

	-O0	-O1	-O2	-O3
<b>Runtime (Measured)</b>	576.61715033 Seconds	268.807527388 Seconds	229.944621652 Seconds	228.920287000 Seconds
<b>Cycles</b>	1,151,207,589,561	536,402,922,598	458,766,499,762	457,336,550,715
<b>Instructions</b>	398,276,819,969	80,172,645,193	88,686,677,511	88,668,384,343
<b>Branches</b>	10,005,753,741	9,997,360,895	9,988,968,175	9,985,036,313
<b>Branch-misses</b>	89,787,819	90,633,808	90,134,504	93,587,137
<b>Cache References</b>	175,823,978,537	21,007,994,573	21,003,802,286	21,001,705,874
<b>Cache Misses</b>	8,638,775,481	8,631,876,005	8,631,293,292	8,631,519,889

	Just Loop Unrolling	Just Column-Major	Loop Unrolling plus Column-Major
<b>Runtime</b>	145.610048858	230.054827198	145.638987548
<b>Cycles</b>	290,237,692,345	458,767,151,380	288,498,253,128
<b>Instructions</b>	84,359,281,322	88,682,288,916	84,372,242,830
<b>Cache Misses</b>	2,170,825,395	8,631,305,604	2,170,876,436
<b>Cache References</b>	29,587,452,165	21,001,705,717	29,587,452,152
<b>Branches</b>	3,542,589,143	9,985,036,228	3,542,589,133
<b>Branch Misses</b>	83,284,341	89,999,476	78,545,493