**ARRAY SIZE: 1,000,000**

**Load Factor: 0.75**

|  |  |
| --- | --- |
| **Java Hashing** | **Cuckoo Hashing** |
| 70 msec / 30 MB | 34 msec / 30 MB |
| 46 msec / 30 MB | 44 msec / 30 MB |
| 47 msec / 30 MB | 30 msec / 30 MB |
| 39 msec / 30 MB | 27 msec / 30 MB |
| 42 msec / 30 MB | 36 msec / 30 MB |
| 92 msec / 30 MB | 42 msec / 30 MB |
| 57 msec / 30 MB | 35 msec / 30 MB |

**Load Factor: 0.5**

|  |  |
| --- | --- |
| **Java Hashing** | **Cuckoo Hashing** |
| 41 msec / 29 MB | 29 msec / 29 MB |
| 101 msec / 30 MB | 43 msec / 30 MB |
| 89 msec / 30 MB | 34 msec / 30 MB |
| 52 msec / 30 MB | 32 msec / 30 MB |
| 47 msec / 29 MB | 28 msec / 29 MB |
| 34 msec / 30 MB | 28 msec / 29 MB |
| 65 msec / 30 MB | 52 msec / 30 MB |

**ARRAY SIZE: 10,000,000**

**Load Factor: 0.75**

|  |  |
| --- | --- |
| **Java Hashing** | **Cuckoo Hashing** |
| 213 msec / 255 MB | 120 msec / 255 MB |
| 181 msec / 254 MB | 125 msec / 256 MB |
| 181 msec / 255 MB | 121 msec / 255 MB |
| 200 msec / 255 MB | 123 msec / 255 MB |
| 193 msec / 256 MB | 124 msec / 254 MB |
| 175 msec / 255 MB | 118 msec / 255 MB |
| 206 msec / 255 MB | 122 msec / 255 MB |

**Load Factor: 0.5**

|  |  |
| --- | --- |
| **Java Hashing** | **Cuckoo Hashing** |
| 237 msec / 254 MB | 148 msec / 256 MB |
| 430 msec / 255 MB | 120 msec / 255 MB |
| 185 msec / 256 MB | 117 msec / 256 MB |
| 185 msec / 254 MB | 119 msec / 256 MB |
| 180 msec / 255 MB | 116 msec / 255 MB |
| 181 msec / 255 MB | 117 msec / 255 MB |
| 220 msec / 255 MB | 122 msec / 255 MB |

Under same load factor, Cuckoo hashing is relatively faster then Java Hashing. The space complexity is almost the same for both of the two methods.