

Dataset	50% CS	
	PCCC	PCCC-N2-S
n300-k10-s10	32.9	3.4
n300-k10-s20	39.9	2.7
n300-k10-s30	30.8	4.1
n300-k10-s40	56.1	20.1
n300-k10-s50	69.4	26.6
n300-k20-s10	304.3	2.7
n300-k20-s20	3,381.5	6.8
n300-k20-s30	3,621.2	17.4
n300-k20-s40	3,623.2	39.7
n300-k20-s50	3,621.1	34.7
n300-k50-s10	551.7	2.7
n300-k50-s20	568.3	2.3
n300-k50-s30	588.3	3.1
n300-k50-s40	1,171.3	3.4
n300-k50-s50	1,173.4	3.2
Sum	18,833.2	173.0

Table W54: Average running times (in seconds) of the PCCC and the PCCC-N2-S algorithms for the constraint sets of size 50% 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.