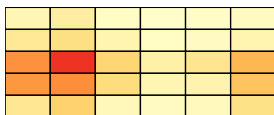
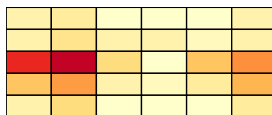


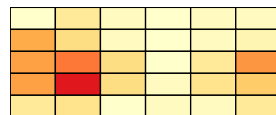
overall



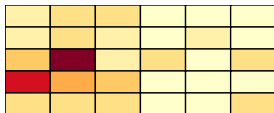
Europe:France



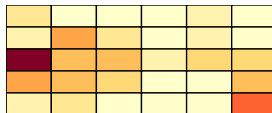
Europe:Germany



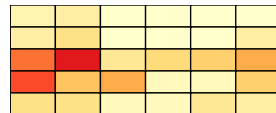
Europe:Italy



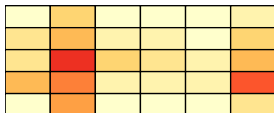
Europe:UK



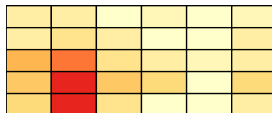
Europe:others



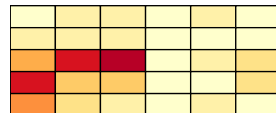
Japan



Russia



USA



Q29:Performance and Portability

|             |     |      |     |     |     |     |
|-------------|-----|------|-----|-----|-----|-----|
| Portability | 0   | 0.61 | 1.2 | 1.8 | 2.4 | 3   |
| 2           | 3.6 | 4.2  | 4.8 | 5.5 | 6.1 | 6.7 |
| 3           | 7.3 | 7.9  | 8.5 | 9.1 | 9.7 | 10  |
| 4           | 11  | 12   | 12  | 13  | 13  | 14  |
| Performance | 15  | 15   | 16  | 16  | 17  | 18  |

Algorithm

Debugging

Decomposition

Finding MPI routines

Workaround

Tuning

Q15:MPI Difficulty