

Orange	Red	Red	Yellow	Yellow	Yellow
Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Yellow	Orange	Yellow	Yellow	Yellow	Yellow
Yellow	Yellow	Yellow	Yellow	Yellow	Yellow

Orange	Red	Red	Yellow	Yellow	Yellow
Yellow	Orange	Yellow	Yellow	Yellow	Yellow
Yellow	Orange	Yellow	Yellow	Yellow	Yellow
Yellow	Orange	Yellow	Yellow	Yellow	Yellow

Orange	Red	Red	Yellow	Yellow	
Yellow	Yellow	Yellow	Yellow	Yellow	
Yellow	Yellow	Yellow	Yellow	Yellow	
Yellow	Yellow	Yellow	Yellow	Yellow	

Orange	Dark Red	Red	Light Orange	Yellow	White
White	Yellow	Yellow	Yellow	Yellow	White
Yellow	Orange	Orange	Yellow	Yellow	White
Yellow	Orange	Orange	Yellow	Yellow	White

Red	Red	Orange	Orange	Orange	Yellow
Orange	Orange	Yellow	Orange	Yellow	Yellow
Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Yellow	Yellow	Yellow	Yellow	Yellow	Yellow

Orange	Red	Orange	Yellow	Yellow	Yellow
Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Orange	Orange	Yellow	Yellow	Yellow	Yellow
Yellow	Yellow	Yellow	Yellow	Yellow	Yellow

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

Red	Dark Red	Orange	Light Orange	Yellow	Light Yellow
Light Orange	Yellow	Light Yellow	Light Green	Light Green	Light Green
Light Green	Light Green	Light Green	Light Blue	Light Blue	Light Blue
Light Blue	Light Blue	Light Blue	Light Purple	Light Purple	Light Purple

Orange	Red	Orange	Orange	Orange	Yellow
Orange	Orange	Yellow	Yellow	Yellow	Yellow
Orange	Orange	Yellow	Yellow	Yellow	Yellow
Yellow	Yellow	Yellow	Yellow	Yellow	Yellow

Q22*:MPI+X	OMP	0	0.68	1.4	2	2.7	3.4
	Pthread	4.1	4.8	5.4	6.1	6.8	7.5
	CUDA	8.2	8.8	9.5	10	11	12
	No	12	13	14	14	15	16
		MPICH	OMPI	Intel	MVA	Cray	Fujitsu
Q12*:MPI Implementation							