Project 1: Problem 1

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## **Environment**

* **Processor**: Intel(R) Core(TM) i7-1065G7 CPU @ 1.30GHz 1.50 GHz
* **Number of cores**: 4개
* **RAM**: 16.0GB(15.8GB available)
* **OS**: Windows 11 (64 bit)

## **Tables and graphs**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Exec time** | **1** | **2** | **4** | **6** | **8** | **10** | **12** | **14** | **16** | **32** |
| static(block) | 7198 | 5791 | 4241 | 2911 | 2788 | 2511 | 2447 | 2352 | 2390 | 2253 |
| static(cyclic) | 7114 | 4404 | 2787 | 2669 | 2304 | 2270 | 2161 | 1885 | 1814 | 1810 |
| dynamic | 7188 | 3867 | 2308 | 1865 | 1813 | 1784 | 1778 | 1774 | 1770 | 1770 |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Performance** | **1** | **2** | **4** | **6** | **8** | **10** | **12** | **14** | **16** | **32** |
| static(block) | 0.000122579 | 0.00017 | 0.00024 | 0.00034 | 0.000359 | 0.000398 | 0.000409 | 0.000425 | 0.000418 | 0.000444 |
| static(cyclic) | 0.000133103 | 0.00023 | 0.00036 | 0.00037 | 0.000434 | 0.000441 | 0.000463 | 0.000531 | 0.000551 | 0.000552 |
| dynamic | 0.000139958 | 0.00026 | 0.00043 | 0.00054 | 0.000552 | 0.000561 | 0.000562 | 0.000564 | 0.000565 | 0.000565 |

## **Explanation / Analysis**

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## **Java source code**

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## **Screen capture image of program execution and output**

## **How to compile and execute the source code**