

Dataset	45% CS	
	PCCC	PCCC-N2-S
n300-k10-s10	24.8	2.7
n300-k10-s20	30.9	2.4
n300-k10-s30	26.5	3.5
n300-k10-s40	59.8	11.9
n300-k10-s50	115.6	13.9
n300-k20-s10	1,496.0	2.8
n300-k20-s20	3,616.6	5.4
n300-k20-s30	3,616.9	15.6
n300-k20-s40	3,618.7	10.4
n300-k20-s50	3,616.1	15.9
n300-k50-s10	618.7	2.3
n300-k50-s20	517.6	3.8
n300-k50-s30	507.3	2.0
n300-k50-s40	452.9	3.4
n300-k50-s50	449.4	2.5
Sum	18,767.9	98.4

Table W53: Average running times (in seconds) of the PCCC and the PCCC-N2-S algorithms for the constraint sets of size 45% CS. The lowest values are stated in bold. The column KMEANS reports the average running time of the unconstrained k-means algorithm. The hyphen indicates that the respective algorithm returned no solution within the time limit of 3,600 seconds.