

How many threads?

4

main: initialize matrix A[N][N+1] as [A|B]

1.00 1.00 1.00 4.00 22.00 0.00 0.00 0.00 0.00
1.00 1.00 4.00 1.00 19.00 0.00 0.00 0.00 0.00
1.00 4.00 1.00 1.00 16.00 0.00 0.00 0.00 0.00
4.00 1.00 1.00 1.00 13.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

main: create N=4 working threads

main: wait for all 4 working threads to join

partial pivoting by thread 0 on row 0: pivot_row=3 pivot= 4.00

thread 2 do row 2

thread 1 do row 1

thread 3 do row 3

partial pivoting by thread 1 on row 1: pivot_row=2 pivot= 3.75

4.00 1.00 1.00 1.00 13.00 0.00 0.00 0.00 0.00
0.00 3.75 0.75 0.75 12.75 0.00 0.00 0.00 0.00
0.00 0.75 3.75 0.75 15.75 0.00 0.00 0.00 0.00
0.00 0.75 0.75 3.75 18.75 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

thread 2 do row 2

thread 3 do row 3

4.00 1.00 1.00 1.00 13.00 0.00 0.00 0.00 0.00
0.00 3.75 0.75 0.75 12.75 0.00 0.00 0.00 0.00
0.00 0.00 3.60 0.60 13.20 0.00 0.00 0.00 0.00
0.00 0.00 0.60 3.60 16.20 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

partial pivoting by thread 2 on row 2: pivot_row=2 pivot= 3.60

thread 3 do row 3

partial pivoting by thread 3 on row 3: pivot_row=3 pivot= 3.50

4.00 1.00 1.00 1.00 13.00 0.00 0.00 0.00 0.00

0.00	3.75	0.75	0.75	12.75	0.00	0.00	0.00	0.00
0.00	0.00	3.60	0.60	13.20	0.00	0.00	0.00	0.00
0.00	0.00	0.00	3.50	14.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

4.00	1.00	1.00	1.00	13.00	0.00	0.00	0.00	0.00
0.00	3.75	0.75	0.75	12.75	0.00	0.00	0.00	0.00
0.00	0.00	3.60	0.60	13.20	0.00	0.00	0.00	0.00
0.00	0.00	0.00	3.50	14.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

main: back substitution : The solution is :

1.00	2.00	3.00	4.00
------	------	------	------