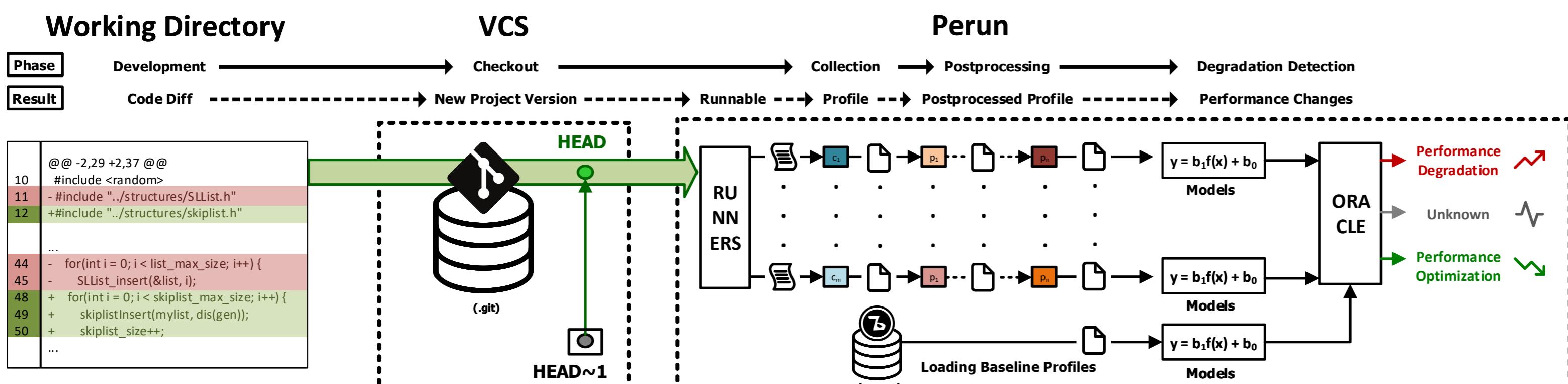
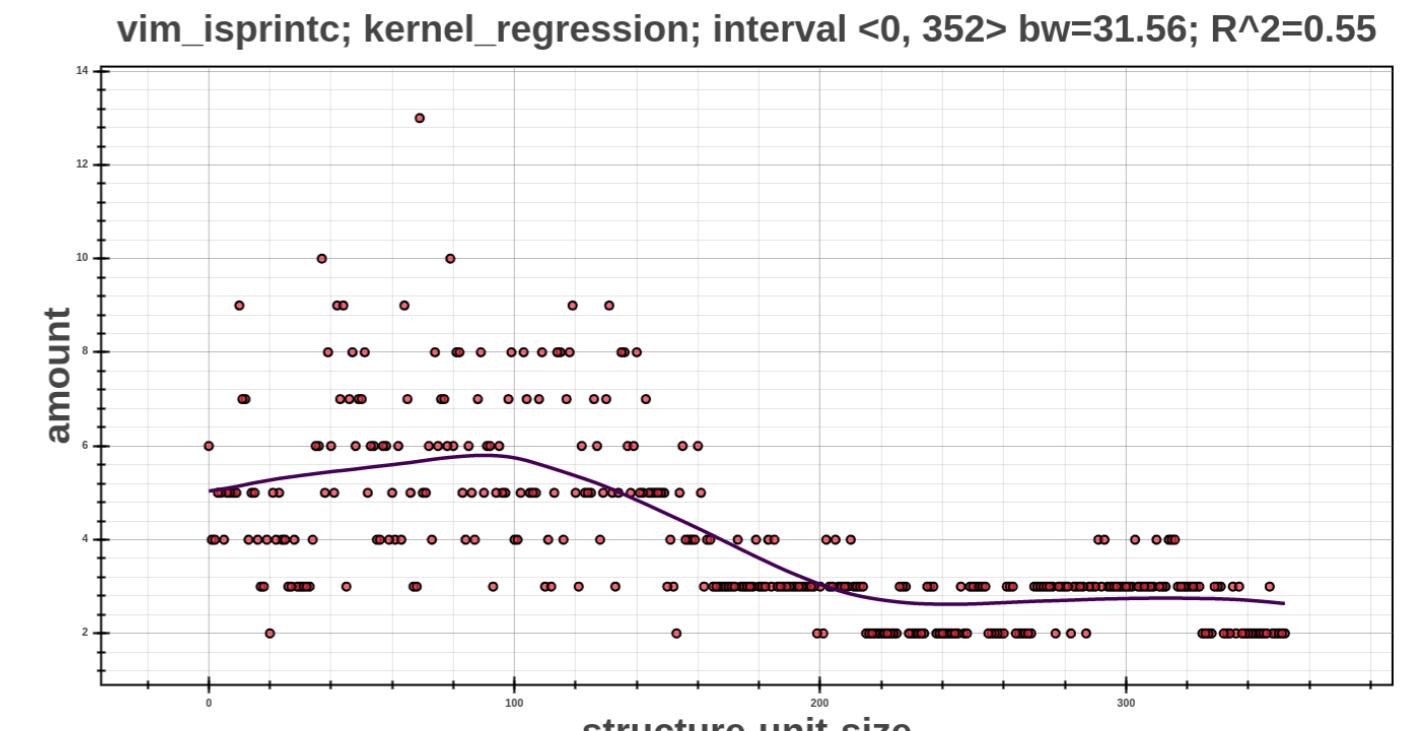
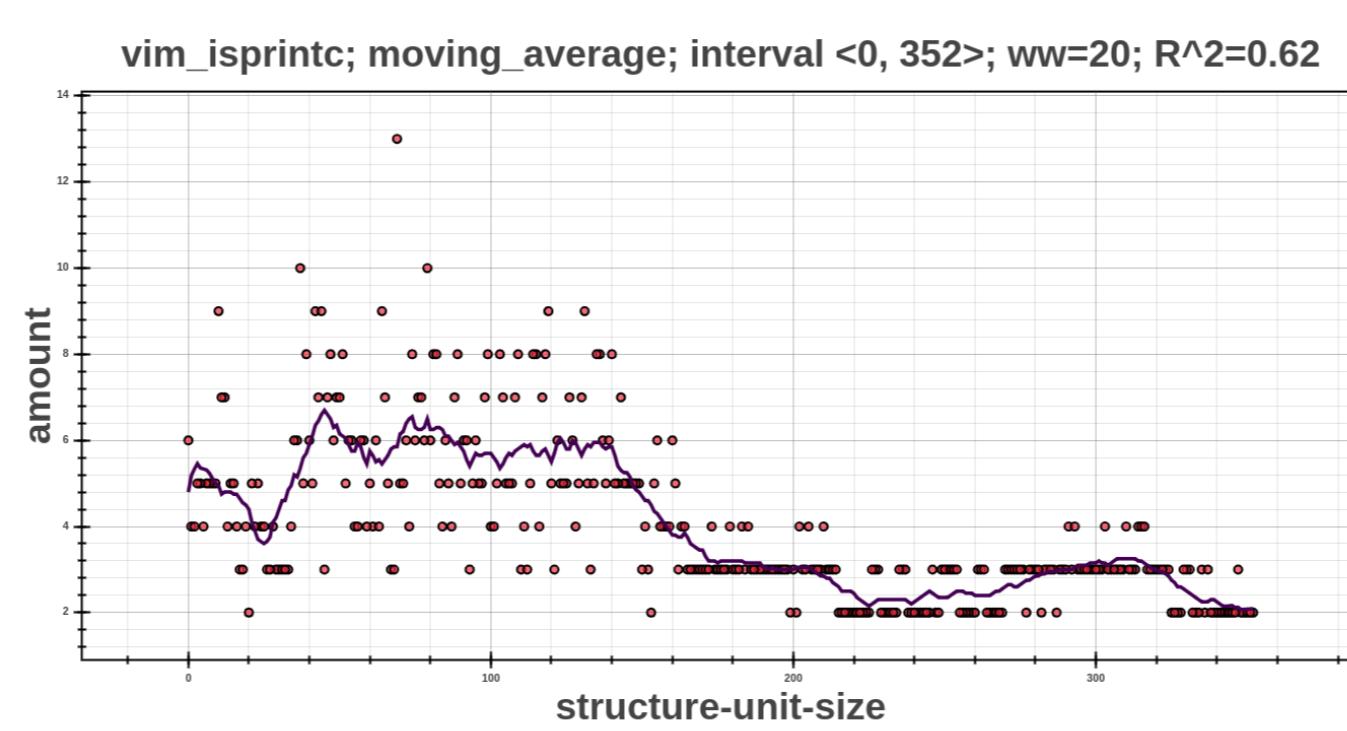
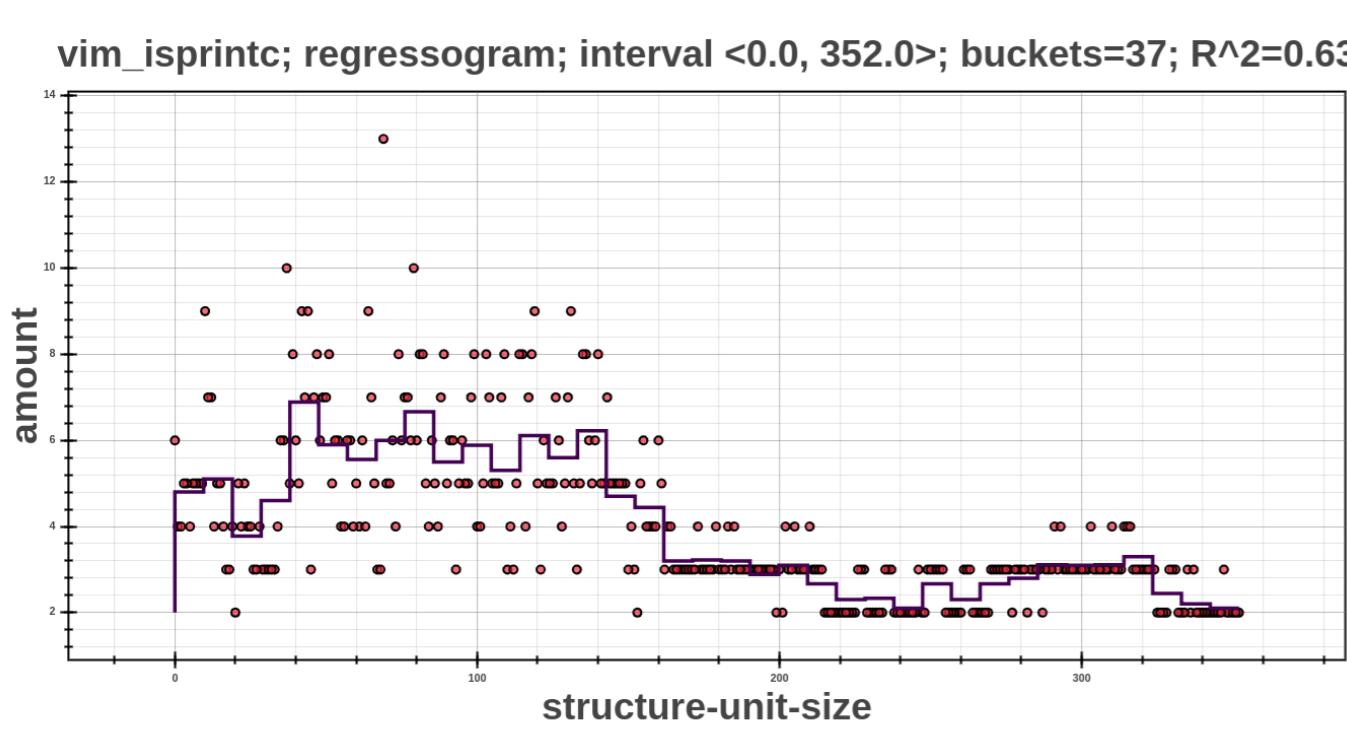


METHODOLOGY OF DETECTING PERFORMANCE CHANGES BETWEEN PROJECT VERSIONS



NEW POST-PROCESSORS: REGESSOGRAM, MOVING-AVERAGE, KERNEL-REGRESSION



Non-PARAMETRIC MODELLING

- 7 methods for optimal *regressogram* bucket number
- 3 Moving-Average methods:
 - SMA, SMM and EMA
- 5 supported kernel types
 - Epanechnikov, Normal, Tricube, etc.
- 3 supported kernel regression methods:
 - *local-linear*, *local-polynomial*, *spatial-average*
- 4 methods for optimal kernel bandwidth:
 - *cross-validation*, *AIC*, *Scott's/Silverman's Rules*

Experimental Evaluation: vim

Model	v8.0 - v7.4			v8.0. - v8.1		
	-	+	?	-	+	?
#1	RG	18%	17%	13%	11%	8%
	MA	5%	3%	0% (2)	0% (2)	1% (5)
	KR	6%	2%	0% (1)	0% (3)	1% (4)
#2	RG	11%	8%	13%	6% (26)	3% (14)
	MA	13%	8%	11%	6% (23)	3% (12)
	KR	12%	6%	11%	6% (24)	3% (12)

- #1: Integral Comparison, #2: Local Statistics Metrics
- 333 compared locations (functions); in average, detected changes in 7% of locations

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