

xeon			branch p										master																													
			bloom																																							
dim	w	wm		10	20	30	40	50	60	70	80	90	100	10	20	30	40	50	60	70	80	90	100	10	20	30	40	50	60	70	80	90	100									
d1	0		1	14.4	18.3	21.7	23.1	25.6	28.0	31.9	34.8	33.8	34.9	21.4	24.0	26.2	27.3	28.8	30.0	30.6	31.4	32.0	32.7	67%	76%	83%	84%	89%	94%	104%	111%	105%	107%									
			4	12.7	17.3	20.1	23.0	25.3	29.1	31.9	34.1	33.6	34.4	13.0	20.2	21.5	24.8	25.8	26.9	28.3	29.2	31.0	31.8	98%	86%	94%	93%	98%	108%	113%	117%	108%	108%									
			32	12.0	14.3	15.6	16.8	18.2	20.9	23.2	22.6	21.9	23.9	11.3	12.0	13.2	15.1	17.0	17.7	19.1	21.3	23.2	24.9	106%	120%	119%	111%	107%	118%	121%	106%	94%	96%									
			128	11.9	14.4	17.4	17.7	18.0	21.1	21.8	26.1	25.9	25.7	12.4	14.4	14.7	16.1	17.9	18.2	18.8	21.4	23.4	25.0	96%	100%	118%	110%	101%	116%	116%	122%	110%	103%									
	4		1	3.6	4.8	6.0	6.8	7.8	8.9	9.8	10.6	10.9	11.5	5.5	6.2	7.0	7.7	8.4	9.1	9.7	10.3	10.7	11.3	66%	78%	86%	89%	93%	99%	101%	103%	102%	102%									
			4	3.4	4.5	5.9	6.7	7.4	8.4	9.3	10.4	11.2	13.3	2.9	4.1	5.4	6.5	7.3	8.1	8.9	9.7	10.8	12.6	115%	110%	109%	103%	101%	104%	104%	108%	103%	105%									
			32	3.3	4.4	6.3	6.9	7.9	8.8	9.6	10.6	10.9	12.2	3.1	4.1	5.5	6.2	7.1	8.2	8.9	9.8	10.9	11.9	106%	105%	116%	112%	111%	107%	108%	108%	100%	102%									
			128	3.3	4.4	5.5	6.4	7.6	8.5	9.3	10.3	11.0	11.5	3.0	4.0	5.5	6.5	7.5	8.0	8.8	9.8	10.7	11.8	109%	111%	100%	98%	101%	106%	106%	106%	103%	97%									
	0		1	32.7	32.8	43.4	54.2	64.8	76.0	90.6	100.9	111.0	120.2	30.6	42.0	50.9	61.8	70.9	80.6	92.2	101.1	109.9	119.1	107%	78%	85%	88%	91%	94%	98%	100%	101%	101%									
			4	32.6	34.2	45.2	55.9	66.3	76.5	93.0	104.0	112.6	121.8	30.7	40.5	49.9	58.9	68.2	76.5	89.7	99.4	107.8	116.4	106%	84%	90%	95%	97%	100%	104%	105%	104%	105%									
			32	21.6	34.6	46.1	59.3	69.6	82.6	95.0	109.9	120.2	132.7	23.6	43.2	52.4	65.2	69.8	79.6	93.6	106.7	121.0	134.4	91%	80%	88%	91%	100%	104%	102%	103%	99%	99%									
			128	23.1	42.6	62.7	85.1	98.6	120.1	144.8	164.8	190.5	206.1	25.3	46.9	67.0	89.5	99.6	123.2	145.8	166.6	185.4	204.4	91%	91%	94%	95%	99%	98%	99%	99%	103%	101%									
4		1	9.1	15.4	21.6	28.2	34.5	40.5	46.9	53.1	59.3	65.2	11.7	18.1	23.5	29.9	36.0	41.6	47.8	53.8	59.3	65.0	78%	85%	92%	95%	96%	97%	98%	99%	100%	100%										
		4	9.3	15.7	22.1	28.8	35.0	41.6	47.1	53.7	59.4	65.4	11.4	17.2	23.4	29.4	35.6	41.4	47.1	53.0	58.7	65.4	82%	91%	94%	98%	98%	100%	100%	101%	101%	100%										
		32	11.2	20.3	30.0	40.0	48.7	58.1	67.8	60.2	65.7	73.5	12.3	21.5	30.2	40.1	47.6	56.2	65.1	59.4	66.4	73.2	91%	94%	99%	100%	102%	103%	104%	101%	99%	101%										
		128	11.0	20.0	29.4	38.2	48.0	57.4	65.7	75.7	82.9	88.9	12.2	21.6	31.1	40.5	48.1	57.4	65.9	74.4	82.2	90.5	90%	93%	95%	94%	100%	100%	100%	102%	101%	98%										
			branch p										master																													
			bloom																																							
dim	w	wm		10	20	30	40	50	60	70	80	90	100	10	20	30	40	50	60	70	80	90	100	10	20	30	40	50	60	70	80	90	100									
1	0		1	14.7	18.4	22.2	24.8	25.3	27.9	30.7	33.3	33.8	34.7	21.8	23.5	25.5	27.1	29.5	30.7	31.2	32.2	33.0	32.8	68%	78%	87%	92%	86%	91%	98%	104%	102%	106%									
			4	12.7	17.3	20.8	23.8	25.9	29.4	32.4	34.8	34.6	34.1	12.9	20.5	22.6	25.9	27.7	27.2	29.0	30.5	32.4	33.1	98%	84%	92%	92%	94%	108%	112%	114%	107%	103%									
			32	12.5	14.9	17.1	18.6	20.0	22.9	24.1	25.7	25.0	26.4	12.5	13.7	14.7	16.6	17.8	18.3	19.6	20.5	23.2	25.4	100%	108%	117%	112%	112%	125%	123%	125%	108%	104%									
			128	12.5	14.6	17.0	18.3	19.7	22.2	25.4	26.3	26.3	27.3	12.9	12.4	13.6	15.3	17.2	18.2	20.5	20.8	23.4	26.1	97%	118%	125%	120%	115%	122%	124%	127%	112%	105%									
	4		1	3.9	5.0	6.1	7.6	8.4	9.1	10.5	11.0	11.6	12.0	5.6	6.6	7.3	8.0	8.9	9.4	10.1	10.9	11.5	12.8	69%	75%	84%	95%	95%	96%	103%	101%	101%	94%									
			4	3.6	5.1	6.4	7.4	8.1	8.9	10.3	11.1	11.9	16.0	3.2	4.3	5.5	6.8	7.8	8.5	9.5	10.4	11.5	15.1	114%	119%	116%	109%	104%	105%	108%	106%	103%	106%									
			32	3.5	4.5	5.9	6.9	8.1	9.1	10.2	11.2	12.2	13.1	3.2	4.3	5.7	7.0	8.0	8.7	9.7	10.5	11.8	12.8	109%	105%	103%	99%	100%	104%	104%	106%	103%	102%									
			128	3.5	4.7	6.1	7.4	8.1	9.2	10.2	11.3	12.0	13.0	3.2	4.3	5.6	7.0	7.9	8.9	9.6	10.6	11.6	12.9	110%	109%	110%	106%	103%	104%	105%	106%	103%	100%									
	2	0	1	16.7	23.0	29.0	34.5	37.8	43.7	52.6	60.2	63.4	67.1	25.0	30.4	34.7	38.8	43.9	48.6	53.1	56.7	60.3	64.4	67%	76%	84%	89%	86%	90%	99%	106%	105%	104%									
			4	14.0	21.5	27.6	33.3	39.9	49.0	58.7	63.1	62.5	66.3	14.6	25.7	29.7	36.7	41.1	43.9	48.5	54.4	59.9	64.3	95%	83%	93%	91%	97%	112%	121%	116%	104%	103%									
			32	13.9	18.2	23.2	27.9	31.8	37.7	44.7	53.2	59.4	66.2	13.6	16.3	18.2	23.0	28.1	33.3	40.5	47.4	55.2	63.1	102%	112%	127%	121%	113%	113%	111%	112%	108%	105%									
			128	13.9	18.1	23.0	26.7	31.2	38.1	44.9	53.1	58.9	67.0	13.3	15.0	18.1	23.1	29.8	34.9	41.2	48.6	57.4	65.7	105%	120%	127%	115%	105%	109%	109%	109%	103%	102%									
4		1	4.0	5.6	7.1	8.4	10.2	11.7	13.7	16.0	17.6	19.8	6.3	7.2	8.4	9.7	10.9	12.5	14.1	16.1	17.6	19.7	63%	77%	84%	86%	94%	93%	97%	100%	100%	101%										
		4	3.6	5.1	7.4	8.4	10.4	12.5	15.1	18.2	20.8	21.4	3.1	4.5	6.5	8.3	10.2	12.1	14.6	17.5	20.2	22.0	115%	113%	113%	101%	102%	104%	103%	104%	103%	97%										
		32	3.7	5.0	6.6	8.3	10.1	12.7	15.3	18.5	21.2	23.8	3.2	4.5	6.4	8.1	10.5	12.6	15.1	17.4	20.4	23.6	115%	111%	104%	102%	97%	100%	102%	106%	104%	101%										
		128	3.6	5.1	7.1	8.3	10.5	13.0	15.2	18.3	21.1	23.5	3.2	4.6	6.6	8.5	10.4	12.3	14.7	17.8	20.8	23.9	113%	111%	107%	98%	100%	106%	103%	102%	102%	98%										
3	0	1	18.0	24.6	33.2	37.5	46.2	56.4	70.8	85.1	93.3	105.7	27.7	34.3	40.5	46.8	55.4	62.9	70.9	80.0	89.5	100.4	65%	72%	82%	80%	83%	90%	100%	106%	104%	105%										
		4	14.7	23.1	31.1	39.6	48.4	61.8	72.8	86.2	89.8	99.1	14.6	28.6	34.9	43.7	50.7	56.7	66.7	76.6	87.6	97.3	101%	81%	89%	90%	95%	109%	109%	113%	103%	102%										
		32	14.4	20.2	25.4	30.0	37.2	48.4	61.0	73.1	87.0	101.2	14.1	17.0	20.5	27.0	35.3	44.2	55.9	68.5	85.0	97.7	103%	119%	124%	111%	105%	110%	109%	107%	102%	104%										
		128	14.4	19.2	24.5	29.6	37.5	48.1	61.3	75.6	88.3	104.2	12.8	16.1	21.6	29.1	38.1	46.4	56.9	70.6	84.5	100.3	112%	120%	113%	102%	98%	104%	108%	107%	104%	104%										
4		1	4.3	5.6	7.2	9.0	11.3	13.6	17.0	23.8	24.6	27.9	7.1	8.1	9.2	10.9	12.7	15.3	17.4	19.9	23.3	27.7	60%	69%	78%	83%	89%	89%	98%	119%	106%	101%										
		4	3.7	5.3	7.4	9.1	11.9	15.2	19.2	24.5	29.4	28.7	3.4	4.8	6.8	9.1	12.2	15.0	18.9	24.0	28.5	28.6	110%	111%	108%	100%	97%	101%	101%	102%	103%	101%										
		32	3.8	5.3	7.3	9.2	12.0	15.4	19.6	24.9	29.8	29.8	3.4	4.9	7.3	9.1	12.2	15.5	19.2	23.3	28.6	34.6	112%	107%	101%	101%	98%	99%	102%	107%	104%	102%										
		128	3.6	5.3	7.7	9.2	11.6	15.4	19.1	24.3	29.3	35.0	3.4	5.1	7.2	9.4	12.3	15.5	19.3	23.5	28.4	35.3	107%	103%																		