

```
Last login: Wed Apr 13 19:42:47 on ttys000
1x-nat-vl932-172-30-211-109:~ lichaozhang$ cd Desktop/
PerfKitBenchmark
1x-nat-vl932-172-30-211-109:PerfKitBenchmark lichaozhang$ ./pkb.py
--project=practical-bot-127123 --benchmarks=coremark --
machine_type=n1-standard-2
2016-04-13 19:50:43,059 2163f1cc MainThread INFO      Verbose logging
to: /var/folders/fq/r7tm6d814zb_g_hgm0rndsz40000gn/T/
perfkitbenchmark/run_2163f1cc/pkb.log
2016-04-13 19:50:43,059 2163f1cc MainThread INFO
PerfKitBenchmark version: unknown
2016-04-13 19:50:43,151 2163f1cc MainThread INFO      Flag values:
--machine_type=n1-standard-2
--project=practical-bot-127123
--benchmarks=coremark
2016-04-13 19:50:43,180 2163f1cc MainThread coremark(1/1) INFO
Provisioning resources for benchmark coremark
2016-04-13 19:50:43,182 2163f1cc Thread-1 coremark(1/1) INFO
Running: gcloud compute networks create pkb-network-2163f1cc --format
json --quiet --project practical-bot-127123 --range 10.0.0.0/16
2016-04-13 19:51:33,725 2163f1cc Thread-1 coremark(1/1) INFO
Running: gcloud compute networks describe pkb-network-2163f1cc --
format json --quiet --project practical-bot-127123
2016-04-13 19:51:34,934 2163f1cc Thread-1 coremark(1/1) INFO
Running: gcloud compute firewall-rules create default-
internal-2163f1cc --format json --quiet --project practical-bot-127123
--allow tcp:1-65535,udp:1-65535,icmp --network pkb-network-2163f1cc --
source-ranges 10.0.0.0/16
2016-04-13 19:51:53,062 2163f1cc Thread-1 coremark(1/1) INFO
Running: gcloud compute firewall-rules describe default-
internal-2163f1cc --format json --quiet --project practical-bot-127123
2016-04-13 19:51:54,353 2163f1cc Thread-6 coremark(1/1) INFO
Running: gcloud compute firewall-rules create perfkit-
firewall-2163f1cc-22 --format json --quiet --project practical-
bot-127123 --allow tcp:22,udp:22 --network pkb-network-2163f1cc
2016-04-13 19:52:12,101 2163f1cc Thread-6 coremark(1/1) INFO
Running: gcloud compute firewall-rules describe perfkit-
firewall-2163f1cc-22 --format json --quiet --project practical-
bot-127123
2016-04-13 19:52:13,281 2163f1cc Thread-6 coremark(1/1) INFO
Running: gcloud compute instances create pkb-2163f1cc-0 --format json
--quiet --project practical-bot-127123 --zone us-central1-a --network
pkb-network-2163f1cc --image ubuntu-14-04 --boot-disk-auto-delete --
boot-disk-size 10 --boot-disk-type pd-standard --machine-type n1-
standard-2 --tags perfkitbenchmark --no-restart-on-failure --
metadata-from-file sshKeys=/var/folders/fq/
r7tm6d814zb_g_hgm0rndsz40000gn/T/perfkitbenchmark/run_2163f1cc/key-
metadataazfPRPr --metadata owner=lichaozhang --maintenance-policy
TERMINATE
2016-04-13 19:52:48,148 2163f1cc Thread-6 coremark(1/1) INFO
```

```

Running: gcloud compute instances describe pkb-2163f1cc-0 --format
json --quiet --project practical-bot-127123 --zone us-central1-a
2016-04-13 19:52:49,377 2163f1cc Thread-6 coremark(1/1) INFO
Running: gcloud compute instances describe pkb-2163f1cc-0 --format
json --quiet --project practical-bot-127123 --zone us-central1-a
2016-04-13 19:52:50,604 2163f1cc Thread-6 coremark(1/1) INFO      VM:
23.251.148.129
2016-04-13 19:52:50,605 2163f1cc Thread-6 coremark(1/1) INFO
Waiting for boot completion.
2016-04-13 19:52:50,605 2163f1cc Thread-6 coremark(1/1) INFO
Running: ssh -A -p 22 perfkit@23.251.148.129 -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/fq/
r7tm6d814zb_g_hgm0rndsz40000gn/T/perfkitbenchmark/run_2163f1cc/
perfkitbenchmark_keyfile hostname
2016-04-13 19:52:51,470 2163f1cc Thread-6 coremark(1/1) INFO
Running: ssh -A -p 22 perfkit@23.251.148.129 -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/fq/
r7tm6d814zb_g_hgm0rndsz40000gn/T/perfkitbenchmark/run_2163f1cc/
perfkitbenchmark_keyfile hostname
2016-04-13 19:52:55,105 2163f1cc Thread-6 coremark(1/1) INFO
Running: gcloud compute instances add-metadata pkb-2163f1cc-0 --format
json --quiet --project practical-bot-127123 --zone us-central1-a --
metadata
benchmark_uid=coremark0,benchmark=coremark,perfkit_uid=b816422c-9c88-
4003-9d1d-ced624667b94
2016-04-13 19:53:08,064 2163f1cc Thread-6 coremark(1/1) INFO
Running: ssh -A -p 22 perfkit@23.251.148.129 -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/fq/
r7tm6d814zb_g_hgm0rndsz40000gn/T/perfkitbenchmark/run_2163f1cc/
perfkitbenchmark_keyfile mkdir -p /tmp/pkb
2016-04-13 19:53:08,756 2163f1cc MainThread coremark(1/1) INFO      ssh
to VMs in this benchmark by name with:
ssh -F /var/folders/fq/r7tm6d814zb_g_hgm0rndsz40000gn/T/
perfkitbenchmark/run_2163f1cc/ssh_config <vm_name>
ssh -F /var/folders/fq/r7tm6d814zb_g_hgm0rndsz40000gn/T/
perfkitbenchmark/run_2163f1cc/ssh_config vm<index>
ssh -F /var/folders/fq/r7tm6d814zb_g_hgm0rndsz40000gn/T/
perfkitbenchmark/run_2163f1cc/ssh_config <group_name>--<index>

```

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2016-04-13 19:53:08,758 2163f1cc MainThread coremark(1/1) INFO
Preparing benchmark coremark
2016-04-13 19:53:08,758 2163f1cc MainThread coremark(1/1) INFO
prepare Coremark on 23.251.148.129
2016-04-13 19:53:08,759 2163f1cc MainThread coremark(1/1) INFO
Running: ssh -A -p 22 perfkit@23.251.148.129 -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/fq/
r7tm6d814zb_g_hgm0rnds40000gn/T/perfkitbenchmark/run_2163f1cc/
perfkitbenchmark_keyfile sudo apt-get update
2016-04-13 19:53:14,995 2163f1cc MainThread coremark(1/1) INFO
Running: ssh -A -p 22 perfkit@23.251.148.129 -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/fq/
r7tm6d814zb_g_hgm0rnds40000gn/T/perfkitbenchmark/run_2163f1cc/
perfkitbenchmark_keyfile sudo DEBIAN_FRONTEND='noninteractive' /usr/
bin/apt-get -y install build-essential git libtool autoconf automake
2016-04-13 19:53:29,639 2163f1cc MainThread coremark(1/1) INFO
Running: scp -P 22 -pr -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/fq/
r7tm6d814zb_g_hgm0rnds40000gn/T/perfkitbenchmark/run_2163f1cc/
perfkitbenchmark_keyfile /Users/lichaozhang/Desktop/
PerfKitBenchmark/perfkitbenchmark/data/coremark_v1.0.tgz
perfkit@23.251.148.129:
2016-04-13 19:53:30,937 2163f1cc MainThread coremark(1/1) INFO
Running: ssh -A -p 22 perfkit@23.251.148.129 -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/fq/
r7tm6d814zb_g_hgm0rnds40000gn/T/perfkitbenchmark/run_2163f1cc/
perfkitbenchmark_keyfile tar xvfz coremark_v1.0.tgz
2016-04-13 19:53:31,628 2163f1cc MainThread coremark(1/1) INFO
Running: ssh -A -p 22 perfkit@23.251.148.129 -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/fq/
r7tm6d814zb_g_hgm0rnds40000gn/T/perfkitbenchmark/run_2163f1cc/
```

```

perfkitbenchmark_keyfile sed -i -e "s/LFLAGS_END += -lrt/LFLAGS_END
+= -lrt -lpthread/g" coremark_v1.0/linux64/core_portme.mak
2016-04-13 19:53:32,301 2163f1cc MainThread coremark(1/1) INFO
Running benchmark coremark
2016-04-13 19:53:32,302 2163f1cc MainThread coremark(1/1) INFO
Coremark running on 23.251.148.129
2016-04-13 19:53:32,303 2163f1cc MainThread coremark(1/1) INFO
Running: ssh -A -p 22 perfkit@23.251.148.129 -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/fq/
r7tm6d814zb_g_hgm0rndsz40000gn/T/perfkitbenchmark/run_2163f1cc/
perfkitbenchmark_keyfile cat /proc/cpuinfo | grep processor | wc -l
2016-04-13 19:53:32,973 2163f1cc MainThread coremark(1/1) INFO
Running: ssh -A -p 22 perfkit@23.251.148.129 -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/fq/
r7tm6d814zb_g_hgm0rndsz40000gn/T/perfkitbenchmark/run_2163f1cc/
perfkitbenchmark_keyfile cd coremark_v1.0;make PORT_DIR=linux64
ITERATIONS=200000 XCFIAGS="-g -O2 -DMULTITHREAD=2 -DUSE_PTHREAD -
DPERFORMANCE_RUN=1"
2016-04-13 19:54:11,213 2163f1cc MainThread coremark(1/1) INFO
Coremark Results:
2016-04-13 19:54:11,214 2163f1cc MainThread coremark(1/1) INFO
Running: ssh -A -p 22 perfkit@23.251.148.129 -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/fq/
r7tm6d814zb_g_hgm0rndsz40000gn/T/perfkitbenchmark/run_2163f1cc/
perfkitbenchmark_keyfile cat coremark_v1.0/run1.log
2016-04-13 19:54:11,861 2163f1cc MainThread coremark(1/1) INFO      Ran
ssh -A -p 22 perfkit@23.251.148.129 -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/fq/
r7tm6d814zb_g_hgm0rndsz40000gn/T/perfkitbenchmark/run_2163f1cc/
perfkitbenchmark_keyfile cat coremark_v1.0/run1.log. Got return code
(0).
STDOUT: 2K performance run parameters for coremark.
CoreMark Size      : 666
Total ticks        : 18468
Total time (secs): 18.468000

```

```
Iterations/Sec   : 21659.085987
Iterations      : 400000
Compiler version : GCC4.8.4
Compiler flags   : -O2 -g -O2 -DMULTITHREAD=2 -DUSE_PTHREAD -
DPERFORMANCE_RUN=1 -DPERFORMANCE_RUN=1 -lrt -lpthread
Parallel PThreads : 2
Memory location  : Please put data memory location here
                   (e.g. code in flash, data on heap etc)
seedcrc         : 0xe9f5
[0]crclist      : 0xe714
[1]crclist      : 0xe714
[0]crcmatrix    : 0x1fd7
[1]crcmatrix    : 0x1fd7
[0]crcstate     : 0x8e3a
[1]crcstate     : 0x8e3a
[0]crcfinal     : 0x4983
[1]crcfinal     : 0x4983
Correct operation validated. See readme.txt for run and reporting
rules.
CoreMark 1.0 : 21659.085987 / GCC4.8.4 -O2 -g -O2 -DMULTITHREAD=2 -
DUSE_PTHREAD -DPERFORMANCE_RUN=1 -DPERFORMANCE_RUN=1 -lrt -lpthread /
Heap / 2:PThreads
```

STDERR: Warning: Permanently added '23.251.148.129' (ECDSA) to the list of known hosts.

```
2016-04-13 19:54:11,863 2163f1cc MainThread coremark(1/1) INFO
Cleaning up benchmark coremark
2016-04-13 19:54:11,863 2163f1cc MainThread coremark(1/1) INFO
Tearing down resources for benchmark coremark
2016-04-13 19:54:11,864 2163f1cc Thread-27 coremark(1/1) INFO
Running: gcloud compute instances delete pkb-2163f1cc-0 --format json
--quiet --project practical-bot-127123 --zone us-central1-a
2016-04-13 19:54:51,688 2163f1cc Thread-27 coremark(1/1) INFO
Running: gcloud compute instances describe pkb-2163f1cc-0 --format
json --quiet --project practical-bot-127123 --zone us-central1-a
2016-04-13 19:54:53,332 2163f1cc MainThread coremark(1/1) INFO
Running: gcloud compute firewall-rules delete perfkit-
firewall-2163f1cc-22 --format json --quiet --project practical-
bot-127123
2016-04-13 19:55:11,198 2163f1cc MainThread coremark(1/1) INFO
Running: gcloud compute firewall-rules describe perfkit-
firewall-2163f1cc-22 --format json --quiet --project practical-
bot-127123
2016-04-13 19:55:12,877 2163f1cc MainThread coremark(1/1) INFO
Running: gcloud compute firewall-rules delete default-
internal-2163f1cc --format json --quiet --project practical-bot-127123
2016-04-13 19:55:30,952 2163f1cc MainThread coremark(1/1) INFO
Running: gcloud compute firewall-rules describe default-
internal-2163f1cc --format json --quiet --project practical-bot-127123
```

```
2016-04-13 19:55:32,161 2163f1cc MainThread coremark(1/1) INFO
Running: gcloud compute networks delete pkb-network-2163f1cc --format
json --quiet --project practical-bot-127123
2016-04-13 19:56:05,263 2163f1cc MainThread coremark(1/1) INFO
Running: gcloud compute networks describe pkb-network-2163f1cc --
format json --quiet --project practical-bot-127123
2016-04-13 19:56:06,470 2163f1cc MainThread INFO
-----PerfKitBenchmarker Complete
```

```
Results-----
```

```
{'metadata': {'cloud': 'GCP',
               'image': 'ubuntu-14-04',
               'machine_type': 'n1-standard-2',
               'num_cpus': 2,
               'perfkitbenchmarker_version': 'unknown',
               'preemptible': False,
               'vm_count': 1,
               'zone': 'us-central1-a'},
 'metric': 'Coremark Score',
 'official': False,
 'owner': 'lichaozhang',
 'product_name': 'PerfKitBenchmarker',
 'run_uri': 'b816422c-9c88-4003-9d1d-ced624667b94',
 'sample_uri': '6b612279-cf5c-4c7e-b21b-3dbb571e48da',
 'test': 'coremark',
 'timestamp': 1460591651.862759,
 'unit': '',
 'value': 21659.085987}
{'metadata': {'cloud': 'GCP',
               'image': 'ubuntu-14-04',
               'machine_type': 'n1-standard-2',
               'perfkitbenchmarker_version': 'unknown',
               'preemptible': False,
               'vm_count': 1,
               'zone': 'us-central1-a'},
 'metric': 'End to End Runtime',
 'official': False,
 'owner': 'lichaozhang',
 'product_name': 'PerfKitBenchmarker',
 'run_uri': 'b816422c-9c88-4003-9d1d-ced624667b94',
 'sample_uri': 'a56f9b43-e568-484a-83f2-5e6ae46c8a1e',
 'test': 'coremark',
 'timestamp': 1460591766.467565,
 'unit': 'seconds',
 'value': 323.2872631549835}
```

```
-----PerfKitBenchmarker Results
```

```
Summary-----
```

```
COREMARK:
  num_cpus="2"
```

Coremark Score 21659.085987
End to End Runtime 323.287263 seconds

For all tests: cloud="GCP" image="ubuntu-14-04" machine_type="n1-standard-2" perfkitbenchmarker_version="unknown" preemptible="False" vm_count="1" zone="us-central1-a"

2016-04-13 19:56:06,471 2163f1cc MainThread INFO Publishing 2 samples to /var/folders/fq/r7tm6d814zb_g_hgm0rndsz40000gn/T/perfkitbenchmarker/run_2163f1cc/perfkitbenchmarker_results.json
2016-04-13 19:56:06,472 2163f1cc MainThread INFO Benchmark run statuses:

Name UID Status

coremark coremark0 SUCCEEDED

Success rate: 100.00% (1/1)
2016-04-13 19:56:06,472 2163f1cc MainThread INFO Complete logs can be found at: /var/folders/fq/r7tm6d814zb_g_hgm0rndsz40000gn/T/perfkitbenchmarker/run_2163f1cc/pkb.log
1x-nat-vl932-172-30-211-109:PerfKitBenchmark lichoazhang\$