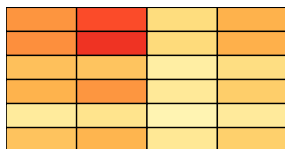
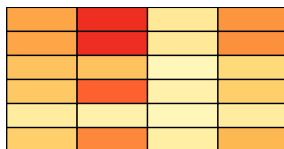


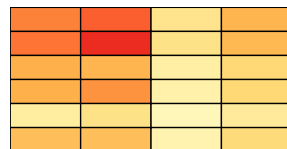
overall



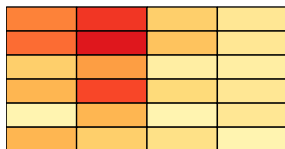
Europe:France



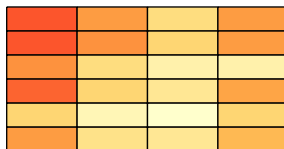
Europe:Germany



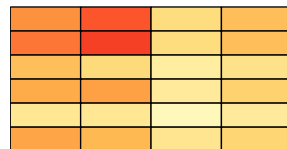
Europe:Italy



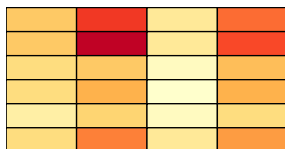
Europe:UK



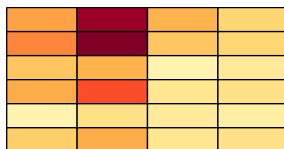
Europe:others



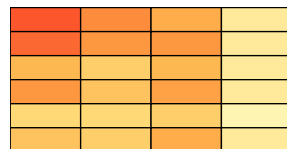
Japan



Russia



USA



Q17*:MPI Aspects

| | | | | |
|-----------|-----|------|------|-----|
| Pt2Pt | 0 | 0.46 | 0.93 | 1.4 |
| Coll | 1.9 | 2.3 | 2.8 | 3.2 |
| Comm Ops | 3.7 | 4.2 | 4.6 | 5.1 |
| Datatypes | 5.6 | 6 | 6.5 | 6.9 |
| One-sided | 7.4 | 7.9 | 8.3 | 8.8 |
| w/ OMP | 9.3 | 9.7 | 10 | 11 |

Algorithm

Debugging

Decomposition

Tuning

Q15:MPI Difficulty