

Parallel and Distributed Computing

Lab 3

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27115

Threads ↓ / Array Size →	50,000	100,000	150,000	200,000	250,000	300,000	350,000	400,000
1	0.0006	0.001	0.000	0.001	0.001	0.002	0.004	0.003
	53	062	982	491	974	831	309	227
5	0.0004	0.000	0.000	0.000	0.001	0.001	0.001	0.004
	60	374	212	292	145	570	948	380
10	0.0013	0.001	0.000	0.001	0.000	0.000	0.001	0.003
	26	277	979	818	910	933	797	940
15	0.0011	0.001	0.002	0.002	0.001	0.001	0.004	0.003
	34	969	075	665	776	487	345	707
20	0.0020	0.002	0.002	0.002	0.002	0.002	0.005	0.005
	34	158	194	873	221	433	629	067
25	0.0016	0.002	0.002	0.002	0.002	0.002	0.004	0.003
	08	452	079	341	847	784	797	225
30	0.0024	0.002	0.003	0.004	0.003	0.003	0.003	0.003
	23	189	871	083	026	780	366	323

Graph if clock starts before the threads are created



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Feb 18 7:22 PM
PDCL3.c - Labs - Visual Studio Code

File Edit Selection View Go Run Terminal Help

EXPLORER
LABS
  > vscode
  > lab0
  > lab1
  > build
  > autoLsh
  > PDCL1
  > PDCL1.c
  > PDCL2.c
  > Untitled1.cds
  > lab2
  > lab3
    [yass@yass-pc lab3]$ ./PDCL3
    Array 50000
    Threads: 1
    Execution Time: 0.000657 seconds
    Array 100000
    Threads: 1
    Execution Time: 0.000922 seconds
    Array 150000
    Threads: 1
    Execution Time: 0.001138 seconds
    Array 200000
    Threads: 1
    Execution Time: 0.001882 seconds
    Array 250000
    Threads: 1
    Execution Time: 0.001839 seconds
    Array 300000
    Threads: 1
    Execution Time: 0.002741 seconds
    Array 350000
    Threads: 1
    Execution Time: 0.003517 seconds
    Array 400000
    Threads: 1
    Execution Time: 0.002972 seconds
  > lab4
  > Lab Assignment 4 - Write a progra...
  > passingargs
  > PDCL3.c

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
  
```

Graph if the clock starts right before the threads are joined

Threads ↓ / Array Size →	50,00	100,0	150,0	200,0	250,0	300,0	350,0	400,0
	0	00	00	00	00	00	00	00
1	0.000	0.000	0.001	0.001	0.001	0.002	0.003	0.002
	657	922	138	802	839	741	517	972
5	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.001
	035	064	051	076	116	230	761	097
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002
	241	464	403	477	147	465	627	610
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001
	393	281	327	471	615	591	821	478
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	364	209	432	329	429	548	775	904
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	265	328	327	400	253	385	367	748
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	269	761	451	276	616	331	346	503

