

Figure 1: timing-pattern

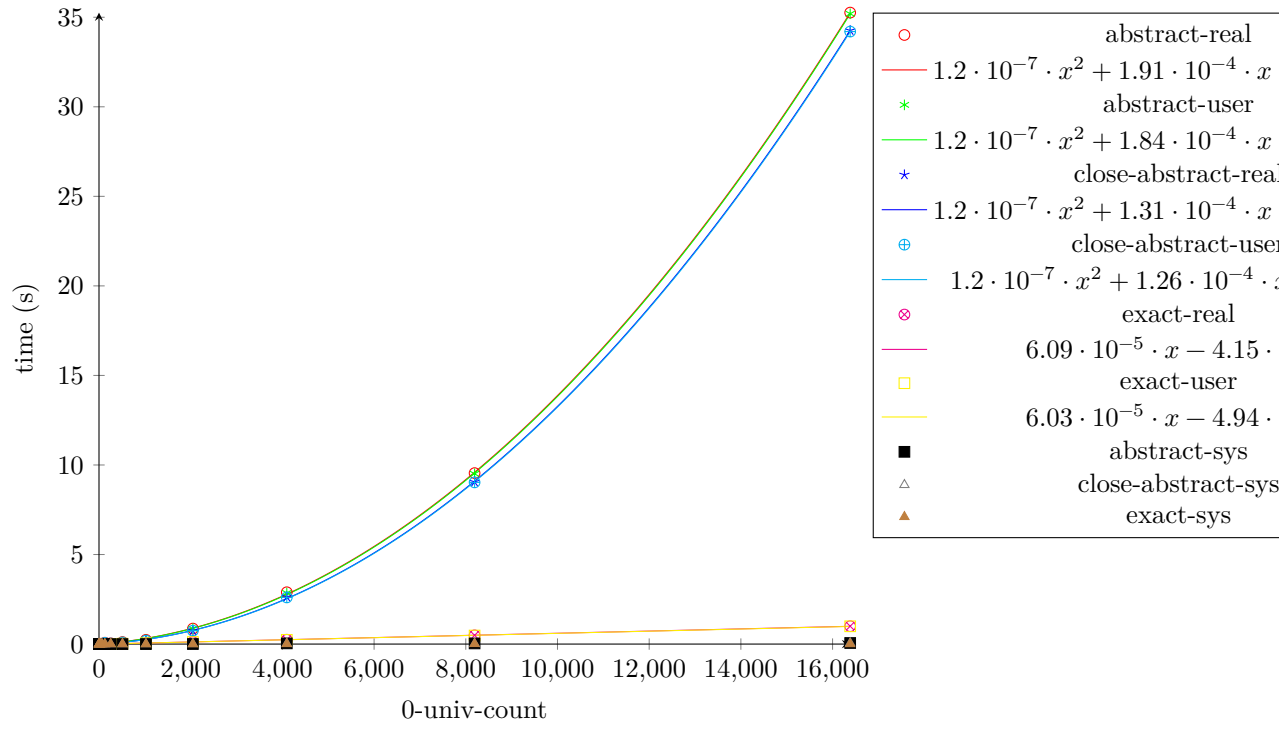


Figure 2: timing-n-polymorphic-universes param-1-n 0



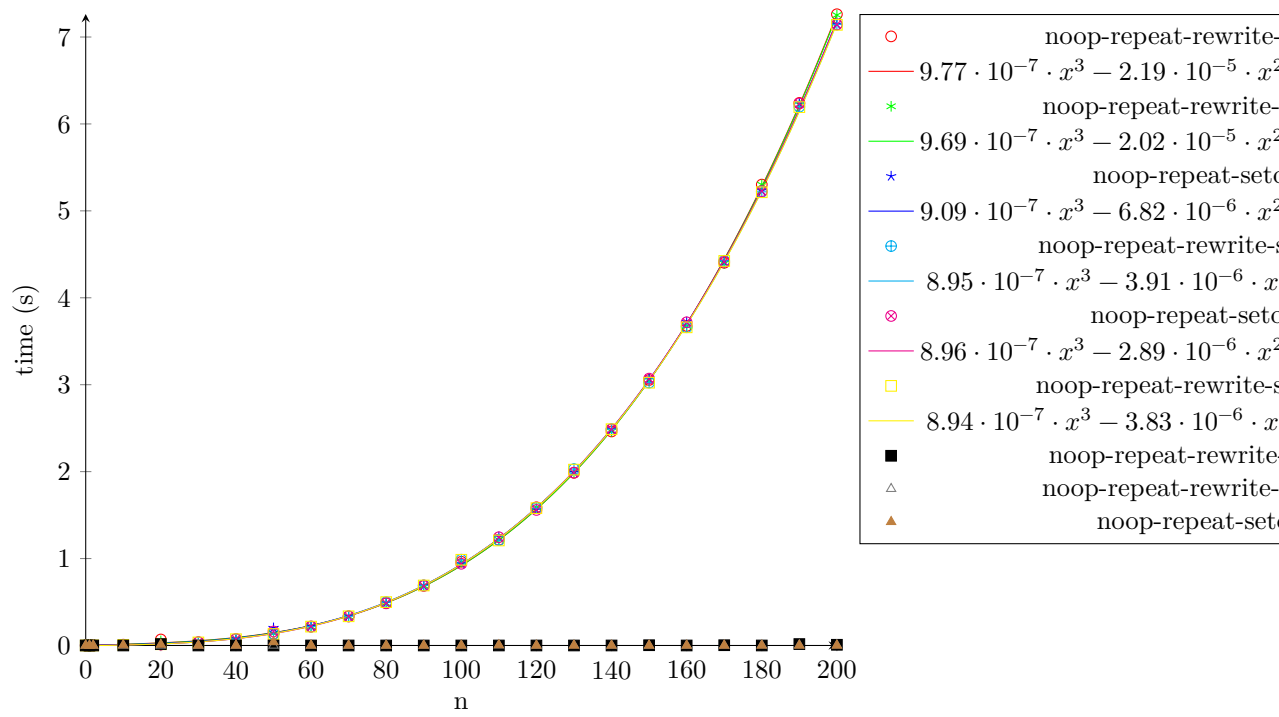


Figure 4: timing-repeat-setoid-rewrite-under-binders-noop

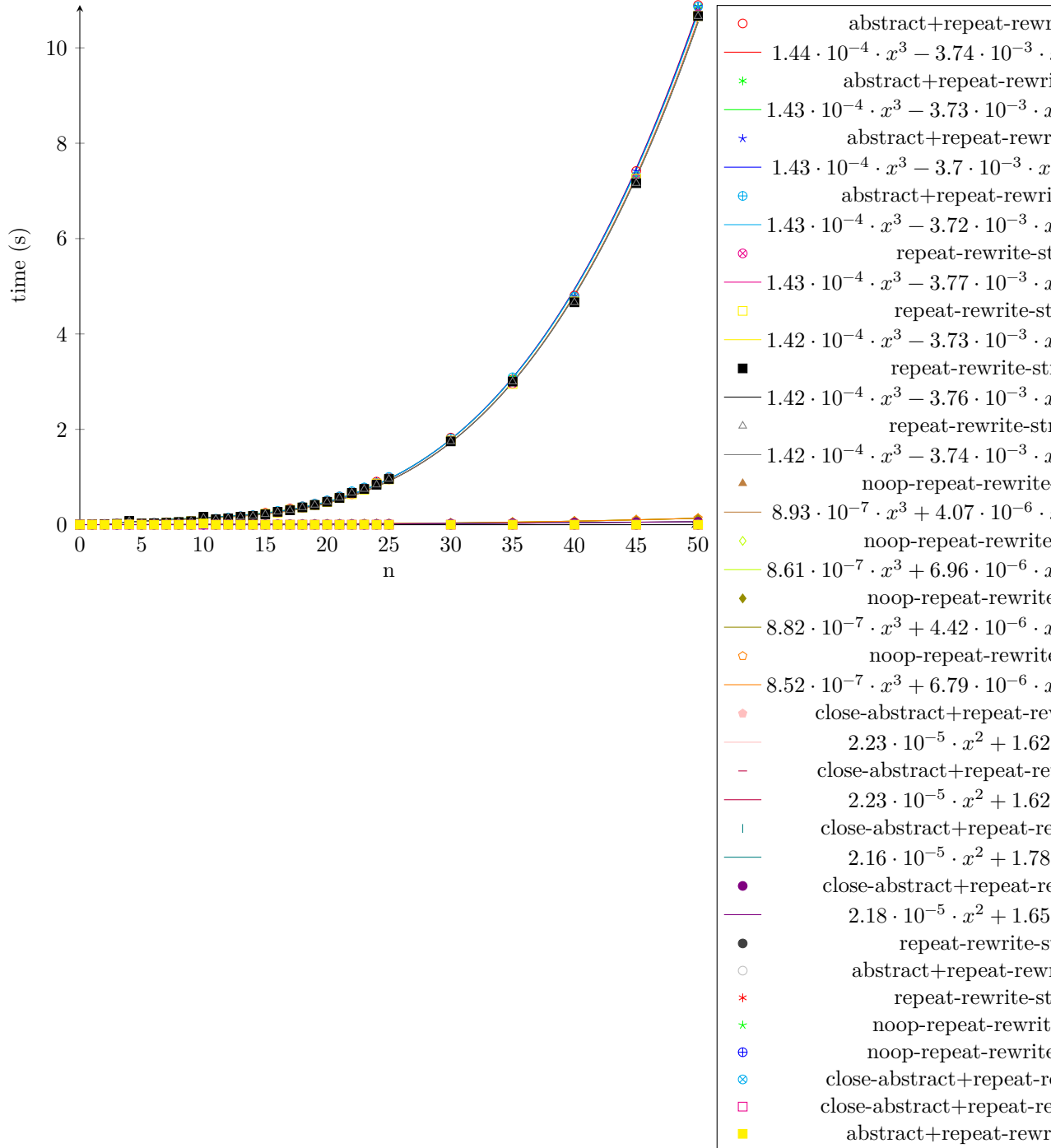


Figure 5: timing-rewrite-strat-under-binders

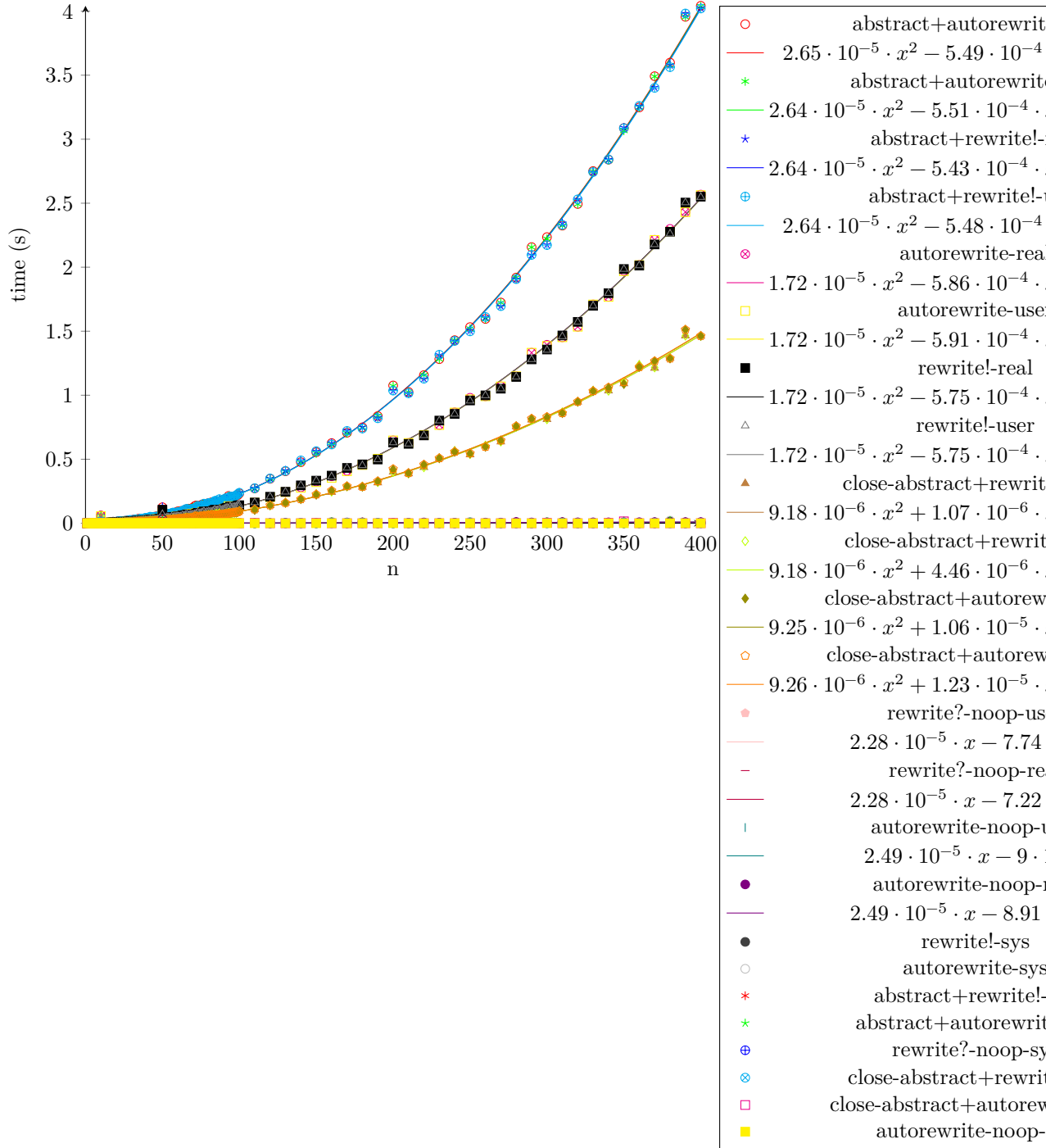


Figure 6: timing-rewrite-repeated-app-autorewrite

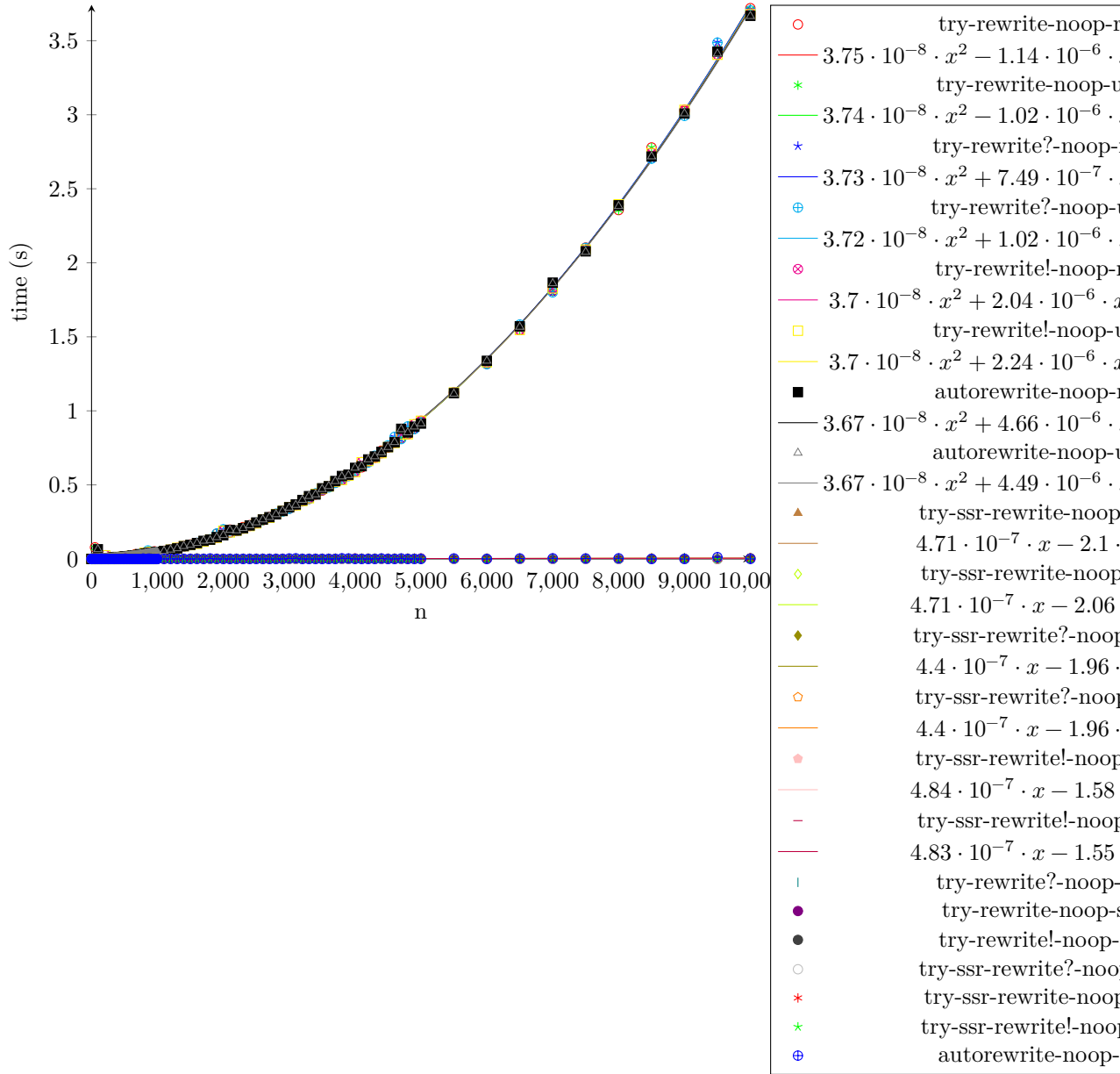


Figure 7: timing-rewrite-repeated-app-autorewrite-noop

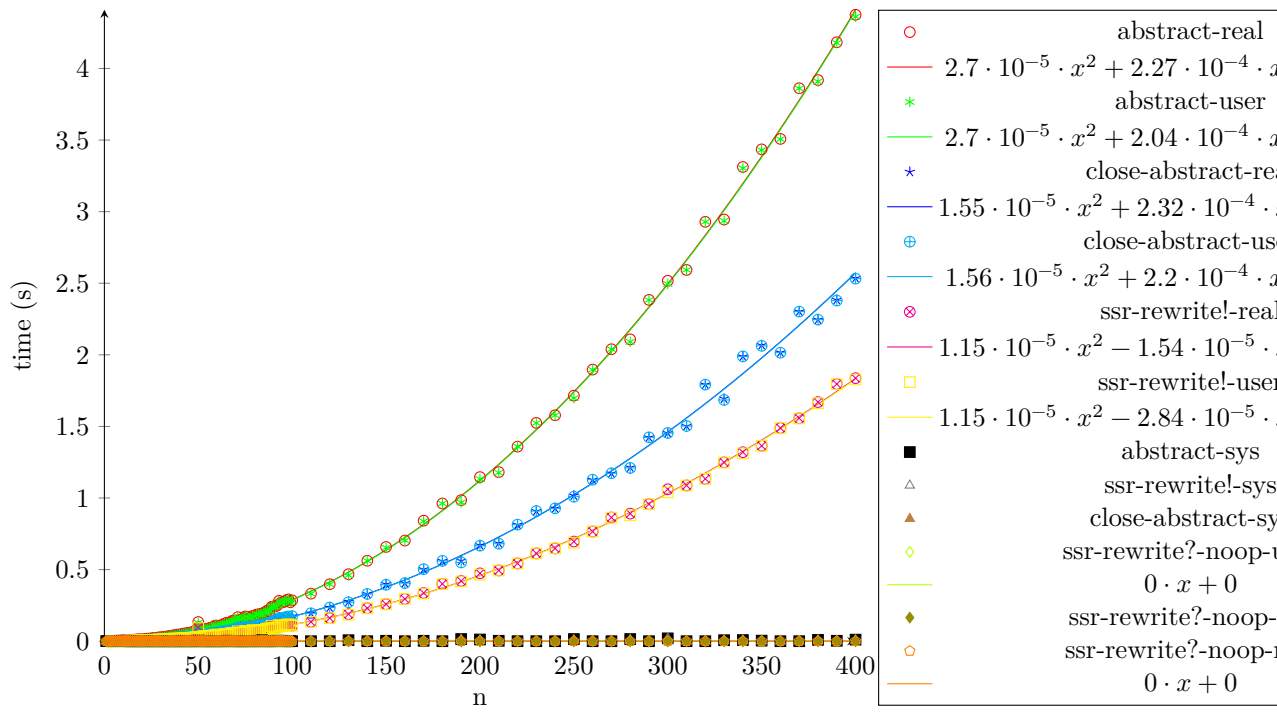


Figure 8: timing-rewrite-repeated-app-ssrrewrite

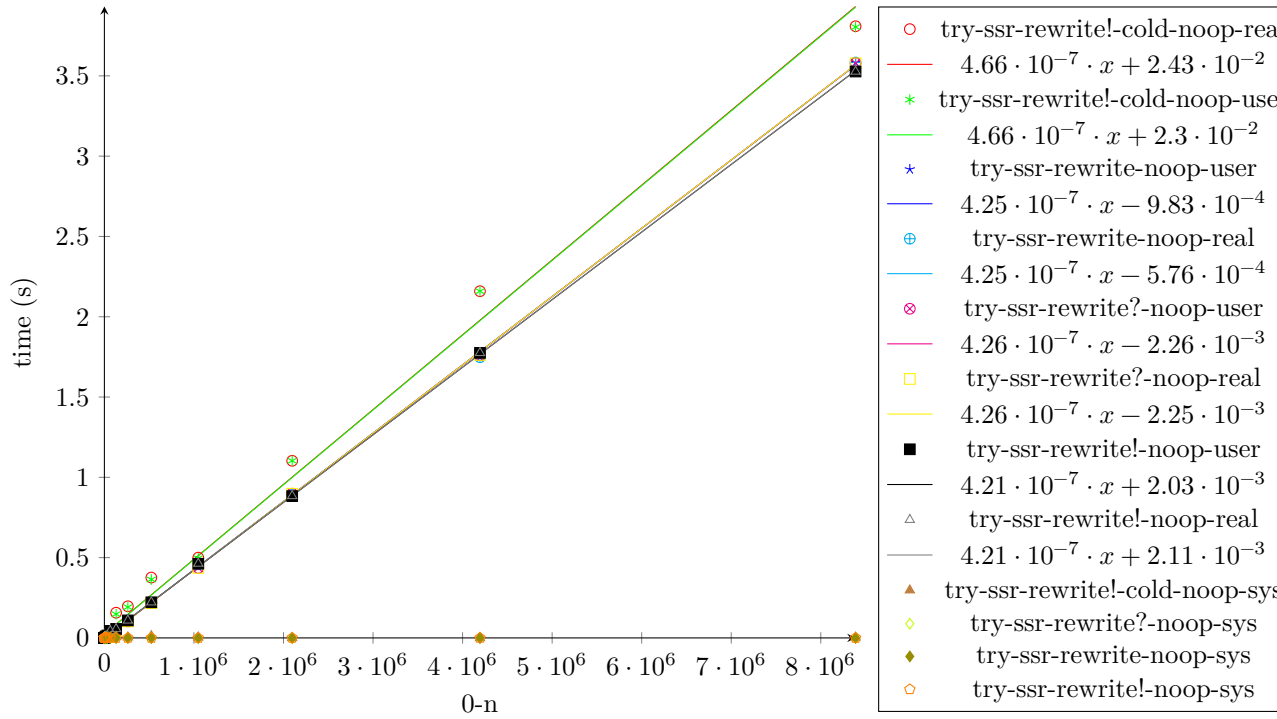


Figure 9: timing-rewrite-repeated-app-ssrrewrite-noop param-1-lgn 1

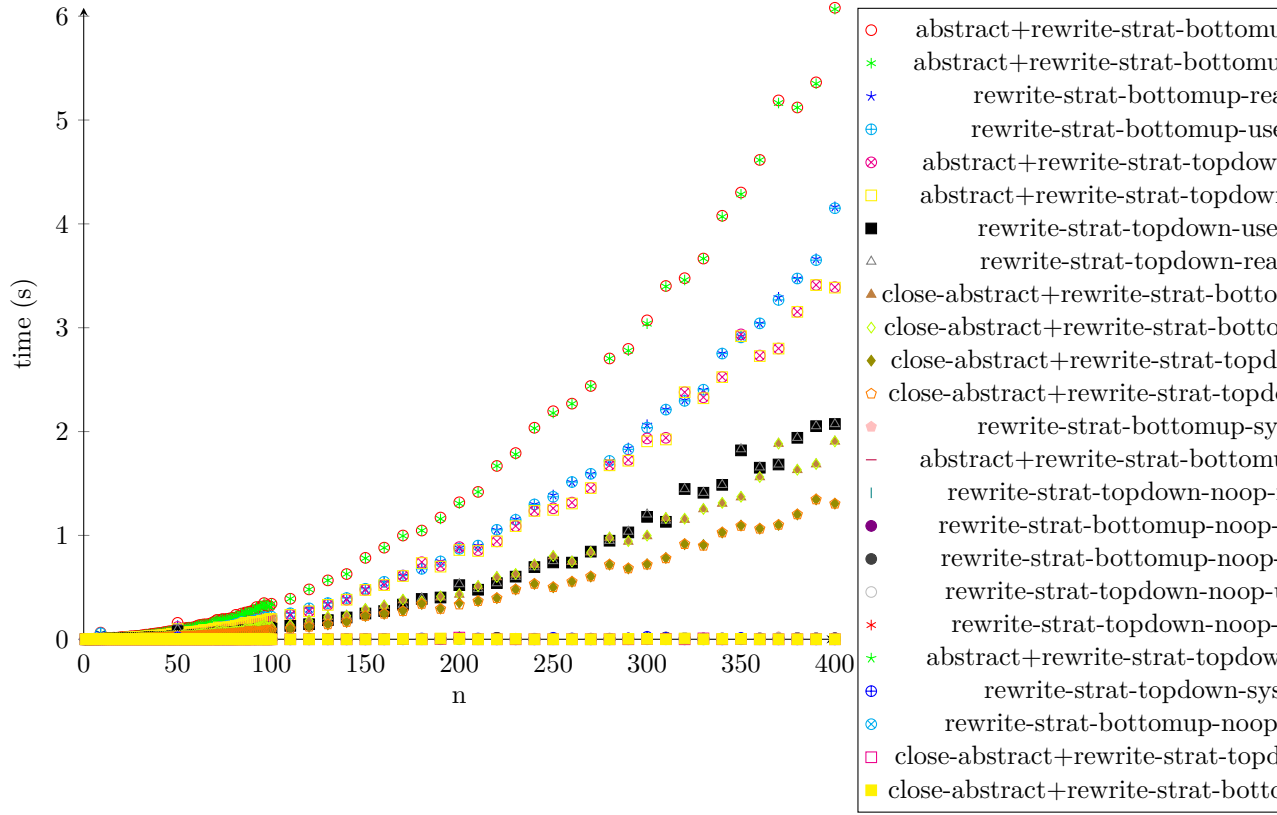


Figure 10: timing-rewrite-repeated-app-rewrite-strat

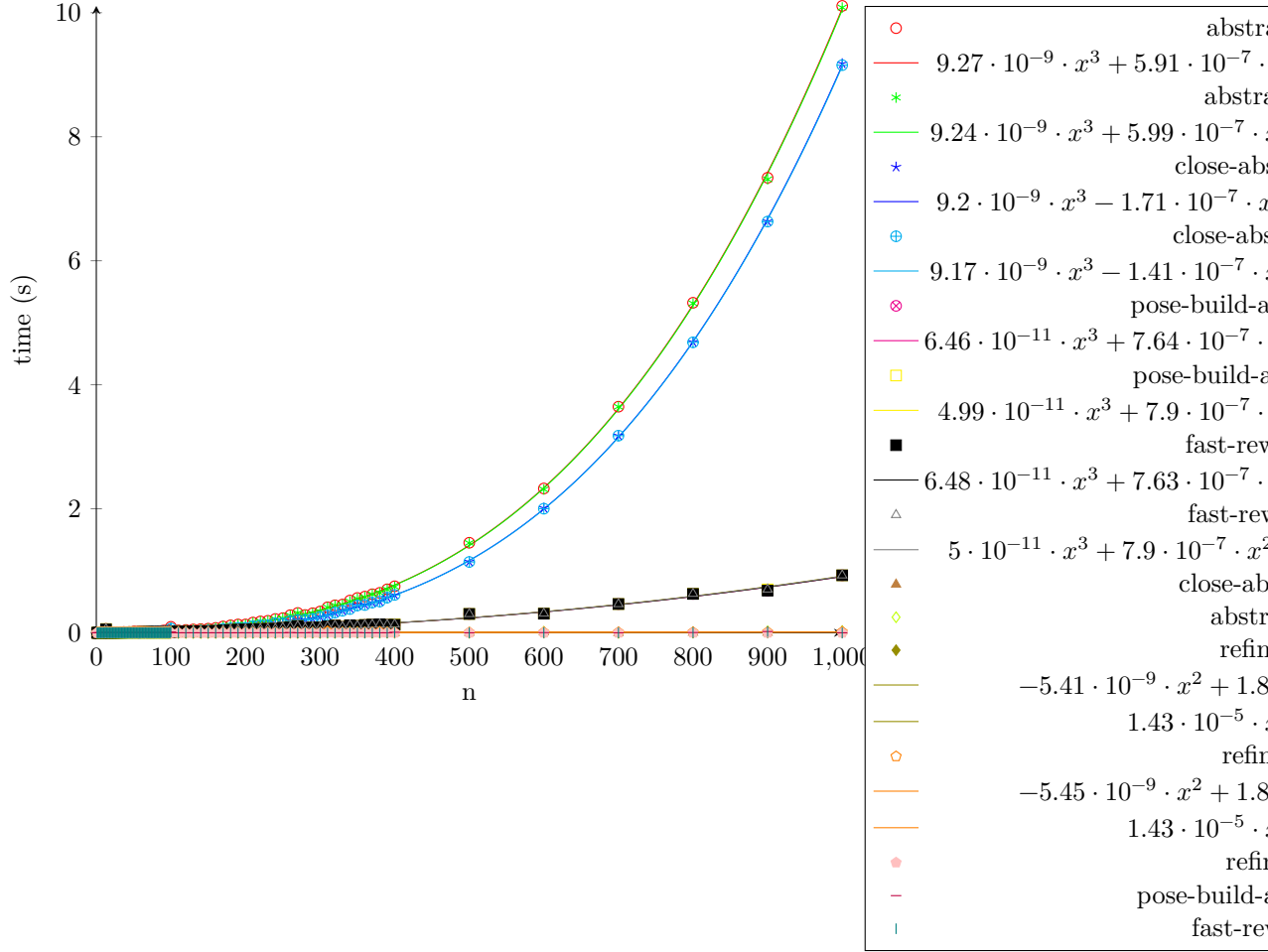


Figure 11: timing-rewrite-repeated-app-fast-rewrite

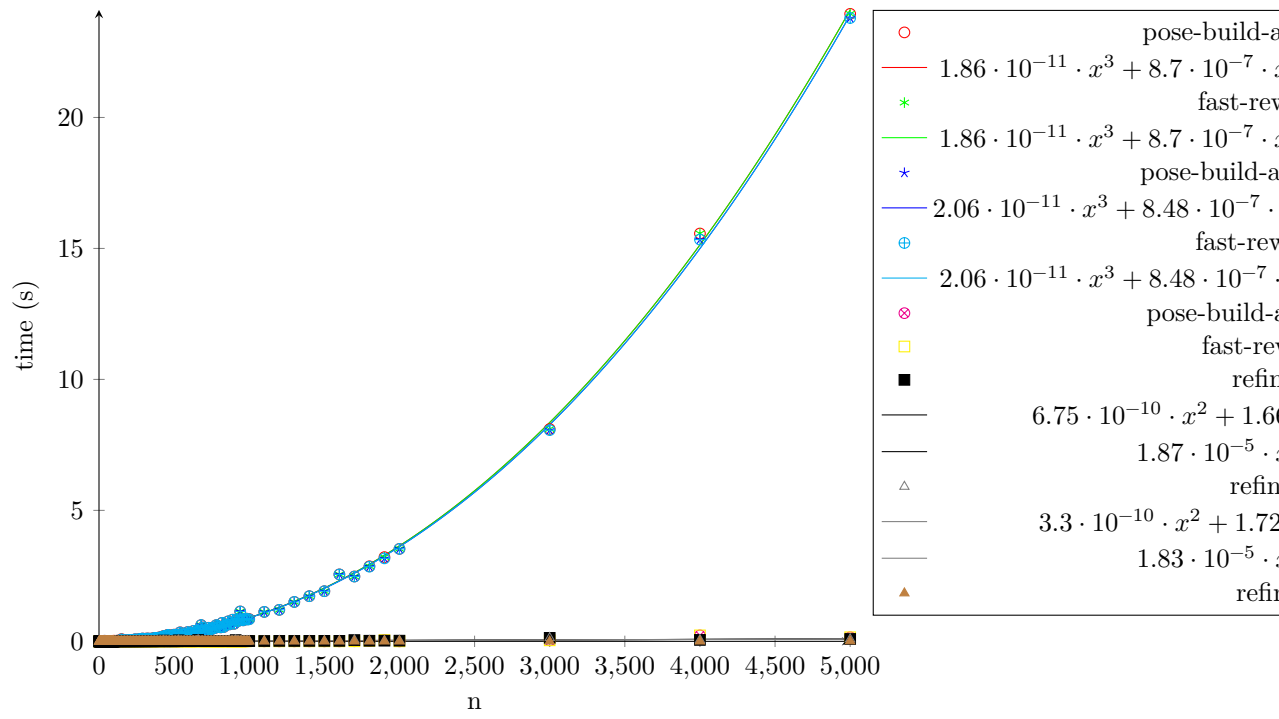
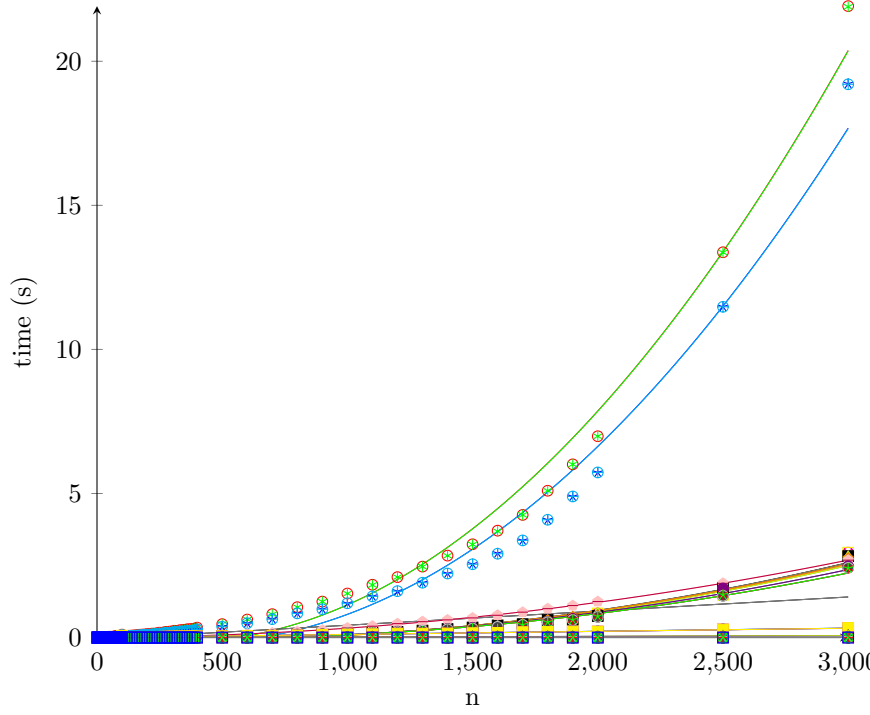


Figure 12: timing-rewrite-repeated-app-fast-rewrite-no-abstract



○	abstract-real
—	$2.89 \cdot 10^{-6} \cdot x^2 - 1.94 \cdot 10^{-3} \cdot x + 0.0001$
*	abstract-user
—	$2.89 \cdot 10^{-6} \cdot x^2 - 1.95 \cdot 10^{-3} \cdot x + 0.0001$
*	fast-rewrite-real
—	$2.61 \cdot 10^{-6} \cdot x^2 - 1.99 \cdot 10^{-3} \cdot x + 0.0001$
⊕	fast-rewrite-user
—	$2.61 \cdot 10^{-6} \cdot x^2 - 1.99 \cdot 10^{-3} \cdot x + 0.0001$
⊗	check-admit-cast-real
—	$4.05 \cdot 10^{-7} \cdot x^2 - 3.59 \cdot 10^{-4} \cdot x + 0.0001$
□	check-admit-cast-user
—	$4.05 \cdot 10^{-7} \cdot x^2 - 3.59 \cdot 10^{-4} \cdot x + 0.0001$
■	refine-real
—	$3.99 \cdot 10^{-7} \cdot x^2 - 3.38 \cdot 10^{-4} \cdot x + 0.0001$
—	$4.9 \cdot 10^{-4} \cdot x - 6.05 \cdot 10^{-5}$
△	refine-user
—	$3.98 \cdot 10^{-7} \cdot x^2 - 3.37 \cdot 10^{-4} \cdot x + 0.0001$
—	$4.9 \cdot 10^{-4} \cdot x - 6.04 \cdot 10^{-5}$
▲	check-pf-cast-real
—	$3.85 \cdot 10^{-7} \cdot x^2 - 3.3 \cdot 10^{-4} \cdot x + 0.0001$
◇	check-pf-cast-user
—	$3.85 \cdot 10^{-7} \cdot x^2 - 3.31 \cdot 10^{-4} \cdot x + 0.0001$
◆	type-pf-cast-real
—	$3.89 \cdot 10^{-7} \cdot x^2 - 3.25 \cdot 10^{-4} \cdot x + 0.0001$
◊	type-pf-cast-user
—	$3.88 \cdot 10^{-7} \cdot x^2 - 3.23 \cdot 10^{-4} \cdot x + 0.0001$
●	close-abstract-real
—	$2.85 \cdot 10^{-7} \cdot x^2 + 4.25 \cdot 10^{-5} \cdot x + 0.0001$
—	close-abstract-user
—	$2.85 \cdot 10^{-7} \cdot x^2 + 4.24 \cdot 10^{-5} \cdot x + 0.0001$
⌋	type-admit-cast-real
—	$3.53 \cdot 10^{-7} \cdot x^2 - 2.8 \cdot 10^{-4} \cdot x + 0.0001$
●	type-admit-cast-user
—	$3.53 \cdot 10^{-7} \cdot x^2 - 2.8 \cdot 10^{-4} \cdot x + 0.0001$
●	check-admit-real
—	$3.32 \cdot 10^{-7} \cdot x^2 - 2.58 \cdot 10^{-4} \cdot x + 0.0001$
○	check-admit-user
—	$3.32 \cdot 10^{-7} \cdot x^2 - 2.57 \cdot 10^{-4} \cdot x + 0.0001$
*	type-admit-user
—	$3.35 \cdot 10^{-7} \cdot x^2 - 2.65 \cdot 10^{-4} \cdot x + 0.0001$
*	type-admit-real
—	$3.35 \cdot 10^{-7} \cdot x^2 - 2.65 \cdot 10^{-4} \cdot x + 0.0001$
⊕	build-eval-thunk-user
—	$1.09 \cdot 10^{-4} \cdot x - 9.01 \cdot 10^{-5}$
⊗	build-eval-thunk-real
—	$1.1 \cdot 10^{-4} \cdot x - 8.47 \cdot 10^{-5}$
□	build-thunk-user
—	$1.08 \cdot 10^{-4} \cdot x - 9.64 \cdot 10^{-5}$
■	build-thunk-real
—	$1.09 \cdot 10^{-4} \cdot x - 8.93 \cdot 10^{-5}$
△	check-user