

# LEAP results

August 31, 2013

## 1 Concurrent examples

	formula info			#calls performed to each DP							
	index	#vc	#query	Loc	Num	TLL	TSL	TSLK <sub>1</sub>	TSLK <sub>2</sub>	TSLK <sub>3</sub>	TSLK <sub>4</sub>
mutex	2	19	19	18	1	—	—	—	—	—	—
minticket	1	19	19	18	1	—	—	—	—	—	—
notsame	2	19	19	18	1	—	—	—	—	—	—
activelow	1	19	19	17	2	—	—	—	—	—	—
mutexS	2	19	19	18	1	—	—	—	—	—	—
minticketS	1	19	19	17	2	—	—	—	—	—	—
notsameS	2	19	19	18	1	—	—	—	—	—	—
activelowS	1	19	19	17	2	—	—	—	—	—	—
list	0	61	610	472	—	138	—	—	—	—	—
order	1	121	121	69	—	52	—	—	—	—	—
lock	1	121	121	82	—	39	—	—	—	—	—
next	1	121	121	68	—	53	—	—	—	—	—
region	1	121	147	120	—	27	—	—	—	—	—
disj	2	181	181	177	—	4	—	—	—	—	—

	# queries	individual vc time (sec.)			total dp time (sec.)	total analysis time (sec.)
		fastest	slowest	average		
mutex	19	0.001	0.008	0.002	0.032	0.080
minticket	19	0.001	0.004	0.001	0.012	0.028
notsame	19	0.001	0.004	0.001	0.024	0.088
activelow	19	0.001	0.004	0.001	0.008	0.028
mutexS	19	0.001	0.012	0.002	0.036	0.088
minticketS	19	0.001	0.008	0.001	0.012	0.040
notsameS	19	0.001	0.004	0.001	0.020	0.084
activelowS	19	0.001	0.004	0.001	0.008	0.032
list	61	0.001	9.075	0.250	15.225	16.420
order	121	0.001	0.200	0.020	2.300	3.930
lock	121	0.001	0.024	0.005	0.588	1.380
next	121	0.001	1.024	0.024	2.856	5.170
region	121	0.001	8.160	0.076	9.210	10.333
disj	181	0.001	0.020	0.001	0.244	0.864

## 2 Sequential examples

	formula info			#calls performed to each DP							
	index	#vc	#query	Loc	Num	TLL	TSL	TSLK <sub>1</sub>	TSLK <sub>2</sub>	TSLK <sub>3</sub>	TSLK <sub>4</sub>
skiplist <sub>1</sub>	0	77	119	0	—	—	—	119	—	—	—
region <sub>1</sub>	0	77	119	0	—	—	—	119	—	—	—
next <sub>1</sub>	0	77	79	0	—	—	—	79	—	—	—
order <sub>1</sub>	0	77	79	0	—	—	—	79	—	—	—
value <sub>1</sub>	0	77	79	0	—	—	—	79	—	—	—
skiplist <sub>2</sub>	0	79	137	0	—	—	—	—	137	—	—
region <sub>2</sub>	0	79	122	0	—	—	—	—	122	—	—
next <sub>2</sub>	0	79	82	0	—	—	—	—	82	—	—
order <sub>2</sub>	0	79	82	0	—	—	—	—	82	—	—
value <sub>2</sub>	0	79	82	0	—	—	—	—	82	—	—
skiplist	0	80	560	0	8760	—	560	47	94	46	16
region	0	80	1346	0	7343	—	1346	160	254	116	—
next	0	80	1346	0	1053	—	1346	43	60	30	—
order	0	80	9559	0	2136	—	2136	643	732	182	5
value	0	80	82	0	11	—	82	2	1	—	—
levels	0	80	80	0	14	—	80	—	—	—	—

	# queries	individual vc time (sec.)			total dp time (sec.)	total analysis time (sec.)
		fastest	slowest	average		
skiplist <sub>1</sub>	77	0.001	0.208	0.011	0.864	2.060
region <sub>1</sub>	77	0.001	0.128	0.008	0.628	3.044
next <sub>1</sub>	77	0.001	0.032	0.003	0.236	1.560
order <sub>1</sub>	77	0.001	0.056	0.008	0.624	4.684
value <sub>1</sub>	77	0.001	0.012	0.002	0.176	1.024
skiplist <sub>2</sub>	79	0.001	2.856	0.070	5.556	7.580
region <sub>2</sub>	79	0.001	1.036	0.039	3.048	6.248
next <sub>2</sub>	79	0.001	0.076	0.006	0.472	1.944
order <sub>2</sub>	79	0.001	0.888	0.020	1.552	7.748
value <sub>2</sub>	79	0.001	0.012	0.001	0.056	0.992
skiplist	80	0.001	22.185	0.718	57.468	58.556
region	80	0.001	79.205	2.284	182.727	191.712
next	80	0.001	0.872	0.063	5.020	12.929
order	80	0.001	17.681	0.707	56.584	84.925
value	80	0.001	0.028	0.001	0.080	0.484
levels	80	0.001	0.004	0.001	0.036	0.748