

ryzen			branch p																																							
			bloom										master																													
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	4.4	5.5	6.6	7.3	7.9	8.8	9.7	10.4	10.1	10.3	7.0	7.6	8.7	8.7	9.2	9.4	9.4	9.7	9.7	10.2	64%	72%	75%	84%	86%	94%	103%	107%	103%	100%										
		4	4.2	5.4	6.6	7.2	7.9	8.9	9.8	10.3	10.4	10.7	4.0	7.1	7.8	8.6	8.9	9.2	9.5	9.8	9.9	10.1	104%	77%	84%	83%	89%	97%	102%	106%	105%	106%										
		32	4.0	4.6	5.1	6.1	7.5	10.0	12.7	15.5	15.8	17.4	4.0	4.7	5.0	6.2	7.5	9.0	11.9	13.2	15.7	17.4	98%	97%	102%	98%	100%	111%	106%	118%	101%	100%										
		128	4.0	4.6	5.4	6.3	7.2	10.1	12.3	15.0	16.2	18.0	4.1	4.7	5.0	5.7	7.4	8.4	11.3	13.6	15.2	17.8	97%	98%	107%	110%	97%	120%	109%	111%	106%	101%										
	4	1	1.1	1.4	1.8	2.1	2.4	2.7	3.0	3.3	3.3	3.6	1.8	2.0	2.3	2.5	2.7	2.9	3.1	3.1	3.3	3.5	61%	70%	79%	83%	89%	93%	97%	106%	101%	101%										
		4	1.0	1.3	1.7	2.1	2.5	3.4	4.0	4.7	5.0	4.3	0.9	1.3	1.7	2.2	2.7	3.3	3.8	4.1	5.0	4.2	117%	101%	99%	97%	95%	103%	106%	114%	100%	101%										
		32	1.0	1.3	1.7	2.1	2.6	3.5	4.1	4.7	5.0	5.5	0.9	1.3	1.7	2.2	2.8	3.3	3.8	4.1	4.9	5.5	118%	100%	98%	92%	93%	104%	106%	114%	101%	99%										
		128	1.0	1.3	1.7	2.1	2.6	3.5	4.1	4.7	5.0	5.5	0.8	1.2	1.7	2.2	2.7	3.3	3.8	4.4	4.7	5.4	121%	106%	101%	96%	97%	105%	108%	108%	108%	102%										
	0	1	6.7	10.1	13.4	16.9	20.4	23.8	27.6	31.4	34.0	36.5	9.7	12.8	15.5	18.4	21.1	24.3	27.9	30.0	33.4	35.6	69%	79%	86%	92%	97%	98%	99%	105%	102%	103%										
		4	7.1	10.4	13.8	17.5	20.8	24.0	28.4	32.5	35.4	37.4	9.7	12.8	16.2	19.0	21.3	24.3	28.3	30.2	33.1	36.0	73%	81%	85%	92%	98%	99%	100%	108%	107%	104%										
		32	9.8	18.9	25.4	37.8	37.5	48.0	55.1	69.1	77.9	91.3	13.8	24.5	27.0	38.3	33.7	43.3	51.3	66.6	75.3	86.9	71%	77%	94%	99%	111%	111%	107%	104%	103%	105%										
		128	10.2	23.5	43.8	60.6	71.8	88.5	104.8	121.8	132.5	147.2	14.1	30.2	50.5	68.5	72.0	87.0	103.6	117.8	132.3	146.3	73%	78%	87%	89%	100%	102%	101%	103%	100%	101%										
4	1	2.9	5.0	7.0	9.0	11.1	12.9	15.1	17.3	19.1	20.9	3.8	5.6	7.3	9.2	11.0	12.7	14.9	16.9	18.7	20.5	77%	90%	96%	99%	102%	102%	102%	102%	102%	102%											
	4	2.9	4.9	6.8	8.8	10.9	13.7	14.6	16.7	18.1	20.2	3.5	5.4	7.2	9.2	11.4	14.4	14.7	16.3	18.2	20.7	81%	91%	94%	95%	95%	100%	103%	99%	98%												
	32	4.2	8.6	13.3	17.8	22.5	26.9	31.4	28.5	32.2	36.0	5.6	10.0	14.6	19.1	22.6	26.8	30.8	28.2	31.9	35.7	75%	85%	91%	93%	99%	101%	102%	101%	101%	101%											
	128	4.2	8.6	13.4	17.9	22.6	27.2	31.4	36.0	39.5	42.1	5.6	9.9	14.4	19.0	22.5	26.8	30.8	35.0	38.3	42.2	75%	87%	92%	94%	101%	102%	102%	103%	103%	100%											
ryzen 2			branch p																																							
			bloom										master																													
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	4.5	5.5	6.7	7.4	8.3	8.9	9.5	10.5	10.2	10.5	7.0	7.8	8.5	8.8	9.2	9.6	9.5	9.9	10.2	10.4	64%	71%	79%	84%	91%	93%	100%	106%	100%	101%										
		4	4.1	5.7	6.7	7.5	8.2	9.1	9.7	10.7	10.5	10.9	4.2	7.3	8.0	8.7	9.1	9.5	9.6	10.2	10.4	10.5	97%	78%	83%	86%	90%	96%	100%	105%	101%	104%										
		32	4.1	4.7	5.2	6.2	7.3	9.8	12.8	15.7	16.1	17.9	4.0	4.7	5.2	6.1	7.4	9.1	12.0	13.7	15.7	18.0	102%	99%	101%	103%	99%	108%	106%	114%	102%	100%										
		128	4.1	4.7	5.4	6.3	7.1	10.2	12.9	16.0	15.7	18.0	4.3	4.7	5.2	6.2	7.1	9.8	11.8	14.2	15.7	18.2	96%	100%	104%	102%	99%	104%	110%	113%	100%	99%										
	4	1	1.1	1.5	1.9	2.2	2.5	2.9	3.2	3.5	3.6	3.7	1.8	2.1	2.4	2.6	2.9	3.1	3.2	3.4	3.5	3.7	59%	70%	78%	84%	88%	93%	98%	103%	102%	100%										
		4	1.0	1.3	1.7	2.2	2.7	3.5	4.2	4.8	5.2	4.7	0.9	1.3	1.8	2.2	2.8	3.4	4.0	4.5	5.1	4.8	119%	102%	100%	96%	95%	102%	105%	106%	102%	99%										
		32	1.1	1.4	1.8	2.2	2.7	3.6	4.3	4.8	5.3	5.8	0.9	1.3	1.8	2.3	2.8	3.4	4.0	4.6	5.1	5.7	120%	107%	102%	99%	96%	106%	107%	106%	105%	102%										
		128	1.1	1.4	1.8	2.2	2.7	3.6	4.2	4.8	5.3	5.7	0.9	1.3	1.8	2.3	2.9	3.5	4.1	4.6	5.2	5.8	116%	101%	98%	95%	93%	105%	102%	103%	101%	99%										
	0	1	5.1	6.6	8.9	10.0	11.8	13.6	15.6	17.9	18.4	19.9	8.3	9.8	11.5	12.5	13.7	15.1	15.5	17.0	18.3	19.3	61%	67%	77%	80%	86%	90%	101%	105%	101%	103%										
		4	4.5	6.7	8.8	10.4	12.0	14.7	16.3	18.8	19.3	20.7	4.6	9.0	10.5	12.3	14.1	16.1	16.3	17.4	18.7	20.6	99%	74%	83%	85%	85%	91%	100%	108%	103%	100%										
		32	4.5	5.8	8.7	11.9	16.3	23.7	30.8	38.5	42.6	48.9	4.4	6.1	8.2	12.9	18.1	24.6	30.2	36.0	42.5	49.7	104%	95%	106%	92%	90%	96%	102%	107%	100%	98%										
		128	4.6	6.0	8.4	11.6	16.6	24.2	31.1	38.2	42.7	50.0	4.6	5.6	8.5	13.1	18.5	24.5	30.4	36.3	43.2	49.5	100%	106%	98%	89%	90%	99%	102%	105%	99%	101%										
4	1	1.1	1.6	2.1	2.7	3.3	3.9	4.6	5.3	5.6	6.2	2.0	2.4	2.8	3.2	3.7	4.1	4.6	5.1	5.5	6.1	56%	67%	75%	82%	89%	94%	101%	105%	102%	101%											
	4	1.1	1.6	2.4	3.4	4.7	6.4	7.9	9.7	11.0	7.1	0.9	1.6	2.6	3.8	5.2	6.4	7.8	9.4	10.9	7.1	119%	97%	95%	90%	91%	101%	101%	104%	102%	99%											
	32	1.1	1.6	2.5	3.4	4.6	6.4	7.9	9.8	11.1	12.6	1.0	1.6	2.6	3.8	5.2	6.5	7.8	9.3	10.9	12.6	118%	97%	94%	88%	89%	100%	102%	105%	102%	100%											
	128	1.1	1.6	2.5	3.5	4.7	6.4	8.0	9.8	11.0	12.6	1.0	1.6	2.6	3.8	5.2	6.5	7.9	9.4	10.9	12.6	113%	99%	95%	91%	91%	99%	101%	105%	101%	100%											
0	1	5.2	7.1	9.8	11.9	14.3	17.6	21.1	24.9	26.8	30.1	8.6	10.7	12.8	14.4	16.3	19.0	20.7	22.9	26.2	29.3	61%	67%	76%	82%	87%	93%	102%	109%	102%	103%											
	4	4.7	7.3	9.8	12.0	14.4	18.4	21.4	25.2	27.3	30.4	4.8	9.7	12.3	14.8	16.9	19.7	21.3	24.4	27.7	30.9	97%	76%	80%	81%	85%	93%	100%	103%	99%	98%											
	32	4.6	6.3	10.4	15.5	23.2	32.8	43.4	56.8	68.3	81.9	4.8	6.4	10.7	16.4	25.9	34.8	44.6	55.2	68.0	81.5	97%	99%	98%	94%	90%	94%	97%	103%	100%	100%											
	128	4.7	6.3	10.6	15.3	23.0	33.8	44.4	56.5	68.2	81.7	4.9	6.3	11.1	17.5	26.6	35.2	44.9	56.1	68.3	80.9	96%	99%	96%	87%	87%	96%	99%	101%	100%	101%											
4	1	1.2	1.6	2.2	2.9	3.7	4.6	5.7	6.9	7.6	8.8	2.2	2.6	3.0	3.6	4.2	4.9	5.7	6.6	7.4	8.7	54%	64%	73%	81%	88%	94%	102%	105%	102%	101%											
	4	1.1	1.7	2.7	4.1	5.9	8.2	10.7	13.8	16.4	9.6	1.0	1.8	3.0	4.7	6.5	8.4	10.8	13.3	16.3	9.8	116%	96%	90%	87%	91%	97%	99%	103%	101%	98%											
	32	1.2	1.7	2.8	4.1	5.9	8.2	10.8	13.9	16.6	19.6	1.0	1.8	3.0	4.7	6.7	8.5	10.8	13.3	16.4	19.6	118%	94%	91%	87%	88%	96%	100%	104%	101%	100%											
	128	1.2	1.7	2.8	4.1	5.8	8.3	10.7	13.9	16.6	19.6	1.0	1.8	3.1	4.7	6.6	8.5	10.8	13.4	16.3	19.6	116%	95%	90%	88%	87%	97%	99%	104%	102%	100%											