# RMS and EDF Scheduler

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## 1 Use

Running the executable, Scheduler, requires 4 arguments.

Argument 1: Input file location

Argument 2: Output file location

Argument 3: Supertime duration

Argument 4: Priority Algorithm (0 for RMS, 1 for EDF)

## 2 Implementation

### 2.1 EDF and RMS algorithm

I use a functor (SchedulingAlgorithm) to represent the priority assignment of EDF and RMS.

RMS assigns priority by returning the task's period.

EDF assigns priority by returning the difference between the task's next deadline and the current time.

This deadline is based off time + (time % task -¿ period)

#### 2.2 Structures

The two structures I use are the hashmap and the priority queue.

#### 2.2.1 Hashmap

The hashmap's key is the deadline and the elements are the list of tasks that have their deadline on that key.

Using a hashmap offers O(1) access to all the tasks that need to be refreshed at a given time.

The hashing function is a multiplicative hash using Knuth's constant.

#### 2.2.2 Priority Queue

The priority queue is used to decide what task has the highest priority at any given time.

It's heapify method is a quicksort of the arrayified min-heap structure.

As such getting the minimum gives us O(nlogn): O(1) to find the root, and O(nlogn) to heapify the remaining tree.

#### 2.3 Parsing

Parsing was done to get information about the tasks being scheduled and to output misses, completions and executions of tasks.

#### 2.3.1 Input Parsing

Input parsing reads the first line jumping 8 spaces, and then removing any whitespace, to get the task count.

From there I call parseTaskLine for the number of tasks given in the first line. parseTaskLine uses strtok to get each word from the line.

#### 2.3.2 Output Parsing

Output parsing was writing to a file, either a miss message, an execution message, or a completion message.

When closing the file I also printed "Scheduling Finished".

#### 2.4 Graphics

For the graphics I'm using the glade tool which creates gtk3 widgets in C.

## 3 Scheduling Logic

#### 3.1 Misses

The first thing I check for is if any tasks have their deadline at the current time. These tasks are popped from the hashmap and then parsed one-by-one in a for loop.

If the task's progress is the same as its execution time, then it was executed successfully, and I add it back to the priority queue it was removed from after completion.

If the task' progress isn't equal to its execution time, then I parse a miss for it. A special consideration is made for the current task's execution, as it's progress won't be equal to the execution time, even if it executed, and it needs to be added back to the tpq, to get the next highest task.

#### 3.2 NULL currTask

If the currTask is NULL it's because it's deadline is during the current time, or the priority queue was empty as all the tasks had completed for the closest period.

In this case I check if the priority queue is no longer empty, and if it isn't, I pop the highest priority task to be the currTask. Otherwise, I continue back to the top of the loop, incrementing the time, since a NULL currTask can't executed or be interrupted.

#### 3.3 Execution

If the currTask has executed then I parse an execution message, set its progeess to its execution time, and pop the highest priority task from the priority queue. I do not add the currTask back to the priority queue until its period has ended.

### 3.4 Interrupt

Interrupts often mean saving the state of the currTask, but since the task doesn't do anything, all I need to do is save its progress.

After I've saved its progress, I add the task back to the priority queue and get the highest priority task from the queue that interrupted the currTask's execution.

#### 4 Performance

## 4.1 Timing using bash's time

I tested the perfomance of the scheduler, on testcase 3, using bash's time which gives the real, user and sys time.

The sys time gives us the time it took to run on the system hardware, and so we'll look at that.

The sys. time. is often at 0.00 ms even at 1,000,000 time superduration. There are anamolies, even at 100 ms, due to the computer relying on context switiching running the scheduler, but even these never peak above 0.005 ms. The full results are in the appendix under performance

The script I used is in the root folder.

## 5 Appendix

### 5.1 Task1

#### 5.2 RMS

- 2 Task1 Completes
- 2 Task2 Executes
- 5 Task1 Executes
- 7 Task2 Misses
- 7 Task1 Completes
- 7 Task2 Executes

- 10 Task1 Executes
- 12 Task1 Completes
- 12 Task2 Executes
- 13 Task2 Completes
- 14 Task2 Executes
- 15 Task1 Executes
- 17 Task1 Completes
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- 20 Task1 Executes
- 22 Task1 Completes
- 22 Task2 Executes
- 25 Task1 Executes
- 27 Task1 Completes
- 27 Task2 Executes
- 28 Task2 Completes
- 30 Task1 Executes
- 32 Task1 Completes
- 32 Task2 Executes
- 33 Task2 Completes
- 33 Task2 Executes
- 35 Task2 Misses
- 35 Task1 Executes
- 37 Task1 Completes
- 37 Task2 Executes
- 39 Task2 Completes
- 39 Task2 Executes
- 40 Task1 Executes
- 42 Task2 Misses
- 42 Task1 Completes
- 42 Task2 Executes
- 45 Task1 Executes
- 47 Task1 Completes
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- 77 Task2 Misses
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- 105 Task2 Misses
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- 994 Task2 Executes
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- 997 Task1 Completes
- 997 Task2 Executes
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- Scheduling Finishes

## 5.4 Task2

## 5.5 RMS

- 1 Task2 Completes
- 1 Task3 Executes
- 3 Task3 Completes
- 3 Task1 Executes
- 4 Task2 Executes
- 5 Task2 Completes
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- 7 Task3 Completes
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- 8 Task2 Executes
- 9 Task2 Completes
- 9 Task1 Executes
- 10 Task1 Misses
- 10 Task3 Executes
- 12 Task3 Completes
- 12 Task2 Executes
- 13 Task2 Completes
- 13 Task1 Executes
- 15 Taski Executes
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- 16 Task2 Executes
- 17 Task2 Completes
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- 13 Task2 Completes
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- 15 Task3 Misses
- 15 Task1 Completes
- 15 Task1 Executes
- 16 Task2 Executes
- 17 Task2 Completes
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- 19 Task3 Completes
- 19 Task1 Executes
- 20 Task1 Misses
- 24 Task2 Misses
- 24 Task1 Completes
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- 80 Task1 Misses
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- 120 Task1 Misses
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- 125 Task3 Misses
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- 125 Task3 Executes127 Task3 Completes
- 127 Tasks Complete
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- Scheduling Finishes

## 5.7 Task3

## 5.8 RMS

- 1 Task2 Completes
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- 3 Task3 Completes
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970 Task1 Completes 970 Task3 Executes 972 Task3 Completes 972 Task2 Executes 973 Task2 Completes 973 Task1 Executes 975 Task3 Executes 976 Task2 Executes 977 Task2 Completes 977 Task3 Executes 978 Task3 Completes 978 Task1 Executes 980 Task1 Completes 980 Task2 Executes 981 Task2 Completes 981 Task3 Executes 983 Task3 Completes 983 Task1 Executes 984 Task2 Executes 985 Task2 Completes 985 Task3 Executes 987 Task3 Completes 987 Task1 Executes 988 Task2 Executes 989 Task2 Completes 989 Task1 Executes 990 Task1 Completes 990 Task3 Executes 992 Task3 Completes 992 Task2 Executes 993 Task2 Completes 993 Task1 Executes 995 Task3 Executes 996 Task2 Executes 997 Task2 Completes 997 Task3 Executes 998 Task3 Completes 998 Task1 Executes

## 5.9 EDF

1 Task2 Completes

Scheduling Finishes

- 1 Task3 Executes
- 3 Task3 Completes
- 3 Task1 Executes

- 4 Task2 Executes
- 5 Task2 Completes
- 5 Task3 Executes
- 7 Task3 Completes
- 7 Task1 Executes
- 8 Task2 Executes
- 9 Task2 Completes
- 9 Task1 Executes
- 10 Task1 Misses
- 12 Task2 Executes
- 13 Task2 Completes
- 13 Task1 Executes
- 15 Task3 Misses
- 15 Task1 Completes
- 15 Task1 Executes
- 16 Task2 Executes
- 17 Task2 Completes
- 17 Task3 Executes
- 19 Task3 Completes
- 19 Task1 Executes
- 20 Task1 Misses
- 24 Task2 Misses
- 24 Task1 Completes
- 24 Task2 Executes
- 25 Task3 Misses
- 25 Task2 Completes
- 25 Task3 Executes
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- 27 Task1 Executes
- 28 Task2 Executes
- 29 Task2 Completes
- 29 Task1 Executes
- 30 Task1 Misses
- 32 Task2 Executes
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- 33 Task1 Executes
- 35 Task3 Misses
- 35 Task1 Completes
- 35 Task1 Executes
- 36 Task2 Executes
- 37 Task2 Completes
- 37 Task3 Executes
- 39 Task3 Completes
- 39 Task1 Executes
- 40 Task1 Misses
- 44 Task2 Misses

- 44 Task1 Completes
- 44 Task2 Executes
- 45 Task3 Misses
- 45 Task2 Completes
- 45 Task3 Executes
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- 48 Task2 Executes
- 49 Task2 Completes
- 49 Task1 Executes
- 50 Task1 Misses
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- 55 Task3 Misses
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- 64 Task2 Misses
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- 65 Task3 Misses
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- 70 Task1 Misses
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- 75 Task1 Executes
- 76 Task2 Executes
- 77 Task2 Completes
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- 79 Task1 Executes

- 80 Task1 Misses
- 84 Task2 Misses
- 84 Task1 Completes
- 84 Task2 Executes
- 85 Task3 Misses
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- 85 Task3 Executes
- 87 Task3 Completes
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- 225 Task3 Misses
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## Scheduling Finishes

## 5.10 Task4

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- 544 Task2 Misses
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- 579 Task1 Executes
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- 585 Task2 Completes
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- 595 Task1 Executes
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- 669 Task2 Completes
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- 670 Task1 Misses
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- 673 Task2 Completes
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- 675 Task3 Misses
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- 675 Task1 Executes
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- 679 Task3 Completes
- 679 Task1 Executes
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- 684 Task1 Completes
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- 685 Task3 Misses
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- 693 Task2 Completes
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- 695 Task3 Misses
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- 695 Task1 Executes
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- 697 Task3 Executes699 Task3 Completes
- 699 Task1 Executes
- 700 Task1 Misses
- 700 Taski Misses 704 Taski Misses
- 704 Task1 Completes
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- 705 Task3 Misses
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- 707 Task3 Completes
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- 708 Task2 Executes
- 709 Task2 Completes
- 709 Task1 Executes
- 710 Task1 Misses
- 712 Task2 Executes

- 713 Task2 Completes
- 713 Task1 Executes
- 715 Task3 Misses
- 715 Task1 Completes
- 715 Task1 Executes
- 716 Task2 Executes
- 717 Task2 Completes
- 717 Task3 Executes
- 719 Task3 Completes
- 719 Task1 Executes
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- 724 Task2 Misses
- 724 Task1 Completes
- 724 Task2 Executes
- 725 Task3 Misses
- 725 Task2 Completes
- 725 Task3 Executes
- 727 Task3 Completes
- 727 Task1 Executes
- 728 Task2 Executes
- 729 Task2 Completes
- 729 Task1 Executes
- 730 Task1 Misses
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- 733 Task2 Completes
- 733 Task1 Executes
- 735 Task3 Misses
- 735 Task1 Completes
- 735 Task1 Executes
- 736 Task2 Executes
- 737 Task2 Completes
- 737 Task3 Executes
- 739 Task3 Completes
- 739 Task1 Executes
- 740 Task1 Misses
- 744 Task2 Misses
- 744 Task1 Completes
- 744 Task2 Executes
- 745 Task3 Misses
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- 745 Task3 Executes
- 747 Task3 Completes
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- 749 Task2 Completes
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- 750 Task1 Misses
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- 759 Task3 Completes
- 759 Task1 Executes
- 760 Task1 Misses
- 764 Task2 Misses
- 764 Task1 Completes
- 764 Task2 Executes
- 765 Task3 Misses
- 765 Task2 Completes
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- 768 Task2 Executes
- 769 Task2 Completes
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- 780 Task1 Misses
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- 785 Task3 Misses
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- 787 Task3 Completes
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- 789 Task2 Completes
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- 790 Task1 Misses
- 792 Task2 Executes
- 793 Task2 Completes
- 793 Task1 Executes
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- 795 Task1 Completes
- 795 Task1 Executes
- 796 Task2 Executes
- 797 Task2 Completes
- 797 Task3 Executes
- 799 Task3 Completes
- 799 Task1 Executes
- 800 Task1 Misses
- 804 Task2 Misses
- 804 Task1 Completes
- 804 Task2 Executes
- 805 Task3 Misses
- 805 Task2 Completes
- 805 Task3 Executes
- 807 Task3 Completes
- 807 Task1 Executes
- 808 Task2 Executes
- 809 Task2 Completes
- 809 Task1 Executes
- 810 Task1 Misses
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- 813 Task2 Completes
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- 815 Task3 Misses
- 815 Task1 Completes
- 815 Task1 Executes
- 816 Task2 Executes
- 817 Task2 Completes
- 817 Task3 Executes
- 819 Task3 Completes
- 819 Task1 Executes
- 820 Task1 Misses
- 824 Task2 Misses
- 824 Task1 Completes
- 824 Task2 Executes
- 825 Task3 Misses
- 825 Task2 Completes
- 825 Task3 Executes
- 827 Task3 Completes

- 827 Task1 Executes
- 828 Task2 Executes
- 829 Task2 Completes
- 829 Task1 Executes
- 830 Task1 Misses
- 832 Task2 Executes
- 833 Task2 Completes
- 833 Task1 Executes
- 835 Task3 Misses
- 835 Task1 Completes
- 835 Task1 Executes
- 836 Task2 Executes
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- 837 Task3 Executes
- 839 Task3 Completes
- 839 Task1 Executes
- 840 Task1 Misses
- 844 Task2 Misses
- 844 Task1 Completes
- 844 Task2 Executes
- 845 Task3 Misses
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- 845 Task3 Executes
- 847 Task3 Completes
- 847 Task1 Executes
- 848 Task2 Executes
- 849 Task2 Completes
- 849 Task1 Executes
- 850 Task1 Misses
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- 853 Task1 Executes
- 855 Task3 Misses
- 855 Task1 Completes
- 855 Task1 Executes
- 856 Task2 Executes
- 857 Task2 Completes
- 857 Task3 Executes
- 859 Task3 Completes
- 859 Task1 Executes
- 860 Task1 Misses
- 864 Task2 Misses
- 864 Task1 Completes
- 864 Task2 Executes
- 865 Task3 Misses
- 865 Task2 Completes

- 865 Task3 Executes
- 867 Task3 Completes
- 867 Task1 Executes
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- 869 Task2 Completes
- 869 Task1 Executes
- 870 Task1 Misses
- 872 Task2 Executes
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- 873 Task1 Executes
- 875 Task3 Misses
- 875 Task1 Completes
- 875 Task1 Executes
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- 879 Task3 Completes
- 879 Task1 Executes
- 880 Task1 Misses
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- 885 Task3 Misses
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- 893 Task2 Completes
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- 897 Task2 Completes
- 897 Task3 Executes
- 899 Task3 Completes
- 899 Task1 Executes
- 900 Task1 Misses
- 904 Task2 Misses
- 904 Task1 Completes
- 904 Task2 Executes

- 905 Task3 Misses
- 905 Task2 Completes
- 905 Task3 Executes
- 907 Task3 Completes
- 907 Task1 Executes
- 908 Task2 Executes
- 909 Task2 Completes
- 909 Task1 Executes
- 910 Task1 Misses
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- 913 Task2 Completes
- 913 Task1 Executes
- 915 Task3 Misses
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- 915 Task1 Executes
- 916 Task2 Executes
- 917 Task2 Completes
- 917 Task3 Executes
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- 919 Task1 Executes
- 920 Task1 Misses
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- 924 Task1 Completes
- 924 Task2 Executes
- 925 Task3 Misses
- 925 Task2 Completes
- 925 Task3 Executes
- 927 Task3 Completes
- 927 Task1 Executes
- 928 Task2 Executes
- 929 Task2 Completes
- 929 Task1 Executes
- 930 Task1 Misses
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- 933 Task2 Completes
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- 935 Task3 Misses
- 935 Task1 Completes
- 935 Task1 Executes
- 936 Task2 Executes
- 937 Task2 Completes
- 937 Task3 Executes
- 939 Task3 Completes
- 939 Task1 Executes
- 940 Task1 Misses
- 944 Task2 Misses

- 944 Task1 Completes
- 944 Task2 Executes
- 945 Task3 Misses
- 945 Task2 Completes
- 945 Task3 Executes
- 947 Task3 Completes
- 947 Task1 Executes
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- 949 Task2 Completes
- 949 Task1 Executes
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- 953 Task2 Completes
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- 955 Task3 Misses
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- 956 Task2 Executes
- 957 Task2 Completes
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- 959 Task3 Completes
- 959 Task1 Executes
- 960 Task1 Misses
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- 964 Task1 Completes
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- 969 Task1 Executes
- 970 Task1 Misses
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- 973 Task2 Completes
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- 975 Task3 Misses
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- 975 Task1 Executes
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- 979 Task3 Completes
- 979 Task1 Executes

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980 Task1 Misses
984 Task2 Misses
984 Task1 Completes
984 Task2 Executes
985 Task3 Misses
985 Task2 Completes
985 Task3 Executes
987 Task3 Completes
987 Task1 Executes
988 Task2 Executes
989 Task2 Completes
989 Task1 Executes
990 Task1 Misses
992 Task2 Executes
993 Task2 Completes
993 Task1 Executes
995 Task3 Misses
995 Task1 Completes
995 Task1 Executes
996 Task2 Executes
997 Task2 Completes
997 Task3 Executes
999 Task3 Completes
999 Task1 Executes
Scheduling Finishes
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## 5.13 Performance

100

 $sys \hspace{1cm} 0m0.001\,s$ 

100

 $\mathrm{sys} \qquad 0\mathrm{m}0.004\,\mathrm{s}$ 

100

 $\mathrm{sys} \qquad 0\mathrm{m}0.003\,\mathrm{s}$ 

200

sys 0m0.000s

sys	$0\mathrm{m}0.002\mathrm{s}$
200	
sys	$0\mathrm{m}0.003\mathrm{s}$
300	
sys	$0\mathrm{m}0.000\mathrm{s}$
300	
sys	$0\mathrm{m}0.000\mathrm{s}$
300	
sys	$0\mathrm{m}0.000\mathrm{s}$
400	
sys	$0\mathrm{m}0.000\mathrm{s}$
400	
sys	$0\mathrm{m}0.000\mathrm{s}$
400	
sys	$0\mathrm{m}0.000\mathrm{s}$
500	
sys	$0\mathrm{m}0.000\mathrm{s}$
500	
sys	$0\mathrm{m}0.000\mathrm{s}$
500	
sys	$0\mathrm{m}0.000\mathrm{s}$
600	
sys	$0\mathrm{m}0.001\mathrm{s}$

600  $0\mathrm{m}0.000\,\mathrm{s}$ sys600 $0\mathrm{m}0.001\,\mathrm{s}$ sys700  $0\mathrm{m}0.000\,\mathrm{s}$ sys700  $0\mathrm{m}0.000\,\mathrm{s}$ sys700  $0\mathrm{m}0.000\,\mathrm{s}$ sys800  $0\mathrm{m}0.000\,\mathrm{s}$ sys800sys $0\mathrm{m}0.000\,\mathrm{s}$ 800  $0\mathrm{m}0.000\,\mathrm{s}$ sys900  $0\mathrm{m}0.000\,\mathrm{s}$ sys900  $0\mathrm{m}0.000\,\mathrm{s}$ sys900  $0\mathrm{m}0.000\,\mathrm{s}$ sys

 $0\mathrm{m}0.000\,\mathrm{s}$ sys1000  $0\mathrm{m}0.001\,\mathrm{s}$ sys1000  $0\mathrm{m}0.000\,\mathrm{s}$ sys1100  $0\mathrm{m}0.001\,\mathrm{s}$ sys1100 sys $0\mathrm{m}0.000\,\mathrm{s}$ 1100  $0\mathrm{m}0.000\,\mathrm{s}$ sys1200  $0\mathrm{m}0.000\,\mathrm{s}$ sys1200 $0\mathrm{m}0.000\,\mathrm{s}$ sys1200 sys $0\mathrm{m}0.000\,\mathrm{s}$ 1300 $0\mathrm{m}0.000\,\mathrm{s}$ sys

1300

sys

1300

sys

 $0\mathrm{m}0.000\,\mathrm{s}$ 

 $0\mathrm{m}0.000\,\mathrm{s}$ 

 $\mathrm{sys} \qquad 0\mathrm{m}0.001\,\mathrm{s}$ 

1400

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

1400

 $sys \qquad \quad 0m0.001\,s$ 

1500

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

1500

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

1500

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

1600

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

1600

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

1600

 $sys \qquad \quad 0m0.001\,s$ 

1700

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

1700

 $\mathrm{sys} \qquad 0\mathrm{m}0.001\,\mathrm{s}$ 

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

1800

 $\mathrm{sys} \qquad 0\mathrm{m}0.001\,\mathrm{s}$ 

1800

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

1800

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

1900

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

1900

 $sys \hspace{1cm} 0m0.000\,s$ 

1900

 $\mathrm{sys} \qquad 0\mathrm{m}0.001\,\mathrm{s}$ 

2000

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

2000

 $\mathrm{sys} \qquad 0\mathrm{m}0.001\,\mathrm{s}$ 

2000

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

2100

 $\mathrm{sys} \qquad 0\mathrm{m}0.001\,\mathrm{s}$ 

2100

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

 $\mathrm{sys} \qquad 0\mathrm{m}0.001\,\mathrm{s}$ 

2200

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

2200

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

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 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

2300

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

2300

 $\mathrm{sys} \qquad 0\mathrm{m}0.001\,\mathrm{s}$ 

2300

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

2400

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

2400

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

2400

 $\mathrm{sys} \qquad 0\mathrm{m}0.001\,\mathrm{s}$ 

2500

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

 $0\mathrm{m}0.000\,\mathrm{s}$ sys2500 $0\mathrm{m}0.000\,\mathrm{s}$ sys2600  $0\mathrm{m}0.000\,\mathrm{s}$ sys2600 $0\mathrm{m}0.000\,\mathrm{s}$ sys2600sys $0\mathrm{m}0.000\,\mathrm{s}$ 2700  $0\mathrm{m}0.000\,\mathrm{s}$ sys2700  $0\mathrm{m}0.000\,\mathrm{s}$ sys2700 $0\mathrm{m}0.001\,\mathrm{s}$ sys2800 sys $0\mathrm{m}0.000\,\mathrm{s}$ 2800 sys $0\mathrm{m}0.000\,\mathrm{s}$ 2800  $0\mathrm{m}0.000\,\mathrm{s}$ sys2900

 $0\mathrm{m}0.000\,\mathrm{s}$ 

sys

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

2900

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

3000

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

3000

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

3000

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

3100

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

3100

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

3100

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

3200

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

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 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

3200

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

3300  $0\mathrm{m}0.000\,\mathrm{s}$ sys3300  $0\mathrm{m}0.001\,\mathrm{s}$ sys3400  $0\mathrm{m}0.000\,\mathrm{s}$ sys3400 sys $0\mathrm{m}0.001\,\mathrm{s}$ 3400  $0\mathrm{m}0.000\,\mathrm{s}$ sys3500  $0\mathrm{m}0.000\,\mathrm{s}$ sys3500  $0\mathrm{m}0.000\,\mathrm{s}$ sys

 $0\mathrm{m}0.001\,\mathrm{s}$ 

sys

 $sys \hspace{1cm} 0m0.000\,s$ 

 $0\mathrm{m}0.000\,\mathrm{s}$ 

3600

3500

sys

3600

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

3600

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

3700

 $\mathrm{sys} \qquad 0\mathrm{m}0.001\,\mathrm{s}$ 

3700

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

3800

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 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

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 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

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 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

3900

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

4000

 $\mathrm{sys} \qquad 0\mathrm{m}0.001\,\mathrm{s}$ 

4000

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

sys	$0\mathrm{m}0.000\mathrm{s}$
4100	
sys	$0\mathrm{m}0.000\mathrm{s}$
4100	
sys	$0\mathrm{m}0.000\mathrm{s}$
4100	
sys	$0\mathrm{m}0.000\mathrm{s}$
4200	
sys	$0\mathrm{m}0.000\mathrm{s}$
4200	
sys	$0\mathrm{m}0.001\mathrm{s}$
4200	
sys	0 m 0.000  s
4300	
sys	0 m 0.000  s
4300	
sys	0 m 0.000  s
4300	
sys	$0\mathrm{m}0.002\mathrm{s}$
4400	
sys	0 m 0.000  s
4400	

 $0\mathrm{m}0.001\,\mathrm{s}$ 

sys

4400  $0\mathrm{m}0.000\,\mathrm{s}$ sys4500sys $0\mathrm{m}0.000\,\mathrm{s}$ 4500 $0\mathrm{m}0.000\,\mathrm{s}$ sys4500 $0\mathrm{m}0.000\,\mathrm{s}$ sys4600  $0\mathrm{m}0.000\,\mathrm{s}$ sys4600 $0\mathrm{m}0.000\,\mathrm{s}$ sys4600sys $0\mathrm{m}0.001\,\mathrm{s}$ 4700  $0\mathrm{m}0.000\,\mathrm{s}$ sys4700 $0\mathrm{m}0.000\,\mathrm{s}$ sys

4700

sys

4800

sys

4800

 $0\mathrm{m}0.000\,\mathrm{s}$ 

 $0\mathrm{m}0.000\,\mathrm{s}$ 

 $0\mathrm{m}0.000\,\mathrm{s}$ sys4800 $0\mathrm{m}0.000\,\mathrm{s}$ sys4900  $0\mathrm{m}0.000\,\mathrm{s}$ sys4900  $0\mathrm{m}0.000\,\mathrm{s}$ sys4900 sys $0\mathrm{m}0.000\,\mathrm{s}$ 5000  $0\mathrm{m}0.000\,\mathrm{s}$ sys5000  $0\mathrm{m}0.001\,\mathrm{s}$ sys5000 $0\mathrm{m}0.000\,\mathrm{s}$ sys5100 sys $0\mathrm{m}0.001\,\mathrm{s}$ 5100sys $0\mathrm{m}0.000\,\mathrm{s}$ 5100  $0\mathrm{m}0.000\,\mathrm{s}$ sys5200

 $0\mathrm{m}0.000\,\mathrm{s}$ 

sys

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

5200

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

5300

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

5300

 $sys \qquad \quad 0m0.001\,s$ 

5300

 $sys \hspace{1cm} 0m0.000\,s$ 

5400

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

5400

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

5400

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

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 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

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 $\mathrm{sys} \qquad 0\mathrm{m}0.001\,\mathrm{s}$ 

5500

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

 $0\mathrm{m}0.001\,\mathrm{s}$ sys5600 $0\mathrm{m}0.000\,\mathrm{s}$ sys5600 $0\mathrm{m}0.000\,\mathrm{s}$ sys5700 $0\mathrm{m}0.000\,\mathrm{s}$ sys5700sys $0\mathrm{m}0.000\,\mathrm{s}$ 5700  $0\mathrm{m}0.000\,\mathrm{s}$ sys5800  $0\mathrm{m}0.001\,\mathrm{s}$ sys5800 $0\mathrm{m}0.000\,\mathrm{s}$ sys5800 sys $0\mathrm{m}0.000\,\mathrm{s}$ 5900

sys

5900

sys

5900

sys

 $0\mathrm{m}0.000\,\mathrm{s}$ 

 $0\mathrm{m}0.000\,\mathrm{s}$ 

 $0\mathrm{m}0.001\,\mathrm{s}$ 

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

6000

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

6000

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

6100

 $sys \qquad \quad 0m0.001\,s$ 

6100

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

6100

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

6200

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

6200

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

6200

 $sys \qquad \quad 0m0.001\,s$ 

6300

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

6300

 $\mathrm{sys} \qquad 0\mathrm{m}0.001\,\mathrm{s}$ 

 $0\mathrm{m}0.000\,\mathrm{s}$ sys6400 $0\mathrm{m}0.001\,\mathrm{s}$ sys6400 $0\mathrm{m}0.000\,\mathrm{s}$ sys6400 $0\mathrm{m}0.000\,\mathrm{s}$ sys6500sys $0\mathrm{m}0.000\,\mathrm{s}$ 6500 $0\mathrm{m}0.000\,\mathrm{s}$ sys6500 $0\mathrm{m}0.001\,\mathrm{s}$ sys6600  $0\mathrm{m}0.000\,\mathrm{s}$ sys6600 sys $0\mathrm{m}0.001\,\mathrm{s}$ 6600  $0\mathrm{m}0.000\,\mathrm{s}$ sys6700  $0\mathrm{m}0.001\,\mathrm{s}$ sys

6700

sys

 $0\mathrm{m}0.000\,\mathrm{s}$ 

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

6800

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

6800

 $sys \qquad \quad 0m0.001\,s$ 

6800

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

6900

 $\mathrm{sys} \qquad 0\mathrm{m}0.001\,\mathrm{s}$ 

6900

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

6900

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

7000

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

7000

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

7000

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

7100

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

 $0\mathrm{m}0.001\,\mathrm{s}$ sys7100 $0\mathrm{m}0.000\,\mathrm{s}$ sys7200 $0 \mathrm{m} 0.000 \, \mathrm{s}$ sys7200 $0\mathrm{m}0.000\,\mathrm{s}$ sys7200sys $0\mathrm{m}0.001\,\mathrm{s}$ 7300  $0\mathrm{m}0.000\,\mathrm{s}$ sys7300  $0\mathrm{m}0.001\,\mathrm{s}$ sys7300 $0\mathrm{m}0.000\,\mathrm{s}$ sys7400 sys $0\mathrm{m}0.001\,\mathrm{s}$ 7400sys $0\mathrm{m}0.000\,\mathrm{s}$ 7400sys $0\mathrm{m}0.001\,\mathrm{s}$ 7500

 $0\mathrm{m}0.000\,\mathrm{s}$ 

sys

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

7500

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

7600

 $sys \qquad \quad 0m0.001\,s$ 

7600

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

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 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

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 $\mathrm{sys} \qquad 0\mathrm{m}0.002\,\mathrm{s}$ 

7700

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

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 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

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 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

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 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

7900

 $\mathrm{sys} \qquad 0\mathrm{m}0.001\,\mathrm{s}$ 

8000

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

8000

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

8000

 $sys \hspace{1cm} 0m0.000\,s$ 

8100

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

8100

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

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 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

8200

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8300

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 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

8400

 $sys \qquad \quad 0m0.001\,s$ 

8400

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

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 $sys \hspace{1cm} 0m0.000\,s$ 

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9000

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 $\mathrm{sys} \qquad 0\mathrm{m}0.001\,\mathrm{s}$ 

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 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

9900

 $sys \qquad \quad 0m0.001\,s$ 

9900

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

9900

 $sys \hspace{1cm} 0m0.000\,s$ 

10000

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

10000

 $\mathrm{sys} \qquad 0\mathrm{m}0.001\,\mathrm{s}$ 

10000

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

10100

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 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

10300

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

10300

 $\mathrm{sys} \qquad 0\mathrm{m}0.002\,\mathrm{s}$ 

10300

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

10400

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

10400

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

10400

 $sys \qquad \quad 0m0.001\,s$ 

10500

 $\mathrm{sys} \qquad \quad 0\mathrm{m}0.000\,\mathrm{s}$ 

10500

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

10500

 $sys \hspace{1cm} 0m0.000\,s$ 

10600

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

10600

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

10700

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

10700

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

10700

sys 0m0.001s

10800

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

10800

 $\mathrm{sys} \qquad 0\mathrm{m}0.001\,\mathrm{s}$ 

10800

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

10900

 $\mathrm{sys} \qquad 0\mathrm{m}0.001\,\mathrm{s}$ 

10900

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

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 $\mathrm{sys} \qquad 0\mathrm{m}0.001\,\mathrm{s}$ 

11100

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

11200

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

11200

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

11200

 $\mathrm{sys} \qquad \quad 0\mathrm{m}0.000\,\mathrm{s}$ 

11300

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

11300

 $sys \hspace{1cm} 0m0.000\,s$ 

11400

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

11400

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

11400

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

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 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

11600

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

11600

 $sys \qquad \quad 0m0.001\,s$ 

11600

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

11700

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

11700

 $\mathrm{sys} \qquad 0\mathrm{m}0.001\,\mathrm{s}$ 

11800

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

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 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

11800

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

11900

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

11900

 $\mathrm{sys} \qquad 0\mathrm{m}0.002\,\mathrm{s}$ 

11900

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

12000

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

12000

 $\mathrm{sys} \qquad \quad 0\mathrm{m}0.000\,\mathrm{s}$ 

12000

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

12100

 $\mathrm{sys} \qquad 0\mathrm{m}0.000\,\mathrm{s}$ 

12100

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 $sys \qquad \quad 0m0.001\,s$ 

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