Lampiran 1 Perbandingan waktu rata-rata komputasi untuk proses reduksi matriks dengan PCA (detik)

<table>
<thead>
<tr>
<th>Ukuran Input Matriks grid</th>
<th>Ukuran Output Matriks reduksi</th>
<th>serial</th>
<th>paralel dengan 2 prosesor</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>2 thread</td>
</tr>
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<td>0.6160</td>
</tr>
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<td>0.6850</td>
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<tr>
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<td>3</td>
<td>1.2620</td>
<td>0.7017</td>
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<tr>
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</table>

Lampiran 2 Perbandingan waktu rata-rata komputasi untuk proses regresi linear (detik)

<table>
<thead>
<tr>
<th>Ukuran Input Matriks reduksi</th>
<th>serial</th>
<th>paralel dengan 2 prosesor</th>
</tr>
</thead>
<tbody>
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<td></td>
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<td>0.2739</td>
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</table>

Lampiran 3 Perbandingan waktu rata-rata komputasi untuk proses rekonstruksi data curah hujan (detik)

<table>
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</thead>
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<td>0.2291</td>
<td>0.5236</td>
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### Lampiran 4 Perbandingan waktu rata-rata komputasi untuk gabungan ketiga proses (detik)

<table>
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<th>Ukuran Output Matriks reduksi</th>
<th>Serial</th>
<th>Paralel dengan 2 prosesor</th>
</tr>
</thead>
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<td>1.0155</td>
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</table>

### Lampiran 5 Perbandingan speedup untuk proses reduksi matriks dengan PCA

<table>
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<th>Ukuran Output Matriks reduksi</th>
<th>Paralel dengan 2 prosesor</th>
</tr>
</thead>
<tbody>
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<td></td>
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<td>1.0893</td>
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</tr>
<tr>
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<td>1.7986</td>
</tr>
<tr>
<td>7x7</td>
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<td>1.8187</td>
</tr>
</tbody>
</table>

### Lampiran 6 Perbandingan speedup untuk proses regresi linear

<table>
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<th>Paralel dengan 2 prosesor</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2 thread</td>
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<tr>
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<td>0.4504</td>
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</tbody>
</table>

### Lampiran 7 Perbandingan speedup untuk proses rekonstruksi

<table>
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<th>Paralel dengan 2 prosesor</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2 thread</td>
</tr>
<tr>
<td>1</td>
<td>0.3714</td>
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<tr>
<td>3</td>
<td>0.4245</td>
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</tbody>
</table>
Lampiran 8 Perbandingan *speedup* untuk gabungan ketiga proses

<table>
<thead>
<tr>
<th>Ukuran Input</th>
<th>Ukuran Output</th>
<th>paralel dengan 2 prosesor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grid Matriks</td>
<td>Matriks Reduksi</td>
<td>2 thread</td>
</tr>
<tr>
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</table>

Lampiran 9 Perbandingan efisiensi untuk matriks reduksi PCA

<table>
<thead>
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<th>Ukuran Input</th>
<th>Ukuran Output</th>
<th>paralel dengan 2 prosesor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grid Matriks</td>
<td>Matriks Reduksi</td>
<td>2 thread</td>
</tr>
<tr>
<td>3x3</td>
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<td>3</td>
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<tr>
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<tr>
<td>5x5</td>
<td>3</td>
<td>0.7033</td>
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</table>

Lampiran 10 Perbandingan efisiensi untuk regresi linear

<table>
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<tr>
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<th>paralel dengan 2 prosesor</th>
</tr>
</thead>
<tbody>
<tr>
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<td>3</td>
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</tbody>
</table>

Lampiran 11 Perbandingan efisiensi untuk proses rekonstruksi

<table>
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<td>2 thread</td>
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<tr>
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<tr>
<td>3</td>
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</tr>
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<td>0.2187</td>
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</tbody>
</table>
Lampiran 12 Perbandingan efisiensi untuk gabungan ketiga proses

<table>
<thead>
<tr>
<th>Ukuran Input Grid Matriks</th>
<th>Ukuran Output Matriks Reduksi</th>
<th>paralel dengan 2 prosesor</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>2 thread</td>
</tr>
<tr>
<td>3x3</td>
<td>1</td>
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</table>

Lampiran 13 Perbandingan overhead untuk matriks reduksi PCA

<table>
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<th>Ukuran Input Grid Matriks</th>
<th>Ukuran Output Matriks Reduksi</th>
<th>paralel dengan 2 prosesor</th>
</tr>
</thead>
<tbody>
<tr>
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<td></td>
<td>2 thread</td>
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<td>0.4252</td>
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</table>

Lampiran 14 Perbandingan overhead untuk regresi linear

<table>
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</tr>
</thead>
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<tr>
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</tr>
<tr>
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<td>0.6847</td>
</tr>
</tbody>
</table>

Lampiran 15 Perbandingan overhead untuk proses rekonstruksi

<table>
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</thead>
<tbody>
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<tr>
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<td>0.6928</td>
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<tr>
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</tr>
<tr>
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<td>0.8182</td>
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</table>
Lampiran 16 Perbandingan *overhead* untuk gabungan ketiga proses

<table>
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<tr>
<th>Ukuran Input Grid Matriks</th>
<th>Ukuran Output Matriks Reduksi</th>
<th>paralel dengan 2 prosesor 2 thread</th>
<th>3 thread</th>
<th>4 thread</th>
</tr>
</thead>
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<td>1.0151</td>
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<td>1.0325</td>
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</table>

Lampiran 17 Perbandingan nilai R² dari pengujian *k-fold cross validation* untuk grid matriks 3x3 menjadi 1

<table>
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<tr>
<th>k-fold</th>
<th>nilai R²</th>
<th>minimum</th>
<th>maksimum</th>
<th>rata-rata</th>
<th>standar deviasi</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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<td>0.0797</td>
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</tr>
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<td>0.0466</td>
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<tr>
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<td>0.1393</td>
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</tr>
<tr>
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<td>0.8821</td>
<td>0.8017</td>
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</table>

Lampiran 18 Perbandingan nilai R² dari pengujian *k-fold cross validation* untuk grid matriks 3x3 menjadi 3

<table>
<thead>
<tr>
<th>k-fold</th>
<th>nilai R²</th>
<th>minimum</th>
<th>maksimum</th>
<th>rata-rata</th>
<th>standar deviasi</th>
</tr>
</thead>
<tbody>
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<td>0.0783</td>
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<td>0.7716</td>
<td>0.0850</td>
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<tr>
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<td>0.6172</td>
<td>0.8796</td>
<td>0.7915</td>
<td>0.0647</td>
</tr>
</tbody>
</table>
Lampiran 19 Perbandingan nilai $R^2$ dari pengujian *k-fold cross validation* untuk grid matriks 3x3 menjadi 5

<table>
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<th>k-fold</th>
<th>nilai $R^2$</th>
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</thead>
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<tr>
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Lampiran 20 Perbandingan nilai $R^2$ dari pengujian *k-fold cross validation* untuk grid matriks 5x5 menjadi 1

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Lampiran 21 Perbandingan nilai $R^2$ dari pengujian *k-fold cross validation* untuk grid matriks 5x5 menjadi 3

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Lampiran 22 Perbandingan nilai $R^2$ dari pengujian *k-fold cross validation* untuk
grid matriks 5x5 menjadi 5

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Lampiran 23 Perbandingan nilai $R^2$ dari pengujian *k-fold cross validation* untuk
grid matriks 7x7 menjadi 1

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Lampiran 24 Perbandingan nilai $R^2$ dari pengujian *k-fold cross validation* untuk
grid matriks 7x7 menjadi 3

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Lampiran 25 Perbandingan nilai $R^2$ dari pengujian *k-fold cross validation* untuk grid matriks 7x7 menjadi 5

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<td>standar deviasi</td>
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