

Phase	Benchmark	Time	Valgrind Instructions	Rel to Start	Rel to Prev	Improvement
1	sandmark	18.117 s	4,159,509,870	1	1	No improvement (starting point)
	midmark	0.725 s		1	1	
2	sandmark	18.091 s	4,159,510,261	0.999	0.999	Compiled with link-time optimization turned on
	midmark	0.724 s		0.999	0.999	
3	sandmark	15.502 s	2,982,358,189	0.856	0.857	We created a single global variable in uvm.rs and seg.rs to initialize the program address at 0
	midmark	0.617 s		0.851	0.852	
4	sandmark	15.455 s	2,982,358,189	0.853	0.997	We created global constant variables in instr.rs to replace repeated instances of constant values
	midmark	0.617 s		0.851	1	
5	sandmark	15.206 s	3,107,745,104	0.839	0.984	We removed local variables in the opcode implementation in uvm.rs and placed what the variables were equal to directly in where the variables were called
	midmark	0.594 s		0.819	0.963	