

Figure 1: timing-pattern

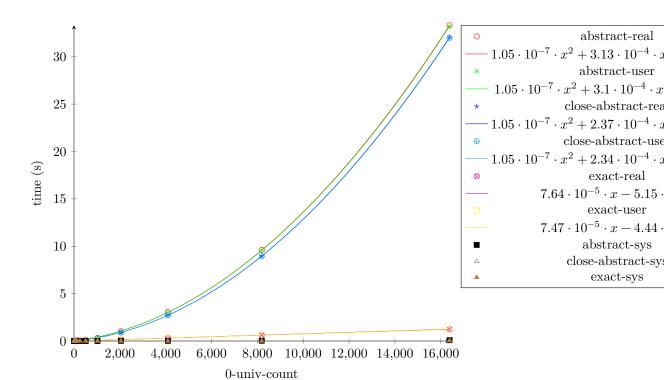


Figure 2: timing-n-polymorphic-universes param-1-n 0

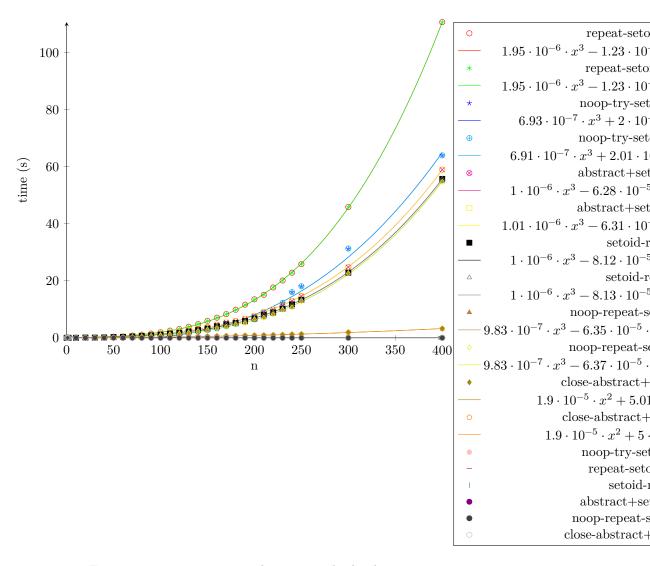


Figure 3: timing-repeat-setoid-rewrite-under-binders

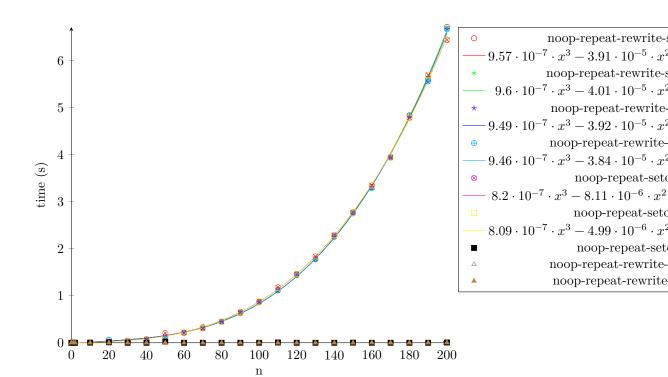


Figure 4: timing-repeat-setoid-rewrite-under-binders-noop

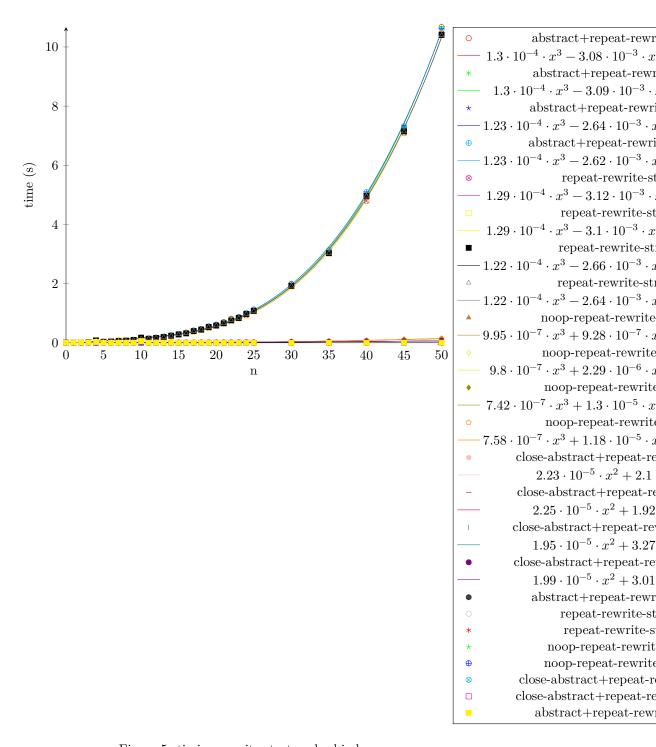


Figure 5: timing-rewrite-strat-under-binders

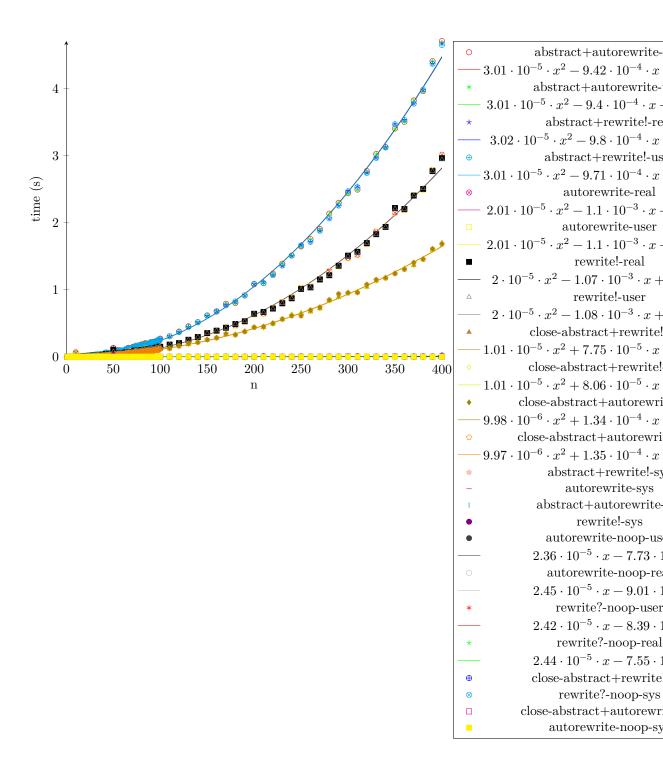


Figure 6: timing-rewrite-repeated-app-autorewrite

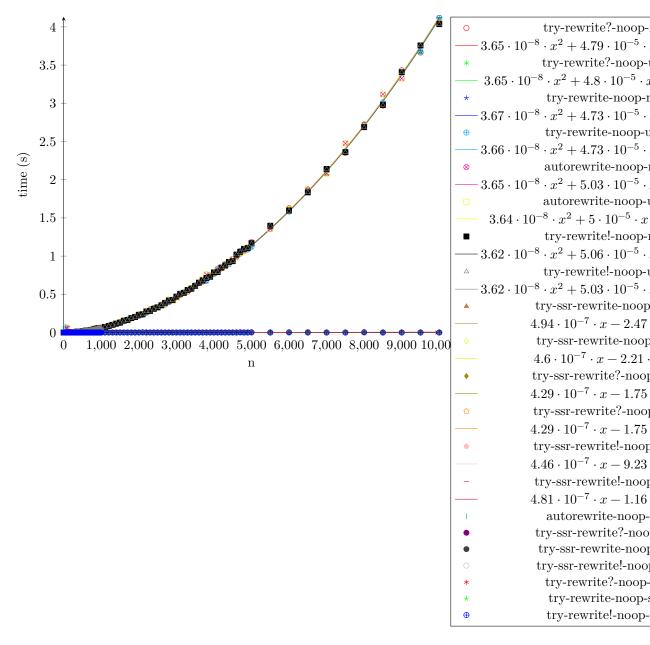
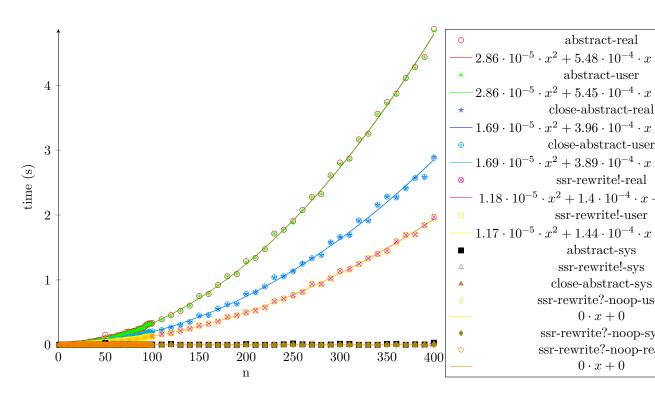


Figure 7: timing-rewrite-repeated-app-autorewrite-noop



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

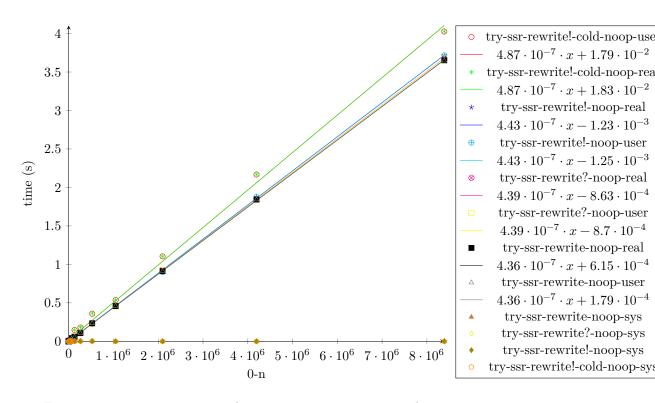


Figure 9: timing-rewrite-repeated-app-ssrrewrite-noop param-1-lgn  $\,1\,$ 

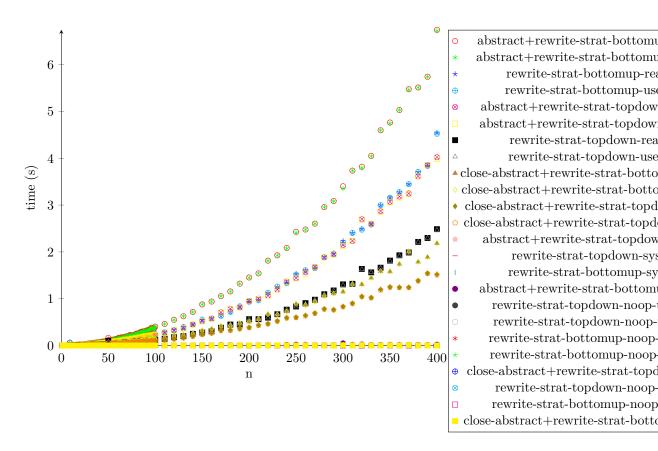
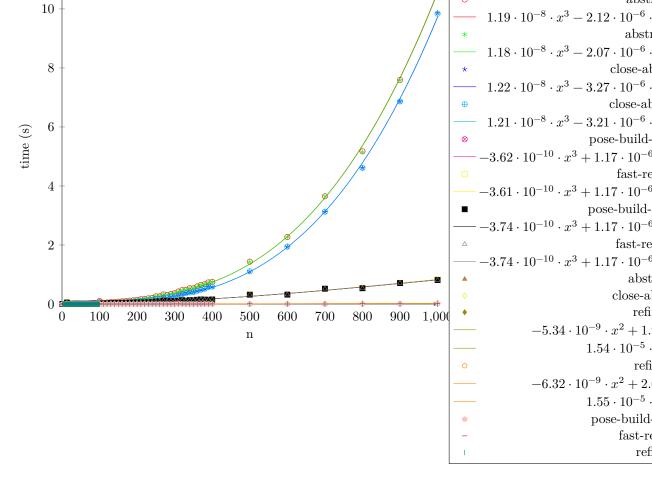
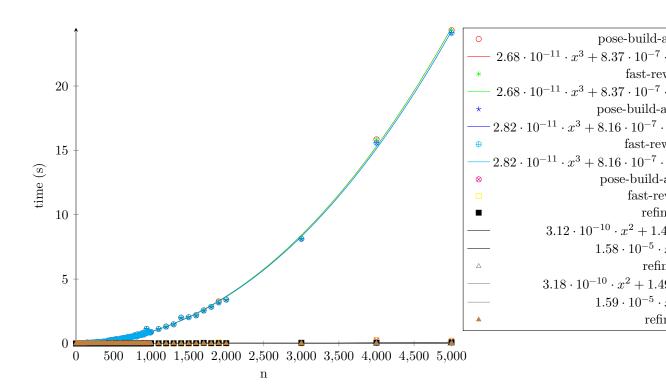


Figure 10: timing-rewrite-repeated-app-rewrite-strat

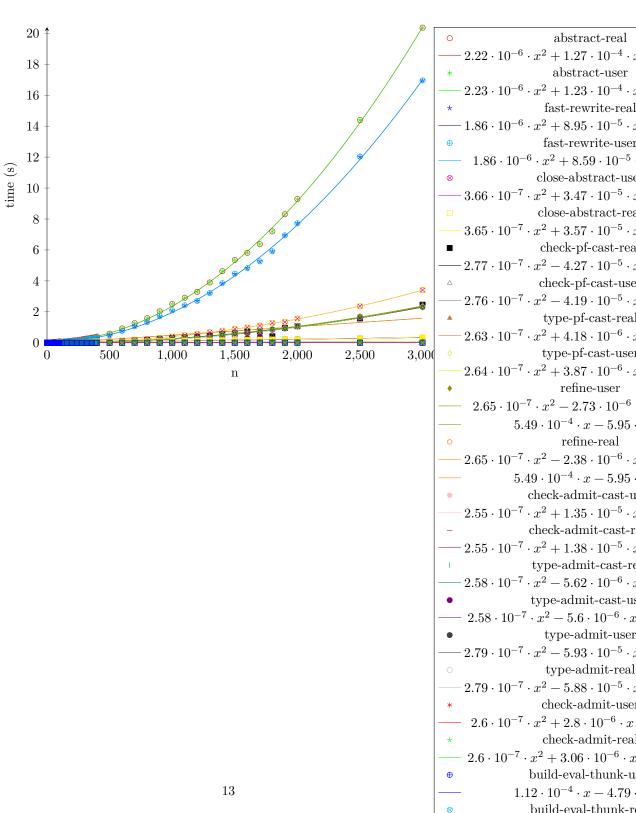


abst

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

close-abstract-use

close-abstract-rea

check-pf-cast-rea

check-pf-cast-use

type-pf-cast-real

type-pf-cast-user

refine-user

 $5.49 \cdot 10^{-4} \cdot x - 5.95 \cdot$ refine-real

 $5.49 \cdot 10^{-4} \cdot x - 5.95 \cdot$ check-admit-cast-u

check-admit-cast-r

type-admit-cast-re

type-admit-cast-us

type-admit-user

type-admit-real

check-admit-user

check-admit-real

build-eval-thunk-u

 $1.12 \cdot 10^{-4} \cdot x - 4.79 \cdot$ build-eval-thunk-re  $1.13 \cdot 10^{-4} \cdot x - 2.75 \cdot$ build-thunk-user  $1.12 \cdot 10^{-4} \cdot x - 5.7$ build-thunk-real  $1.12 \cdot 10^{-4} \cdot x - 3.76 \cdot$ obools I secon