

Libpll sequential benchmarks

February 2, 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	SR bclv
node0	64	15	15	101ms	62ms
node1	130	15	64	335ms	123ms
node2	33	15	15	96ms	36ms
node3	193	130	33	782ms	202ms
node4	35	15	15	93ms	35ms
node5	247	193	35	773ms	249ms
node6	305	247	15	328ms	277ms
node7	90	15	15	97ms	73ms
node8	200	15	90	321ms	181ms
node9	95	15	15	97ms	85ms
node10	200	15	95	325ms	185ms
node11	33	15	15	92ms	43ms
node12	69	15	33	321ms	67ms
node13	281	200	69	761ms	304ms
node14	90	15	15	95ms	81ms
node15	166	15	90	329ms	157ms
node16	271	15	166	323ms	236ms
node17	395	281	271	918ms	549ms
node18	423	200	395	906ms	530ms
node19	76	15	15	95ms	68ms

node	psrsize	lsrsize	rsrsize	tippat	SR bclv
node20	139	15	76	327ms	126ms
node21	238	15	139	359ms	212ms
node22	51	15	15	116ms	46ms
node23	53	15	15	110ms	46ms
node24	82	53	15	332ms	76ms
node25	54	15	15	95ms	47ms
node26	81	15	54	328ms	76ms
node27	141	82	81	749ms	173ms
node28	36	15	15	90ms	39ms
node29	60	15	36	340ms	58ms
node30	44	15	15	117ms	40ms
node31	98	60	44	756ms	111ms
node32	189	141	98	754ms	232ms
node33	214	15	189	325ms	186ms
node34	230	51	214	755ms	231ms
node35	58	15	15	98ms	48ms
node36	110	58	15	325ms	91ms
node37	51	15	15	97ms	46ms
node38	36	15	15	92ms	39ms
node39	96	51	36	751ms	100ms

node	psrsize	lsrsize	rsrsize	tippat	SR bclv
node40	128	15	96	326ms	115ms
node41	213	110	128	756ms	249ms
node42	234	15	213	326ms	206ms
node43	30	15	15	93ms	36ms
node44	67	15	30	325ms	62ms
node45	84	15	15	96ms	80ms
node46	186	67	84	757ms	209ms
node47	293	234	186	759ms	392ms
node48	346	230	293	793ms	473ms
node49	410	238	346	759ms	548ms
node50	479	423	410	817ms	747ms
node51	84	15	15	110ms	74ms
node52	85	15	15	102ms	82ms
node53	250	84	85	770ms	263ms
node54	57	15	15	92ms	54ms
node55	93	15	57	328ms	85ms
node56	122	93	15	323ms	109ms
node57	184	122	15	328ms	157ms
node58	227	15	184	327ms	193ms
node59	113	15	15	100ms	109ms

node	psrsize	lsrsize	rsrsize	tippat	SR bclv
node60	354	227	113	758ms	379ms
node61	405	250	354	759ms	527ms
node62	503	479	405	764ms	748ms
node63	116	15	15	103ms	117ms
node64	259	15	116	323ms	242ms
node65	509	503	259	761ms	649ms
node66	125	15	15	101ms	114ms
node67	284	125	15	325ms	258ms
node68	51	15	15	95ms	50ms
node69	55	15	15	96ms	55ms
node70	124	51	55	755ms	142ms
node71	52	15	15	94ms	43ms
node72	92	15	52	322ms	73ms
node73	51	15	15	92ms	53ms
node74	98	15	51	325ms	88ms
node75	172	92	98	753ms	200ms
node76	219	124	172	761ms	283ms
node77	46	15	15	95ms	47ms
node78	95	46	15	326ms	87ms
node79	46	15	15	95ms	47ms

node	psrsize	lsrsize	rsrsize	tippat	SR bclv
node80	46	15	15	93ms	46ms
node81	38	15	15	95ms	34ms
node82	82	46	38	756ms	95ms
node83	122	46	82	742ms	142ms
node84	35	15	15	91ms	37ms
node85	60	15	35	324ms	53ms
node86	199	122	60	748ms	204ms
node87	266	95	199	764ms	291ms
node88	332	219	266	745ms	448ms
node89	57	15	15	96ms	49ms
node90	48	15	15	92ms	42ms
node91	51	15	15	97ms	46ms
node92	44	15	15	95ms	42ms
node93	74	44	15	327ms	65ms
node94	126	51	74	748ms	138ms
node95	164	48	126	763ms	165ms
node96	40	15	15	94ms	43ms
node97	56	15	15	94ms	51ms
node98	131	40	56	746ms	138ms
node99	264	164	131	759ms	318ms

node	psrsize	lsrsize	rsrsize	tippat	SR bclv
node100	297	57	264	764ms	293ms
node101	318	15	297	326ms	286ms
node102	52	15	15	91ms	52ms
node103	50	15	15	97ms	46ms
node104	140	52	50	749ms	155ms
node105	47	15	15	92ms	46ms
node106	59	15	15	94ms	53ms
node107	122	47	59	768ms	135ms
node108	246	140	122	752ms	316ms
node109	63	15	15	95ms	58ms
node110	101	15	63	322ms	90ms
node111	55	15	15	93ms	51ms
node112	89	15	55	322ms	79ms
node113	152	89	15	331ms	133ms
node114	184	152	15	329ms	163ms
node115	241	101	184	755ms	273ms
node116	327	246	241	745ms	466ms
node117	22	15	15	91ms	24ms
node118	17	15	15	88ms	21ms
node119	19	17	15	323ms	21ms

node	psrsize	lsrsize	rsrsize	tippat	SR bclv
node120	28	22	19	747ms	33ms
node121	80	15	15	96ms	71ms
node122	136	28	80	750ms	126ms
node123	53	15	15	95ms	52ms
node124	108	15	53	327ms	96ms
node125	154	108	15	324ms	132ms
node126	249	136	154	758ms	310ms
node127	57	15	15	95ms	49ms
node128	140	57	15	325ms	119ms
node129	311	249	140	788ms	358ms
node130	392	327	311	761ms	572ms
node131	418	318	392	755ms	611ms
node132	445	332	418	765ms	642ms
node133	481	284	445	760ms	665ms
node134	529	509	481	813ms	853ms
node135	529	15	529	328ms	456ms
node136	531	305	529	758ms	707ms
node137	134	15	15	95ms	116ms