

| | | | | |
|--------|--------|--------|--------|--------|
| Orange | Orange | Red | Orange | Red |
| Yellow | Yellow | Yellow | Yellow | Yellow |
| Yellow | Yellow | Yellow | Yellow | Yellow |
| Yellow | Yellow | Yellow | Yellow | Yellow |

| | | | | |
|--------|--------|--------|--------|--------|
| Orange | Orange | Orange | Yellow | Red |
| Yellow | Yellow | Yellow | Yellow | Yellow |
| Yellow | Yellow | Yellow | Yellow | Yellow |
| Yellow | Yellow | Yellow | Yellow | Yellow |

| | | | | |
|--------|--------|--------|--------|--------|
| Red | Orange | Red | Orange | Red |
| Orange | Yellow | Orange | Yellow | Orange |
| Orange | Yellow | Orange | Yellow | Orange |
| Orange | Yellow | Orange | Yellow | Orange |

| | | | | |
|--------|--------|--------|--------|----------|
| Orange | Red | Red | Red | Dark Red |
| Yellow | Yellow | Yellow | Yellow | Yellow |
| Orange | Orange | Orange | Orange | Orange |
| Yellow | Yellow | Yellow | Yellow | Orange |

| | | | | |
|--------------|--------------|--------------|--------------|--------|
| Orange | Orange | Dark Red | Orange | Red |
| Light Orange | Yellow | Orange | Light Orange | Yellow |
| Yellow | Light Orange | Light Orange | Light Orange | Yellow |
| Yellow | Yellow | Light Orange | Yellow | Yellow |

| | | | | |
|--------|--------|--------|--------|--------|
| Orange | Red | Red | Orange | Red |
| Yellow | Yellow | Yellow | Yellow | Yellow |
| Orange | Orange | Yellow | Yellow | Orange |
| Yellow | Yellow | Yellow | Yellow | Yellow |

| | | | | |
|--------|--------|--------|--------|--------|
| Orange | Orange | Red | Red | Orange |
| Yellow | Yellow | Yellow | Yellow | Yellow |
| Yellow | Orange | Orange | Orange | Orange |
| Yellow | Yellow | Yellow | Yellow | Yellow |

| | | | | |
|--------|--------|--------|--------|--------|
| Red | Orange | Red | Orange | Orange |
| Yellow | Yellow | Yellow | Yellow | Yellow |
| Yellow | Orange | Orange | Yellow | Orange |
| Yellow | Yellow | Orange | Yellow | Yellow |

| | | | | |
|--------|--------|--------|--------|--------|
| Orange | Orange | Orange | Red | Orange |
| Orange | Yellow | Yellow | Yellow | Yellow |
| Orange | Orange | Orange | Orange | Yellow |
| Yellow | Yellow | Yellow | Yellow | Yellow |

| | | Q10*:Learning MPI | | | | |
|------------|---------|-------------------|--------|----------|-------|------------|
| Q22*:MPI+X | OMP | 0 | 0.68 | 1.4 | 2 | 2.7 |
| | Pthread | 3.4 | 4.1 | 4.7 | 5.4 | 6.1 |
| | CUDA | 6.8 | 7.4 | 8.1 | 8.8 | 9.5 |
| | No | 10 | 11 | 11 | 12 | 13 |
| | | Standard | School | Internet | Books | Other lec. |