

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

Yellow	Red	Yellow	Orange	Dark Red	Yellow
Yellow	Yellow	Yellow	Orange	Orange	Yellow
Yellow	Yellow	Yellow	Orange	Yellow	Yellow
Yellow	Yellow	Yellow	Yellow	Yellow	Yellow

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

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

Orange	Dark Red	Yellow	Orange	Red	Yellow
Orange	Orange	Yellow	Orange	Yellow	Yellow
Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Yellow	Yellow	Yellow	Yellow	Orange	Yellow

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

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

Orange	Dark Red	Yellow	Orange	Orange	Yellow
Yellow	Orange	Yellow	Orange	Orange	Yellow
Yellow	Orange	Yellow	Orange	Orange	Yellow
Yellow	Yellow	Yellow	Yellow	Yellow	Yellow

Q22*:MPI+X	OMP	0	0.71	1.4	2.1	2.8	3.5				
	Pthread	4.2	5	5.7	6.4	7.1	7.8				
	CUDA	8.5	9.2	9.9	11	11	12				
	No	13	13	14	15	16	16				
Parallel Programming		Using MPI		Parallel Programming in C		MPI: complete Ref		(no book)		other	
Q11*:MPI Book											