**SysBench**

SysBench is a modular, cross-platform and multi-threaded benchmark tool for evaluating OS parameters that are important for a system running a database under intensive load.

You can quickly get a benchmark of system performance without setting up complex database benchmarks or without using a database at all. We can quickly get the following information

* file i/o performance
* scheduler performance
* memory allocation and transfer speed
* POSIX threads implementation performance
* database server performance (OLTP benchmark)

**Installing sysbench on CentOS**

1. **Install EPEL Repo:**

#### CentOS 6:

yum install http://dl.fedoraproject.org/pub/epel/6/x86\_64/epel-release-6-8.noarch.rpm

#### CentOS 7:

yum install http://dl.fedoraproject.org/pub/epel/7/x86\_64/e/epel-release-7-2.noarch.rpm

1. **Installation of sysbench:**

On once you have one of these repos setup, you can install with yum.yum.

yum -y install sysbench

1. **Test CPU with sysbench**

Test your CPU with sysbench.

sysbench --test=cpu --cpu-max-prime=10000 run

1. **Test MySQL db with sysbench**

Create test db in mysql

echo "create database sbtest;" | mysql -uroot -p  
echo "grant all on sbtest.\* to testdb@localhost identified by 'testpw';" | mysql -uroot -p  
echo "flush privileges;" | mysql -uroot -p

1. **Prepare testing database**

sysbench --test=/usr/share/doc/sysbench/tests/db/oltp.lua --mysql-table-engine=innodb --oltp-table-size=250000 --mysql-user=testdb --mysql-password=testpw --mysql-socket=/var/lib/mysql/mysql.sock prepare

1. **Run a read test**

sysbench --num-threads=16 --max-requests=500000 --test=/usr/share/doc/sysbench/tests/db/oltp.lua --oltp-table-size=250000 --mysql-socket=/var/lib/mysql/mysql.sock --oltp-read-only --mysql-user=testdb --mysql-password=testpw run

1. **Run a read/write test**

sysbench --num-threads=16 --max-requests=500000 --test=/usr/share/doc/sysbench/tests/db/oltp.lua --oltp-table-size=250000 --mysql-socket=/var/lib/mysql/mysql.sock --oltp-test-mode=complex --mysql-user=testdb --mysql-password=testpw run