

IF3230 Sistem Paralel dan Terdistribusi

Laporan Praktikum 3: Bucket Sort menggunakan OpenMP

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Perbandingan waktu algoritma bucket sort

catatan: algoritma pengurutan menggunakan insertion sort.

Compile program dengan perintah berikut.

```
gcc -g -Wall -o bucketsort bucketsort.c -fopenmp
```

Run program dengan perintah berikut.

```
./bucketsort <jumlah_thread> <jumlah_elemen>
```

N = 50000	M = 1	t = 3750ms
	M = 8	t = 580ms
	M = 16	t = 430ms
	M = 32	t = 390ms
	M = 64	t = 800ms
	M = 128	t = 120ms
N = 100000	M = 1	t = 15000ms
	M = 8	t = 1710ms
	M = 16	t = 1560ms
	M = 32	t = 1160ms
	M = 64	t = 1280ms
	M = 128	t = 300ms
N = 200000	M = 1	t = 57670ms
	M = 8	t = 7360ms
	M = 16	t = 3270ms
	M = 32	t = 2580ms
	M = 64	t = 2510ms
	M = 128	t = 1860ms

N = 400000	M = 1	t = 229910ms
	M = 8	t = 29080ms
	M = 16	t = 16440ms
	M = 32	t = 10130ms
	M = 64	t = 10230ms
	M = 128	t = 4530ms