

mysqlslap

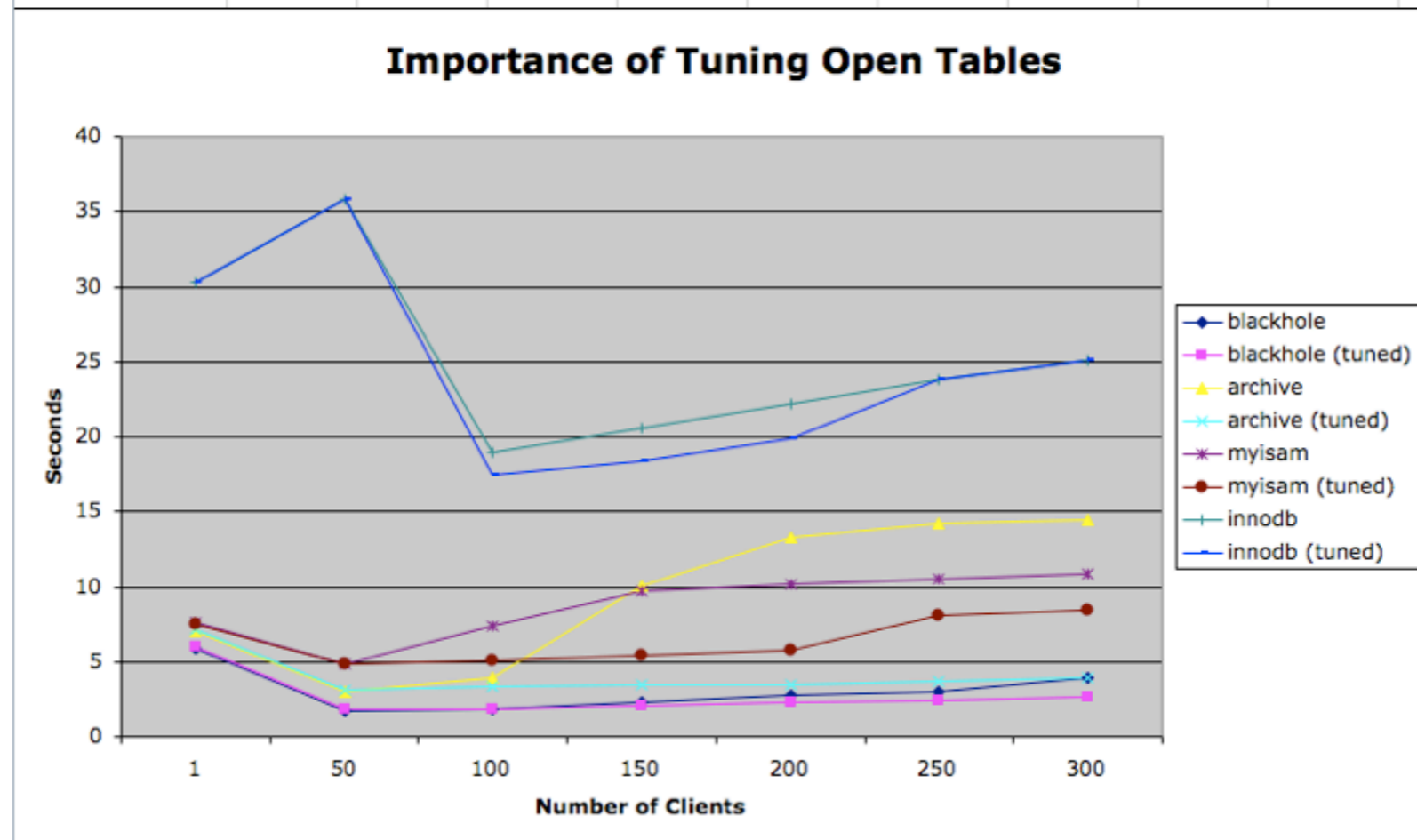
(go ahead and beat your server)

Why?

- Anecdotal vs Empirical
- One Tool (and it compiles)

Ask Questions

	1	50	100	150	200	250	300
blackhole	5.918	1.779	1.88	2.259	2.825	2.951	3.926
blackhole (tuned)	6.002	1.799	1.892	2.108	2.359	2.416	2.679
archive	7.024	3.046	3.88	10.031	13.322	14.183	14.415
archive (tuned)	7.139	3.105	3.321	3.481	3.521	3.73	3.881
myisam	7.574	4.891	7.45	9.686	10.2	10.511	10.901
myisam (tuned)	7.516	4.815	5.139	5.487	5.767	8.134	8.466
innodb	30.248	35.825	18.902	20.615	22.186	23.797	25.13
innodb (tuned)	30.232	35.793	17.455	18.406	19.872	23.784	25.104



--concurrency

- =10
- =5,10,15,20
- =*

--iterations

- = 10
- This allows
 - Min, Max, Avg
 - Standard deviation in 5.2

--engine

- `--engine="blackhole,myisam,innodb"`
- `--engine="memory:MAX_ROWS=200000"`
- Understands limitations of specific engines (mainly Blackhole)

Sample

```
mysqlslap --concurrency=10,100 --iterations=10 --number-  
int-cols=2 --number-char-cols=3 --auto-generate-sql --csv=/  
tmp/write-scale.csv --engine=myisam,innodb --auto-  
generate-sql-add-autoincrement --auto-generate-sql-load-  
type=write --auto-generate-sql-execute-num-  
ber=1000
```

--auto-generate-sql- load-type

- write (inserts)
- key (primary key)
- mixed (read and write)
- update (on primary key)
- read (scans)

Keys and Indexes

- `--auto-generate-sql-add-autoincrement`
- `--auto-generate-sql-guid-primary`
- `--auto-generate-sql-secondary-indexes=`

Types

- `--number-int-cols`
- `--number-char-cols`
- `--number-blob-cols`
- `--number-blob-cols=2:64048`
- `--number-blob-cols=3:32024/64048`

Hooks

- `--post-query`
- `--pre-query`
- `--post-system`
- `--pre-system`

Output!

- By default it prints to screen
- `--CSV`
- `--label="My Test name"`

CSV

innodb,60 Rows,1.129,1.106,1.159,11.295,0.016,25,1000

Engine

Label

Average

Min

Max

Max
Time

Clients

Standard Deviation

Executed Rows Per Client

Other!

- `--disconnect`
- `--commit`
- `--only-print`
- `--silent`
- `--auto-generate-sql-select-columns="a,b,c" (5.2)`

Timing Calls (5.2)

- `--timer-length`
- `--burnin`

But what about my data?

```
mysqlslap --create="CREATE TABLE A (a int);INSERT INTO A (23)" --query="SELECT * FROM A" --concurrency=50 --iterations=200
```

--create=

- --create="select foo()"
- --create=~ /mytest_data

Future!

- Extending built in tests to:
 - Mix/Specify execute number
 - Join Built in Tests
- Test Language/Config File
- Multi-host support (hey Stewart!)