

	FM-HF-BV		FM-HF-R ³ -15		FM-RLMN		FM-HF-R ³ -63	
	Time (μs)	Space (%)	Time (μs)	Space (%)	Time (μs)	Space (%)	Time (μs)	Space (%)
ENGLISH.200MB	0.635	70	1.127	32	1.612	34	1.747	17
DBLP.XML.200MB	0.233	29	0.601	28	1.059	79	1.332	24
DNA.200MB	0.580	61	1.230	38	1.605	69	2.207	27
PROTEINS.200MB	0.533	56	1.332	53	1.501	89	2.787	48
SOURCES.200MB	0.735	73	1.451	39	1.721	53	2.452	26

Table 1: Time in μsec per pattern symbol in a count query. Index space as fraction of original file size. Compile options: `-DUSE_HP -msse4.2 -O9 -funroll-loops -fomit-frame-pointer -ffast-math -DNDEBUG`.

	FM-HF-BV		FM-HF-R ³ -15		FM-RLMN		FM-HF-R ³ -63	
	Time (μs)	Space (%)	Time (μs)	Space (%)	Time (μs)	Space (%)	Time (μs)	Space (%)
ENGLISH.200MB	0.839	70	1.135	32	2.619	34	1.761	17
DBLP.XML.200MB	0.312	29	0.593	28	1.236	79	1.334	24
DNA.200MB	0.747	61	1.232	38	1.911	69	2.204	27
PROTEINS.200MB	0.672	56	1.337	53	1.797	89	2.750	48
SOURCES.200MB	0.955	73	1.415	39	2.048	53	2.458	26

Table 2: Time in μsec per pattern symbol in a count query. Index space as fraction of original file size. Compile options: `-DPOPCOUNT_TL -O9 -funroll-loops -fomit-frame-pointer -ffast-math -DNDEBUG`.

	FM-HF-BV		FM-HF-R ³ -15		FM-RLMN		FM-HF-R ³ -63	
	Time (μs)	Space (%)	Time (μs)	Space (%)	Time (μs)	Space (%)	Time (μs)	Space (%)
ENGLISH.200MB	0.712	70	1.156	32	1.996	34	1.744	17
DBLP.XML.200MB	0.264	29	0.599	28	1.165	79	1.321	24
DNA.200MB	0.648	61	1.225	38	1.825	69	2.213	27
PROTEINS.200MB	0.578	56	1.294	53	1.729	89	2.790	48
SOURCES.200MB	0.800	73	1.409	39	1.935	53	2.465	26

Table 3: Time in μsec per pattern symbol in a count query.
Index space as fraction of original file size. Compile options: `-O9 -funroll-loops -fomit-frame-pointer -ffast-math -DNDEBUG`.

	FM-HF-BV		FM-HF-R ³ -15		FM-RLMN		FM-HF-R ³ -63	
	Time (μs)	Space (%)	Time (μs)	Space (%)	Time (μs)	Space (%)	Time (μs)	Space (%)
ENGLISH.200MB	1.346	70	2.129	32	5.429	34	4.331	17
DBLP.XML.200MB	0.552	29	1.176	28	2.054	79	2.956	24
DNA.200MB	1.184	61	2.234	38	3.024	69	5.327	27
PROTEINS.200MB	1.083	56	2.473	53	2.805	89	5.998	48
SOURCES.200MB	1.443	73	2.543	39	3.374	53	5.914	26

Table 4: Time in μsec per pattern symbol in a count query. Index space as fraction of original file size. Compile options: `-O0 -DNDEBUG`.

	FM-HF-BV		FM-HF-R ³ -15		FM-RLMN		FM-HF-R ³ -63	
	Time (μs)	Space (%)	Time (μs)	Space (%)	Time (μs)	Space (%)	Time (μs)	Space (%)
ENGLISH.200MB	0.741	70	1.141	32	2.041	34	1.763	17
DBLP.XML.200MB	0.286	29	0.602	28	1.198	79	1.354	24
DNA.200MB	0.654	61	1.218	38	1.829	69	2.217	27
PROTEINS.200MB	0.590	56	1.291	53	1.742	89	2.682	48
SOURCES.200MB	0.816	73	1.450	39	1.952	53	2.457	26

Table 5: Time in μsec per pattern symbol in a count query. Index space as fraction of original file size. Compile options: `-O1 -DNDEBUG`.

	FM-HF-BV		FM-HF-R ³ -15		FM-RLMN		FM-HF-R ³ -63	
	Time (μs)	Space (%)	Time (μs)	Space (%)	Time (μs)	Space (%)	Time (μs)	Space (%)
ENGLISH.200MB	0.625	70	1.127	32	1.579	34	1.744	17
DBLP.XML.200MB	0.226	29	0.585	28	1.098	79	1.330	24
DNA.200MB	0.577	61	1.217	38	1.612	69	2.217	27
PROTEINS.200MB	0.514	56	1.263	53	1.510	89	2.764	48
SOURCES.200MB	0.716	73	1.457	39	1.686	53	2.473	26

Table 6: Time in μsec per pattern symbol in a count query. Index space as fraction of original file size. Compile options: `-msse4.2 -O9 -funroll-loops -fomit-frame-pointer -ffast-math -DNDEBUG`.

Identifier	sdsl type
FM-HF-BV	<code>csa_wt<wt_huff<bit_vector, rank_support_v5<>, select_support_scan<>, select_support_scan<0>>, 1<<20, 1<<20></code>
FM-HF-R ³ -15	<code>csa_wt<wt_huff<rrr_vector<15>>, 1<<20, 1<<20></code>
FM-RLMN	<code>csa_wt<wt_rlmn<>, 1<<20, 1<<20></code>
FM-HF-R ³ -63	<code>csa_wt<wt_huff<rrr_vector<63>>, 1<<20, 1<<20></code>

Table 7: Index identifier and corresponding sdsl-type.