Heatmap showing difference in core to core communication latency [ns] as a function of Core frequency [MHz] (x-axis) and Uncore frequency [MHz] (y-axis).

Uncore \ Core	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800
800	41.2	40.2	39.4	38.7	38.2	37.7	37.3	37.0	36.7	36.4	36.2	36.0	35.8	35.6	35.4	35.3	35.2	35.0	34.9	34.8	34.7	34.6	34.5	34.5	34.4	34.3	34.3	34.2	34.1	34.1	34.0
900	37.6	36.6	35.8	35.2	34.6	34.1	33.7	33.4	33.1	32.8	32.6	32.4	32.2	32.0	31.8	31.7	31.6	31.4	31.3	31.2	31.1	31.0	31.0	30.9	30.8	30.7	30.7	30.6	30.6	30.5	30.4
1000	34.8	33.8	33.0	32.3	31.7	31.3	30.9	30.5	30.2	30.0	29.7	29.5	29.3	29.1	29.0	28.8	28.7	28.6	28.5	28.4	28.3	28.2	28.1	28.0	27.9	27.9	27.8	27.7	27.7	27.6	27.6
1100	32.4	31.4	30.6	29.9	29.4	28.9	28.5	28.2	27.9	27.6	27.4	27.2	27.0	26.8	26.6	26.5	26.4	26.2	26.1	26.0	25.9	25.8	25.7	25.7	25.6	25.5	25.5	25.4	25.3	25.3	25.2
1200	30.5	29.5	28.7	28.0	27.4	27.0	26.6	26.2	25.9	25.6	25.4	25.2	25.0	24.8	24.7	24.5	24.4	24.3	24.2	24.1	24.0	23.9	23.8	23.7	23.6	23.6	23.5	23.4	23.4	23.3	23.3
1300	28.8	27.8	27.0	26.3	25.8	25.3	24.9	24.6	24.3	24.0	23.8	23.5	23.3	23.2	23.0	22.9	22.7	22.6	22.5	22.4	22.3	22.2	22.1	22.1	22.0	21.9	21.8	21.8	21.7	21.7	21.6
1400	27.4	26.4	25.6	24.9	24.4	23.9	23.5	23.1	22.8	22.6	22.3	22.1	21.9	21.8	21.6	21.5	21.3	21.2	21.1	21.0	20.9	20.8	20.7	20.6	20.6	20.5	20.4	20.4	20.3	20.3	20.2
1500	26.2	25.2	24.3	23.7	23.1	22.7	22.3	21.9	21.6	21.3	21.1	20.9	20.7	20.5	20.4	20.2	20.1	20.0	19.9	19.8	19.7	19.6	19.5	19.4	19.3	19.3	19.2	19.1	19.1	19.0	19.0
1600	25.1	24.1	23.3	22.6	22.1	21.6	21.2	20.8	20.5	20.3	20.0	19.8	19.6	19.5	19.3	19.1	19.0	18.9	18.8	18.7	18.6	18.5	18.4	18.3	18.3	18.2	18.1	18.1	18.0	17.9	17.9
1700	24.1	23.1	22.3	21.7	21.1	20.6	20.2	19.9	19.6	19.3	19.1	18.9	18.7	18.5	18.3	18.2	18.1	17.9	17.8	17.7	17.6	17.5	17.5	17.4	17.3	17.2	17.2	17.1	17.1	17.0	16.9
1800	23.3	22.3	21.5	20.8	20.3	19.8	19.4	19.0	18.7	18.5	18.2	18.0	17.8	17.7	17.5	17.4	17.2	17.1	17.0	16.9	16.8	16.7	16.6	16.5	16.5	16.4	16.3	16.3	16.2	16.2	16.1
1900	22.5	21.5	20.7	20.1	19.5	19.0	18.6	18.3	18.0	17.7	17.5	17.3	17.1	16.9	16.7	16.6	16.5	16.3	16.2	16.1	16.0	15.9	15.9	15.8	15.7	15.6	15.6	15.5	15.5	15.4	15.3
2000	21.9	20.9	20.0	19.4	18.8	18.4	18.0	17.6	17.3	17.0	16.8	16.6	16.4	16.2	16.1	15.9	15.8	15.7	15.6	15.5	15.4	15.3	15.2	15.1	15.0	15.0	14.9	14.8	14.8	14.7	14.7
2100	21.3	20.2	19.4	18.8	18.2	17.7	17.3	17.0	16.7	16.4	16.2	16.0	15.8	15.6	15.4	15.3	15.2	15.1	14.9	14.8	14.7	14.6	14.6	14.5	14.4	14.3	14.3	14.2	14.2	14.1	14.1
2200	20.7	19.7	18.9	18.2	17.7	17.2	16.8	16.4	16.1	15.9	15.6	15.4	15.2	15.0	14.9	14.7	14.6	14.5	14.4	14.3	14.2	14.1	14.0	13.9	13.9	13.8	13.7	13.7	13.6	13.5	13.5
2300	20.2	19.2	18.4	17.7	17.1	16.7	16.3	15.9	15.6	15.4	15.1	14.9	14.7	14.5	14.4	14.2	14.1	14.0	13.9	13.8	13.7	13.6	13.5	13.4	13.3	13.3	13.2	13.1	13.1	13.0	13.0
2400	19.7	18.7	17.9	17.2	16.7	16.2	15.8	15.5	15.2	14.9	14.6	14.4	14.2	14.1	13.9	13.8	13.6	13.5	13.4	13.3	13.2	13.1	13.0	13.0	12.9	12.8	12.7	12.7	12.6	12.6	12.5
2500	19.3	18.3	17.5	16.8	16.2	15.8	15.4	15.0	14.7	14.5	14.2	14.0	13.8	13.6	13.5	13.3	13.2	13.1	13.0	12.9	12.8	12.7	12.6	12.5	12.4	12.4	12.3	12.3	12.2	12.1	12.1