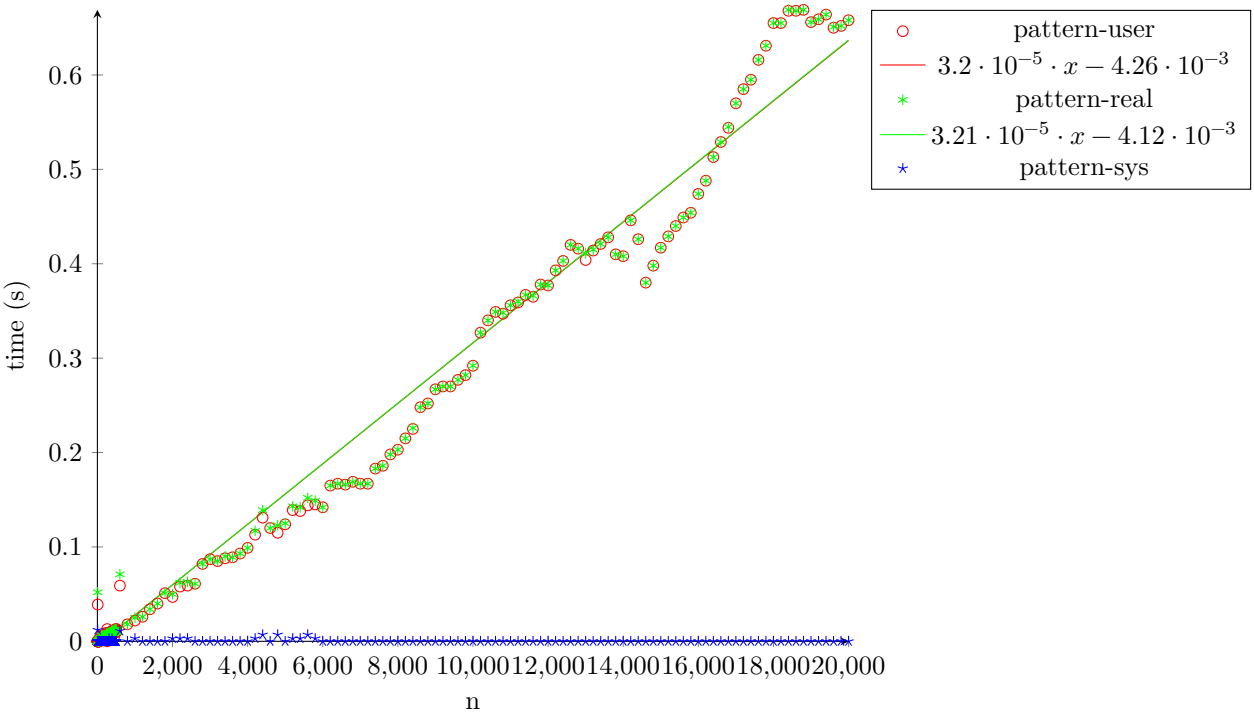


Figure 1: timing-pattern

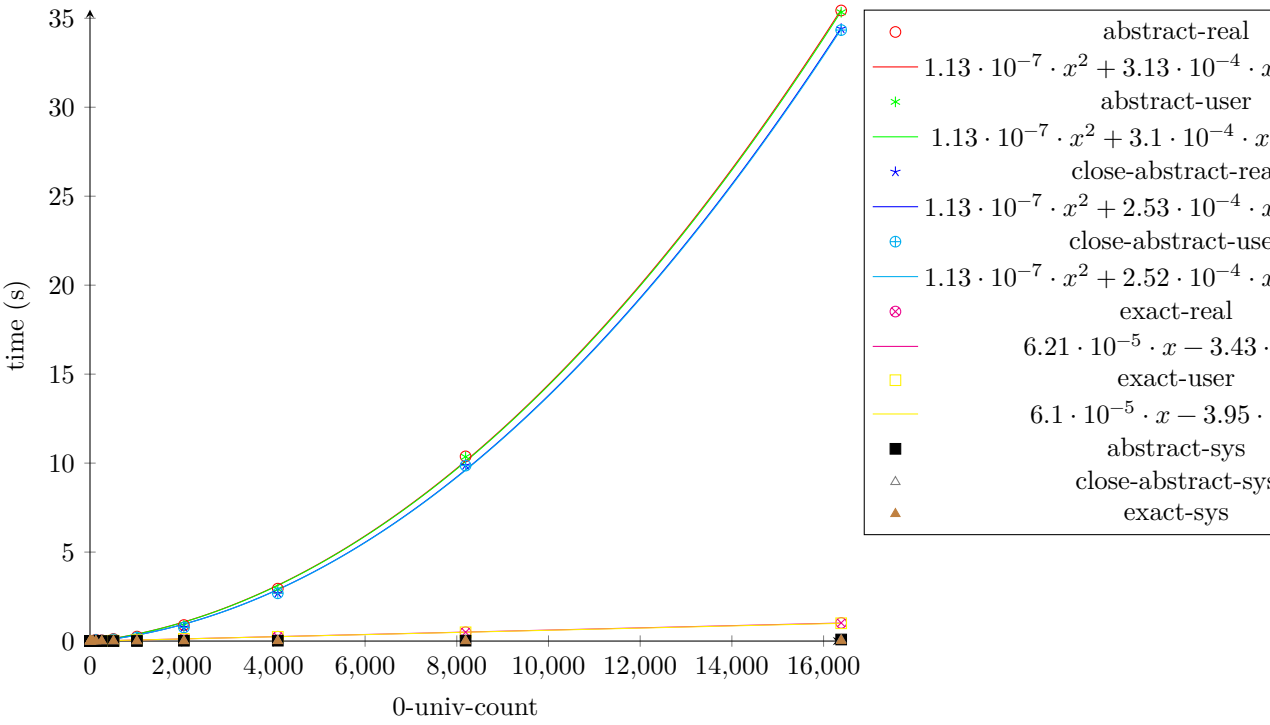


Figure 2: timing-n-polymorphic-universes param-1-n 0

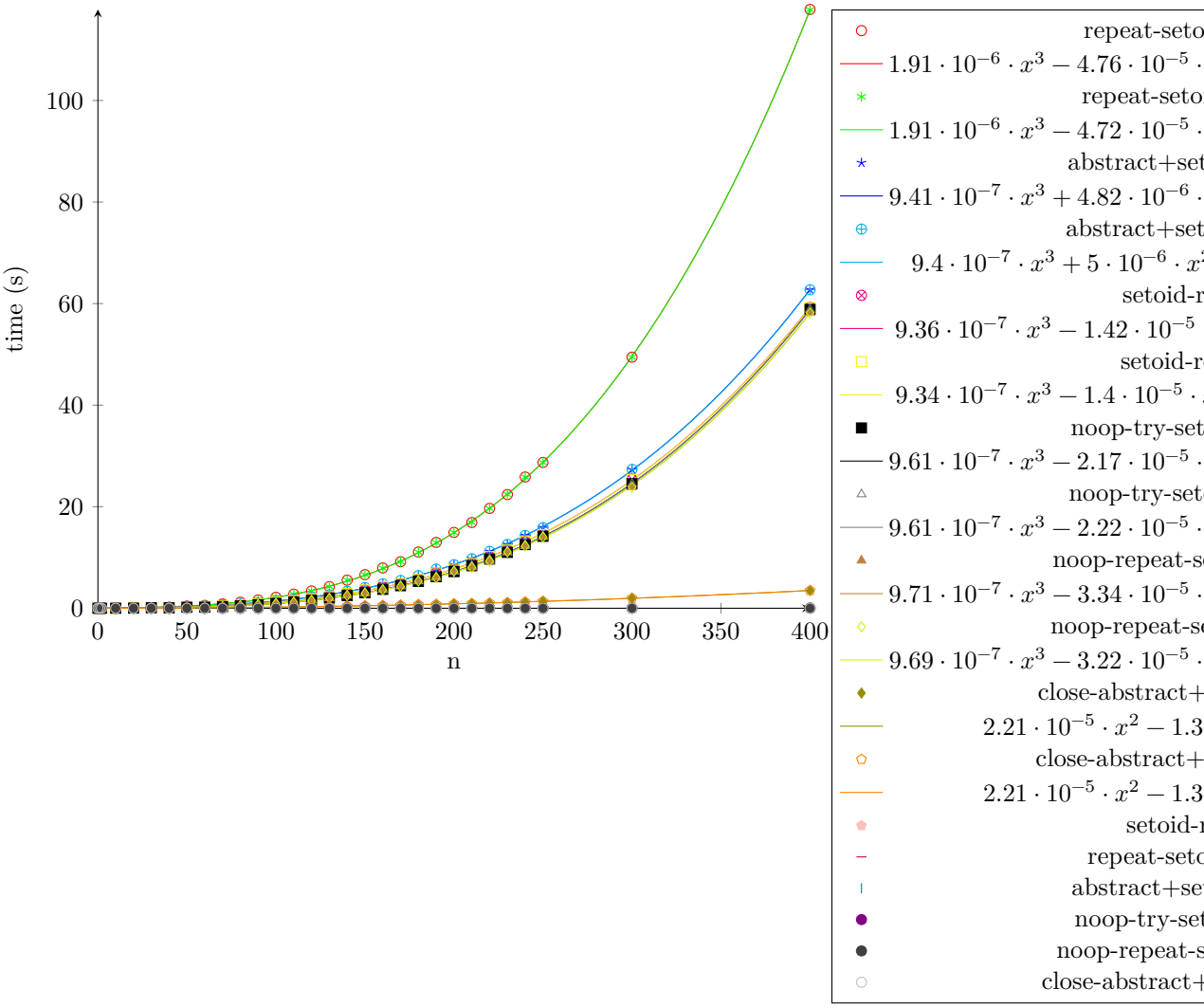


Figure 3: timing-repeat-setoid-rewrite-under-binders

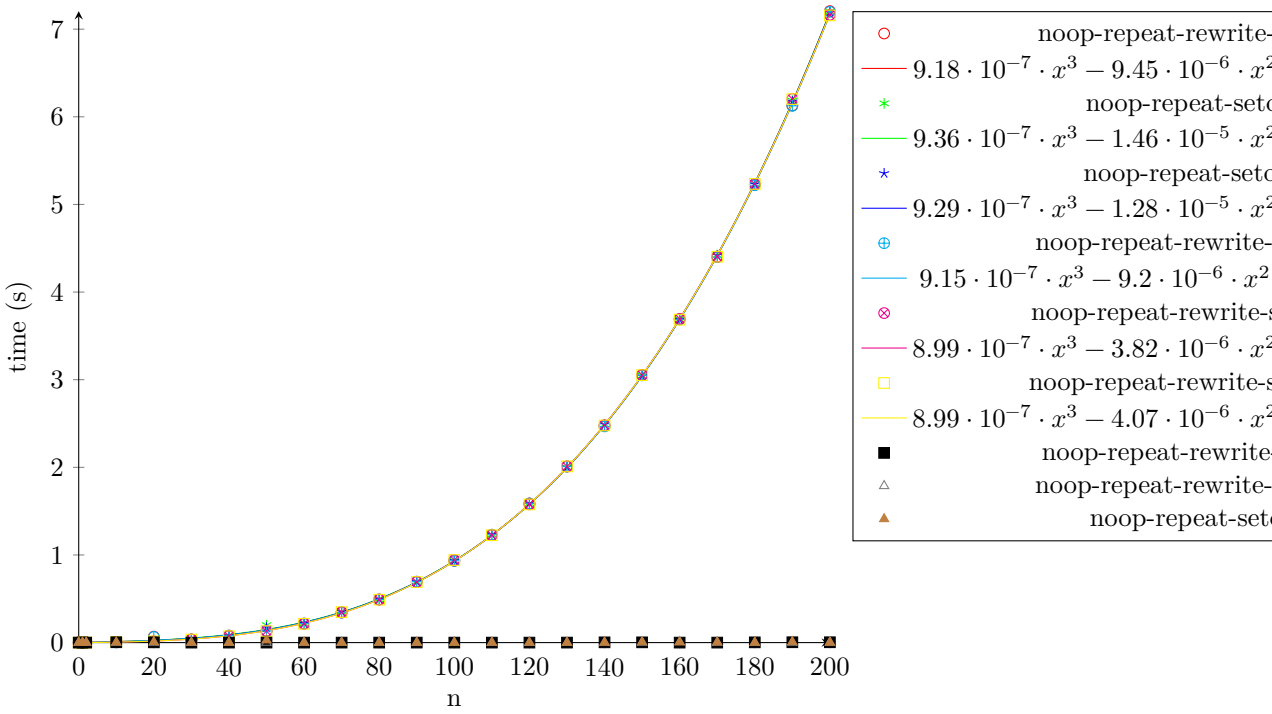


Figure 4: timing-repeat-setoid-rewrite-under-binders-noop

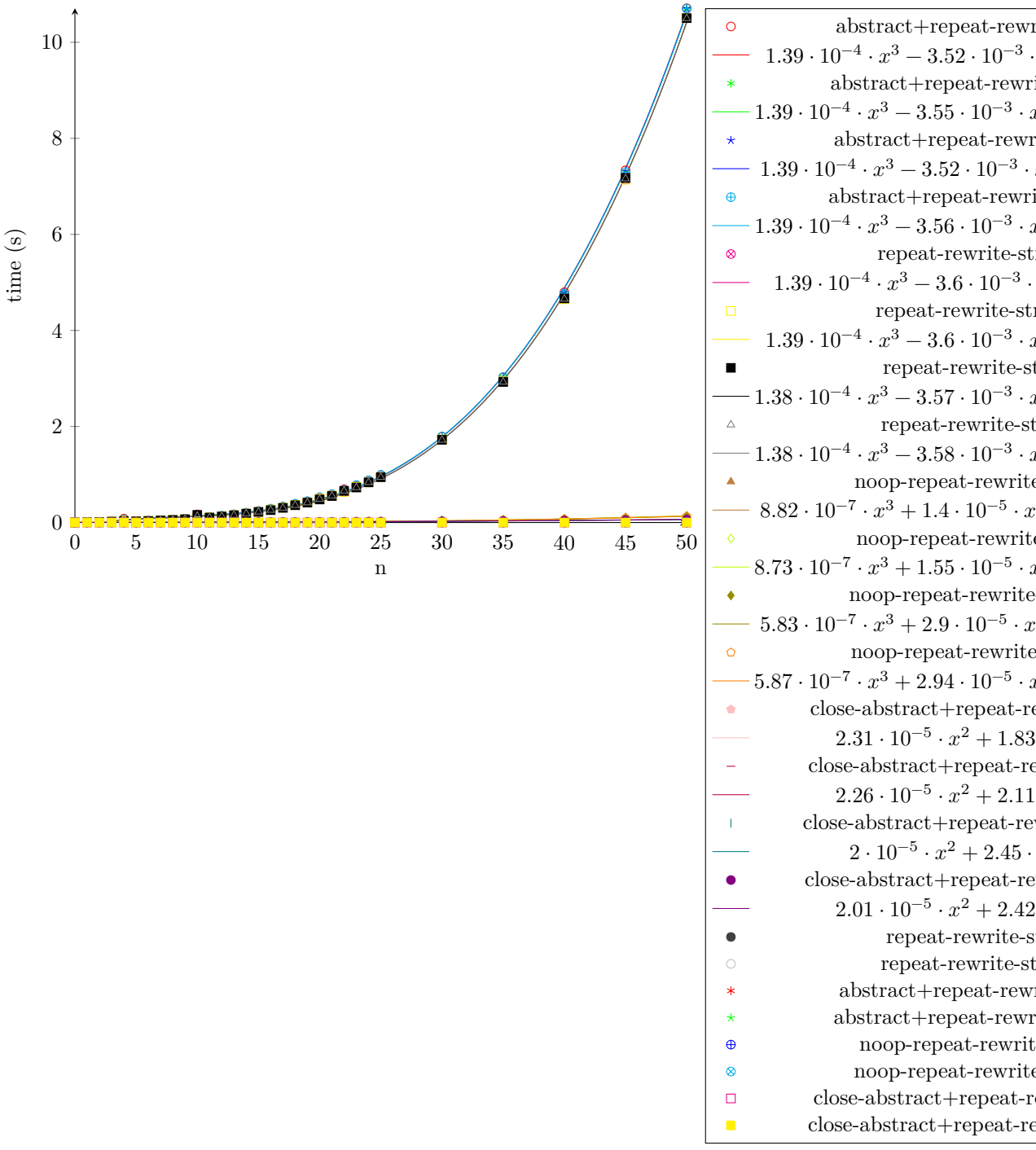


Figure 5: timing-rewrite-strat-under-binders

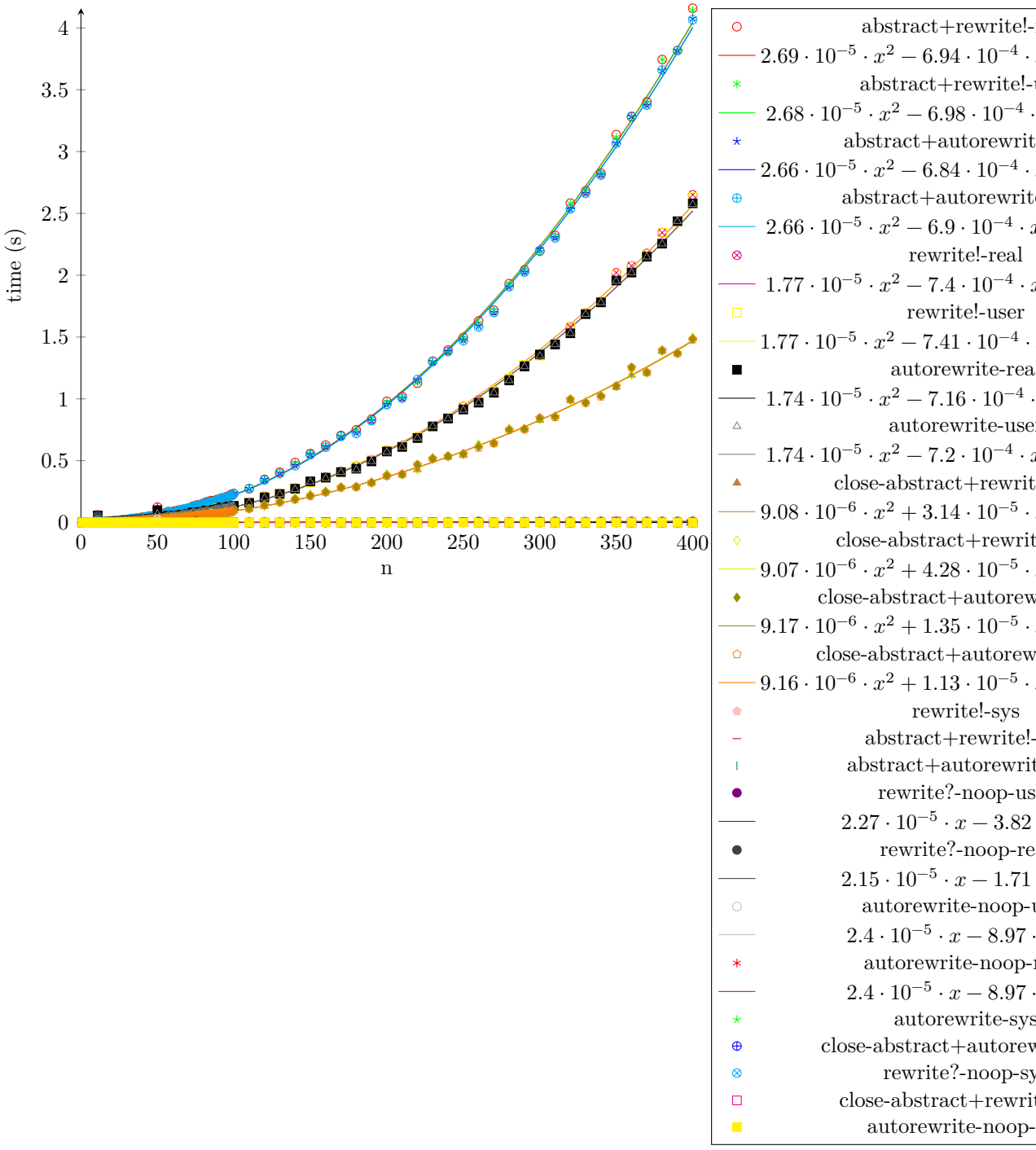


Figure 6: timing-rewrite-repeated-app-autorewrite

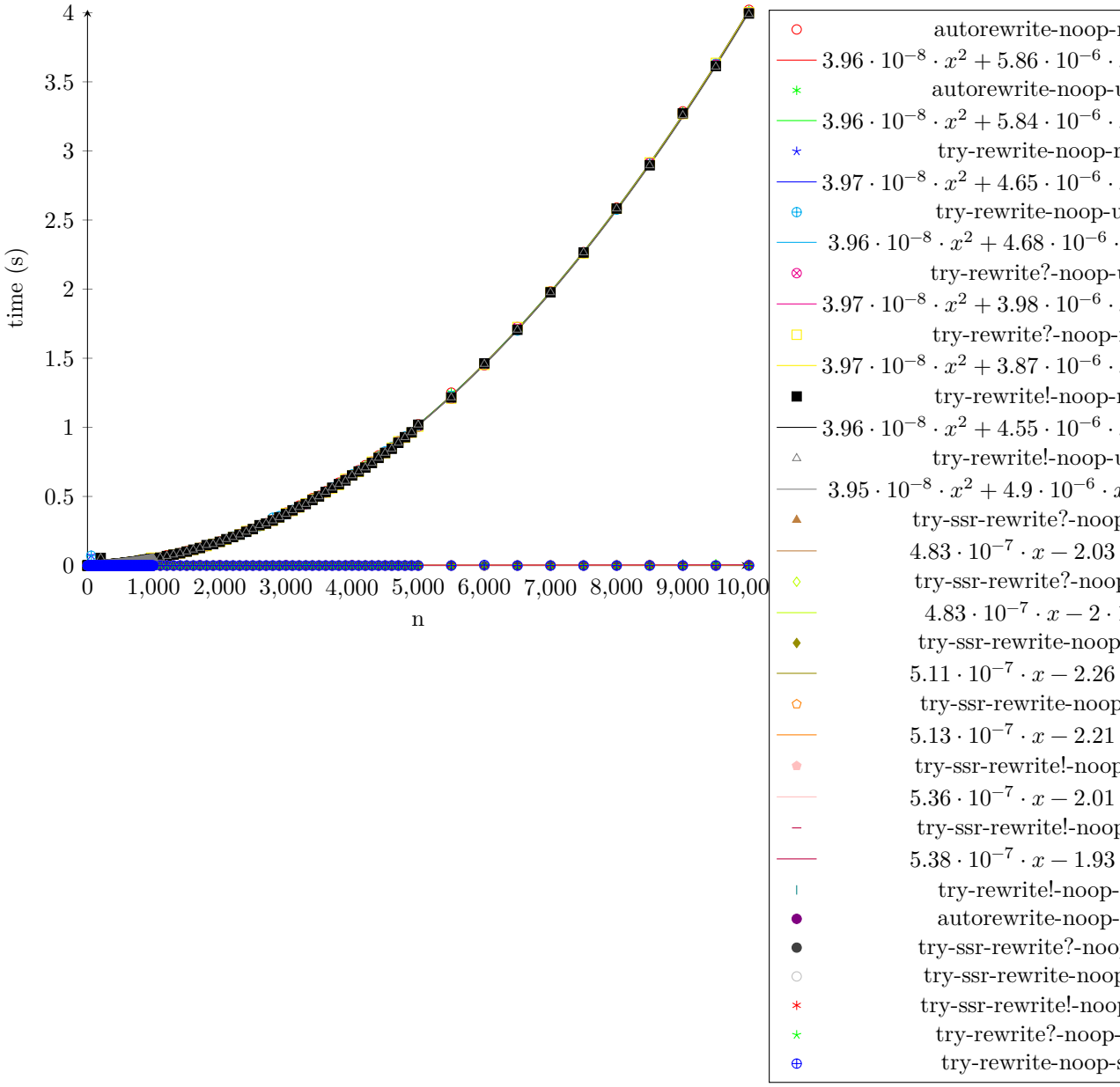


Figure 7: timing-rewrite-repeated-app-autorewrite-noop

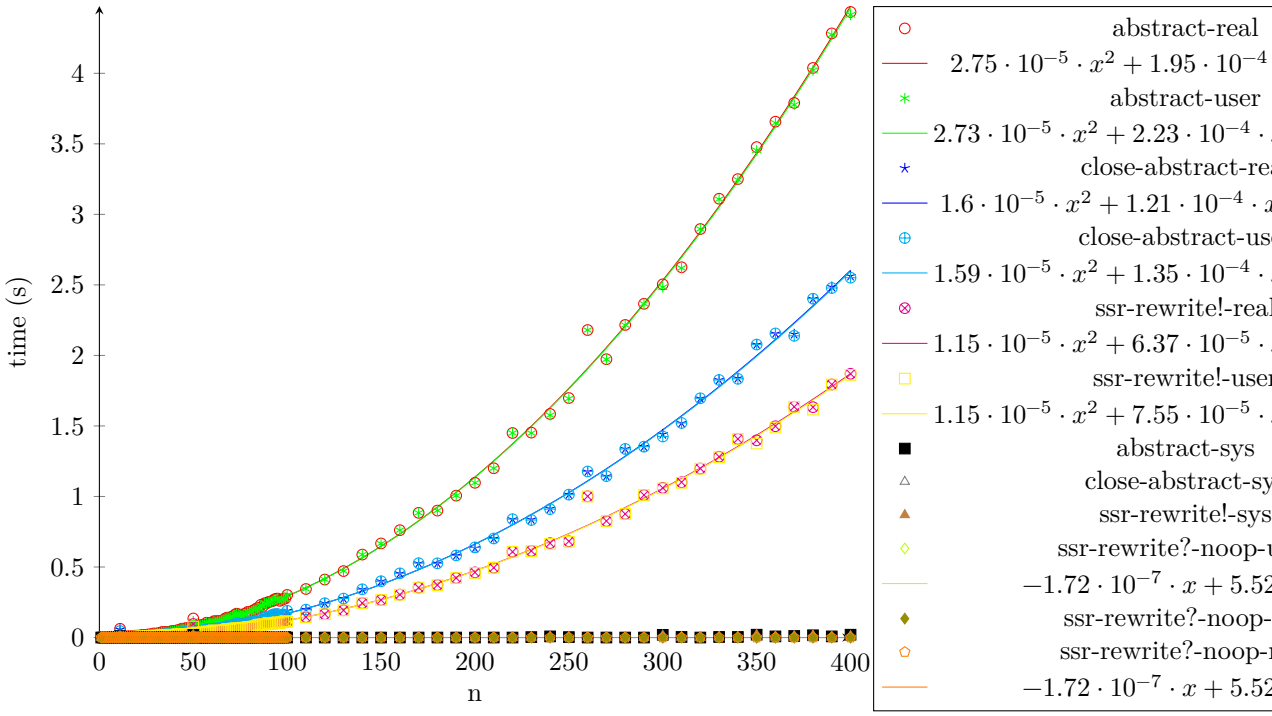


Figure 8: timing-rewrite-repeated-app-ssrrewrite

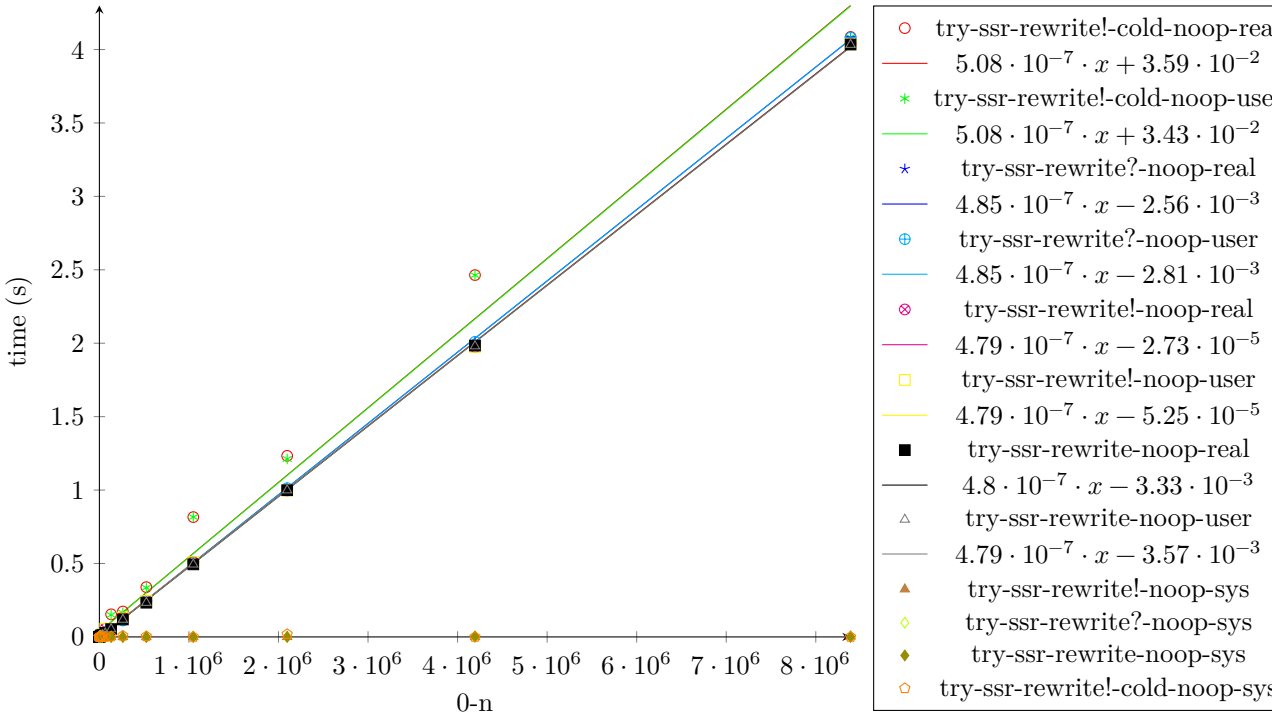


Figure 9: timing-rewrite-repeated-app-ssrrewrite-noop param-1-lgn 1

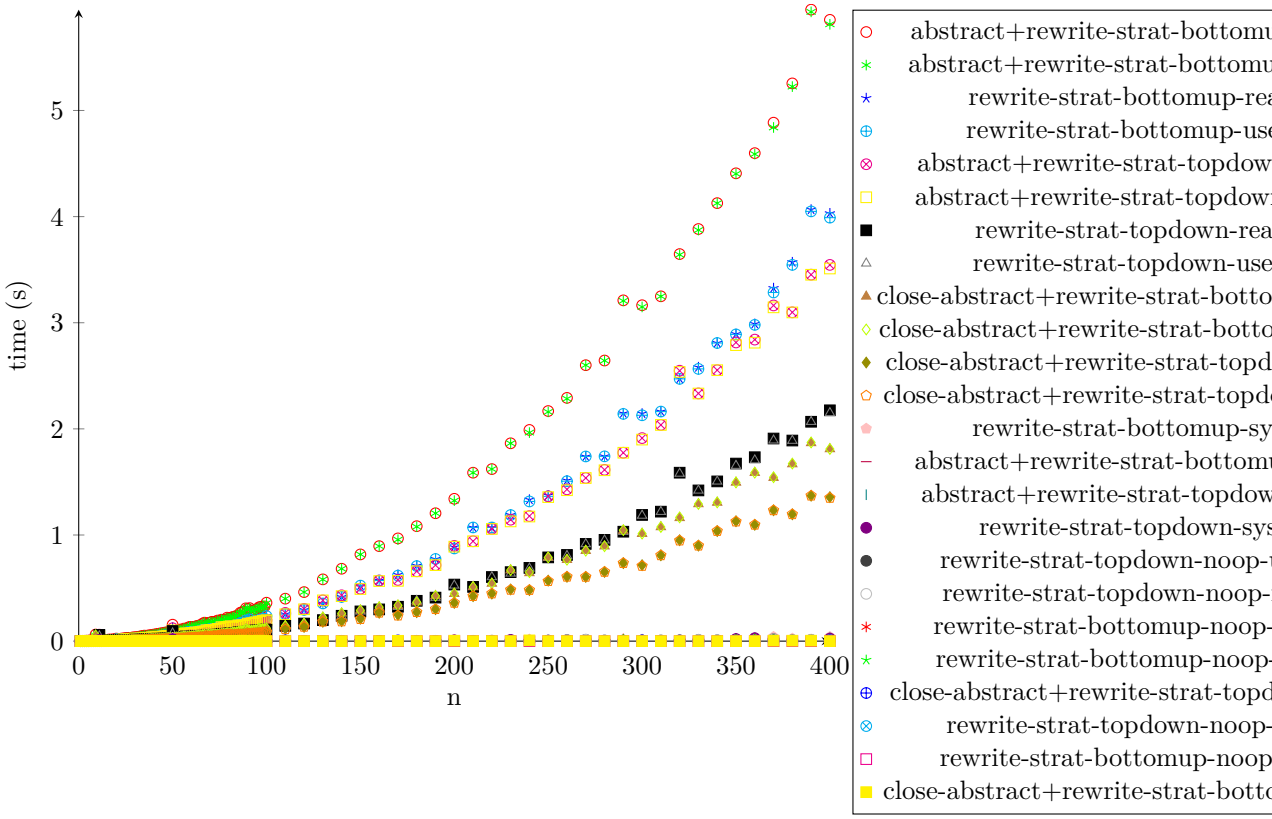


Figure 10: timing-rewrite-repeated-app-rewrite-strat

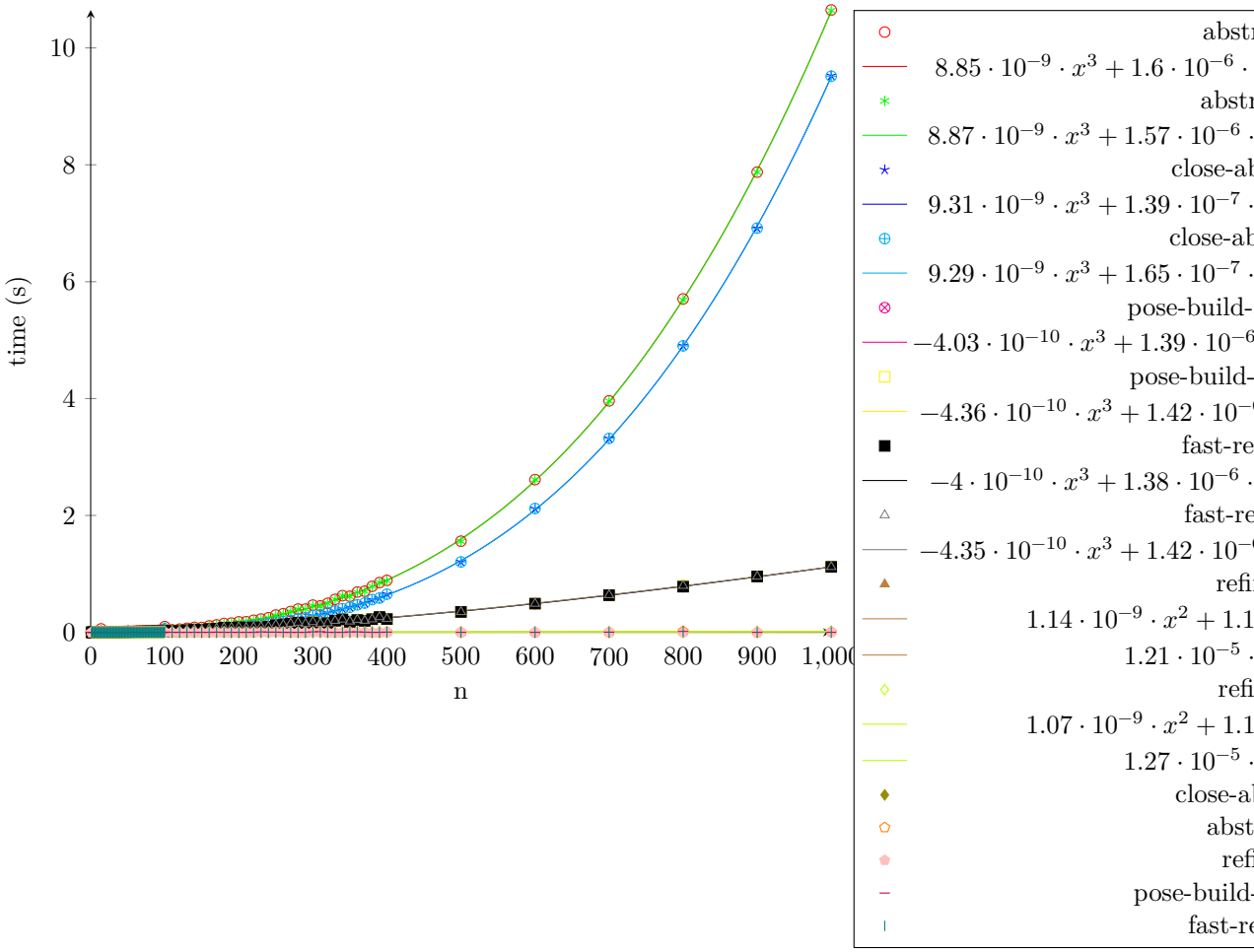


Figure 11: timing-rewrite-repeated-app-fast-rewrite

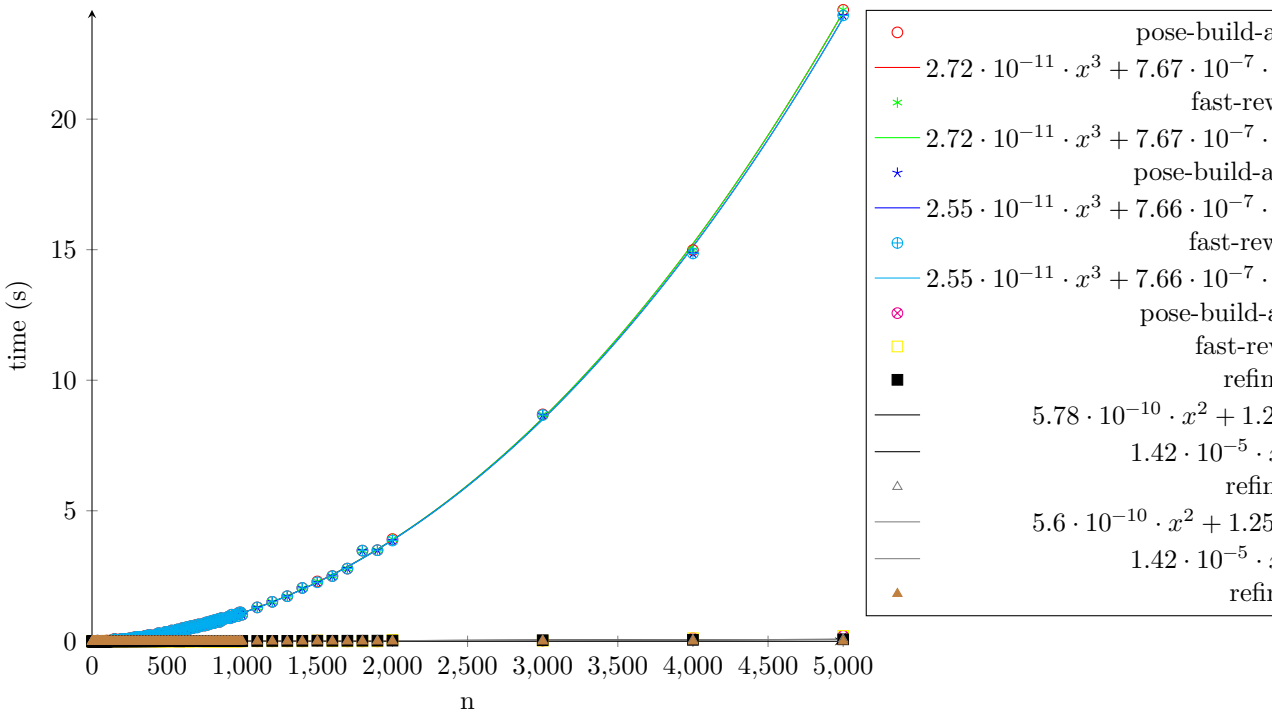
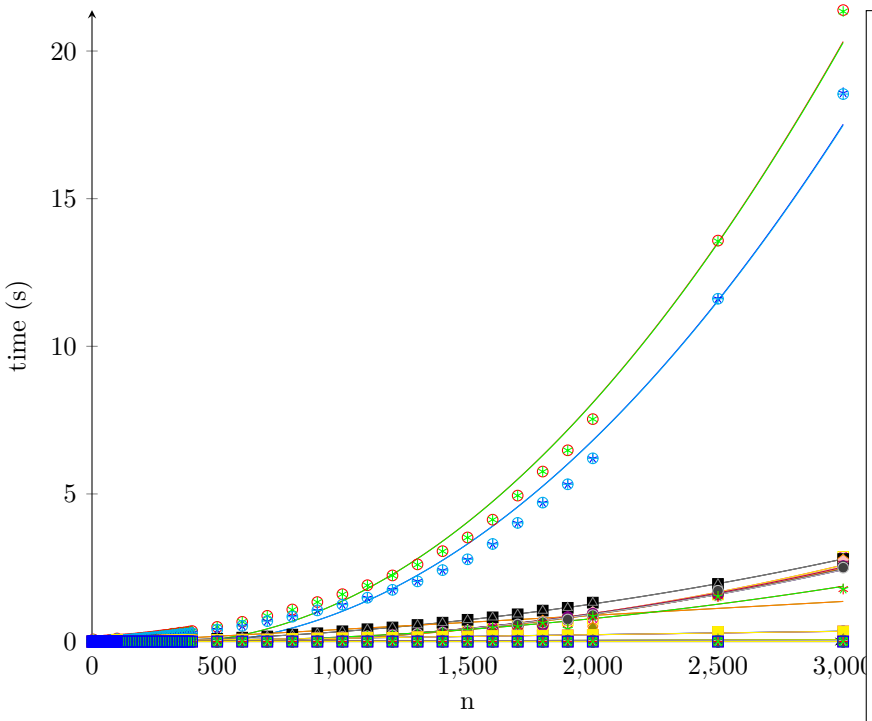


Figure 12: timing-rewrite-repeated-app-fast-rewrite-no-abstract


time (s)
n
0
5
10
15
20
0
500
1,000
1,500
2,000
2,500
3,000

abstract-real
$2.75 \cdot 10^{-6} \cdot x^2 - 1.53 \cdot 10^{-3}$
abstract-user
$2.75 \cdot 10^{-6} \cdot x^2 - 1.53 \cdot 10^{-3}$
fast-rewrite-real
$2.46 \cdot 10^{-6} \cdot x^2 - 1.58 \cdot 10^{-3}$
fast-rewrite-user
$2.45 \cdot 10^{-6} \cdot x^2 - 1.58 \cdot 10^{-3}$
type-admit-real
$3.94 \cdot 10^{-7} \cdot x^2 - 3.25 \cdot 10^{-4} \cdot x$
type-admit-user
$3.94 \cdot 10^{-7} \cdot x^2 - 3.25 \cdot 10^{-4} \cdot x$
close-abstract-rea
$2.95 \cdot 10^{-7} \cdot x^2 + 4.86 \cdot 10^{-5} \cdot x$
close-abstract-use
$2.95 \cdot 10^{-7} \cdot x^2 + 4.76 \cdot 10^{-5} \cdot x$
check-pf-cast-rea
$3.74 \cdot 10^{-7} \cdot x^2 - 2.87 \cdot 10^{-4} \cdot x$
check-pf-cast-use
$3.74 \cdot 10^{-7} \cdot x^2 - 2.87 \cdot 10^{-4} \cdot$
refine-user
$3.74 \cdot 10^{-7} \cdot x^2 - 3.05 \cdot 10^{-4} \cdot x$
$4.72 \cdot 10^{-4} \cdot x - 5.72 \cdot$
refine-real
$3.74 \cdot 10^{-7} \cdot x^2 - 3.05 \cdot 10^{-4} \cdot x$
$4.72 \cdot 10^{-4} \cdot x - 5.72 \cdot$
type-pf-cast-real
$3.69 \cdot 10^{-7} \cdot x^2 - 2.72 \cdot 10^{-4} \cdot x$
type-pf-cast-user
$3.68 \cdot 10^{-7} \cdot x^2 - 2.7 \cdot 10^{-4} \cdot x$
type-admit-cast-re
$3.5 \cdot 10^{-7} \cdot x^2 - 2.44 \cdot 10^{-4} \cdot x$
type-admit-cast-us
$3.49 \cdot 10^{-7} \cdot x^2 - 2.44 \cdot 10^{-4} \cdot x$
check-admit-cast-re
$3.56 \cdot 10^{-7} \cdot x^2 - 2.57 \cdot 10^{-4} \cdot x$
check-admit-cast-u
$3.52 \cdot 10^{-7} \cdot x^2 - 2.51 \cdot 10^{-4} \cdot x$
check-admit-user
$2.37 \cdot 10^{-7} \cdot x^2 - 8.81 \cdot 10^{-5} \cdot x$
check-admit-real
$2.37 \cdot 10^{-7} \cdot x^2 - 8.8 \cdot 10^{-5} \cdot x$
build-eval-thunk-us
$1.17 \cdot 10^{-4} \cdot x - 9.3 \cdot$
build-eval-thunk-re
$1.18 \cdot 10^{-4} \cdot x - 7.14 \cdot$
build-thunk-user
$1.16 \cdot 10^{-4} \cdot x - 1.02 \cdot$
build-thunk-real
$1.17 \cdot 10^{-4} \cdot x - 7.66 \cdot$