Activity 1. [Factor 1: problem size]

|  |  |
| --- | --- |
| n (103) | Time (mS) |
| 10 | 1542 |
| 20 | 6221 |
| 40 | 25170 |
| 80 | 103700 |
| 160 | 408460 |
| 320 | 1661297 |
| 640 | OoT |

Activity 2. [Factor 2: computer performance]

|  |  |  |
| --- | --- | --- |
| n (103) | Time 1 (mS) | Time 2 (mS) |
| 10 | 1542 | 1590 |
| 20 | 6221 | 6341 |
| 40 | 25170 | 26828 |
| 80 | 103700 | OoT |
| 160 | 408460 | OoT |
| 320 | 1661297 | OoT |
| 640 | OoT | OoT |

RAM 1: 16,0 GB

CPU 1: 12th Gen Intel(R) Core(TM) i5-12400

RAM 2: 8,0 GB

CPU 2: 12th Gen Intel(R) Core(TM) i5-12400

Activity 3. [Factor 3: implementation environment]

|  |  |  |
| --- | --- | --- |
| n (103) | Py A1 (mS) | Ja A1 (mS) |
| 10 | 1542 | 76 |
| 20 | 6221 | 297 |
| 40 | 25170 | 1154 |
| 80 | 103700 | 4656 |
| 160 | 408460 | 18013 |
| 320 | 1661297 | 72769 |
| 640 | OoT | 289120 |

Activity 4. [Factor 4: algorithm that is used]

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| n(103) | PyA1(mS) | PyA2(mS) | PyA3(mS) | JaA1(mS) | JaA2(mS) | JaA3(mS) | JSA1(mS) | JSA2(mS) | JSA3(mS) |
| 10 | 1542 | 179 | 88 | 76 | 10 | 5 | 314 | 37 | 20 |
| 20 | 6221 | 667 | 331 | 297 | 32 | 16 | 1231 | 131 | 69 |
| 40 | 25170 | 2520 | 1255 | 1154 | 115 | 61 | 4888 | 486 | 255 |
| 80 | 103700 | 9567 | 4755 | 4656 | 415 | 213 | 19457 | 1817 | 940 |
| 160 | 408460 | 35929 | 18005 | 18013 | 1551 | 769 | 77765 | 6781 | 3516 |
| 320 | 1661297 | OoT | 68037 | 72769 | 5812 | 2932 | OoT | 25650 | 13227 |
| 640 | OoT | OoT | OoT | 289120 | 22181 | 10999 | OoT | 96665 | 49805 |

JS is Java SIN (Without compiler)