

|                | Gram Matrix |       |       | Linear Regression |       |       | Nearest Neighbor |       |       |
|----------------|-------------|-------|-------|-------------------|-------|-------|------------------|-------|-------|
| Dimensionality | 10          | 100   | 1000  | 10                | 100   | 1000  | 10               | 100   | 1000  |
| PC (lilLinAlg) | 00:07       | 00:09 | 00:39 | 00:14             | 00:22 | 00:49 | 00:15            | 00:20 | 01:06 |
| SystemML       | 00:05*      | 00:51 | 02:34 | 00:06*            | 00:53 | 02:38 | 00:04*           | 00:30 | 01:32 |
| Spark mllib    | 00:20       | 00:54 | 17:31 | 00:35             | 01:01 | 17:42 | 01:20            | 04:49 | 14:30 |
| SciDB          | 00:03       | 00:17 | 03:20 | 00:15             | 00:33 | 06:04 | 00:28            | 02:56 | 06:24 |