Съдържание

Този документ е допълнение към „Статично и динамично балансиране при паралелно трасиране на лъчи“ изготвено от Денислав Манахов

1. Резултати при първа сцена:

1.1. Статично балансиране

Lenovo Yoga Pro 7 14APH8 / Ryzen 7 7840HS / 16GB RAM

#	p	g	Tp(1)	Tp(2)	Tp(3)	Tp = min()	Sp = T1/Tp	Ep = Sp/p
1	1	1	88.124	87.528	87.481	87.481	1.000	1.000
2	2	1	85.695	85.360	85.764	85.360	1.025	0.512
3	4	1	27.068	29.383	30.581	27.068	3.232	0.808
4	8	1	59.036	58.462	58.202	58.202	1.503	0.188
5	12	1	42.550	42.179	41.193	41.193	2.124	0.177
6	16	1	19.540	18.769	18.561	18.561	4.713	0.295
7	1	4	89.067	88.325	87.747	87.747	1.000	1.000
8	2	4	72.564	72.381	72.642	72.381	1.212	0.606
9	4	4	38.153	37.160	36.323	36.323	2.416	0.604
10	8	4	26.847	26.078	25.284	25.284	3.470	0.434
11	12	4	26.867	26.150	25.184	25.184	3.484	0.290
12	16	4	20.387	19.392	18.891	18.891	4.645	0.290
13	1	16	86.646	85.917	85.503	85.503	1.000	1.000
14	2	16	51.043	50.763	50.521	50.521	1.692	0.846
15	4	16	36.572	35.619	35.540	35.540	2.406	0.601
16	8	16	21.510	20.687	20.781	20.687	4.133	0.517
17	12	16	15.034	14.124	13.206	13.206	6.475	0.540
18	16	16	17.906	17.156	16.823	16.823	5.083	0.318
19	1	32	86.606	86.115	85.360	85.360	1.000	1.000
20	2	32	50.667	50.134	49.651	49.651	1.719	0.860
21	4	32	32.318	32.263	31.683	31.683	2.694	0.674
22	8	32	18.401	18.340	17.345	17.345	4.921	0.615
23	12	32	14.557	14.238	14.166	14.166	6.026	0.502
24	16	32	14.476	14.717	13.967	13.967	6.111	0.382
25	1	48	86.639	86.278	85.573	85.573	1.000	1.000
26	2	48	44.718	43.983	43.027	43.027	1.989	0.994
27	4	48	26.100	26.427	25.534	25.534	3.351	0.838
28	8	48	13.947	13.239	13.504	13.239	6.464	0.808
29	12	48	16.827	15.911	15.476	15.476	5.530	0.461
30	16	48	13.068	13.052	12.222	12.222	7.001	0.438

Lenovo ThinkPad P1 G5 / Intel Core i9-12900H / 64GB RAM

#	p	g	Tp(1)	Tp(2)	Tp(3)	Tp = min()	Sp = T1/Tp	Ep = Sp/p
1	1	1	78.919	79.442	78.492	78.492	1.000	1.000
2	2	1	71.300	70.472	70.249	70.249	1.117	0.559
3	4	1	26.099	25.415	24.690	24.690	3.179	0.795
4	8	1	54.119	53.839	53.030	53.030	1.480	0.185
5	12	1	39.577	39.158	39.833	39.158	2.004	0.167
6	16	1	18.043	17.645	16.883	16.883	4.649	0.291
7	20	1	32.541	32.747	32.232	32.232	2.435	0.122
8	1	4	78.590	77.895	77.658	77.658	1.000	1.000
9	2	4	65.924	65.761	65.659	65.659	1.183	0.591
10	4	4	34.670	33.943	33.881	33.881	2.292	0.573
11	8	4	25.370	24.819	24.286	24.286	3.198	0.400
12	12	4	25.444	26.011	25.452	25.444	3.052	0.254
13	16	4	18.769	18.691	17.777	17.777	4.368	0.273
14	20	4	17.729	17.393	16.958	16.958	4.579	0.229
15	1	16	78.513	77.530	77.539	77.530	1.000	1.000
16	2	16	46.796	47.159	46.553	46.553	1.665	0.833
17	4	16	33.454	34.313	33.637	33.454	2.317	0.579
18	8	16	19.841	19.773	19.100	19.100	4.059	0.507
19	12	16	14.195	13.300	12.575	12.575	6.165	0.514
20	16	16	16.901	16.292	15.765	15.765	4.918	0.307
21	20	16	13.095	12.260	11.703	11.703	6.625	0.331
22	1	32	78.538	77.925	77.059	77.059	1.000	1.000
23	2	32	40.650	40.375	40.244	40.244	1.915	0.957
24	4	32	32.806	32.772	32.206	32.206	2.393	0.598
25	8	32	19.103	18.761	17.866	17.866	4.313	0.539
26	12	32	13.477	13.295	12.850	12.850	5.997	0.500
27	16	32	11.894	11.649	10.952	10.952	7.036	0.440
28	20	32	11.429	11.405	11.301	11.301	6.818	0.341
29	1	48	78.540	79.434	78.594	78.540	1.000	1.000
30	2	48	41.261	40.558	39.941	39.941	1.966	0.983
31	4	48	23.392	23.325	22.797	22.797	3.445	0.861
32	8	48	15.019	14.385	13.712	13.712	5.728	0.716
33	12	48	16.103	15.664	15.478	15.478	5.074	0.423
34	16	48	12.955	12.627	12.159	12.159	6.459	0.404
35	20	48	13.639	13.597	13.171	13.171	5.963	0.298

1.2. Динамично балансиране

Lenovo Yoga Pro 7 14APH8 / Ryzen 7 7840HS / 16GB RAM

#	p	g	Tp(1)	Tp(2)	Tp(3)	Tp = min()	Sp = T1/Tp	Ep = Sp/p
1	1	1	85.137	84.151	83.315	83.315	1.000	1.000
2	2	1	64.928	64.024	64.334	64.024	1.301	0.651
3	4	1	35.275	34.746	34.435	34.435	2.419	0.605
4	8	1	60.929	60.087	59.129	59.129	1.409	0.176
5	12	1	43.440	43.431	42.534	42.534	1.959	0.163
6	16	1	19.063	18.402	19.296	18.402	4.528	0.283
7	1	4	85.434	86.047	85.301	85.301	1.000	1.000
8	2	4	72.147	71.470	71.101	71.101	1.200	0.600
9	4	4	24.907	23.999	23.489	23.489	3.632	0.908
10	8	4	27.396	26.668	26.465	26.465	3.223	0.403
11	12	4	27.332	27.234	27.234	27.234	3.132	0.261
12	16	4	19.934	19.337	18.402	18.402	4.635	0.290
13	1	16	86.888	86.208	85.810	85.810	1.000	1.000
14	2	16	52.118	51.852	51.038	51.038	1.681	0.841
15	4	16	24.033	23.610	23.601	23.601	3.636	0.909
16	8	16	16.706	15.724	15.339	15.339	5.594	0.699
17	12	16	14.041	14.016	13.264	13.264	6.469	0.539
18	16	16	12.694	12.243	12.939	12.243	7.009	0.438
19	1	32	85.147	85.677	86.594	85.147	1.000	1.000
20	2	32	44.176	43.664	43.119	43.119	1.975	0.987
21	4	32	27.010	26.868	26.220	26.220	3.247	0.812
22	8	32	15.183	14.205	14.101	14.101	6.038	0.755
23	12	32	13.425	12.744	13.687	12.744	6.681	0.557
24	16	32	12.480	12.179	11.626	11.626	7.324	0.458
25	1	48	85.940	85.820	86.055	85.820	1.000	1.000
26	2	48	45.523	46.212	45.534	45.523	1.885	0.943
27	4	48	24.599	23.784	23.543	23.543	3.645	0.911
28	8	48	14.905	14.285	13.475	13.475	6.369	0.796
29	12	48	12.805	13.361	12.766	12.766	6.722	0.560
30	16	48	12.299	11.542	12.385	11.542	7.436	0.465

Lenovo ThinkPad P1 G5 / Intel Core i9-12900H / 64GB RAM

#	p	g	Tp(1)	Tp(2)	Tp(3)	Tp = min()	Sp = T1/Tp	Ep = Sp/p
1	1	1	77.964	77.124	76.161	76.161	1.000	1.000
2	2	1	59.500	58.562	58.221	58.221	1.308	0.654
3	4	1	25.223	24.972	24.837	24.837	3.066	0.767
4	8	1	56.090	55.557	56.540	55.557	1.371	0.171
5	12	1	39.852	39.433	39.237	39.237	1.941	0.162
6	16	1	17.862	17.163	16.291	16.291	4.675	0.292
7	20	1	33.335	32.898	32.113	32.113	2.372	0.119
8	1	4	79.574	78.906	78.808	78.808	1.000	1.000
9	2	4	65.937	65.665	65.048	65.048	1.212	0.606
10	4	4	22.944	22.264	21.802	21.802	3.615	0.904
11	8	4	25.208	25.021	24.354	24.354	3.236	0.404
12	12	4	25.838	25.643	25.125	25.125	3.137	0.261
13	16	4	18.210	17.790	17.751	17.751	4.440	0.277
14	20	4	17.830	17.693	16.898	16.898	4.664	0.233
15	1	16	77.987	77.474	76.528	76.528	1.000	1.000
16	2	16	45.834	45.452	44.722	44.722	1.711	0.856
17	4	16	22.822	21.904	21.291	21.291	3.594	0.899
18	8	16	16.906	16.285	15.535	15.535	4.926	0.616
19	12	16	13.153	12.396	11.844	11.844	6.461	0.538
20	16	16	12.208	11.701	11.088	11.088	6.902	0.431
21	20	16	11.498	10.650	9.737	9.737	7.860	0.393
22	1	32	77.858	78.400	77.717	77.717	1.000	1.000
23	2	32	40.982	40.222	40.172	40.172	1.935	0.967
24	4	32	25.253	25.192	24.601	24.601	3.159	0.790
25	8	32	16.788	16.737	16.961	16.737	4.644	0.580
26	12	32	13.107	12.262	11.548	11.548	6.730	0.561
27	16	32	11.803	11.644	10.919	10.919	7.117	0.445
28	20	32	11.267	10.822	9.828	9.828	7.907	0.395
29	1	48	77.971	77.600	76.799	76.799	1.000	1.000
30	2	48	40.883	40.388	39.834	39.834	1.928	0.964
31	4	48	22.784	21.813	21.435	21.435	3.583	0.896
32	8	48	16.117	16.451	15.960	15.960	4.812	0.601
33	12	48	12.696	12.895	12.253	12.253	6.268	0.522
34	16	48	11.731	11.177	10.410	10.410	7.378	0.461
35	20	48	11.926	11.425	12.382	11.425	6.722	0.336

2. Резултати при втора сцена

2.1. Статично балансиране

Lenovo Yoga Pro 7 14APH8 / Ryzen 7 7840HS / 16GB RAM

#	p	g	Tp(1)	Tp(2)	Tp(3)	Tp = min()	Sp = T1/Tp	Ep = Sp/p
1	1	1	100.704	99.711	99.300	99.300	1.000	1.000
2	2	1	73.934	73.324	73.205	73.205	1.356	0.678
3	4	1	61.806	60.903	61.313	60.903	1.630	0.408
4	8	1	65.536	65.260	64.994	64.994	1.528	0.191
5	12	1	45.776	45.428	45.180	45.180	2.198	0.183
6	16	1	36.086	35.247	34.500	34.500	2.878	0.180
7	1	4	103.855	103.485	104.452	103.485	1.000	1.000
8	2	4	78.317	78.502	78.309	78.309	1.321	0.661
9	4	4	37.332	37.182	36.603	36.603	2.827	0.707
10	8	4	43.038	42.112	42.054	42.054	2.461	0.308
11	12	4	25.978	25.257	25.134	25.134	4.117	0.343
12	16	4	18.889	18.455	19.241	18.455	5.607	0.350
13	1	16	99.353	98.873	98.633	98.633	1.000	1.000
14	2	16	57.079	56.563	55.847	55.847	1.766	0.883
15	4	16	33.585	33.216	32.362	32.362	3.048	0.762
16	8	16	30.359	29.388	28.552	28.552	3.454	0.432
17	12	16	17.371	16.940	16.636	16.636	5.929	0.494
18	16	16	15.537	14.765	14.636	14.636	6.739	0.421
19	1	32	108.023	107.134	106.386	106.386	1.000	1.000
20	2	32	51.926	51.432	50.939	50.939	2.088	1.044
21	4	32	30.291	31.199	30.376	30.291	3.512	0.878
22	8	32	16.911	17.120	16.855	16.855	6.312	0.789
23	12	32	15.640	15.019	14.831	14.831	7.173	0.598
24	16	32	15.529	15.499	14.527	14.527	7.323	0.458
25	1	48	100.358	100.112	99.730	99.730	1.000	1.000
26	2	48	56.390	55.869	55.134	55.134	1.809	0.904
27	4	48	29.582	29.255	29.024	29.024	3.436	0.859
28	8	48	17.752	17.495	16.752	16.752	5.953	0.744
29	12	48	15.831	15.235	14.709	14.709	6.780	0.565
30	16	48	14.314	13.975	13.969	13.969	7.139	0.446

Lenovo ThinkPad P1 G5 / Intel Core i9-12900H / 64GB RAM

#	p	g	Tp(1)	Tp(2)	Tp(3)	Tp = min()	Sp = T1/Tp	Ep = Sp/p
1	1	1	86.674	85.951	85.336	85.336	1.000	1.000
2	2	1	63.8033	63.368	63.071	63.071	1.353	0.677
3	4	1	38.319	38.296	37.762	37.762	2.260	0.565
4	8	1	57.399	56.823	56.434	56.434	1.512	0.189
5	12	1	40.176	39.378	39.231	39.231	2.175	0.181
6	16	1	32.272	32.038	31.276	31.276	2.728	0.171
7	20	1	32.881	32.323	32.991	32.323	2.640	0.132
8	1	4	86.567	85.821	85.006	85.006	1.000	1.000
9	2	4	62.862	62.467	62.455	62.455	1.361	0.681
10	4	4	32.789	32.822	32.511	32.511	2.615	0.654
11	8	4	38.053	37.618	37.837	37.618	2.260	0.282
12	12	4	23.968	23.876	24.024	23.876	3.560	0.297
13	16	4	22.210	21.970	21.951	21.951	3.872	0.242
14	20	4	16.704	17.525	16.804	16.704	5.089	0.254
15	1	16	86.206	85.538	85.486	85.486	1.000	1.000
16	2	16	47.830	47.021	46.672	46.672	1.832	0.916
17	4	16	29.251	29.175	29.061	29.061	2.942	0.735
18	8	16	23.376	23.307	22.926	22.926	3.729	0.466
19	12	16	18.253	18.924	18.727	18.253	4.683	0.390
20	16	16	13.689	13.187	12.957	12.957	6.598	0.412
21	20	16	12.772	12.680	12.112	12.112	7.058	0.353
22	1	32	86.412	85.419	85.402	85.402	1.000	1.000
23	2	32	45.426	45.531	45.619	45.426	1.880	0.940
24	4	32	27.187	27.164	27.738	27.164	3.144	0.786
25	8	32	16.586	15.922	15.170	15.170	5.630	0.704
26	12	32	14.465	13.694	13.152	13.152	6.494	0.541
27	16	32	16.032	15.186	14.426	14.426	5.920	0.370
28	20	32	15.570	16.253	15.507	15.507	5.507	0.275
29	1	48	85.930	85.679	84.881	84.881	1.000	1.000
30	2	48	45.086	44.301	43.919	43.919	1.933	0.966
31	4	48	26.649	26.375	26.974	26.375	3.218	0.805
32	8	48	17.681	17.271	17.118	17.118	4.959	0.620
33	12	48	16.048	15.847	15.358	15.358	5.527	0.461
34	16	48	16.315	16.164	15.931	15.931	5.328	0.333
35	20	48	14.350	13.965	13.586	13.586	6.248	0.312

2.2. Динамично балансиране

Lenovo Yoga Pro 7 14APH8 / Ryzen 7 7840HS / 16GB RAM

#	p	g	Tp(1)	Tp(2)	Tp(3)	Tp = min()	Sp = T1/Tp	Ep = Sp/p
1	1	1	99.632	98.696	98.545	98.545	1.000	1.000
2	2	1	79.433	78.465	79.033	78.465	1.256	0.628
3	4	1	42.956	42.825	42.747	42.747	2.305	0.576
4	8	1	66.155	65.913	65.541	65.541	1.504	0.188
5	12	1	50.043	49.759	48.874	48.874	2.016	0.168
6	16	1	38.253	37.286	36.351	36.351	2.711	0.169
7	1	4	102.259	102.218	101.599	101.599	1.000	1.000
8	2	4	69.611	68.715	68.286	68.286	1.488	0.744
9	4	4	48.030	47.997	47.993	47.993	2.117	0.529
10	8	4	30.579	29.669	28.912	28.912	3.514	0.439
11	12	4	26.251	26.236	26.114	26.114	3.891	0.324
12	16	4	18.736	18.130	17.573	17.573	5.782	0.361
13	1	16	108.848	108.708	107.749	107.749	1.000	1.000
14	2	16	52.386	51.436	51.810	51.436	2.095	1.047
15	4	16	30.765	30.022	29.235	29.235	3.686	0.921
16	8	16	17.534	17.171	16.177	16.177	6.661	0.833
17	12	16	15.507	15.047	15.028	15.028	7.170	0.598
18	16	16	14.301	13.761	12.965	12.965	8.311	0.519
19	1	32	98.978	98.657	99.054	98.657	1.000	1.000
20	2	32	52.125	51.736	50.858	50.858	1.940	0.970
21	4	32	29.134	28.735	28.611	28.611	3.448	0.862
22	8	32	16.128	15.465	14.730	14.730	6.697	0.837
23	12	32	14.606	14.599	14.150	14.150	6.972	0.581
24	16	32	13.811	12.824	11.968	11.968	8.244	0.515
25	1	48	98.899	98.670	98.585	98.585	1.000	1.000
26	2	48	50.869	50.726	50.168	50.168	1.965	0.983
27	4	48	28.342	28.304	27.543	27.543	3.579	0.895
28	8	48	15.671	15.183	14.301	14.301	6.894	0.862
29	12	48	14.547	14.533	13.947	13.947	7.069	0.589
30	16	48	13.901	13.214	12.878	12.878	7.655	0.478

Lenovo ThinkPad P1 G5 / Intel Core i9-12900H / 64GB RAM

#	p	g	Tp(1)	Tp(2)	Tp(3)	Tp = min()	Sp = T1/Tp	Ep = Sp/p
1	1	1	86.863	87.521	86.610	86.610	1.000	1.000
2	2	1	63.449	63.645	62.713	62.713	1.381	0.691
3	4	1	38.214	37.798	36.932	36.932	2.345	0.586
4	8	1	56.081	55.451	54.959	54.959	1.576	0.197
5	12	1	39.768	38.895	39.563	38.895	2.227	0.186
6	16	1	32.244	31.902	31.835	31.835	2.721	0.170
7	20	1	33.012	32.228	31.863	31.863	2.718	0.136
8	1	4	106.971	106.313	105.409	105.409	1.000	1.000
9	2	4	62.148	62.026	61.860	61.860	1.704	0.852
10	4	4	39.932	39.704	38.974	38.974	2.705	0.676
11	8	4	26.328	25.451	24.528	24.528	4.297	0.537
12	12	4	23.054	22.337	22.177	22.177	4.753	0.396
13	16	4	18.749	17.961	17.118	17.118	6.158	0.385
14	20	4	17.125	16.911	16.523	16.523	6.379	0.319
15	1	16	86.115	85.867	85.091	85.091	1.000	1.000
16	2	16	45.375	45.165	44.369	44.369	1.918	0.959
17	4	16	27.770	27.055	27.660	27.055	3.145	0.786
18	8	16	17.574	16.984	16.022	16.022	5.311	0.664
19	12	16	15.034	15.106	14.596	14.596	5.830	0.486
20	16	16	14.291	13.298	12.317	12.317	6.909	0.432
21	20	16	13.278	13.013	12.735	12.735	6.682	0.334
22	1	32	88.167	88.847	88.430	88.167	1.000	1.000
23	2	32	44.201	45.160	44.588	44.201	1.995	0.997
24	4	32	25.456	25.230	24.439	24.439	3.608	0.902
25	8	32	17.975	17.749	17.366	17.366	5.077	0.635
26	12	32	14.834	14.868	14.175	14.175	6.220	0.518
27	16	32	13.603	14.477	14.355	13.603	6.482	0.405
28	20	32	12.922	12.575	12.116	12.116	7.277	0.364
29	1	48	86.482	87.120	87.048	86.482	1.000	1.000
30	2	48	47.688	46.900	47.398	46.900	1.844	0.922
31	4	48	28.540	27.598	27.194	27.194	3.180	0.795
32	8	48	16.313	16.210	16.074	16.074	5.380	0.673
33	12	48	14.642	14.561	14.039	14.039	6.160	0.513
34	16	48	12.495	12.322	11.678	11.678	7.406	0.463
35	20	48	12.605	13.274	12.724	12.605	6.861	0.343

3. Резултати при трета сцена

3.1. Статично балансиране

Lenovo Yoga Pro 7 14APH8 / Ryzen 7 7840HS / 16GB RAM

#	p	g	Tp(1)	Tp(2)	Tp(3)	Tp = min()	Sp = T1/Tp	Ep = Sp/p
1	1	1	296.059	295.588	295.031	295.031	1.000	1.000
2	2	1	200.757	200.211	199.493	199.493	1.479	0.739
3	4	1	126.084	126.241	125.820	125.820	2.345	0.586
4	8	1	87.1898	86.608	85.992	85.992	3.431	0.429
5	12	1	70.468	70.248	69.639	69.639	4.237	0.353
6	16	1	69.483	69.180	68.237	68.237	4.324	0.270
7	1	4	294.561	293.657	292.938	292.938	1.000	1.000
8	2	4	181.896	181.392	182.038	181.392	1.615	0.807
9	4	4	120.543	120.244	119.907	119.907	2.443	0.611
10	8	4	54.018	53.084	52.366	52.366	5.594	0.699
11	12	4	62.814	62.511	63.448	62.511	4.686	0.391
12	16	4	51.275	50.349	49.378	49.378	5.933	0.371
13	1	16	295.297	295.139	294.338	294.338	1.000	1.000
14	2	16	181.153	180.467	180.315	180.315	1.632	0.816
15	4	16	117.340	116.375	116.118	116.118	2.535	0.634
16	8	16	52.997	52.029	51.997	51.997	5.661	0.708
17	12	16	41.846	41.734	41.478	41.478	7.096	0.591
18	16	16	50.716	49.776	48.778	48.778	6.034	0.377
19	1	32	295.524	294.786	294.204	294.204	1.000	1.000
20	2	32	165.294	164.680	164.637	164.637	1.787	0.893
21	4	32	93.766	93.602	93.379	93.379	3.151	0.788
22	8	32	55.491	54.853	54.541	54.541	5.394	0.674
23	12	32	42.341	41.982	41.792	41.792	7.040	0.587
24	16	32	39.276	38.553	38.474	38.474	7.647	0.478
25	1	48	295.163	295.206	295.838	295.163	1.000	1.000
26	2	48	156.039	155.421	155.012	155.012	1.904	0.952
27	4	48	83.506	83.061	83.566	83.061	3.554	0.888
28	8	48	52.588	51.953	52.351	51.953	5.681	0.710
29	12	48	42.650	41.721	41.444	41.444	7.122	0.594
30	16	48	40.101	39.934	40.457	39.934	7.391	0.462

Lenovo ThinkPad P1 G5 / Intel Core i9-12900H / 64GB RAM

#	p	g	Tp(1)	Tp(2)	Tp(3)	Tp = min()	Sp = T1/Tp	Ep = Sp/p
1	1	1	292.273	291.553	291.038	291.038	1.000	1.000
2	2	1	248.568	248.320	248.234	248.234	1.172	0.586
3	4	1	116.787	116.363	115.765	115.765	2.514	0.629
4	8	1	92.016	92.909	92.976	92.016	3.163	0.395
5	12	1	74.471	73.897	73.449	73.449	3.962	0.330
6	16	1	72.256	71.506	70.850	70.850	4.108	0.257
7	20	1	64.426	63.467	62.848	62.848	4.631	0.232
8	1	4	373.379	373.262	372.785	372.785	1.000	1.000
9	2	4	209.970	210.877	211.313	209.970	1.775	0.888
10	4	4	123.134	122.430	122.155	122.155	1.719	0.430
11	8	4	59.523	58.533	58.462	58.462	2.089	0.261
12	12	4	64.360	63.657	64.091	63.657	0.918	0.077
13	16	4	53.885	53.851	53.087	53.087	1.199	0.075
14	20	4	45.291	44.775	44.154	44.154	1.202	0.060
15	1	16	376.958	375.999	375.956	375.956	1.000	1.000
16	2	16	190.129	189.641	188.769	188.769	1.992	0.996
17	4	16	104.350	105.166	104.435	104.350	3.603	0.901
18	8	16	69.032	68.859	68.248	68.248	5.509	0.689
19	12	16	46.340	45.908	45.611	45.611	8.243	0.687
20	16	16	65.969	65.113	64.371	64.371	5.840	0.365
21	20	16	40.990	40.859	40.454	40.454	9.293	0.465
22	1	32	375.497	375.339	374.719	374.719	1.000	1.000
23	2	32	208.719	207.872	207.592	207.592	1.805	0.903
24	4	32	95.939	95.066	94.267	94.267	3.975	0.994
25	8	32	77.661	77.585	76.923	76.923	4.871	0.609
26	12	32	53.295	52.790	52.356	52.356	7.157	0.596
27	16	32	47.287	46.435	45.611	45.611	8.215	0.513
28	20	32	50.620	49.686	48.821	48.821	7.675	0.384
29	1	48	380.638	379.640	380.155	379.640	1.000	1.000
30	2	48	202.612	202.496	201.593	201.593	1.883	0.942
31	4	48	103.766	102.815	102.426	102.426	3.706	0.927
32	8	48	60.788	60.678	59.991	59.991	6.328	0.791
33	12	48	65.394	65.367	65.286	65.286	5.815	0.485
34	16	48	40.385	39.842	39.663	39.663	9.572	0.598
35	20	48	37.597	37.494	37.355	37.355	10.163	0.508

3.2. Динамично балансиране

Lenovo Yoga Pro 7 14APH8 / Ryzen 7 7840HS / 16GB RAM

#	p	g	Tp(1)	Tp(2)	Tp(3)	Tp = min()	Sp = T1/Tp	Ep = Sp/p
1	1	1	386.074	386.512	386.060	386.060	1.000	1.000
2	2	1	187.882	187.432	187.257	187.257	2.062	1.031
3	4	1	137.998	138.379	138.509	137.998	2.798	0.699
4	6	1	140.144	140.879	140.160	140.144	2.755	0.459
5	8	1	104.145	104.733	105.671	104.145	3.707	0.463
6	12	1	76.054	76.886	76.895	76.054	5.076	0.423
7	16	1	68.442	67.594	68.526	67.594	5.711	0.357
8	1	4	388.978	388.257	388.426	388.257	1.000	1.000
9	2	4	222.933	223.625	224.187	222.933	1.742	0.871
10	4	4	124.021	123.080	123.540	123.080	3.154	0.789
11	6	4	87.382	86.609	87.452	86.609	4.483	0.747
12	8	4	61.919	61.683	61.824	61.683	6.294	0.787
13	12	4	55.811	55.695	55.091	55.091	7.048	0.587
14	16	4	49.496	50.163	50.686	49.496	7.844	0.490
15	1	16	381.722	382.689	383.105	381.722	1.000	1.000
16	2	16	197.642	197.728	198.535	197.642	1.931	0.966
17	4	16	102.776	102.380	101.519	101.519	3.760	0.940
18	6	16	60.773	61.268	61.758	60.773	6.281	1.047
19	8	16	61.919	61.557	61.523	61.523	6.205	0.776
20	12	16	41.268	40.814	41.100	40.814	9.353	0.779
21	16	16	35.970	36.790	36.442	35.970	10.612	0.663
22	1	32	386.588	387.428	388.200	386.588	1.000	1.000
23	2	32	184.731	183.874	183.737	183.737	2.104	1.052
24	4	32	99.982	100.507	100.824	99.982	3.867	0.967
25	6	32	60.883	61.504	61.327	60.883	6.350	1.058
26	8	32	45.761	44.935	45.186	44.935	8.603	1.075
27	12	32	40.561	40.872	40.416	40.416	9.565	0.797
28	16	32	35.204	34.559	35.159	34.559	11.186	0.699
30	1	48	406.204	407.038	407.112	406.204	1.000	1.000
31	2	48	202.785	203.589	203.627	202.785	2.003	1.002
32	4	48	97.042	96.197	95.877	95.877	4.237	1.059
33	6	48	60.141	60.705	60.488	60.141	6.754	1.126
34	8	48	46.942	47.545	48.540	46.942	8.653	1.082
35	12	48	41.853	42.416	42.558	41.853	9.705	0.809
36	16	48	36.263	36.557	34.707	34.707	11.704	0.731

Lenovo ThinkPad P1 G5 / Intel Core i9-12900H / 64GB RAM

#	p	g	Tp(1)	Tp(2)	Tp(3)	Tp = min()	Sp = T1/Tp	Ep = Sp/p
1	1	1	368.079	368.809	366.861	366.861	1.000	1.000
2	2	1	214.627	214.586	215.295	214.586	1.710	0.855
3	4	1	167.832	167.959	168.244	167.832	2.186	0.546
4	6	1	146.791	147.143	146.366	146.366	2.506	0.418
5	8	1	115.292	114.336	116.205	114.336	3.209	0.401
6	12	1	84.444	83.182	85.380	83.182	4.410	0.368
7	16	1	72.465	73.286	71.438	71.438	5.135	0.321
8	20	1	64.505	63.352	65.410	63.352	5.791	0.290
9	1	4	372.006	370.716	371.514	370.716	1.000	1.000
10	2	4	257.230	258.089	257.572	257.230	1.441	0.721
11	4	4	149.510	149.797	150.378	149.510	2.480	0.620
12	6	4	94.764	93.911	95.610	93.911	3.948	0.658
13	8	4	69.302	69.891	69.200	69.200	5.357	0.670
14	12	4	62.453	61.293	62.605	61.293	6.048	0.504
15	16	4	66.243	65.231	66.842	65.231	5.683	0.355
16	20	4	45.476	44.885	46.139	44.885	8.259	0.413
17	1	16	255.926	254.901	256.689	254.901	1.000	1.000
18	2	16	206.886	206.841	207.183	206.841	1.232	0.616
19	4	16	147.881	148.654	147.072	147.072	1.733	0.433
20	6	16	92.065	91.964	91.480	91.480	2.786	0.464
21	8	16	59.878	60.059	60.868	59.878	4.257	0.532
22	12	16	54.940	54.633	53.457	53.457	4.768	0.397
23	16	16	40.893	40.355	41.155	40.355	6.316	0.395
24	20	16	37.143	37.443	38.132	37.143	6.863	0.343
25	1	32	367.237	366.538	366.076	366.076	1.000	1.000
26	2	32	247.316	247.650	246.316	246.316	1.486	0.743
27	4	32	103.187	103.521	101.997	101.997	3.589	0.897
28	6	32	67.525	66.609	66.563	66.563	5.500	0.917
29	8	32	60.815	60.627	59.706	59.706	6.131	0.766
30	12	32	44.609	44.564	44.101	44.101	8.301	0.692
31	16	32	29.188	29.901	28.454	28.454	12.866	0.804
32	20	32	25.409	24.673	25.036	24.673	14.837	0.742
33	1	48	366.448	367.356	366.726	366.448	1.000	1.000
34	2	48	278.601	277.400	278.477	277.400	1.321	0.661
35	4	48	103.695	104.615	102.588	102.588	3.572	0.893
36	6	48	69.680	69.399	70.371	69.399	5.280	0.880
37	8	48	54.887	55.457	54.792	54.792	6.688	0.836
38	12	48	42.944	43.522	42.502	42.502	8.622	0.718
39	16	48	39.898	40.886	39.193	39.193	9.350	0.584
40	20	48	34.897	35.631	35.438	34.897	10.501	0.525

3.3. Време за изпълнение

3.3.1. Статично балансиране

Lenovo Yoga Pro 7 14APH8 / Ryzen 7 7840HS / 16GB RAM

p	g = 1	g = 4	g =16	g = 32	g = 48
1	20.728	26.380	25.850	42.415	38.249
2	18.629	18.021	26.966	41.623	36.814
3	25.111	23.434	19.151	33.704	33.990
4	27.306	31.890	17.429	29.188	35.179
5	23.268	40.679	20.788	26.620	32.815
6	26.312	62.056	25.267	35.345	32.122
7	53.214	37.684	27.718	45.742	34.554
8	35.671	33.986	34.093	35.211	32.729
9	23.769	25.965	29.683	39.684	31.746
10	32.111	24.142	45.823	40.045	34.557
11	71.180	22.624	60.059	42.519	33.206
12	46.598	30.021	60.757	29.644	34.078
13	21.254	35.438	43.231	25.658	34.706
14	29.479	58.618	24.757	32.908	35.529
15	26.121	30.482	35.200	38.306	39.088
16	22.691	32.817	31.215	36.322	37.014

3.3.2. Динамично балансиране

Lenovo Yoga Pro 7 14APH8 / Ryzen 7 7840HS / 16GB RAM

p	g = 1	g = 4	g =16	g = 32	g = 48
1	23.661	24.664	34.124	34.839	34.049
2	23.862	33.082	34.083	33.457	34.593
3	25.289	26.293	30.948	34.398	33.209
4	27.907	26.078	31.330	33.796	34.411
5	36.487	22.930	33.470	34.397	34.114
6	52.535	41.466	34.090	34.140	33.979
7	18.361	23.730	32.081	33.804	34.148
8	26.790	27.680	35.368	35.497	33.365
9	29.508	38.376	35.110	34.385	33.758
10	21.692	25.863	34.434	34.357	33.610
11	25.321	29.962	35.079	34.933	34.706
12	35.517	32.353	32.737	33.766	34.479
13	23.661	29.092	31.658	35.889	33.424
14	57.618	49.881	33.479	35.958	33.235
15	84.048	34.186	33.574	34.387	33.170
16	32.352	25.192	30.920	33.881	33.417