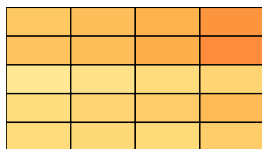
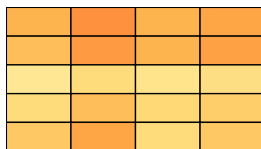


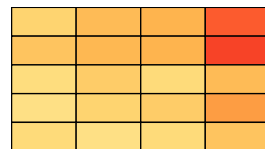
overall



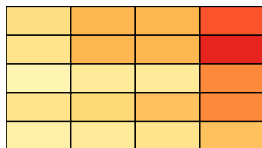
Europe:France



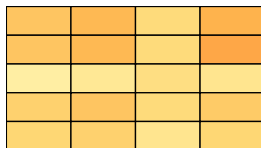
Europe:Germany



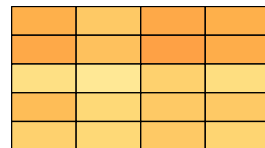
Europe:Italy



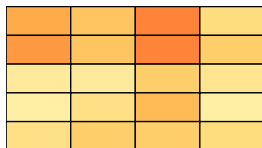
Europe:UK



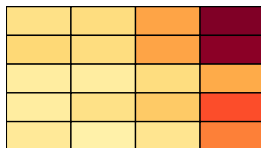
Europe:others



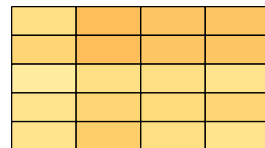
Japan



Russia



USA



Q17*:MPI Aspects

Point-to-point	0	0.53	1.1	1.6
Collectives	2.1	2.7	3.2	3.7
Communicator	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