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| --- |
| package com.company; |
|  |  |
|  | public class Main { |
|  |  |
|  | public static final int CONST = 50; |
|  | public static final int SIZE\_ARRAY = 100000000; |
|  |  |
|  | public static int[] generateArray(int size ) { |
|  | int[] array = new int[size]; |
|  | for (int i = 0; i < array.length; i++) { |
|  | array[i] = 128; |
|  | } |
|  | return array; |
|  | } |
|  |  |
|  | public static void main(String[] args) { |
|  | int[] array = generateArray(SIZE\_ARRAY); |
|  | int temp; |
|  | long startTime; |
|  | long endTime; |
|  | long checkTime=0; |
|  | long check = 0; |
|  | for (int i = 0; i < array.length; i++) { |
|  | startTime = System.currentTimeMillis(); |
|  | temp = array[i]; |
|  | temp+=CONST; |
|  | array[i]=temp; |
|  | endTime = System.currentTimeMillis(); |
|  | long timeSpent = endTime - startTime; |
|  | if(checkTime<timeSpent) { |
|  | check++; |
|  | } |
|  | checkTime=timeSpent; |
|  | } |
|  | double cacheLength = ((double)array.length/check)\*32; |
|  | System.out.println(cacheLength/(1024\*8)+" KB"); |
|  | } |
|  | } |

