

Last login: Sat Apr 2 22:19:03 on ttys000

LinLindeMacBook-Pro:~ linlinding\$ cd Documents/6700S/0Sproject/  
installfile/PerfKitBenchmark-1.2.0

LinLindeMacBook-Pro:PerfKitBenchmark-1.2.0 linlinding\$ gcloud  
compute machine-types list

| NAME           | ZONE           | CPU | MEMORY_GB | DEPRECATED |
|----------------|----------------|-----|-----------|------------|
| f1-micro       | asia-east1-c   | 1   | 0.60      |            |
| g1-small       | asia-east1-c   | 1   | 1.70      |            |
| n1-highcpu-16  | asia-east1-c   | 16  | 14.40     |            |
| n1-highcpu-2   | asia-east1-c   | 2   | 1.80      |            |
| n1-highcpu-32  | asia-east1-c   | 32  | 28.80     |            |
| n1-highcpu-4   | asia-east1-c   | 4   | 3.60      |            |
| n1-highcpu-8   | asia-east1-c   | 8   | 7.20      |            |
| n1-highmem-16  | asia-east1-c   | 16  | 104.00    |            |
| n1-highmem-2   | asia-east1-c   | 2   | 13.00     |            |
| n1-highmem-32  | asia-east1-c   | 32  | 208.00    |            |
| n1-highmem-4   | asia-east1-c   | 4   | 26.00     |            |
| n1-highmem-8   | asia-east1-c   | 8   | 52.00     |            |
| n1-standard-1  | asia-east1-c   | 1   | 3.75      |            |
| n1-standard-16 | asia-east1-c   | 16  | 60.00     |            |
| n1-standard-2  | asia-east1-c   | 2   | 7.50      |            |
| n1-standard-32 | asia-east1-c   | 32  | 120.00    |            |
| n1-standard-4  | asia-east1-c   | 4   | 15.00     |            |
| n1-standard-8  | asia-east1-c   | 8   | 30.00     |            |
| f1-micro       | europa-west1-d | 1   | 0.60      |            |
| g1-small       | europa-west1-d | 1   | 1.70      |            |
| n1-highcpu-16  | europa-west1-d | 16  | 14.40     |            |
| n1-highcpu-2   | europa-west1-d | 2   | 1.80      |            |
| n1-highcpu-32  | europa-west1-d | 32  | 28.80     |            |
| n1-highcpu-4   | europa-west1-d | 4   | 3.60      |            |
| n1-highcpu-8   | europa-west1-d | 8   | 7.20      |            |
| n1-highmem-16  | europa-west1-d | 16  | 104.00    |            |
| n1-highmem-2   | europa-west1-d | 2   | 13.00     |            |
| n1-highmem-32  | europa-west1-d | 32  | 208.00    |            |
| n1-highmem-4   | europa-west1-d | 4   | 26.00     |            |
| n1-highmem-8   | europa-west1-d | 8   | 52.00     |            |
| n1-standard-1  | europa-west1-d | 1   | 3.75      |            |
| n1-standard-16 | europa-west1-d | 16  | 60.00     |            |
| n1-standard-2  | europa-west1-d | 2   | 7.50      |            |
| n1-standard-32 | europa-west1-d | 32  | 120.00    |            |
| n1-standard-4  | europa-west1-d | 4   | 15.00     |            |
| n1-standard-8  | europa-west1-d | 8   | 30.00     |            |
| f1-micro       | asia-east1-a   | 1   | 0.60      |            |
| g1-small       | asia-east1-a   | 1   | 1.70      |            |
| n1-highcpu-16  | asia-east1-a   | 16  | 14.40     |            |
| n1-highcpu-2   | asia-east1-a   | 2   | 1.80      |            |
| n1-highcpu-32  | asia-east1-a   | 32  | 28.80     |            |
| n1-highcpu-4   | asia-east1-a   | 4   | 3.60      |            |
| n1-highcpu-8   | asia-east1-a   | 8   | 7.20      |            |
| n1-highmem-16  | asia-east1-a   | 16  | 104.00    |            |

|                |              |    |        |
|----------------|--------------|----|--------|
| n1-highmem-2   | asia-east1-a | 2  | 13.00  |
| n1-highmem-32  | asia-east1-a | 32 | 208.00 |
| n1-highmem-4   | asia-east1-a | 4  | 26.00  |
| n1-highmem-8   | asia-east1-a | 8  | 52.00  |
| n1-standard-1  | asia-east1-a | 1  | 3.75   |
| n1-standard-16 | asia-east1-a | 16 | 60.00  |
| n1-standard-2  | asia-east1-a | 2  | 7.50   |
| n1-standard-32 | asia-east1-a | 32 | 120.00 |
| n1-standard-4  | asia-east1-a | 4  | 15.00  |
| n1-standard-8  | asia-east1-a | 8  | 30.00  |
| f1-micro       | asia-east1-b | 1  | 0.60   |
| g1-small       | asia-east1-b | 1  | 1.70   |
| n1-highcpu-16  | asia-east1-b | 16 | 14.40  |
| n1-highcpu-2   | asia-east1-b | 2  | 1.80   |
| n1-highcpu-32  | asia-east1-b | 32 | 28.80  |
| n1-highcpu-4   | asia-east1-b | 4  | 3.60   |
| n1-highcpu-8   | asia-east1-b | 8  | 7.20   |
| n1-highmem-16  | asia-east1-b | 16 | 104.00 |
| n1-highmem-2   | asia-east1-b | 2  | 13.00  |
| n1-highmem-32  | asia-east1-b | 32 | 208.00 |
| n1-highmem-4   | asia-east1-b | 4  | 26.00  |
| n1-highmem-8   | asia-east1-b | 8  | 52.00  |
| n1-standard-1  | asia-east1-b | 1  | 3.75   |
| n1-standard-16 | asia-east1-b | 16 | 60.00  |
| n1-standard-2  | asia-east1-b | 2  | 7.50   |
| n1-standard-32 | asia-east1-b | 32 | 120.00 |
| n1-standard-4  | asia-east1-b | 4  | 15.00  |
| n1-standard-8  | asia-east1-b | 8  | 30.00  |
| f1-micro       | us-east1-c   | 1  | 0.60   |
| g1-small       | us-east1-c   | 1  | 1.70   |
| n1-highcpu-16  | us-east1-c   | 16 | 14.40  |
| n1-highcpu-2   | us-east1-c   | 2  | 1.80   |
| n1-highcpu-32  | us-east1-c   | 32 | 28.80  |
| n1-highcpu-4   | us-east1-c   | 4  | 3.60   |
| n1-highcpu-8   | us-east1-c   | 8  | 7.20   |
| n1-highmem-16  | us-east1-c   | 16 | 104.00 |
| n1-highmem-2   | us-east1-c   | 2  | 13.00  |
| n1-highmem-32  | us-east1-c   | 32 | 208.00 |
| n1-highmem-4   | us-east1-c   | 4  | 26.00  |
| n1-highmem-8   | us-east1-c   | 8  | 52.00  |
| n1-standard-1  | us-east1-c   | 1  | 3.75   |
| n1-standard-16 | us-east1-c   | 16 | 60.00  |
| n1-standard-2  | us-east1-c   | 2  | 7.50   |
| n1-standard-32 | us-east1-c   | 32 | 120.00 |
| n1-standard-4  | us-east1-c   | 4  | 15.00  |
| n1-standard-8  | us-east1-c   | 8  | 30.00  |
| f1-micro       | us-east1-d   | 1  | 0.60   |
| g1-small       | us-east1-d   | 1  | 1.70   |
| n1-highcpu-16  | us-east1-d   | 16 | 14.40  |
| n1-highcpu-2   | us-east1-d   | 2  | 1.80   |

|                |                |    |        |
|----------------|----------------|----|--------|
| n1-highcpu-32  | us-east1-d     | 32 | 28.80  |
| n1-highcpu-4   | us-east1-d     | 4  | 3.60   |
| n1-highcpu-8   | us-east1-d     | 8  | 7.20   |
| n1-highmem-16  | us-east1-d     | 16 | 104.00 |
| n1-highmem-2   | us-east1-d     | 2  | 13.00  |
| n1-highmem-32  | us-east1-d     | 32 | 208.00 |
| n1-highmem-4   | us-east1-d     | 4  | 26.00  |
| n1-highmem-8   | us-east1-d     | 8  | 52.00  |
| n1-standard-1  | us-east1-d     | 1  | 3.75   |
| n1-standard-16 | us-east1-d     | 16 | 60.00  |
| n1-standard-2  | us-east1-d     | 2  | 7.50   |
| n1-standard-32 | us-east1-d     | 32 | 120.00 |
| n1-standard-4  | us-east1-d     | 4  | 15.00  |
| n1-standard-8  | us-east1-d     | 8  | 30.00  |
| f1-micro       | europa-west1-b | 1  | 0.60   |
| g1-small       | europa-west1-b | 1  | 1.70   |
| n1-highcpu-16  | europa-west1-b | 16 | 14.40  |
| n1-highcpu-2   | europa-west1-b | 2  | 1.80   |
| n1-highcpu-4   | europa-west1-b | 4  | 3.60   |
| n1-highcpu-8   | europa-west1-b | 8  | 7.20   |
| n1-highmem-16  | europa-west1-b | 16 | 104.00 |
| n1-highmem-2   | europa-west1-b | 2  | 13.00  |
| n1-highmem-4   | europa-west1-b | 4  | 26.00  |
| n1-highmem-8   | europa-west1-b | 8  | 52.00  |
| n1-standard-1  | europa-west1-b | 1  | 3.75   |
| n1-standard-16 | europa-west1-b | 16 | 60.00  |
| n1-standard-2  | europa-west1-b | 2  | 7.50   |
| n1-standard-4  | europa-west1-b | 4  | 15.00  |
| n1-standard-8  | europa-west1-b | 8  | 30.00  |
| f1-micro       | europa-west1-c | 1  | 0.60   |
| g1-small       | europa-west1-c | 1  | 1.70   |
| n1-highcpu-16  | europa-west1-c | 16 | 14.40  |
| n1-highcpu-2   | europa-west1-c | 2  | 1.80   |
| n1-highcpu-32  | europa-west1-c | 32 | 28.80  |
| n1-highcpu-4   | europa-west1-c | 4  | 3.60   |
| n1-highcpu-8   | europa-west1-c | 8  | 7.20   |
| n1-highmem-16  | europa-west1-c | 16 | 104.00 |
| n1-highmem-2   | europa-west1-c | 2  | 13.00  |
| n1-highmem-32  | europa-west1-c | 32 | 208.00 |
| n1-highmem-4   | europa-west1-c | 4  | 26.00  |
| n1-highmem-8   | europa-west1-c | 8  | 52.00  |
| n1-standard-1  | europa-west1-c | 1  | 3.75   |
| n1-standard-16 | europa-west1-c | 16 | 60.00  |
| n1-standard-2  | europa-west1-c | 2  | 7.50   |
| n1-standard-32 | europa-west1-c | 32 | 120.00 |
| n1-standard-4  | europa-west1-c | 4  | 15.00  |
| n1-standard-8  | europa-west1-c | 8  | 30.00  |
| f1-micro       | us-central1-a  | 1  | 0.60   |
| g1-small       | us-central1-a  | 1  | 1.70   |
| n1-highcpu-16  | us-central1-a  | 16 | 14.40  |

|                |               |    |        |
|----------------|---------------|----|--------|
| n1-highcpu-2   | us-central1-a | 2  | 1.80   |
| n1-highcpu-4   | us-central1-a | 4  | 3.60   |
| n1-highcpu-8   | us-central1-a | 8  | 7.20   |
| n1-highmem-16  | us-central1-a | 16 | 104.00 |
| n1-highmem-2   | us-central1-a | 2  | 13.00  |
| n1-highmem-4   | us-central1-a | 4  | 26.00  |
| n1-highmem-8   | us-central1-a | 8  | 52.00  |
| n1-standard-1  | us-central1-a | 1  | 3.75   |
| n1-standard-16 | us-central1-a | 16 | 60.00  |
| n1-standard-2  | us-central1-a | 2  | 7.50   |
| n1-standard-4  | us-central1-a | 4  | 15.00  |
| n1-standard-8  | us-central1-a | 8  | 30.00  |
| f1-micro       | us-central1-c | 1  | 0.60   |
| g1-small       | us-central1-c | 1  | 1.70   |
| n1-highcpu-16  | us-central1-c | 16 | 14.40  |
| n1-highcpu-2   | us-central1-c | 2  | 1.80   |
| n1-highcpu-32  | us-central1-c | 32 | 28.80  |
| n1-highcpu-4   | us-central1-c | 4  | 3.60   |
| n1-highcpu-8   | us-central1-c | 8  | 7.20   |
| n1-highmem-16  | us-central1-c | 16 | 104.00 |
| n1-highmem-2   | us-central1-c | 2  | 13.00  |
| n1-highmem-32  | us-central1-c | 32 | 208.00 |
| n1-highmem-4   | us-central1-c | 4  | 26.00  |
| n1-highmem-8   | us-central1-c | 8  | 52.00  |
| n1-standard-1  | us-central1-c | 1  | 3.75   |
| n1-standard-16 | us-central1-c | 16 | 60.00  |
| n1-standard-2  | us-central1-c | 2  | 7.50   |
| n1-standard-32 | us-central1-c | 32 | 120.00 |
| n1-standard-4  | us-central1-c | 4  | 15.00  |
| n1-standard-8  | us-central1-c | 8  | 30.00  |
| f1-micro       | us-central1-b | 1  | 0.60   |
| g1-small       | us-central1-b | 1  | 1.70   |
| n1-highcpu-16  | us-central1-b | 16 | 14.40  |
| n1-highcpu-2   | us-central1-b | 2  | 1.80   |
| n1-highcpu-32  | us-central1-b | 32 | 28.80  |
| n1-highcpu-4   | us-central1-b | 4  | 3.60   |
| n1-highcpu-8   | us-central1-b | 8  | 7.20   |
| n1-highmem-16  | us-central1-b | 16 | 104.00 |
| n1-highmem-2   | us-central1-b | 2  | 13.00  |
| n1-highmem-32  | us-central1-b | 32 | 208.00 |
| n1-highmem-4   | us-central1-b | 4  | 26.00  |
| n1-highmem-8   | us-central1-b | 8  | 52.00  |
| n1-standard-1  | us-central1-b | 1  | 3.75   |
| n1-standard-16 | us-central1-b | 16 | 60.00  |
| n1-standard-2  | us-central1-b | 2  | 7.50   |
| n1-standard-32 | us-central1-b | 32 | 120.00 |
| n1-standard-4  | us-central1-b | 4  | 15.00  |
| n1-standard-8  | us-central1-b | 8  | 30.00  |
| f1-micro       | us-central1-f | 1  | 0.60   |
| g1-small       | us-central1-f | 1  | 1.70   |

|                |               |    |        |
|----------------|---------------|----|--------|
| n1-highcpu-16  | us-central1-f | 16 | 14.40  |
| n1-highcpu-2   | us-central1-f | 2  | 1.80   |
| n1-highcpu-32  | us-central1-f | 32 | 28.80  |
| n1-highcpu-4   | us-central1-f | 4  | 3.60   |
| n1-highcpu-8   | us-central1-f | 8  | 7.20   |
| n1-highmem-16  | us-central1-f | 16 | 104.00 |
| n1-highmem-2   | us-central1-f | 2  | 13.00  |
| n1-highmem-32  | us-central1-f | 32 | 208.00 |
| n1-highmem-4   | us-central1-f | 4  | 26.00  |
| n1-highmem-8   | us-central1-f | 8  | 52.00  |
| n1-standard-1  | us-central1-f | 1  | 3.75   |
| n1-standard-16 | us-central1-f | 16 | 60.00  |
| n1-standard-2  | us-central1-f | 2  | 7.50   |
| n1-standard-32 | us-central1-f | 32 | 120.00 |
| n1-standard-4  | us-central1-f | 4  | 15.00  |
| n1-standard-8  | us-central1-f | 8  | 30.00  |
| f1-micro       | us-east1-b    | 1  | 0.60   |
| g1-small       | us-east1-b    | 1  | 1.70   |
| n1-highcpu-16  | us-east1-b    | 16 | 14.40  |
| n1-highcpu-2   | us-east1-b    | 2  | 1.80   |
| n1-highcpu-32  | us-east1-b    | 32 | 28.80  |
| n1-highcpu-4   | us-east1-b    | 4  | 3.60   |
| n1-highcpu-8   | us-east1-b    | 8  | 7.20   |
| n1-highmem-16  | us-east1-b    | 16 | 104.00 |
| n1-highmem-2   | us-east1-b    | 2  | 13.00  |
| n1-highmem-32  | us-east1-b    | 32 | 208.00 |
| n1-highmem-4   | us-east1-b    | 4  | 26.00  |
| n1-highmem-8   | us-east1-b    | 8  | 52.00  |
| n1-standard-1  | us-east1-b    | 1  | 3.75   |
| n1-standard-16 | us-east1-b    | 16 | 60.00  |
| n1-standard-2  | us-east1-b    | 2  | 7.50   |
| n1-standard-32 | us-east1-b    | 32 | 120.00 |
| n1-standard-4  | us-east1-b    | 4  | 15.00  |
| n1-standard-8  | us-east1-b    | 8  | 30.00  |

```
LinLindeMacBook-Pro:PerfKitBenchmarker-1.2.0 linlinding$ ./pkb.py --
project=sage-potential-127001 --benchmarks=bonnie++ --machine_type=g1-
small
```

```
2016-04-03 10:52:47,705 998298aa MainThread INFO      Verbose logging
to: /var/folders/_8/p4b95h9j2tzc63n0_z91c30w0000gn/T/
```

```
perfkitbenchmarker/run_998298aa/pkb.log
```

```
2016-04-03 10:52:47,706 998298aa MainThread INFO
```

```
PerfKitBenchmarker version: unknown
```

```
2016-04-03 10:52:47,820 998298aa MainThread INFO      Flag values:
```

```
--machine_type=g1-small
```

```
--project=sage-potential-127001
```

```
--benchmarks=bonnie++
```

```
2016-04-03 10:52:47,850 998298aa MainThread bonnie++(1/1) INFO
```

```
Provisioning resources for benchmark bonnie++
```

```
2016-04-03 10:52:47,852 998298aa Thread-1 bonnie++(1/1) INFO
```

```
Running: gcloud compute networks create pkb-network-998298aa --format
```

```
json --quiet --project sage-potential-127001 --range 10.0.0.0/16
2016-04-03 10:53:13,039 998298aa Thread-1 bonnie++(1/1) INFO
Running: gcloud compute networks describe pkb-network-998298aa --
format json --quiet --project sage-potential-127001
2016-04-03 10:53:14,729 998298aa Thread-1 bonnie++(1/1) INFO
Running: gcloud compute firewall-rules create default-
internal-998298aa --format json --quiet --project sage-
potential-127001 --allow tcp:1-65535,udp:1-65535,icmp --network pkb-
network-998298aa --source-ranges 10.0.0.0/16
2016-04-03 10:53:27,898 998298aa Thread-1 bonnie++(1/1) INFO
Running: gcloud compute firewall-rules describe default-
internal-998298aa --format json --quiet --project sage-
potential-127001
2016-04-03 10:53:30,462 998298aa Thread-6 bonnie++(1/1) INFO
Running: gcloud compute firewall-rules create perfkit-
firewall-998298aa-22 --format json --quiet --project sage-
potential-127001 --allow tcp:22,udp:22 --network pkb-network-998298aa
2016-04-03 10:53:43,851 998298aa Thread-6 bonnie++(1/1) INFO
Running: gcloud compute firewall-rules describe perfkit-
firewall-998298aa-22 --format json --quiet --project sage-
potential-127001
2016-04-03 10:53:45,660 998298aa Thread-6 bonnie++(1/1) INFO
Running: gcloud compute instances create pkb-998298aa-0 --format json
--quiet --project sage-potential-127001 --zone us-central1-a --network
pkb-network-998298aa --image ubuntu-14-04 --boot-disk-auto-delete --
boot-disk-size 10 --boot-disk-type pd-standard --machine-type g1-small
--tags perfkitbenchmarker --no-restart-on-failure --metadata-from-file
sshKeys=/var/folders/_8/p4b95h9j2tz63n0_z91c30w0000gn/T/
perfkitbenchmarker/run_998298aa/key-metadataabJ_jL5 --metadata
owner=linlinding --maintenance-policy TERMINATE
2016-04-03 10:54:27,539 998298aa Thread-6 bonnie++(1/1) INFO
Running: gcloud compute instances describe pkb-998298aa-0 --format
json --quiet --project sage-potential-127001 --zone us-central1-a
2016-04-03 10:54:29,694 998298aa Thread-6 bonnie++(1/1) INFO
Running: gcloud compute instances describe pkb-998298aa-0 --format
json --quiet --project sage-potential-127001 --zone us-central1-a
2016-04-03 10:54:31,434 998298aa Thread-6 bonnie++(1/1) INFO VM:
107.178.217.222
2016-04-03 10:54:31,434 998298aa Thread-6 bonnie++(1/1) INFO
Waiting for boot completion.
2016-04-03 10:54:31,434 998298aa Thread-6 bonnie++(1/1) INFO
Running: ssh -A -p 22 perfkit@107.178.217.222 -2 -o
UserKnownHostsFile=/dev/null -o StrictHostKeyChecking=no -o
IdentitiesOnly=yes -o PreferredAuthentications=publickey -o
PasswordAuthentication=no -o ConnectTimeout=5 -o
GSSAPIAuthentication=no -o ServerAliveInterval=30 -o
ServerAliveCountMax=10 -i /var/folders/_8/
p4b95h9j2tz63n0_z91c30w0000gn/T/perfkitbenchmarker/run_998298aa/
perfkitbenchmarker_keyfile hostname
2016-04-03 10:54:32,428 998298aa Thread-6 bonnie++(1/1) INFO
```

```
Running: ssh -A -p 22 perfkit@107.178.217.222 -2 -o
UserKnownHostsFile=/dev/null -o StrictHostKeyChecking=no -o
IdentitiesOnly=yes -o PreferredAuthentications=publickey -o
PasswordAuthentication=no -o ConnectTimeout=5 -o
GSSAPIAuthentication=no -o ServerAliveInterval=30 -o
ServerAliveCountMax=10 -i /var/folders/_8/
p4b95h9j2tzc63n0_z91c30w0000gn/T/perfkitbenchmark/run_998298aa/
perfkitbenchmark_keyfile hostname
2016-04-03 10:54:33,470 998298aa Thread-6 bonnie++(1/1) INFO
Running: ssh -A -p 22 perfkit@107.178.217.222 -2 -o
UserKnownHostsFile=/dev/null -o StrictHostKeyChecking=no -o
IdentitiesOnly=yes -o PreferredAuthentications=publickey -o
PasswordAuthentication=no -o ConnectTimeout=5 -o
GSSAPIAuthentication=no -o ServerAliveInterval=30 -o
ServerAliveCountMax=10 -i /var/folders/_8/
p4b95h9j2tzc63n0_z91c30w0000gn/T/perfkitbenchmark/run_998298aa/
perfkitbenchmark_keyfile hostname
2016-04-03 10:54:34,608 998298aa Thread-6 bonnie++(1/1) INFO
Running: ssh -A -p 22 perfkit@107.178.217.222 -2 -o
UserKnownHostsFile=/dev/null -o StrictHostKeyChecking=no -o
IdentitiesOnly=yes -o PreferredAuthentications=publickey -o
PasswordAuthentication=no -o ConnectTimeout=5 -o
GSSAPIAuthentication=no -o ServerAliveInterval=30 -o
ServerAliveCountMax=10 -i /var/folders/_8/
p4b95h9j2tzc63n0_z91c30w0000gn/T/perfkitbenchmark/run_998298aa/
perfkitbenchmark_keyfile hostname
2016-04-03 10:54:35,764 998298aa Thread-6 bonnie++(1/1) INFO
Running: ssh -A -p 22 perfkit@107.178.217.222 -2 -o
UserKnownHostsFile=/dev/null -o StrictHostKeyChecking=no -o
IdentitiesOnly=yes -o PreferredAuthentications=publickey -o
PasswordAuthentication=no -o ConnectTimeout=5 -o
GSSAPIAuthentication=no -o ServerAliveInterval=30 -o
ServerAliveCountMax=10 -i /var/folders/_8/
p4b95h9j2tzc63n0_z91c30w0000gn/T/perfkitbenchmark/run_998298aa/
perfkitbenchmark_keyfile hostname
2016-04-03 10:54:43,239 998298aa Thread-6 bonnie++(1/1) INFO
Running: gcloud compute instances add-metadata pkb-998298aa-0 --format
json --quiet --project sage-potential-127001 --zone us-central1-a --
metadata benchmark_uid=bonnie++0,benchmark=bonnie+
+,perfkit_uuid=f867b967-d424-43ca-9a23-78d7f18f7056
2016-04-03 10:55:02,087 998298aa Thread-6 bonnie++(1/1) INFO
Running: gcloud compute disks create pkb-998298aa-0-data-0-0 --format
json --quiet --project sage-potential-127001 --zone us-central1-a --
size 500 --type pd-standard
2016-04-03 10:55:15,671 998298aa Thread-6 bonnie++(1/1) INFO
Running: gcloud compute disks describe pkb-998298aa-0-data-0-0 --
format json --quiet --project sage-potential-127001 --zone us-
central1-a
2016-04-03 10:55:17,334 998298aa Thread-6 bonnie++(1/1) INFO
Running: gcloud compute instances attach-disk pkb-998298aa-0 --format
```

```

json --quiet --project sage-potential-127001 --zone us-central1-a --
device-name pkb-998298aa-0-data-0-0 --disk pkb-998298aa-0-data-0-0
2016-04-03 10:55:35,594 998298aa Thread-6 bonnie++(1/1) INFO
Running: ssh -A -p 22 perfkit@107.178.217.222 -2 -o
UserKnownHostsFile=/dev/null -o StrictHostKeyChecking=no -o
IdentitiesOnly=yes -o PreferredAuthentications=publickey -o
PasswordAuthentication=no -o ConnectTimeout=5 -o
GSSAPIAuthentication=no -o ServerAliveInterval=30 -o
ServerAliveCountMax=10 -i /var/folders/_8/
p4b95h9j2tzc63n0_z91c30w0000gn/T/perfkitbenchmark/run_998298aa/
perfkitbenchmark_keyfile [[ -d /mnt ]] && sudo umount /mnt; sudo
mkfs -F -E lazy_itable_init=0,discard -O ^has_journal -t ext4 -b
4096 /dev/disk/by-id/google-pkb-998298aa-0-data-0-0
2016-04-03 10:59:31,768 998298aa Thread-6 bonnie++(1/1) INFO
Running: ssh -A -p 22 perfkit@107.178.217.222 -2 -o
UserKnownHostsFile=/dev/null -o StrictHostKeyChecking=no -o
IdentitiesOnly=yes -o PreferredAuthentications=publickey -o
PasswordAuthentication=no -o ConnectTimeout=5 -o
GSSAPIAuthentication=no -o ServerAliveInterval=30 -o
ServerAliveCountMax=10 -i /var/folders/_8/
p4b95h9j2tzc63n0_z91c30w0000gn/T/perfkitbenchmark/run_998298aa/
perfkitbenchmark_keyfile sudo mkdir -p /scratch;sudo mount -o
discard /dev/disk/by-id/google-pkb-998298aa-0-data-0-0 /scratch;sudo
chown -R $USER:$USER /scratch;
2016-04-03 10:59:35,287 998298aa Thread-6 bonnie++(1/1) INFO
Running: ssh -A -p 22 perfkit@107.178.217.222 -2 -o
UserKnownHostsFile=/dev/null -o StrictHostKeyChecking=no -o
IdentitiesOnly=yes -o PreferredAuthentications=publickey -o
PasswordAuthentication=no -o ConnectTimeout=5 -o
GSSAPIAuthentication=no -o ServerAliveInterval=30 -o
ServerAliveCountMax=10 -i /var/folders/_8/
p4b95h9j2tzc63n0_z91c30w0000gn/T/perfkitbenchmark/run_998298aa/
perfkitbenchmark_keyfile mkdir -p /tmp/pkb
2016-04-03 10:59:36,523 998298aa MainThread bonnie++(1/1) INFO      ssh
to VMs in this benchmark by name with:
  ssh -F /var/folders/_8/p4b95h9j2tzc63n0_z91c30w0000gn/T/
perfkitbenchmark/run_998298aa/ssh_config <vm_name>
  ssh -F /var/folders/_8/p4b95h9j2tzc63n0_z91c30w0000gn/T/
perfkitbenchmark/run_998298aa/ssh_config vm<index>
  ssh -F /var/folders/_8/p4b95h9j2tzc63n0_z91c30w0000gn/T/
perfkitbenchmark/run_998298aa/ssh_config <group_name>-<index>
2016-04-03 10:59:36,525 998298aa MainThread bonnie++(1/1) INFO
Preparing benchmark bonnie++
2016-04-03 10:59:36,526 998298aa MainThread bonnie++(1/1) INFO
Bonnie++ prepare on 107.178.217.222
2016-04-03 10:59:36,526 998298aa MainThread bonnie++(1/1) INFO
Running: ssh -A -p 22 perfkit@107.178.217.222 -2 -o
UserKnownHostsFile=/dev/null -o StrictHostKeyChecking=no -o
IdentitiesOnly=yes -o PreferredAuthentications=publickey -o
PasswordAuthentication=no -o ConnectTimeout=5 -o

```



```

GSSAPIAuthentication=no -o ServerAliveInterval=30 -o
ServerAliveCountMax=10 -i /var/folders/_8/
p4b95h9j2tzc63n0_z91c30w0000gn/T/perfkitbenchmark/run_998298aa/
perfkitbenchmark_keyfile sudo apt-get update
2016-04-03 10:59:49,719 998298aa MainThread bonnie++(1/1) INFO
Running: ssh -A -p 22 perfkit@107.178.217.222 -2 -o
UserKnownHostsFile=/dev/null -o StrictHostKeyChecking=no -o
IdentitiesOnly=yes -o PreferredAuthentications=publickey -o
PasswordAuthentication=no -o ConnectTimeout=5 -o
GSSAPIAuthentication=no -o ServerAliveInterval=30 -o
ServerAliveCountMax=10 -i /var/folders/_8/
p4b95h9j2tzc63n0_z91c30w0000gn/T/perfkitbenchmark/run_998298aa/
perfkitbenchmark_keyfile sudo DEBIAN_FRONTEND='noninteractive' /usr/
bin/apt-get -y install bonnie++
2016-04-03 10:59:55,845 998298aa MainThread bonnie++(1/1) INFO
Running benchmark bonnie++
2016-04-03 10:59:55,846 998298aa MainThread bonnie++(1/1) INFO
Bonnie++ running on 107.178.217.222
2016-04-03 10:59:55,847 998298aa MainThread bonnie++(1/1) INFO
Running: ssh -A -p 22 perfkit@107.178.217.222 -2 -o
UserKnownHostsFile=/dev/null -o StrictHostKeyChecking=no -o
IdentitiesOnly=yes -o PreferredAuthentications=publickey -o
PasswordAuthentication=no -o ConnectTimeout=5 -o
GSSAPIAuthentication=no -o ServerAliveInterval=30 -o
ServerAliveCountMax=10 -i /var/folders/_8/
p4b95h9j2tzc63n0_z91c30w0000gn/T/perfkitbenchmark/run_998298aa/
perfkitbenchmark_keyfile cat /proc/meminfo | grep MemTotal | awk
'{print $2}'
2016-04-03 10:59:56,771 998298aa MainThread bonnie++(1/1) INFO
Bonnie++ Results:
2016-04-03 10:59:56,772 998298aa MainThread bonnie++(1/1) INFO
Running: ssh -A -p 22 perfkit@107.178.217.222 -2 -o
UserKnownHostsFile=/dev/null -o StrictHostKeyChecking=no -o
IdentitiesOnly=yes -o PreferredAuthentications=publickey -o
PasswordAuthentication=no -o ConnectTimeout=5 -o
GSSAPIAuthentication=no -o ServerAliveInterval=30 -o
ServerAliveCountMax=10 -i /var/folders/_8/
p4b95h9j2tzc63n0_z91c30w0000gn/T/perfkitbenchmark/run_998298aa/
perfkitbenchmark_keyfile /usr/sbin/bonnie++ -q -d /scratch -s 3394 -
n 100 -f
2016-04-03 11:05:35,484 998298aa MainThread bonnie++(1/1) INFO      Ran
ssh -A -p 22 perfkit@107.178.217.222 -2 -o UserKnownHostsFile=/dev/
null -o StrictHostKeyChecking=no -o IdentitiesOnly=yes -o
PreferredAuthentications=publickey -o PasswordAuthentication=no -o
ConnectTimeout=5 -o GSSAPIAuthentication=no -o ServerAliveInterval=30
-o ServerAliveCountMax=10 -i /var/folders/_8/
p4b95h9j2tzc63n0_z91c30w0000gn/T/perfkitbenchmark/run_998298aa/
perfkitbenchmark_keyfile /usr/sbin/bonnie++ -q -d /scratch -s 3394 -
n 100 -f. Got return code (0).
STDOUT: 1.97,1.97,pkb-998298aa-0,1,1459693097,3394M,,,,,

```

36479,2,24641,4,,,81296,5,682.8,65,100,,,,,62707,56,++++,+++,  
82299,48,2797,97,++++,+++38450,73,,923ms,1255ms,,186ms,175ms,1152us,  
524us,705us,206ms,150ms,170ms

STDERR: Warning: Permanently added '107.178.217.222' (ECDSA) to the  
list of known hosts.

Version 1.97 -----Sequential Output----- --Sequential Input--

--Random--

Concurrency 1 -Per Chr- --Block-- -Rewrite- -Per Chr- --Block--

--Seeks--

Machine Size K/sec %CP K/sec %CP K/sec %CP K/sec %CP K/sec

%CP /sec %CP

pkb-998298aa- 3394M 36479 2 24641 4 81296 5

682.8 65

Latency 923ms 1255ms 186ms

175ms

Version 1.97 -----Sequential Create----- -----Random

Create-----

pkb-998298aa-0 -Create-- --Read--- -Delete-- -Create-- --Read---

-Delete--

files /sec %CP /sec %CP /sec %CP /sec %CP /sec

%CP /sec %CP

100 62707 56 +++++ +++ 82299 48 2797 97 +++++ +++

38450 73

Latency 1152us 524us 705us 206ms 150ms

170ms

2016-04-03 11:05:35,489 998298aa MainThread bonnie++(1/1) INFO

Cleaning up benchmark bonnie++

2016-04-03 11:05:35,489 998298aa MainThread bonnie++(1/1) INFO

Tearing down resources for benchmark bonnie++

2016-04-03 11:05:35,490 998298aa Thread-31 bonnie++(1/1) INFO

Running: gcloud compute instances delete pkb-998298aa-0 --format json

--quiet --project sage-potential-127001 --zone us-central1-a

2016-04-03 11:06:25,733 998298aa Thread-31 bonnie++(1/1) INFO

Running: gcloud compute instances describe pkb-998298aa-0 --format

json --quiet --project sage-potential-127001 --zone us-central1-a

2016-04-03 11:06:27,365 998298aa Thread-31 bonnie++(1/1) INFO

Running: gcloud compute disks delete pkb-998298aa-0-data-0-0 --format

json --quiet --project sage-potential-127001 --zone us-central1-a

2016-04-03 11:06:35,972 998298aa Thread-31 bonnie++(1/1) INFO

Running: gcloud compute disks describe pkb-998298aa-0-data-0-0 --

format json --quiet --project sage-potential-127001 --zone us-

central1-a

2016-04-03 11:06:37,569 998298aa MainThread bonnie++(1/1) INFO

Running: gcloud compute firewall-rules delete perfkit-

firewall-998298aa-22 --format json --quiet --project sage-

potential-127001

2016-04-03 11:06:56,377 998298aa MainThread bonnie++(1/1) INFO

Running: gcloud compute firewall-rules describe perfkit-

```

firewall-998298aa-22 --format json --quiet --project sage-
potential-127001
2016-04-03 11:06:58,270 998298aa MainThread bonnie++(1/1) INFO
Running: gcloud compute firewall-rules delete default-
internal-998298aa --format json --quiet --project sage-
potential-127001
2016-04-03 11:07:17,535 998298aa MainThread bonnie++(1/1) INFO
Running: gcloud compute firewall-rules describe default-
internal-998298aa --format json --quiet --project sage-
potential-127001
2016-04-03 11:07:19,155 998298aa MainThread bonnie++(1/1) INFO
Running: gcloud compute networks delete pkb-network-998298aa --format
json --quiet --project sage-potential-127001
2016-04-03 11:07:54,228 998298aa MainThread bonnie++(1/1) INFO
Running: gcloud compute networks describe pkb-network-998298aa --
format json --quiet --project sage-potential-127001
2016-04-03 11:07:56,124 998298aa MainThread INFO
-----PerfKitBenchmarker Complete
Results-----
{'metadata': {'bonnie_version': u'1.97',
              'cloud': 'GCP',
              'concurrency': u'1',
              'data_disk_0_legacy_disk_type': 'standard',
              'data_disk_0_media': 'hdd',
              'data_disk_0_num_stripes': 1,
              'data_disk_0_replication': 'zone',
              'data_disk_0_size': 500,
              'data_disk_0_type': 'pd-standard',
              'file_size': u'3394M',
              'format_version': u'1.97',
              'image': 'ubuntu-14-04',
              'machine_type': 'g1-small',
              'name': u'pkb-998298aa-0',
              'num_files': u'100',
              'num_striped_disks': 1,
              'perfkitbenchmarker_version': 'unknown',
              'preemptible': False,
              'scratch_disk_size': 500,
              'scratch_disk_type': 'standard',
              'seed': u'1459693097',
              'vm_count': 1,
              'zone': 'us-central1-a'},
 'metric': 'put_block',
 'official': False,
 'owner': 'linlinding',
 'product_name': 'PerfKitBenchmarker',
 'run_uri': 'f867b967-d424-43ca-9a23-78d7f18f7056',
 'sample_uri': 'f4ea6521-96ad-454a-b78d-20cb5c69f98c',
 'test': 'bonnie++',
 'timestamp': 1459695935.486142,

```

```
'unit': 'K/sec',
'value': 36479.0}
{'metadata': {'bonnie_version': u'1.97',
              'cloud': 'GCP',
              'concurrency': u'1',
              'data_disk_0_legacy_disk_type': 'standard',
              'data_disk_0_media': 'hdd',
              'data_disk_0_num_stripes': 1,
              'data_disk_0_replication': 'zone',
              'data_disk_0_size': 500,
              'data_disk_0_type': 'pd-standard',
              'file_size': u'3394M',
              'format_version': u'1.97',
              'image': 'ubuntu-14-04',
              'machine_type': 'g1-small',
              'name': u'pkb-998298aa-0',
              'num_files': u'100',
              'num_striped_disks': 1,
              'perfkitbenchmarker_version': 'unknown',
              'preemptible': False,
              'scratch_disk_size': 500,
              'scratch_disk_type': 'standard',
              'seed': u'1459693097',
              'vm_count': 1,
              'zone': 'us-central1-a'},
'metric': 'put_block_cpu',
'official': False,
'owner': 'linlinding',
'product_name': 'PerfKitBenchmarker',
'run_uri': 'f867b967-d424-43ca-9a23-78d7f18f7056',
'sample_uri': 'e7b8547e-8586-4513-afbf-d674892c95b8',
'test': 'bonnie++',
'timestamp': 1459695935.486168,
'unit': '%s',
'value': 2.0}
{'metadata': {'bonnie_version': u'1.97',
              'cloud': 'GCP',
              'concurrency': u'1',
              'data_disk_0_legacy_disk_type': 'standard',
              'data_disk_0_media': 'hdd',
              'data_disk_0_num_stripes': 1,
              'data_disk_0_replication': 'zone',
              'data_disk_0_size': 500,
              'data_disk_0_type': 'pd-standard',
              'file_size': u'3394M',
              'format_version': u'1.97',
              'image': 'ubuntu-14-04',
              'machine_type': 'g1-small',
              'name': u'pkb-998298aa-0',
              'num_files': u'100',
```

```

        'num_striped_disks': 1,
        'perfkitbenchmarker_version': 'unknown',
        'preemptible': False,
        'scratch_disk_size': 500,
        'scratch_disk_type': 'standard',
        'seed': u'1459693097',
        'vm_count': 1,
        'zone': 'us-central1-a'},
'metric': 'rewrite',
'official': False,
'owner': 'linlinding',
'product_name': 'PerfKitBenchmarker',
'run_uri': 'f867b967-d424-43ca-9a23-78d7f18f7056',
'sample_uri': '79da711c-207d-4337-8adf-b9208871b082',
'test': 'bonnie++',
'timestamp': 1459695935.486174,
'unit': 'K/sec',
'value': 24641.0}
{'metadata': {'bonnie_version': u'1.97',
              'cloud': 'GCP',
              'concurrency': u'1',
              'data_disk_0_legacy_disk_type': 'standard',
              'data_disk_0_media': 'hdd',
              'data_disk_0_num_stripes': 1,
              'data_disk_0_replication': 'zone',
              'data_disk_0_size': 500,
              'data_disk_0_type': 'pd-standard',
              'file_size': u'3394M',
              'format_version': u'1.97',
              'image': 'ubuntu-14-04',
              'machine_type': 'g1-small',
              'name': u'pkb-998298aa-0',
              'num_files': u'100',
              'num_striped_disks': 1,
              'perfkitbenchmarker_version': 'unknown',
              'preemptible': False,
              'scratch_disk_size': 500,
              'scratch_disk_type': 'standard',
              'seed': u'1459693097',
              'vm_count': 1,
              'zone': 'us-central1-a'},
'metric': 'rewrite_cpu',
'official': False,
'owner': 'linlinding',
'product_name': 'PerfKitBenchmarker',
'run_uri': 'f867b967-d424-43ca-9a23-78d7f18f7056',
'sample_uri': 'cd4806ec-3ff4-4478-90c3-9f7fe20f5774',
'test': 'bonnie++',
'timestamp': 1459695935.48618,
'unit': '%s',

```

```

'value': 4.0}
{'metadata': {'bonnie_version': u'1.97',
              'cloud': 'GCP',
              'concurrency': u'1',
              'data_disk_0_legacy_disk_type': 'standard',
              'data_disk_0_media': 'hdd',
              'data_disk_0_num_stripes': 1,
              'data_disk_0_replication': 'zone',
              'data_disk_0_size': 500,
              'data_disk_0_type': 'pd-standard',
              'file_size': u'3394M',
              'format_version': u'1.97',
              'image': 'ubuntu-14-04',
              'machine_type': 'g1-small',
              'name': u'pkb-998298aa-0',
              'num_files': u'100',
              'num_striped_disks': 1,
              'perfkitbenchmarker_version': 'unknown',
              'preemptible': False,
              'scratch_disk_size': 500,
              'scratch_disk_type': 'standard',
              'seed': u'1459693097',
              'vm_count': 1,
              'zone': 'us-central1-a'},
'metric': 'get_block',
'official': False,
'owner': 'linlinding',
'product_name': 'PerfKitBenchmarker',
'run_uri': 'f867b967-d424-43ca-9a23-78d7f18f7056',
'sample_uri': '88f91154-bfd8-4bd8-928b-cc7fd94bc62d',
'test': 'bonnie++',
'timestamp': 1459695935.486185,
'unit': 'K/sec',
'value': 81296.0}
{'metadata': {'bonnie_version': u'1.97',
              'cloud': 'GCP',
              'concurrency': u'1',
              'data_disk_0_legacy_disk_type': 'standard',
              'data_disk_0_media': 'hdd',
              'data_disk_0_num_stripes': 1,
              'data_disk_0_replication': 'zone',
              'data_disk_0_size': 500,
              'data_disk_0_type': 'pd-standard',
              'file_size': u'3394M',
              'format_version': u'1.97',
              'image': 'ubuntu-14-04',
              'machine_type': 'g1-small',
              'name': u'pkb-998298aa-0',
              'num_files': u'100',
              'num_striped_disks': 1,

```

```

        'perfkitbenchmarker_version': 'unknown',
        'preemptible': False,
        'scratch_disk_size': 500,
        'scratch_disk_type': 'standard',
        'seed': u'1459693097',
        'vm_count': 1,
        'zone': 'us-central1-a'},
'metric': 'get_block_cpu',
'official': False,
'owner': 'linlinding',
'product_name': 'PerfKitBenchmarker',
'run_uri': 'f867b967-d424-43ca-9a23-78d7f18f7056',
'sample_uri': 'c5de741f-376f-4762-b612-2cc81f21d026',
'test': 'bonnie++',
'timestamp': 1459695935.486191,
'unit': '%s',
'value': 5.0}
{'metadata': {'bonnie_version': u'1.97',
              'cloud': 'GCP',
              'concurrency': u'1',
              'data_disk_0_legacy_disk_type': 'standard',
              'data_disk_0_media': 'hdd',
              'data_disk_0_num_stripes': 1,
              'data_disk_0_replication': 'zone',
              'data_disk_0_size': 500,
              'data_disk_0_type': 'pd-standard',
              'file_size': u'3394M',
              'format_version': u'1.97',
              'image': 'ubuntu-14-04',
              'machine_type': 'g1-small',
              'name': u'pkb-998298aa-0',
              'num_files': u'100',
              'num_striped_disks': 1,
              'perfkitbenchmarker_version': 'unknown',
              'preemptible': False,
              'scratch_disk_size': 500,
              'scratch_disk_type': 'standard',
              'seed': u'1459693097',
              'vm_count': 1,
              'zone': 'us-central1-a'},
'metric': 'seeks',
'official': False,
'owner': 'linlinding',
'product_name': 'PerfKitBenchmarker',
'run_uri': 'f867b967-d424-43ca-9a23-78d7f18f7056',
'sample_uri': 'ef84e68d-d769-43cb-a145-d3e9d500bf6b',
'test': 'bonnie++',
'timestamp': 1459695935.486197,
'unit': 'K/sec',
'value': 682.8}

```

```

{'metadata': {'bonnie_version': u'1.97',
              'cloud': 'GCP',
              'concurrency': u'1',
              'data_disk_0_legacy_disk_type': 'standard',
              'data_disk_0_media': 'hdd',
              'data_disk_0_num_stripes': 1,
              'data_disk_0_replication': 'zone',
              'data_disk_0_size': 500,
              'data_disk_0_type': 'pd-standard',
              'file_size': u'3394M',
              'format_version': u'1.97',
              'image': 'ubuntu-14-04',
              'machine_type': 'g1-small',
              'name': u'pkb-998298aa-0',
              'num_files': u'100',
              'num_striped_disks': 1,
              'perfkitbenchmark_version': 'unknown',
              'preemptible': False,
              'scratch_disk_size': 500,
              'scratch_disk_type': 'standard',
              'seed': u'1459693097',
              'vm_count': 1,
              'zone': 'us-central1-a'},
  'metric': 'seeks_cpu',
  'official': False,
  'owner': 'linlinding',
  'product_name': 'PerfKitBenchmark',
  'run_uri': 'f867b967-d424-43ca-9a23-78d7f18f7056',
  'sample_uri': '0b17450e-ac1d-4d36-a4d1-0d22717dbfa6',
  'test': 'bonnie++',
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'owner': 'linlinding',
'product_name': 'PerfKitBenchmarker',
'run_uri': 'f867b967-d424-43ca-9a23-78d7f18f7056',
'sample_uri': '9c0ecf24-fe91-4ce9-8a63-1ddd5b2f4140',
'test': 'bonnie++',
'timestamp': 1459695935.486891,
'unit': u'ms',
'value': 150.0}
{'metadata': {'bonnie_version': u'1.97',
              'cloud': 'GCP',
              'concurrency': u'1',
              'data_disk_0_legacy_disk_type': 'standard',
              'data_disk_0_media': 'hdd',
              'data_disk_0_num_stripes': 1,

```

```

        'data_disk_0_replication': 'zone',
        'data_disk_0_size': 500,
        'data_disk_0_type': 'pd-standard',
        'file_size': u'3394M',
        'format_version': u'1.97',
        'image': 'ubuntu-14-04',
        'machine_type': 'g1-small',
        'name': u'pkb-998298aa-0',
        'num_files': u'100',
        'num_stripped_disks': 1,
        'perfkitbenchmarker_version': 'unknown',
        'preemptible': False,
        'scratch_disk_size': 500,
        'scratch_disk_type': 'standard',
        'seed': u'1459693097',
        'vm_count': 1,
        'zone': 'us-central1-a'},
    'metric': 'ran_del_latency',
    'official': False,
    'owner': 'linlinding',
    'product_name': 'PerfKitBenchmarker',
    'run_uri': 'f867b967-d424-43ca-9a23-78d7f18f7056',
    'sample_uri': '2831c332-ee86-4108-aa41-ce0330c4fb21',
    'test': 'bonnie++',
    'timestamp': 1459695935.486897,
    'unit': u'ms',
    'value': 170.0}
{'metadata': {'cloud': 'GCP',
              'data_disk_0_legacy_disk_type': 'standard',
              'data_disk_0_media': 'hdd',
              'data_disk_0_num_stripes': 1,
              'data_disk_0_replication': 'zone',
              'data_disk_0_size': 500,
              'data_disk_0_type': 'pd-standard',
              'image': 'ubuntu-14-04',
              'machine_type': 'g1-small',
              'num_stripped_disks': 1,
              'perfkitbenchmarker_version': 'unknown',
              'preemptible': False,
              'scratch_disk_size': 500,
              'scratch_disk_type': 'standard',
              'vm_count': 1,
              'zone': 'us-central1-a'},
  'metric': 'End to End Runtime',
  'official': False,
  'owner': 'linlinding',
  'product_name': 'PerfKitBenchmarker',
  'run_uri': 'f867b967-d424-43ca-9a23-78d7f18f7056',
  'sample_uri': '8c3b331e-7288-49de-af59-126a69287e0a',
  'test': 'bonnie++',

```

```
'timestamp': 1459696076.089765,  
'unit': 'seconds',  
'value': 908.2390809059143}
```

-----PerfKitBenchmark Results

Summary-----

BONNIE++:

bonnie\_version="1.97" concurrency="1" file\_size="3394M"  
format\_version="1.97" name="pkb-998298aa-0" num\_files="100"  
seed="1459693097"

|                    |              |         |
|--------------------|--------------|---------|
| put_block          | 36479.000000 | K/sec   |
| put_block_cpu      | 2.000000     | %s      |
| rewrite            | 24641.000000 | K/sec   |
| rewrite_cpu        | 4.000000     | %s      |
| get_block          | 81296.000000 | K/sec   |
| get_block_cpu      | 5.000000     | %s      |
| seeks              | 682.800000   | K/sec   |
| seeks_cpu          | 65.000000    | %s      |
| seq_create         | 62707.000000 | K/sec   |
| seq_create_cpu     | 56.000000    | %s      |
| seq_del            | 82299.000000 | K/sec   |
| seq_del_cpu        | 48.000000    | %s      |
| ran_create         | 2797.000000  | K/sec   |
| ran_create_cpu     | 97.000000    | %s      |
| ran_del            | 38450.000000 | K/sec   |
| ran_del_cpu        | 73.000000    | %s      |
| put_block_latency  | 923.000000   | ms      |
| rewrite_latency    | 1255.000000  | ms      |
| get_block_latency  | 186.000000   | ms      |
| seeks_latency      | 175.000000   | ms      |
| seq_create_latency | 1152.000000  | us      |
| seq_stat_latency   | 524.000000   | us      |
| seq_del_latency    | 705.000000   | us      |
| ran_create_latency | 206.000000   | ms      |
| ran_stat_latency   | 150.000000   | ms      |
| ran_del_latency    | 170.000000   | ms      |
| End to End Runtime | 908.239081   | seconds |

-----  
For all tests: cloud="GCP" data\_disk\_0\_legacy\_disk\_type="standard"  
data\_disk\_0\_media="hdd" data\_disk\_0\_num\_stripes="1"  
data\_disk\_0\_replication="zone" data\_disk\_0\_size="500"  
data\_disk\_0\_type="pd-standard" image="ubuntu-14-04" machine\_type="g1-  
small" num\_striped\_disks="1" perfkitbenchmarker\_version="unknown"  
preemptible="False" scratch\_disk\_size="500"  
scratch\_disk\_type="standard" vm\_count="1" zone="us-central1-a"  
2016-04-03 11:07:56,128 998298aa MainThread INFO Publishing 27  
samples to /var/folders/\_8/p4b95h9j2tzc63n0\_z91c30w0000gn/T/  
perfkitbenchmarker/run\_998298aa/perfkitbenchmarker\_results.json

2016-04-03 11:07:56,129 998298aa MainThread INFO Benchmark run statuses:

| Name     | UID       | Status    |
|----------|-----------|-----------|
| bonnie++ | bonnie++0 | SUCCEEDED |

Success rate: 100.00% (1/1)

2016-04-03 11:07:56,129 998298aa MainThread INFO Complete logs can be found at: /var/folders/\_8/p4b95h9j2tzc63n0\_z91c30w0000gn/T/perfkitbenchmark/run\_998298aa/pkb.log  
LinLindeMacBook-Pro:PerfKitBenchmark-1.2.0 linlinding\$