Table 1: Cross-version classification results when changing the classification threshold from the third quantile to median. The table shows the precision, recall, % of overlapping files that are identified by our topic-based approach and LM, and the defect density of the identified files.

Predicted System	Precision	Recall	% overlapping files	Defect Density Topic-based	(Defect/KLOC) LM
Mylyn 2.0	0.98	0.95	0%	7.33	5.76
$\frac{\text{Mylyn 3.0}}{\text{Eclipse 2.1}}$	0.85	0.85 0.74	$\frac{0\%}{2.1\%}$	3.28 2.63	$\frac{3.10}{1.01}$
Eclipse 3.0	0.73	0.75	3.5% 5.5%	3.50	1.86
NetBeans 5.0 NetBeans 5.5.1	$0.73 \\ 0.79$	$0.68 \\ 0.76$	$\frac{5.5\%}{7.6\%}$	$0.09 \\ 0.32$	0.23 0.45

Table 2: Cross-version classification results when changing the classification threshold from the third quantile to the 90 percentile. The table shows the precision, recall, % of overlapping files that are identified by our topic-based approach and LM, and the defect density of the identified files.

Predicted System	Precision	Recall	% overlapping files	Defect Density Topic-based	(Defect/KLOC) LM
Mylyn 2.0	0.67	$0.78 \\ 0.72$	0%	0	5.76
Mylyn 3.0	0.76		0%	4.33	1.02
Eclipse 2.1	0.79	0.79	1.6%	5.33	1.11
Eclipse 3.0	0.63	0.84	1.5%	7.79	1.88
NetBeans 5.0	0.55	0.67	0.7%	0.60	0.25
NetBeans 5.5.1	0.60	1.00	7.6%	0.71	0.47