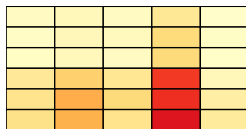
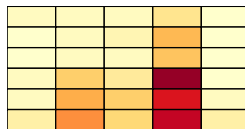


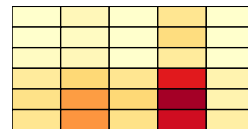
overall



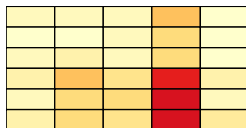
Europe:France



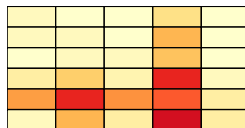
Europe:Germany



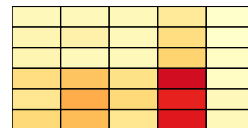
Europe:Italy



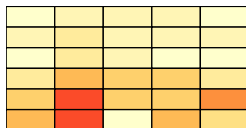
Europe:UK



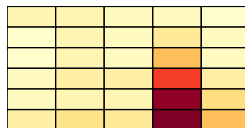
Europe:others



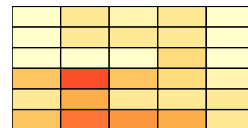
Japan



Russia



USA



Q16*:Unknown MPI Features

| | | | | | |
|-----------------|-----|------|------|-----|-----|
| Coll | 0 | 0.48 | 0.95 | 1.4 | 1.9 |
| Comm Ops | 2.4 | 2.9 | 3.3 | 3.8 | 4.3 |
| One-sided | 4.8 | 5.2 | 5.7 | 6.2 | 6.7 |
| Dynamic process | 7.1 | 7.6 | 8.1 | 8.6 | 9 |
| Persistent | 9.5 | 10 | 10 | 11 | 11 |
| PMPI | 12 | 12 | 13 | 13 | 14 |

Parallel Programming

Using MPI

MPI: complete Ref

(no book)

other

Q11*:MPI Book