

Figure 1. Execution time of task with various weights

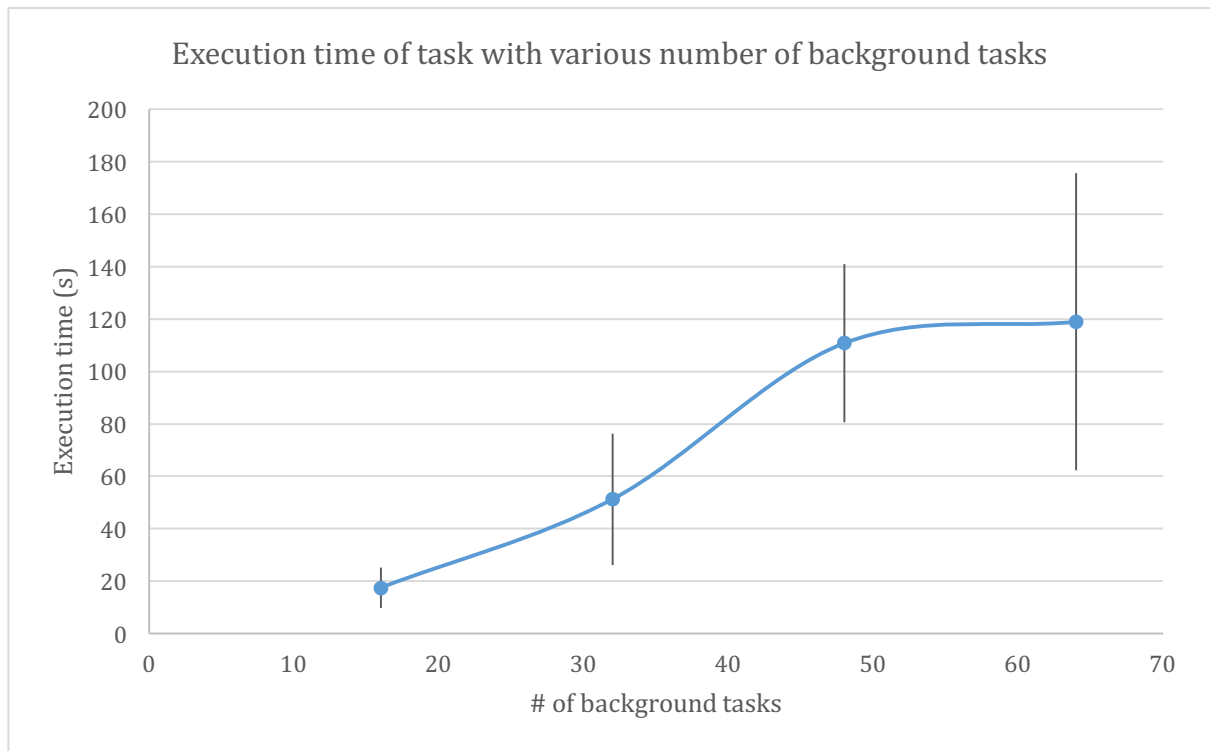


Figure 2. Execution time of task with various number of background tasks

Table 1. Execution time of task with various weights

WEIGHT	EXECUTION TIME (S)					
	trial 1	trial 2	trial 3	trial 4	trial 5	average
20	15.315	21.363	25.285	11.609	11.843	17.083
19	22.461	26.719	33.086	20.617	10.970	22.770
18	28.575	20.764	37.754	25.244	19.727	26.412
17	30.741	35.569	41.152	18.584	31.656	31.540
16	21.171	37.703	21.178	19.929	39.318	27.860
15	26.468	39.712	23.943	19.465	43.482	30.614
14	19.098	42.848	20.879	20.079	31.309	26.843
13	19.687	46.490	24.492	21.388	34.456	29.302
12	18.892	31.229	26.966	21.966	45.332	28.877
11	18.999	32.112	18.773	20.622	49.996	28.101
10	18.945	64.787	18.266	20.741	56.510	35.850
9	19.162	33.202	19.232	20.782	40.885	26.653
8	19.565	36.452	67.711	21.065	30.832	35.125
7	44.990	80.572	73.237	20.954	35.292	51.009
6	50.000	56.892	38.798	21.300	83.805	50.159
5	93.063	51.003	57.054	45.628	95.170	68.384
4	65.397	126.762	66.666	75.477	52.891	77.438
3	144.407	163.373	145.645	76.448	19.890	109.953
2	94.839	230.604	99.329	110.712	22.555	111.608
1	393.798	440.802	205.023	182.285	20.694	248.520

Table 2. Execution time of task with various number of background tasks

BACKGROUND TASKS #	EXECUTION TIME (S)					
	trial 1	trial 2	trial 3	trial 4	trial 5	average
16	28.129	17.755	17.431	17.435	6.441	17.438
32	34.999	26.460	79.550	77.072	38.070	51.231
48	125.944	111.956	129.671	128.231	58.289	110.818
64	68.811	166.911	113.986	59.550	185.750	119.002