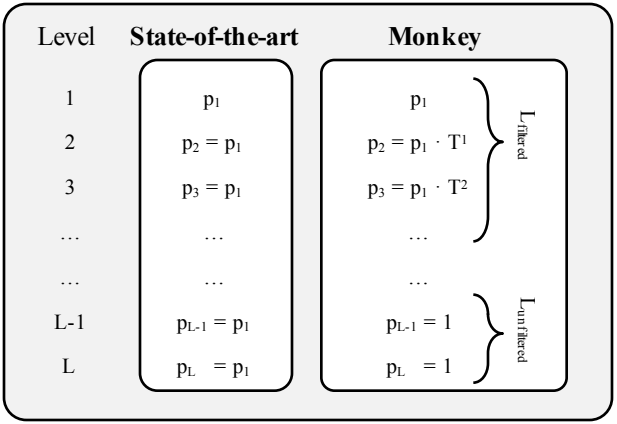

Term	Description	Unit
p_i	False positive rate (FPR) for filters at level i	
R	Worst-case zero-result point lookup cost	I/O
$R_{filtered}$	Worst-case zero-result point lookup cost to levels with filters	I/O
$R_{unfiltered}$	Worst-case zero-result point lookup cost to levels with no filters	I/O
V	Worst-case non-zero-result point lookup cost	I/O
W	Worst-case update cost	I/O
Q	Worst-case range lookup cost	I/O
$M_{threshold}$	Value of $M_{filters}$ below which p_L (FPR at level L) converges to 1	bits
ϕ	Cost ratio between a write and a read I/O to persistent storage	
s	Proportion of entries in a range lookup	
$L_{filtered}$	Number of levels with Bloom filters	
$L_{unfiltered}$	Number of levels without Bloom filters	
$\hat{M}$	Amount of main memory to divide among filters and buffer	bits