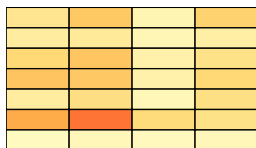
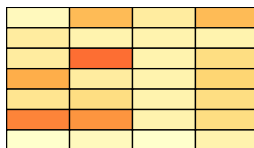


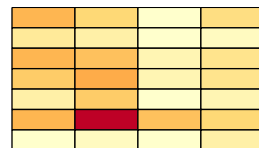
overall



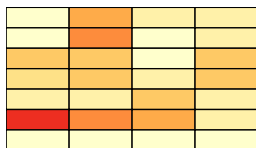
Europe:France



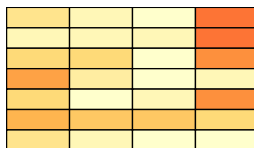
Europe:Germany



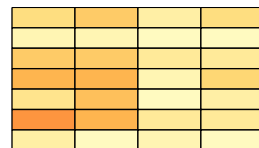
Europe:Italy



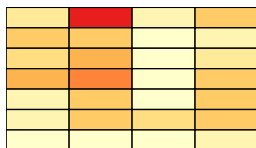
Europe:UK



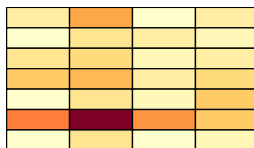
Europe:others



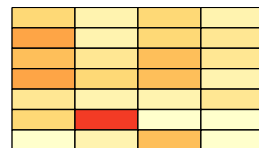
Japan



Russia



USA



Q26*:Missing Semantics

| | | | | |
|------------------|-----|------|-----|-----|
| Latency hiding | 0 | 0.58 | 1.2 | 1.8 |
| End-points | 2.3 | 2.9 | 3.5 | 4.1 |
| Resilience | 4.7 | 5.3 | 5.8 | 6.4 |
| Additional opt | 7 | 7.6 | 8.2 | 8.8 |
| Another API | 9.3 | 9.9 | 11 | 11 |
| MPI provides all | 12 | 12 | 13 | 13 |
| other | 14 | 15 | 15 | 16 |

Algorithm

Debugging

Decomposition

Tuning

Q15:MPI Difficulty