Heatmap showing minimal 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	141.0	133.7	128.0	123.2	119.3	116.0	113.1	110.6	108.5	106.5	104.8	103.3	101.9	100.7	99.6	98.6	97.6	96.7	95.9	95.2	94.5	93.9	93.3	92.7	92.2	91.7	91.2	90.8	90.4	90.0	89.6
900	132.4	125.2	119.4	114.7	110.7	107.4	104.5	102.0	99.9	98.0	96.3	94.7	93.4	92.1	91.0	90.0	89.0	88.2	87.4	86.6	85.9	85.3	84.7	84.1	83.6	83.1	82.7	82.2	81.8	81.4	81.1
1000	125.5	118.3	112.5	107.8	103.9	100.5	97.7	95.2	93.0	91.1	89.4	87.9	86.5	85.3	84.2	83.1	82.2	81.3	80.5	79.8	79.1	78.4	77.8	77.3	76.8	76.3	75.8	75.4	75.0	74.6	74.2
1100	119.9	112.7	106.9	102.2	98.2	94.9	92.0	89.6	87.4	85.5	83.8	82.3	80.9	79.7	78.5	77.5	76.6	75.7	74.9	74.2	73.5	72.8	72.2	71.7	71.1	70.7	70.2	69.8	69.3	69.0	68.6
1200	115.2	108.0	102.2	97.5	93.6	90.2	87.4	84.9	82.7	80.8	79.1	77.6	76.2	75.0	73.9	72.8	71.9	71.0	70.2	69.5	68.8	68.2	67.6	67.0	66.5	66.0	65.5	65.1	64.7	64.3	63.9
1300	111.3	104.1	98.3	93.5	89.6	86.3	83.4	80.9	78.8	76.9	75.2	73.6	72.3	71.0	69.9	68.9	67.9	67.1	66.3	65.5	64.8	64.2	63.6	63.0	62.5	62.0	61.6	61.1	60.7	60.3	59.9
1400	107.9	100.7	94.9	90.2	86.2	82.9	80.0	77.5	75.4	73.5	71.8	70.2	68.9	67.6	66.5	65.5	64.5	63.7	62.9	62.1	61.4	60.8	60.2	59.6	59.1	58.6	58.2	57.7	57.3	56.9	56.6
1500	105.0	97.7	91.9	87.2	83.3	79.9	77.1	74.6	72.4	70.5	68.8	67.3	65.9	64.7	63.6	62.5	61.6	60.7	59.9	59.2	58.5	57.9	57.3	56.7	56.2	55.7	55.2	54.8	54.4	54.0	53.6
1600	102.4	95.2	89.4	84.6	80.7	77.4	74.5	72.0	69.9	68.0	66.3	64.7	63.4	62.1	61.0	60.0	59.0	58.2	57.4	56.6	55.9	55.3	54.7	54.1	53.6	53.1	52.7	52.2	51.8	51.4	51.0
1700	100.1	92.9	87.1	82.4	78.4	75.1	72.2	69.8	67.6	65.7	64.0	62.5	61.1	59.9	58.7	57.7	56.8	55.9	55.1	54.4	53.7	53.0	52.4	51.9	51.3	50.8	50.4	49.9	49.5	49.1	48.8
1800	98.1	90.9	85.1	80.4	76.4	73.1	70.2	67.7	65.6	63.7	62.0	60.4	59.1	57.8	56.7	55.7	54.7	53.9	53.1	52.3	51.6	51.0	50.4	49.8	49.3	48.8	48.4	47.9	47.5	47.1	46.8
1900	96.3	89.1	83.3	78.6	74.6	71.3	68.4	65.9	63.8	61.9	60.2	58.6	57.3	56.0	54.9	53.9	52.9	52.1	51.3	50.5	49.8	49.2	48.6	48.0	47.5	47.0	46.6	46.1	45.7	45.3	45.0
2000	94.7	87.4	81.7	76.9	73.0	69.7	66.8	64.3	62.2	60.2	58.5	57.0	55.6	54.4	53.3	52.3	51.3	50.4	49.6	48.9	48.2	47.6	47.0	46.4	45.9	45.4	44.9	44.5	44.1	43.7	43.3
2100	93.2	86.0	80.2	75.5	71.5	68.2	65.3	62.8	60.7	58.8	57.1	55.5	54.2	52.9	51.8	50.8	49.8	49.0	48.2	47.4	46.7	46.1	45.5	44.9	44.4	43.9	43.5	43.0	42.6	42.2	41.9
2200	91.9	84.6	78.9	74.1	70.2	66.8	64.0	61.5	59.3	57.4	55.7	54.2	52.8	51.6	50.5	49.4	48.5	47.6	46.8	46.1	45.4	44.8	44.2	43.6	43.1	42.6	42.1	41.7	41.3	40.9	40.5
2300	90.6	83.4	77.6	72.9	69.0	65.6	62.8	60.3	58.1	56.2	54.5	53.0	51.6	50.4	49.3	48.2	47.3	46.4	45.6	44.9	44.2	43.6	43.0	42.4	41.9	41.4	40.9	40.5	40.1	39.7	39.3
2400	89.5	82.3	76.5	71.8	67.8	64.5	61.7	59.2	57.0	55.1	53.4	51.9	50.5	49.3	48.1	47.1	46.2	45.3	44.5	43.8	43.1	42.4	41.8	41.3	40.8	40.3	39.8	39.4	38.9	38.6	38.2
2500	88.5	81.3	75.5	70.8	66.8	63.5	60.6	58.1	56.0	54.1	52.4	50.8	49.5	48.2	47.1	46.1	45.1	44.3	43.5	42.7	42.0	41.4	40.8	40.2	39.7	39.2	38.8	38.3	37.9	37.5	37.2