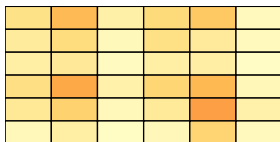
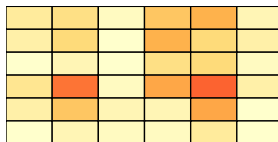


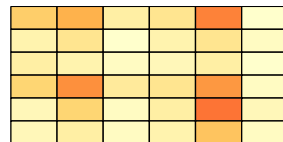
overall



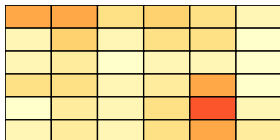
Europe:France



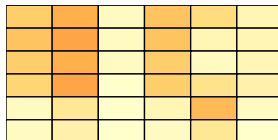
Europe:Germany



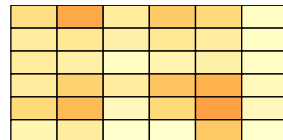
Europe:Italy



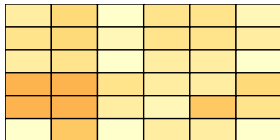
Europe:UK



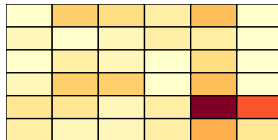
Europe:others



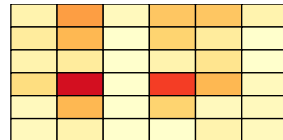
Japan



Russia



USA



Q18*:MPI thread level

| | | | | | | |
|------------|-----|------|------|-----|-----|-----|
| SINGLE | 0 | 0.48 | 0.95 | 1.4 | 1.9 | 2.4 |
| FUNNELED | 2.9 | 3.3 | 3.8 | 4.3 | 4.8 | 5.2 |
| SERIALIZED | 5.7 | 6.2 | 6.7 | 7.1 | 7.6 | 8.1 |
| MULTIPLE | 8.6 | 9 | 9.5 | 10 | 10 | 11 |
| never used | 11 | 12 | 12 | 13 | 13 | 14 |
| No idea | 14 | 15 | 15 | 16 | 16 | 17 |

Parallel Programming

Using MPI

Parallel Programming in C

MPI: complete Ref

(no book)

other

Q11*:MPI Book