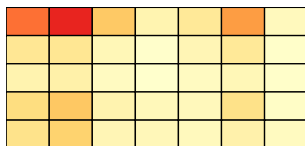
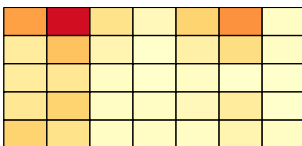


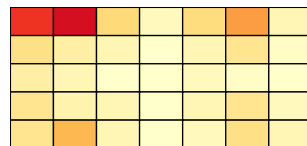
overall



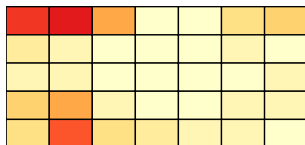
Europe:France



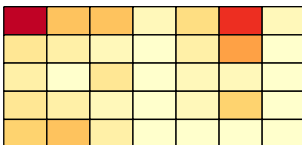
Europe:Germany



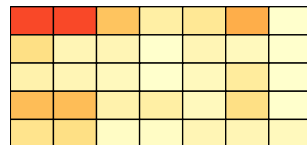
Europe:Italy



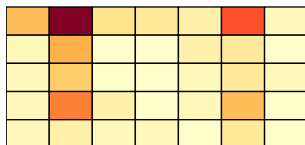
Europe:UK



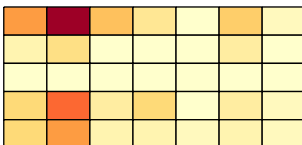
Europe:others



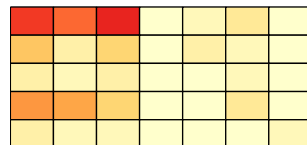
Japan



Russia



USA



Q22*:MPI+X

OMP	0	0.55	1.1	1.6	2.2	2.7	3.3
Pthread	3.8	4.4	4.9	5.5	6	6.5	7.1
OACC	7.6	8.2	8.7	9.3	9.8	10	11
CUDA	11	12	13	13	14	14	15
No	15	16	16	17	17	18	19

Algorithm

Debugging

Decomposition

Finding MPI routines

Workaround

Tuning

other

Q15:MPI Difficulty