

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

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

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

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

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

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

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

		Pt2Pt	Coll	Comm Ops	Datatypes	One-sided	w/ OMP
Q22*:MPI+X	OMP	0	0.6	1.2	1.8	2.4	3
	CUDA	3.6	4.2	4.8	5.4	6	6.6
	No	7.2	7.8	8.4	9	9.6	10