

| Dataset    | 20% CS   |              |       |          |      |     |
|------------|----------|--------------|-------|----------|------|-----|
|            | PCCC     | PCCC-N2-S-RD | COPKM | CSC      | DILS | LCC |
| n1000-k10  | <b>0</b> | <b>0</b>     | —     | <b>0</b> | —    | —   |
| n1000-k100 | <b>0</b> | <b>0</b>     | —     | <b>0</b> | —    | —   |
| n1000-k2   | <b>0</b> | <b>0</b>     | —     | <b>0</b> | —    | —   |
| n1000-k20  | <b>0</b> | <b>0</b>     | —     | <b>0</b> | —    | —   |
| n1000-k5   | <b>0</b> | <b>0</b>     | —     | <b>0</b> | —    | —   |
| n1000-k50  | <b>0</b> | <b>0</b>     | —     | <b>0</b> | —    | —   |
| n2000-k10  | <b>0</b> | <b>0</b>     | —     | <b>0</b> | —    | —   |
| n2000-k100 | <b>0</b> | 2            | —     | <b>0</b> | —    | —   |
| n2000-k2   | <b>0</b> | <b>0</b>     | —     | <b>0</b> | —    | —   |
| n2000-k20  | <b>0</b> | <b>0</b>     | —     | <b>0</b> | —    | —   |
| n2000-k5   | <b>0</b> | <b>0</b>     | —     | <b>0</b> | —    | —   |
| n2000-k50  | <b>0</b> | 17           | —     | <b>0</b> | —    | —   |
| n5000-k10  | <b>0</b> | <b>0</b>     | —     | <b>0</b> | —    | —   |
| n5000-k100 | <b>0</b> | 188          | —     | <b>0</b> | —    | —   |
| n5000-k2   | <b>0</b> | <b>0</b>     | —     | <b>0</b> | —    | —   |
| n5000-k20  | <b>0</b> | <b>0</b>     | —     | <b>0</b> | —    | —   |
| n5000-k5   | <b>0</b> | <b>0</b>     | —     | <b>0</b> | —    | —   |
| n5000-k50  | <b>0</b> | <b>0</b>     | —     | <b>0</b> | —    | —   |
| n500-k10   | <b>0</b> | <b>0</b>     | —     | <b>0</b> | —    | —   |
| n500-k100  | <b>0</b> | <b>0</b>     | —     | <b>0</b> | —    | —   |
| n500-k2    | <b>0</b> | <b>0</b>     | —     | <b>0</b> | —    | —   |
| n500-k20   | <b>0</b> | <b>0</b>     | —     | <b>0</b> | —    | —   |
| n500-k5    | <b>0</b> | <b>0</b>     | —     | <b>0</b> | —    | —   |
| n500-k50   | <b>0</b> | <b>0</b>     | —     | <b>0</b> | —    | —   |
| Mean       | <b>0</b> | 9            | —*    | <b>0</b> | —*   | —*  |

\*Nan values (—) are ignored when computing the sum.

Table W99: Average number of cannot-link constraint violations of the PCCC and the PCCC-N2-S algorithms for the constraint sets of size 20% CS. The lowest values are stated in bold. The column KMEANS reports the average number of cannot-link constraint violations obtained with the k-means algorithm. The hyphen indicates that the respective algorithm returned no solution within the time limit of 1,800 seconds.