Libpll sequential benchmarks

July 3, 2017

- node : node index (post order traversal)
- psize : number of unique (not repeating) sites on the current node
- lsize : number of unique (not repeating) sites on the left child node
- rsize : number of unique (not repeating) sites on the right child node
- repeats : runtime for 500 updatepartials on the node
- TCLV opt : runtime for 500 updatepartials on the node with left and right TCLV
- SR opt : bclv si repeats qqpart, gros if dans la boucle
- SR opt2 : bclv si repeats qqpart, boucle qui gere aussi les non repeats
- SR opt3 : tip pattern, bclv si repeats qqpart, boucle qui gere aussi les non repeats
- SR opt4 ; bclv si repeats qqpart, gros if dans la boucle, prebuffer, unroll

1 dataset 404 hits avx

node	psrsize	lsrsize	rsrsize	tippat	repeats
node0	25	5	5	63ms	8ms
node1	25	5	5	60ms	8ms
node2	25	5	5	60ms	8ms
node3	125	25	5	138ms	8ms
node4	25	5	5	63ms	8ms
node5	125	5	25	136ms	8ms
node6	625	5	125	140ms	8ms
node7	25	5	5	62ms	8ms
node8	125	5	25	137ms	8ms
node9	15422	625	125	204ms	23ms
node10	25	5	5	60ms	8ms
node11	25	5	5	59ms	8ms
node12	125	5	25	136ms	8ms
node13	562	125	5	130ms	8ms
node14	2131	562	5	137ms	10ms
node15	14409	25	2131	203ms	22ms
node16	25	5	5	60ms	12ms
node17	125	5	25	136ms	14ms
node18	625	5	125	138ms	9ms
node19	25	5	5	59ms	8ms

node	psrsize	lsrsize	rsrsize	tippat	repeats
node20	25	5	5	59ms	8ms
node21	625	25	25	199ms	8ms
node22	38841	625	625	200ms	50ms
node23	371435	14409	38841	199ms	204ms
node24	25	5	5	60ms	8ms
node25	125	25	5	130ms	8ms
node26	371435	371435	125	203ms	145ms
node27	25	5	5	65ms	8ms
node28	125	25	5	133ms	8ms
node29	625	5	125	136ms	14ms
node30	25	5	5	60ms	8ms
node31	125	25	5	128ms	8ms
node32	25	5	5	64ms	8ms
node33	25	5	5	60ms	8ms
node34	125	25	5	133ms	8ms
node35	1834	25	125	206ms	10ms
node36	4884	1834	5	136ms	13ms
node37	27188	125	4884	197ms	41ms
node38	37328	5	27188	133ms	44ms
node39	46686	37328	5	137ms	53ms

node	psrsize	lsrsize	rsrsize	tippat	repeats
node40	25	5	5	60ms	8ms
node41	25	5	5	60ms	8ms
node42	125	25	5	137ms	8ms
node43	2579	25	125	195ms	15ms
node44	25	5	5	63ms	10ms
node45	25	5	5	59ms	8ms
node46	610	25	25	200ms	9ms
node47	2406	5	610	134ms	10ms
node48	6705	5	2406	138ms	15ms
node49	14601	6705	5	128ms	22ms
node50	25724	14601	5	136ms	33ms
node51	38948	25724	5	133ms	44ms
node52	49793	38948	5	134ms	53ms
node53	371435	2579	49793	197ms	179ms
node54	25	5	5	61ms	8ms
node55	25	5	5	60ms	8ms
node56	125	25	5	137ms	7ms
node57	613	125	5	134ms	8ms
node58	6864	25	613	202ms	13ms
node59	15086	6864	5	139ms	21ms

node	psrsize	lsrsize	rsrsize	tippat	repeats
node60	25	5	5	65ms	7ms
node61	25	5	5	61ms	7ms
node62	125	25	5	140ms	7ms
node63	25	5	5	60ms	13ms
node64	125	25	5	139ms	10ms
node65	5194	125	125	203ms	13ms
node66	11462	5194	5	138ms	20ms
node67	21034	5	11462	130ms	29ms
node68	25	5	5	63ms	8ms
node69	125	5	25	132ms	8ms
node70	371435	21034	125	204ms	178ms
node71	371435	25	371435	202ms	145ms
node72	371435	15086	371435	204ms	166ms
node73	371435	371435	371435	191ms	198ms
node74	25	5	5	64ms	8ms
node75	25	5	5	59ms	8ms
node76	125	5	25	139ms	8ms
node77	620	125	5	140ms	8ms
node78	25	5	5	61ms	8ms
node79	125	25	5	139ms	8ms

node	psrsize	lsrsize	rsrsize	tippat	repeats
node80	616	125	5	132ms	8ms
node81	28798	620	616	201ms	39ms
node82	62055	25	28798	197ms	77ms
node83	25	5	5	61ms	7ms
node84	125	25	5	138ms	7ms
node85	625	5	125	135ms	8ms
node86	25	5	5	65ms	13ms
node87	7684	625	25	194ms	16ms
node88	25	5	5	65ms	8ms
node89	29117	7684	25	193ms	41ms
node90	371435	62055	29117	199ms	217ms
node91	371435	371435	371435	198ms	198ms
node92	371435	46686	371435	200ms	181ms
node93	371435	625	371435	198ms	152ms
node94	371435	371435	371435	194ms	200ms
node95	25	5	5	65ms	8ms
node96	25	5	5	60ms	8ms
node97	125	25	5	131ms	8ms
node98	25	5	5	64ms	8ms
node99	2812	125	25	199ms	11ms

node	psrsize	lsrsize	rsrsize	tippat	repeats
node100	25	5	5	62ms	8ms
node101	125	5	25	135ms	8ms
node102	25	5	5	65ms	8ms
node103	2442	125	25	191ms	10ms
node104	25	5	5	65ms	8ms
node105	125	5	25	137ms	8ms
node106	26716	2442	125	201ms	36ms
node107	25	5	5	61ms	8ms
node108	125	25	5	137ms	8ms
node109	591	125	5	137ms	8ms
node110	2073	591	5	138ms	10ms
node111	5204	2073	5	133ms	12ms
node112	25	5	5	65ms	8ms
node113	125	5	25	133ms	8ms
node114	25043	5204	125	199ms	40ms
node115	371435	26716	25043	201ms	182ms
node116	371435	2812	371435	197ms	151ms
node117	25	5	5	60ms	8ms
node118	125	25	5	135ms	8ms
node119	371435	371435	125	204ms	147ms

node	psrsize	lsrsize	rsrsize	tippat	repeats
node120	371435	371435	5	143ms	137ms
node121	371435	25	371435	215ms	146ms
node122	371435	371435	371435	202ms	198ms
node123	371435	15422	371435	205ms	159ms
node124	371435	125	371435	198ms	145ms
node125	371435	25	371435	215ms	143ms
node126	25	5	5	72ms	8ms
node127	371435	371435	25	205ms	147ms
node128	25	5	5	65ms	8ms
node129	25	5	5	72ms	8ms
node130	625	25	25	199ms	8ms
node131	3015	5	625	150ms	10ms
node132	11258	5	3015	144ms	18ms
node133	371435	371435	11258	204ms	158ms
node134	371435	371435	5	147ms	136ms
node135	371435	25	371435	199ms	145ms
node136	25	5	5	60ms	8ms
node137	125	5	25	137ms	8ms
node138	536	5	125	130ms	8ms
node139	25	5	5	66ms	8ms
node140	125	5	25	134ms	8ms
node141	9013	536	125	197ms	16ms