

```
Last login: Wed Apr 13 20:20:14 on ttys000
1x-nat-vl932-172-30-211-109:~ lichaozhang$ cd Desktop/
PerfKitBenchmark
1x-nat-vl932-172-30-211-109:PerfKitBenchmark lichaozhang$ cd
Desktop/PerfKitBenchmark
-bash: cd: Desktop/PerfKitBenchmark: No such file or directory
1x-nat-vl932-172-30-211-109:PerfKitBenchmark lichaozhang$ cd
Desktop/PerfKitBenchmark
-bash: cd: Desktop/PerfKitBenchmark: No such file or directory
1x-nat-vl932-172-30-211-109:PerfKitBenchmark lichaozhang$ ./pkb.py
--project=practical-bot-127123 --benchmarks=coremark --
machine_type=n1-standard-8
2016-04-13 20:27:05,269 79fe785a MainThread INFO      Verbose logging
to: /var/folders/fq/r7tm6d814zb_g_hgm0rnsdz40000gn/T/
perfkitbenchmark/run_79fe785a/pkb.log
2016-04-13 20:27:05,269 79fe785a MainThread INFO
PerfKitBenchmark version: unknown
2016-04-13 20:27:05,375 79fe785a MainThread INFO      Flag values:
--machine_type=n1-standard-8
--project=practical-bot-127123
--benchmarks=coremark
2016-04-13 20:27:05,407 79fe785a MainThread coremark(1/1) INFO
Provisioning resources for benchmark coremark
2016-04-13 20:27:05,408 79fe785a Thread-1 coremark(1/1) INFO
Running: gcloud compute networks create pkb-network-79fe785a --format
json --quiet --project practical-bot-127123 --range 10.0.0.0/16
2016-04-13 20:27:45,154 79fe785a Thread-1 coremark(1/1) INFO
Running: gcloud compute networks describe pkb-network-79fe785a --
format json --quiet --project practical-bot-127123
2016-04-13 20:27:47,124 79fe785a Thread-1 coremark(1/1) INFO
Running: gcloud compute firewall-rules create default-
internal-79fe785a --format json --quiet --project practical-bot-127123
--allow tcp:1-65535,udp:1-65535,icmp --network pkb-network-79fe785a --
source-ranges 10.0.0.0/16
2016-04-13 20:28:05,880 79fe785a Thread-1 coremark(1/1) INFO
Running: gcloud compute firewall-rules describe default-
internal-79fe785a --format json --quiet --project practical-bot-127123
2016-04-13 20:28:08,134 79fe785a Thread-6 coremark(1/1) INFO
Running: gcloud compute firewall-rules create perfkit-
firewall-79fe785a-22 --format json --quiet --project practical-
bot-127123 --allow tcp:22,udp:22 --network pkb-network-79fe785a
2016-04-13 20:28:31,949 79fe785a Thread-6 coremark(1/1) INFO
Running: gcloud compute firewall-rules describe perfkit-
firewall-79fe785a-22 --format json --quiet --project practical-
bot-127123
2016-04-13 20:28:33,899 79fe785a Thread-6 coremark(1/1) INFO
Running: gcloud compute instances create pkb-79fe785a-0 --format json
--quiet --project practical-bot-127123 --zone us-central1-a --network
pkb-network-79fe785a --image ubuntu-14-04 --boot-disk-auto-delete --
boot-disk-size 10 --boot-disk-type pd-standard --machine-type n1-
```

```
standard-8 --tags perfkitbenchmarker --no-restart-on-failure --
metadata-from-file sshKeys=/var/folders/fq/
r7tm6d814zb_g_hgm0rndsz40000gn/T/perfkitbenchmarker/run_79fe785a/key-
metadataawjQLZn --metadata owner=lichaozhang --maintenance-policy
TERMINATE
2016-04-13 20:29:09,340 79fe785a Thread-6 coremark(1/1) INFO
Running: gcloud compute instances describe pkb-79fe785a-0 --format
json --quiet --project practical-bot-127123 --zone us-central1-a
2016-04-13 20:29:11,383 79fe785a Thread-6 coremark(1/1) INFO
Running: gcloud compute instances describe pkb-79fe785a-0 --format
json --quiet --project practical-bot-127123 --zone us-central1-a
2016-04-13 20:29:13,531 79fe785a Thread-6 coremark(1/1) INFO      VM:
104.197.112.3
2016-04-13 20:29:13,532 79fe785a Thread-6 coremark(1/1) INFO
Waiting for boot completion.
2016-04-13 20:29:13,532 79fe785a Thread-6 coremark(1/1) INFO
Running: ssh -A -p 22 perfkit@104.197.112.3 -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/perfkitbenchmarker/run_79fe785a/
perfkitbenchmarker_keyfile hostname
2016-04-13 20:29:14,294 79fe785a Thread-6 coremark(1/1) INFO
Running: ssh -A -p 22 perfkit@104.197.112.3 -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/perfkitbenchmarker/run_79fe785a/
perfkitbenchmarker_keyfile hostname
2016-04-13 20:29:15,223 79fe785a Thread-6 coremark(1/1) INFO
Running: ssh -A -p 22 perfkit@104.197.112.3 -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/perfkitbenchmarker/run_79fe785a/
perfkitbenchmarker_keyfile hostname
2016-04-13 20:29:18,657 79fe785a Thread-6 coremark(1/1) INFO
Running: gcloud compute instances add-metadata pkb-79fe785a-0 --format
json --quiet --project practical-bot-127123 --zone us-central1-a --
metadata
benchmark_uid=coremark0,benchmark=coremark,perfkit_uuid=1c0671a7-
dc8c-4e2f-9977-c20c5644d249
2016-04-13 20:29:32,469 79fe785a Thread-6 coremark(1/1) INFO
Running: ssh -A -p 22 perfkit@104.197.112.3 -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_79fe785a/
perfkitbenchmark_keyfile mkdir -p /tmp/pkb
2016-04-13 20:29:33,183 79fe785a 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_79fe785a/ssh_config <vm_name>
  ssh -F /var/folders/fq/r7tm6d814zb_g_hgm0rndsz40000gn/T/
perfkitbenchmark/run_79fe785a/ssh_config vm<index>
  ssh -F /var/folders/fq/r7tm6d814zb_g_hgm0rndsz40000gn/T/
perfkitbenchmark/run_79fe785a/ssh_config <group_name>-<index>
2016-04-13 20:29:33,185 79fe785a MainThread coremark(1/1) INFO
Preparing benchmark coremark
2016-04-13 20:29:33,186 79fe785a MainThread coremark(1/1) INFO
prepare Coremark on 104.197.112.3
2016-04-13 20:29:33,186 79fe785a MainThread coremark(1/1) INFO
Running: ssh -A -p 22 perfkit@104.197.112.3 -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_79fe785a/
perfkitbenchmark_keyfile sudo apt-get update
2016-04-13 20:29:39,096 79fe785a MainThread coremark(1/1) INFO
Running: ssh -A -p 22 perfkit@104.197.112.3 -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_79fe785a/
perfkitbenchmark_keyfile sudo DEBIAN_FRONTEND='noninteractive' /usr/
bin/apt-get -y install build-essential git libtool autoconf automake
2016-04-13 20:29:52,979 79fe785a 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_hgm0rndsz40000gn/T/perfkitbenchmark/run_79fe785a/
perfkitbenchmark_keyfile /Users/lichaozhang/Desktop/
PerfKitBenchmark/perfkitbenchmark/data/coremark_v1.0.tgz
perfkit@104.197.112.3:
2016-04-13 20:29:54,279 79fe785a MainThread coremark(1/1) INFO
Running: ssh -A -p 22 perfkit@104.197.112.3 -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_79fe785a/
perfkitbenchmark_keyfile tar xvfz coremark_v1.0.tgz

```

```

2016-04-13 20:29:54,990 79fe785a MainThread coremark(1/1) INFO
Running: ssh -A -p 22 perfkit@104.197.112.3 -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_79fe785a/
perfkitbenchmark_keyfile sed -i -e "s/LFLAGS_END += -lrt/LFLAGS_END
+= -lrt -lpthread/g" coremark_v1.0/linux64/core_portme.mak
2016-04-13 20:29:55,663 79fe785a MainThread coremark(1/1) INFO
Running benchmark coremark
2016-04-13 20:29:55,664 79fe785a MainThread coremark(1/1) INFO
Coremark running on 104.197.112.3
2016-04-13 20:29:55,664 79fe785a MainThread coremark(1/1) INFO
Running: ssh -A -p 22 perfkit@104.197.112.3 -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_79fe785a/
perfkitbenchmark_keyfile cat /proc/cpuinfo | grep processor | wc -l
2016-04-13 20:29:56,333 79fe785a MainThread coremark(1/1) INFO
Running: ssh -A -p 22 perfkit@104.197.112.3 -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_79fe785a/
perfkitbenchmark_keyfile cd coremark_v1.0;make PORT_DIR=linux64
ITERATIONS=200000 XCFLAGS="-g -O2 -DMULTITHREAD=8 -DUSE_PTHREAD -
DPERFORMANCE_RUN=1"
2016-04-13 20:30:34,347 79fe785a MainThread coremark(1/1) INFO
Coremark Results:
2016-04-13 20:30:34,347 79fe785a MainThread coremark(1/1) INFO
Running: ssh -A -p 22 perfkit@104.197.112.3 -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_79fe785a/
perfkitbenchmark_keyfile cat coremark_v1.0/run1.log
2016-04-13 20:30:35,034 79fe785a MainThread coremark(1/1) INFO      Ran
ssh -A -p 22 perfkit@104.197.112.3 -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_79fe785a/
perfkitbenchmark_keyfile cat coremark_v1.0/run1.log. Got return code
(0).

```

STDOUT: 2K performance run parameters for coremark.

CoreMark Size : 666  
Total ticks : 18065  
Total time (secs): 18.065000  
Iterations/Sec : 88569.056186  
Iterations : 1600000  
Compiler version : GCC4.8.4  
Compiler flags : -O2 -g -O2 -DMULTITHREAD=8 -DUSE\_PTHREAD -  
DPERFORMANCE\_RUN=1 -DPERFORMANCE\_RUN=1 -lrt -lpthread  
Parallel PThreads : 8  
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  
[2]crclist : 0xe714  
[3]crclist : 0xe714  
[4]crclist : 0xe714  
[5]crclist : 0xe714  
[6]crclist : 0xe714  
[7]crclist : 0xe714  
[0]crcmatrix : 0x1fd7  
[1]crcmatrix : 0x1fd7  
[2]crcmatrix : 0x1fd7  
[3]crcmatrix : 0x1fd7  
[4]crcmatrix : 0x1fd7  
[5]crcmatrix : 0x1fd7  
[6]crcmatrix : 0x1fd7  
[7]crcmatrix : 0x1fd7  
[0]crcstate : 0x8e3a  
[1]crcstate : 0x8e3a  
[2]crcstate : 0x8e3a  
[3]crcstate : 0x8e3a  
[4]crcstate : 0x8e3a  
[5]crcstate : 0x8e3a  
[6]crcstate : 0x8e3a  
[7]crcstate : 0x8e3a  
[0]crcfinal : 0x4983  
[1]crcfinal : 0x4983  
[2]crcfinal : 0x4983  
[3]crcfinal : 0x4983  
[4]crcfinal : 0x4983  
[5]crcfinal : 0x4983  
[6]crcfinal : 0x4983  
[7]crcfinal : 0x4983

Correct operation validated. See readme.txt for run and reporting rules.

CoreMark 1.0 : 88569.056186 / GCC4.8.4 -O2 -g -O2 -DMULTITHREAD=8 -  
DUSE\_PTHREAD -DPERFORMANCE\_RUN=1 -DPERFORMANCE\_RUN=1 -lrt -lpthread /  
Heap / 8:PThreads

STDERR: Warning: Permanently added '104.197.112.3' (ECDSA) to the list of known hosts.

```
2016-04-13 20:30:35,036 79fe785a MainThread coremark(1/1) INFO
Cleaning up benchmark coremark
2016-04-13 20:30:35,037 79fe785a MainThread coremark(1/1) INFO
Tearing down resources for benchmark coremark
2016-04-13 20:30:35,037 79fe785a Thread-28 coremark(1/1) INFO
Running: gcloud compute instances delete pkb-79fe785a-0 --format json
--quiet --project practical-bot-127123 --zone us-central1-a
2016-04-13 20:31:10,359 79fe785a Thread-28 coremark(1/1) INFO
Running: gcloud compute instances describe pkb-79fe785a-0 --format
json --quiet --project practical-bot-127123 --zone us-central1-a
2016-04-13 20:31:12,357 79fe785a MainThread coremark(1/1) INFO
Running: gcloud compute firewall-rules delete perfkit-
firewall-79fe785a-22 --format json --quiet --project practical-
bot-127123
2016-04-13 20:31:25,923 79fe785a MainThread coremark(1/1) INFO
Running: gcloud compute firewall-rules describe perfkit-
firewall-79fe785a-22 --format json --quiet --project practical-
bot-127123
2016-04-13 20:31:27,972 79fe785a MainThread coremark(1/1) INFO
Running: gcloud compute firewall-rules delete default-
internal-79fe785a --format json --quiet --project practical-bot-127123
2016-04-13 20:31:52,485 79fe785a MainThread coremark(1/1) INFO
Running: gcloud compute firewall-rules describe default-
internal-79fe785a --format json --quiet --project practical-bot-127123
2016-04-13 20:31:54,799 79fe785a MainThread coremark(1/1) INFO
Running: gcloud compute networks delete pkb-network-79fe785a --format
json --quiet --project practical-bot-127123
2016-04-13 20:32:33,690 79fe785a MainThread coremark(1/1) INFO
Running: gcloud compute networks describe pkb-network-79fe785a --
format json --quiet --project practical-bot-127123
2016-04-13 20:32:35,421 79fe785a MainThread INFO
-----PerfKitBenchmarker Complete
```

Results-----

```
{'metadata': {'cloud': 'GCP',
               'image': 'ubuntu-14-04',
               'machine_type': 'n1-standard-8',
               'num_cpus': 8,
               'perfkitbenchmarker_version': 'unknown',
               'preemptible': False,
               'vm_count': 1,
               'zone': 'us-central1-a'},
 'metric': 'Coremark Score',
 'official': False,
 'owner': 'lichaozhang',
 'product_name': 'PerfKitBenchmarker',
 'run_uri': '1c0671a7-dc8c-4e2f-9977-c20c5644d249',
```

```

'sample_uri': '56d25573-6b33-434d-997c-8c69f9f97e97',
'test': 'coremark',
'timestamp': 1460593835.035881,
'unit': '',
'value': 88569.056186}
{'metadata': {'cloud': 'GCP',
              'image': 'ubuntu-14-04',
              'machine_type': 'n1-standard-8',
              'perfkitbenchmark_version': 'unknown',
              'preemptible': False,
              'vm_count': 1,
              'zone': 'us-central1-a'},
'metric': 'End to End Runtime',
'official': False,
'owner': 'lichaozhang',
'product_name': 'PerfKitBenchmark',
'run_uri': '1c0671a7-dc8c-4e2f-9977-c20c5644d249',
'sample_uri': 'db67e0c1-3115-4530-bc7d-d55a899e19f6',
'test': 'coremark',
'timestamp': 1460593955.418816,
'unit': 'seconds',
'value': 330.0117287635803}

```

#### -----PerfKitBenchmarker Results

Summary-----

COREMARK:

num\_cpus="8"

Coremark Score

88569.056186

End to End Runtime

330.011729 seconds

-----  
For all tests: cloud="GCP" image="ubuntu-14-04" machine\_type="n1-standard-8" perfkitbenchmark\_version="unknown" preemptible="False" vm\_count="1" zone="us-central1-a"

2016-04-13 20:32:35,422 79fe785a MainThread INFO Publishing 2

samples to /var/folders/fq/r7tm6d814zb\_g\_hgm0rndsz40000gn/T/

perfkitbenchmark/run\_79fe785a/perfkitbenchmark\_results.json

2016-04-13 20:32:35,423 79fe785a MainThread INFO Benchmark run

statuses:

```

-----
Name      UID      Status
-----
coremark  coremark0  SUCCEEDED
-----

```

Success rate: 100.00% (1/1)

2016-04-13 20:32:35,424 79fe785a MainThread INFO Complete logs can

be found at: /var/folders/fq/r7tm6d814zb\_g\_hgm0rndsz40000gn/T/

perfkitbenchmark/run\_79fe785a/pkb.log

1x-nat-vl932-172-30-211-109:PerfKitBenchmarker lichaozhang\$

