Benchmark	O Flag	Time(s)	Instructions	Rel to Start	Rel to Prev	Improvement
Small Big	O0 O0	6.895 171.669	31,882,966,500	1.000 1.000	1.000 1.000	Starting Point
Small Big	O1 O1	4.661 115.193	26,510,279,136	0.676 0.671	0.676 0.671	Compiled with optimization 01
Small Big	O2 O2	4.581 114.938	26,335,011,755	0.664 0.670	0.983 0.998	Compiled with optimization 02
Small Big	O1 O1	4.047 99.656	14,128,407,031	0.587 0.580	0.883 0.867	Removed bitpack and made inline local version of bitpack_getu
Small Big	O2 O2	3.067 71.274	11,011,199,274	0.444 0.415	0.758 0.715	Inline parser and instruction modules
Small Big	O2 O2	3.069 71.363	11,011,199,280	0.445 0.416	1.001 1.002	Removed 1 pointer dereference
Small Big	O2 O2	2.182 54.406	7,948,658,647 -	0.316 0.317	0.710 0.762	Only load program segment when necessary
Small Big	O1 O1	1.295 32.016	5,783,010,846 -	0.189 0.186	0.593 0.588	Replaced Hanson Array's with our own data structure
Small Big	O1 O1	1.212 30.582	5,166,746,545 -	0.176 0.178	0.936 0.955	Used uintptr_t to avoid malloc / free with the elements of our stack
Small Big	O1 O1	1.207 30.412	4,782,353,095 -	0.175 0.177	0.996 0.994	Removed needless asserts
Small Big	O1 O1	0.887 22.374	4,575,474,179	0.129 0.130	0.735 0.736	Inlined remaining modules, took out repeated pointer dereference

Small Big	O1 O1	0.859 21.694	4,575,342,242	0.124 0.126	0.968 0.970	Replaced for loop with memcpy in arr_clone
Small Big	O1 O1	0.648 16.210	3,439,526,298	0.093 0.094	0.754 0.747	Replaced Hanson sequences with our own data structure
Small Big	O1 O1	0.626 15.591	3,345,472,473	0.091 0.091	0.966 0.962	Replaced Hanson stacks with our own data structure
Small Big	O1 O1	0.619 15.452	3,345,472,473	0.090 0.090	0.989 0.991	Tweaked alignment of structs