

Dataset	15% CS		KMEANS
	PCCC	PCCC-N2-S	
n300-k10-s10	1.6	0.3	0.0
n300-k10-s20	2.8	0.9	0.0
n300-k10-s30	4.0	1.0	0.0
n300-k10-s40	4.4	0.8	0.0
n300-k10-s50	4.2	1.0	0.0
n300-k20-s10	4.9	0.7	0.0
n300-k20-s20	6.5	1.2	0.0
n300-k20-s30	7.4	0.8	0.0
n300-k20-s40	7.2	0.8	0.0
n300-k20-s50	6.6	0.5	0.1
n300-k50-s10	11.8	0.3	0.0
n300-k50-s20	15.1	0.8	0.1
n300-k50-s30	16.6	0.8	0.1
n300-k50-s40	12.9	0.3	0.1
n300-k50-s50	11.7	0.7	0.1
Sum	117.7	11.0	0.7

Table W67: Average running times (in seconds) of the PCCC and the PCCC-N2-S algorithms for the constraint sets of size 15% 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.