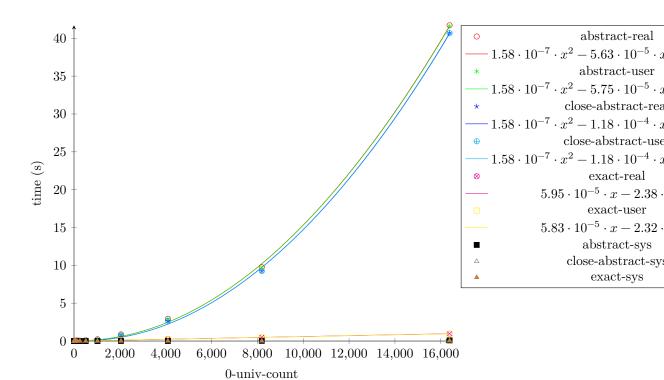


Figure 2: timing-n-polymorphic-universes param-1-n 0

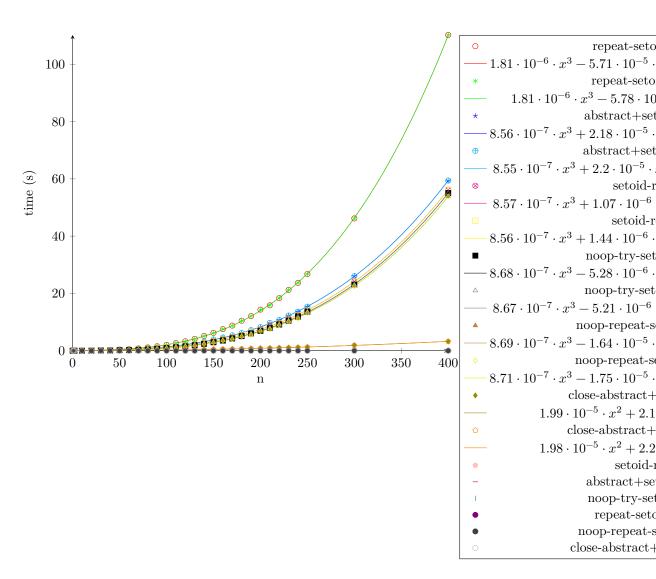


Figure 3: timing-repeat-setoid-rewrite-under-binders

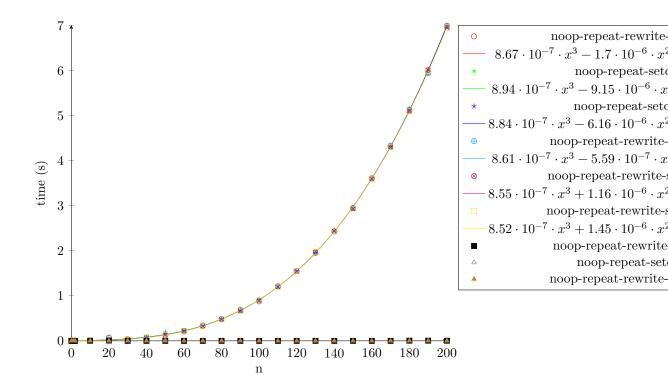


Figure 4: timing-repeat-setoid-rewrite-under-binders-noop

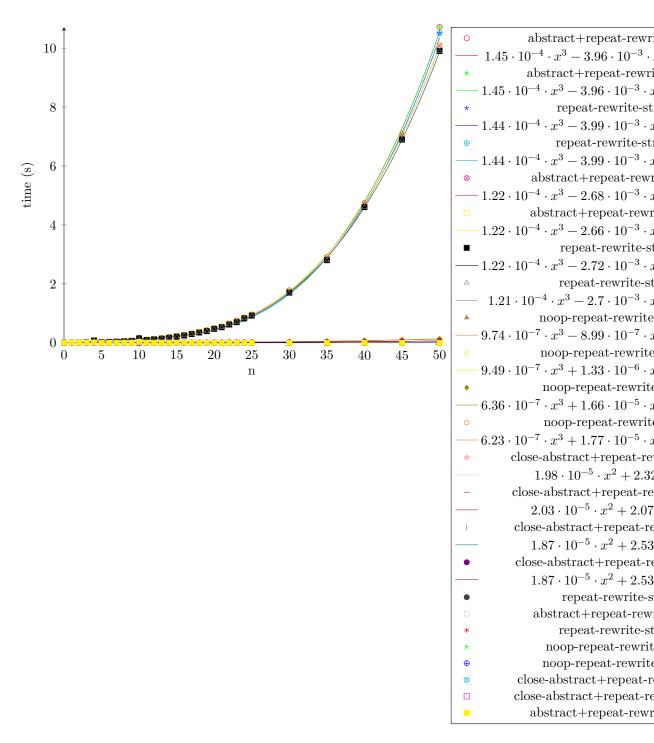
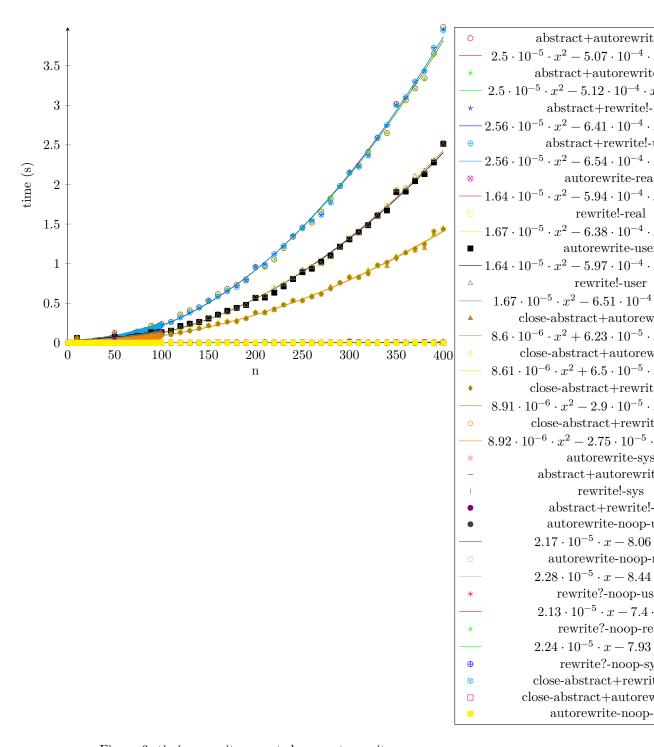


Figure 5: timing-rewrite-strat-under-binders



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

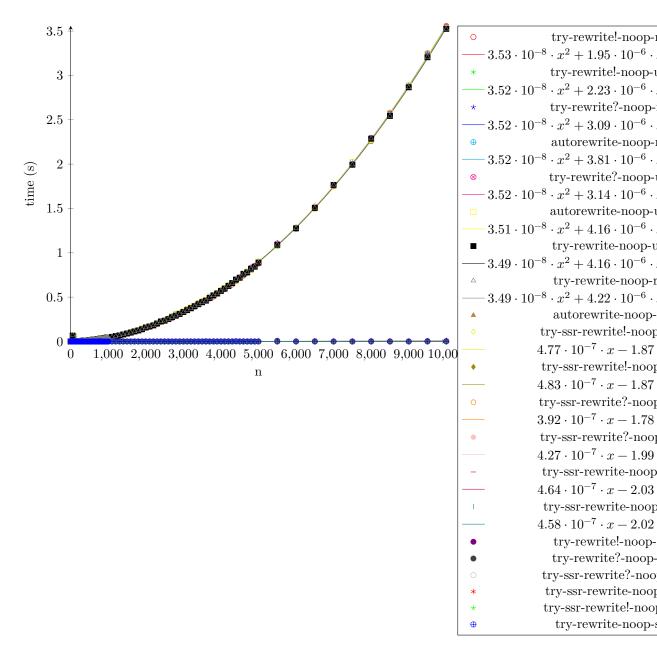


Figure 7: timing-rewrite-repeated-app-autorewrite-noop

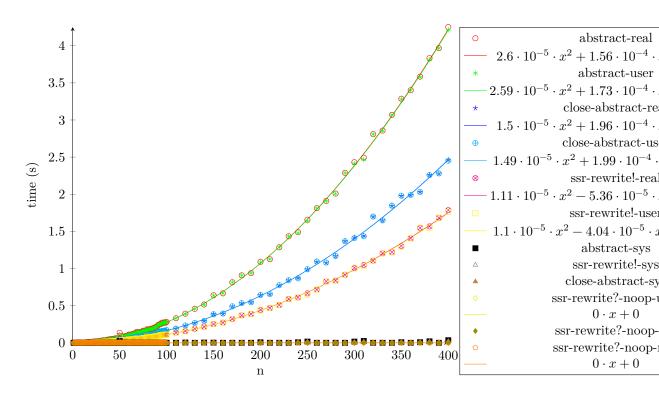


Figure 8: timing-rewrite-repeated-app-ssrrewrite

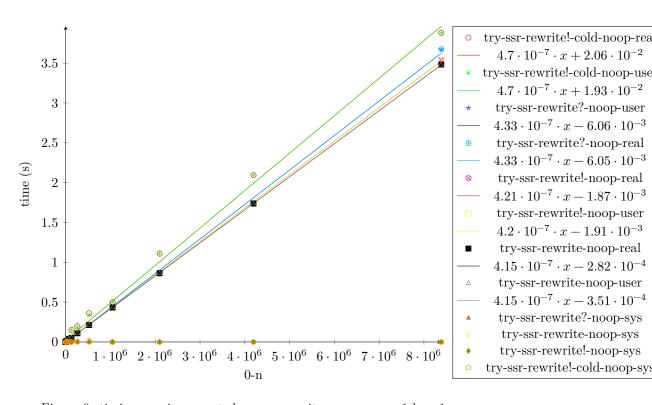


Figure 9: timing-rewrite-repeated-app-ssrrewrite-noop param-1-lgn $\ 1$

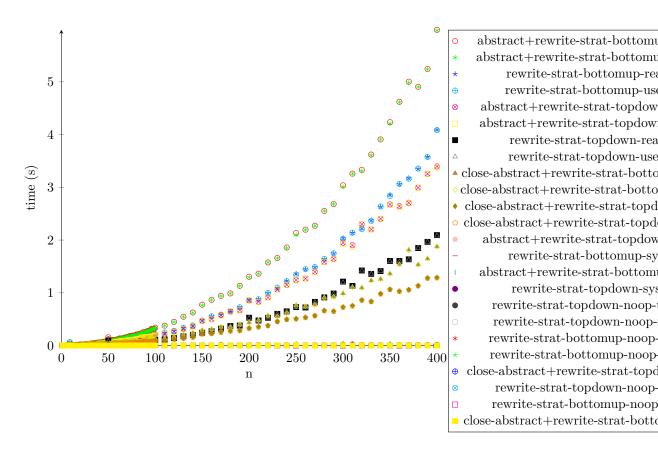


Figure 10: timing-rewrite-repeated-app-rewrite-strat

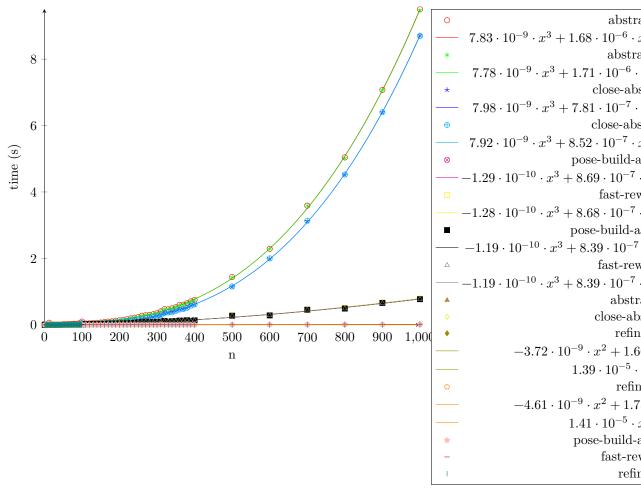
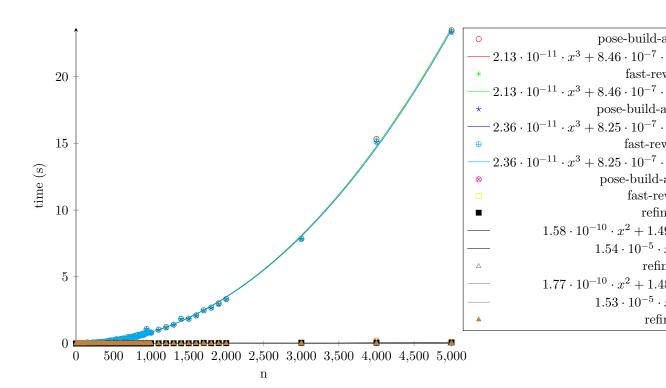
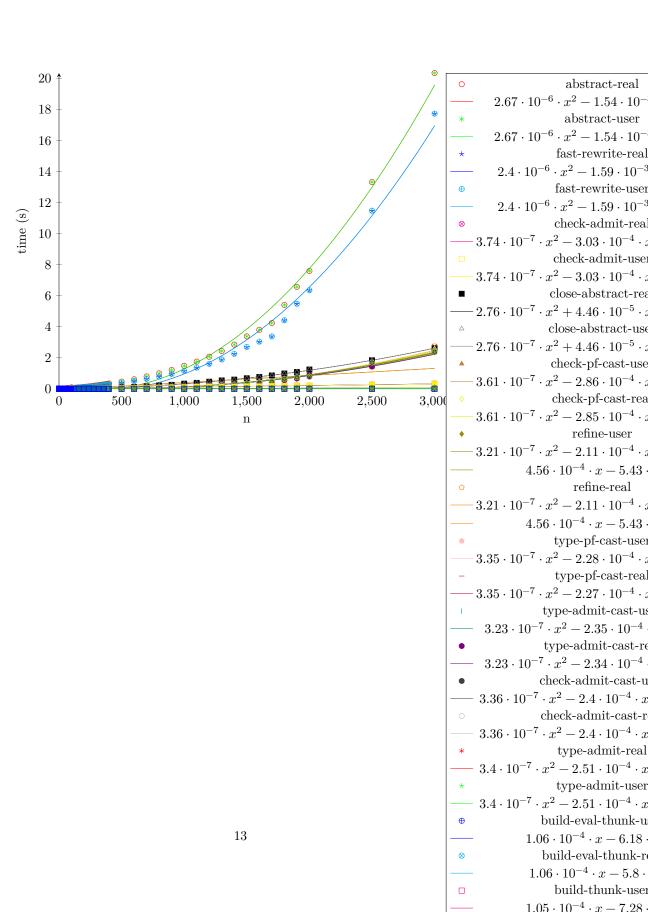


Figure 11: timing-rewrite-repeated-app-fast-rewrite



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



abstract-real

abstract-user

fast-rewrite-real

fast-rewrite-user

check-admit-real

check-admit-user

close-abstract-rea

close-abstract-use

check-pf-cast-use

check-pf-cast-rea

 $4.56 \cdot 10^{-4} \cdot x - 5.43 \cdot$ refine-real

 $4.56 \cdot 10^{-4} \cdot x - 5.43 \cdot$ type-pf-cast-user

type-pf-cast-real

type-admit-cast-us

type-admit-cast-re

check-admit-cast-u

check-admit-cast-r

type-admit-real

type-admit-user

build-eval-thunk-ua

 $1.06 \cdot 10^{-4} \cdot x - 6.18$ build-eval-thunk-re $1.06\cdot 10^{-4}\cdot x - 5.8\cdot$ build-thunk-user $1.05 \cdot 10^{-4} \cdot x - 7.28 \cdot$ build-thunk-real $1.05 \cdot 10^{-4} \cdot x - 6.93 \cdot$

refine-user