

	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	0.669	70	1.183	32	1.639	34	1.844	17
DBLP.XML.200MB	0.243	29	0.612	28	1.113	79	1.372	24
DNA.200MB	0.602	61	1.264	38	1.702	69	2.264	27
PROTEINS.200MB	0.539	56	1.338	53	1.564	89	2.801	48
SOURCES.200MB	0.746	73	1.456	39	1.772	53	2.499	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	0.870	70	1.255	32	2.732	34	1.790	17
DBLP.XML.200MB	0.319	29	0.614	28	1.289	79	1.364	24
DNA.200MB	0.779	61	1.287	38	2.008	69	2.273	27
PROTEINS.200MB	0.693	56	1.340	53	1.862	89	2.813	48
SOURCES.200MB	0.970	73	1.507	39	2.151	53	2.498	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	0.758	70	1.208	32	2.055	34	1.795	17
DBLP.XML.200MB	0.274	29	0.618	28	1.241	79	1.376	24
DNA.200MB	0.674	61	1.296	38	1.895	69	2.263	27
PROTEINS.200MB	0.602	56	1.358	53	1.788	89	2.797	48
SOURCES.200MB	0.832	73	1.483	39	2.007	53	2.516	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	1.407	70	2.173	32	5.532	34	4.469	17
DBLP.XML.200MB	0.565	29	1.205	28	2.129	79	3.068	24
DNA.200MB	1.233	61	2.336	38	3.127	69	5.391	27
PROTEINS.200MB	1.114	56	2.524	53	2.892	89	6.132	48
SOURCES.200MB	1.501	73	2.632	39	3.476	53	5.978	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	0.769	70	1.224	32	2.135	34	1.868	17
DBLP.XML.200MB	0.283	29	0.620	28	1.238	79	1.405	24
DNA.200MB	0.682	61	1.261	38	1.905	69	2.263	27
PROTEINS.200MB	0.616	56	1.354	53	1.809	89	2.756	48
SOURCES.200MB	0.846	73	1.459	39	2.008	53	2.536	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	0.651	70	1.169	32	1.631	34	1.815	17
DBLP.XML.200MB	0.234	29	0.606	28	1.110	79	1.364	24
DNA.200MB	0.594	61	1.265	38	1.711	69	2.265	27
PROTEINS.200MB	0.538	56	1.325	53	1.575	89	2.801	48
SOURCES.200MB	0.748	73	1.456	39	1.769	53	2.478	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 class
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-HF-R ³ -63	<code>csa_wt<wt_huff<rrr_vector<63> >, 1<<20, 1<<20></code>
FM-RLMN	<code>csa_wt<wt_rlmn<>, 1<<20, 1<<20></code>

Table 7: Index identifier and corresponding sdsl-type.