

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

Table W73: 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.