

Dataset	40% CS	
	PCCC	PCCC-N2-S
n300-k10-s10	37.2	<b>1.8</b>
n300-k10-s20	60.3	<b>1.6</b>
n300-k10-s30	62.5	<b>1.9</b>
n300-k10-s40	65.1	<b>8.6</b>
n300-k10-s50	158.9	<b>11.1</b>
n300-k20-s10	867.2	<b>1.8</b>
n300-k20-s20	1,992.7	<b>3.7</b>
n300-k20-s30	2,785.3	<b>6.3</b>
n300-k20-s40	3,619.1	<b>10.8</b>
n300-k20-s50	3,613.0	<b>14.8</b>
n300-k50-s10	351.0	<b>1.3</b>
n300-k50-s20	465.0	<b>1.1</b>
n300-k50-s30	386.7	<b>2.6</b>
n300-k50-s40	430.6	<b>1.8</b>
n300-k50-s50	485.3	<b>1.2</b>
Sum	15,379.9	<b>70.3</b>

Table W72: Average running times (in seconds) of the PCCC and the PCCC-N2-S algorithms for the constraint sets of size 40% 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.