| DB                       | 1,000     | 3,000    | 7,000   | 10,000   |
|--------------------------|-----------|----------|---------|----------|
| avg. len.                | 42.9      | 44.0     | 43.5    | 43.4     |
| PM comptime              | 2.0       | 6.5      | 15.0    | 21.4     |
| # of rFTSs               | 6307      | 6872     | 6325    | 6266     |
| GT comptime              | 217.3     | 951.2    | 2226.2  | 3465.3   |
| # of FTSs                | 171787    | 190876   | 170387  | 170902   |
| $ V_{avg} $              | 6         | 8        | 15      | 20       |
| avg. len.                | 42.9      | 61.2     | 135.5   | 188.7    |
| PM comptime              | 2.0       | 6.3      | 228.7   | 4335.0   |
| # of rFTSs               | 6307      | 20755    | 3653370 | 81012875 |
| GT comptime              | 217.3     | 3599.3   | -       | -        |
| # of FTSs                | 171787    | 936115   | -       | -        |
| $p_i$ [ avg. len.        | 116.7     | 65.0     | 42.9    | 18.7     |
| PM comptime              | 419.0     | 7.5      | 2.0     | 0.7      |
| # of rFTSs               | 4458046   | 58251    | 6307    | 585      |
| GT comptime              | -         | 4132.2   | 217.3   | 8.5      |
| # of FTSs                | -         | 2355657  | 171787  | 9765     |
| $ L_e $                  | 1         | 3        | 7       | 10       |
| avg. len.                | 43.5      | 43.7     | 43.8    | 43.0     |
| PM comptime              | 54.5      | 5.1      | 1.9     | 0.97     |
| # of rFTSs               | 70257     | 12972    | 5318    | 3333     |
| GT comptime              | 2195.9    | 644.0    | 205.9   | 122.1    |
| # of FTSs                | 2995499   | 474564   | 132538  | 62897    |
| $\sigma'$ [ avg. len.    | 42.9      | 42.9     | 42.9    | 42.9     |
| PM comptime              | 377.1     | 30.7     | 2.0     | 1.8      |
| # of rFTSs               | 90607156  | 5744037  | 6307    | 1630     |
| GT comptime              | 2122.4    | 472.3    | 217.3   | 93.3     |
| # of FTSs                | 176177313 | 11891069 | 171787  | 43100    |
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PM: Proposed Method, GT: the original GTRACE, comptime: computation time [sec], avg. len.: average length of transformation sequences, # of rFTSs (or FTSs): the number of mined rFTSs (or FTSs)