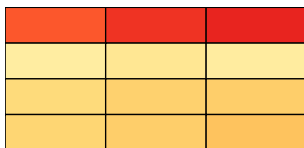
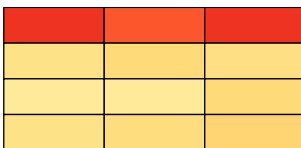


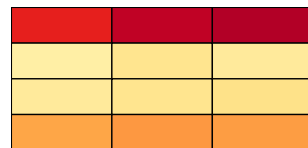
overall



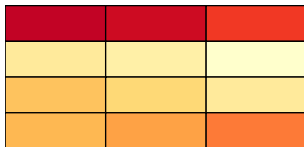
Europe:France



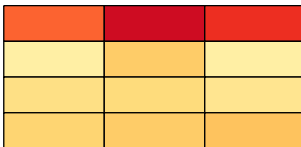
Europe:Germany



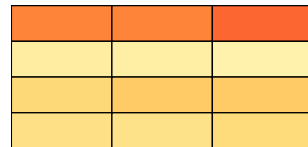
Europe:Italy



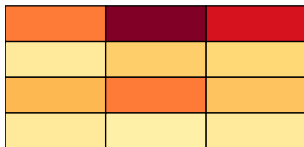
Europe:UK



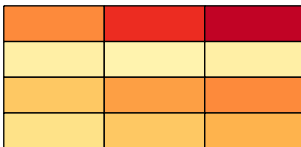
Europe:others



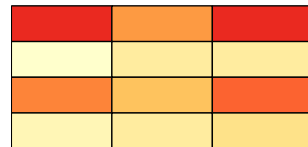
Japan



Russia



USA



Q22*:MPI+X

| | | | |
|---------|-----|-----|-----|
| OMP | 0 | 1.2 | 2.5 |
| Pthread | 3.7 | 5 | 6.2 |
| CUDA | 7.5 | 8.7 | 10 |
| No | 11 | 12 | 14 |

Dynamic process

Persistent

PMPI

Q16*:Unknown MPI Features