

Dataset	30% CS		KMEANS
	PCCC	PCCC-N2-S	
n300-k10-s10	7.4	<b>0.6</b>	0.0
n300-k10-s20	5.9	<b>0.7</b>	0.0
n300-k10-s30	8.8	<b>1.1</b>	0.0
n300-k10-s40	24.8	<b>1.9</b>	0.0
n300-k10-s50	1,212.0	<b>4.6</b>	0.0
n300-k20-s10	30.2	<b>0.6</b>	0.0
n300-k20-s20	64.8	<b>1.1</b>	0.0
n300-k20-s30	93.7	<b>1.3</b>	0.0
n300-k20-s40	112.3	<b>3.1</b>	0.0
n300-k20-s50	955.1	<b>3.8</b>	0.0
n300-k50-s10	76.8	<b>0.5</b>	0.0
n300-k50-s20	94.9	<b>0.8</b>	0.0
n300-k50-s30	92.8	<b>0.5</b>	0.1
n300-k50-s40	91.2	<b>0.8</b>	0.0
n300-k50-s50	96.7	<b>0.8</b>	0.1
Sum	2,967.5	<b>22.3</b>	0.6

Table W70: Average running times (in seconds) of the PCCC and the PCCC-N2-S algorithms for the constraint sets of size 30% 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.