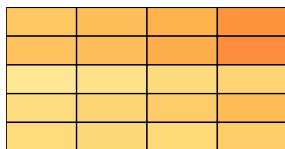
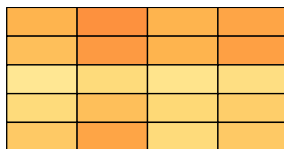


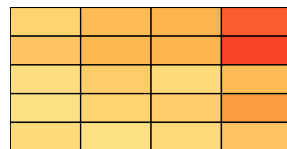
overall



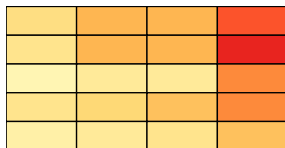
Europe:France



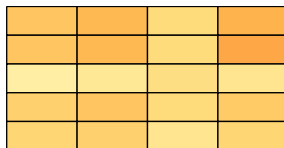
Europe:Germany



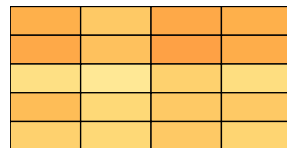
Europe:Italy



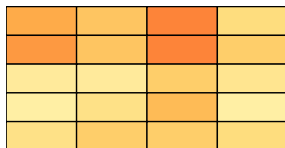
Europe:UK



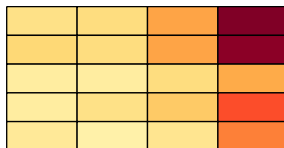
Europe:others



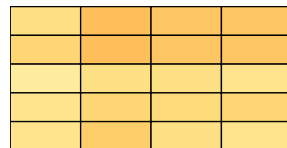
Japan



Russia



USA



Q17*:MPI Aspects

Pt2Pt

0

0.53

1.1

1.6

Coll

2.1

2.7

3.2

3.7

Comm Ops

4.3

4.8

5.3

5.9

Datatypes

6.4

6.9

7.4

8

w/ OMP

8.5

9

9.6

10

Latency hiding

Resilience

Additional opt

MPI provides all

Q26*:Missing Semantics