

Task 2 Average CPU Time for Random Permutation

The chart displays the average CPU time in microseconds for six sorting algorithms across eight different input sizes. The Y-axis is logarithmic, ranging from 10 to 10,000,000 microseconds. The X-axis shows the number of integers: 100, 300, 500, 1000, 3000, 5000, 10000, and 50000. The legend identifies the algorithms: Bubble Sort (blue), Selection Sort (red), Insertion Sort (yellow), Merge Sort (green), Quick Sort (orange), and Heap Sort (teal).

Number of Integers	Bubble Sort	Selection Sort	Insertion Sort	Merge Sort	Quick Sort	Heap Sort
100	10	10	10	10	10	10
300	100	100	100	100	100	100
500	1000	1000	1000	1000	1000	1000
1000	10000	10000	10000	10000	10000	10000
3000	100000	100000	100000	100000	100000	100000
5000	1000000	1000000	1000000	1000000	1000000	1000000
10000	10000000	10000000	10000000	10000000	10000000	10000000
50000	100000000	100000000	100000000	100000000	100000000	100000000

