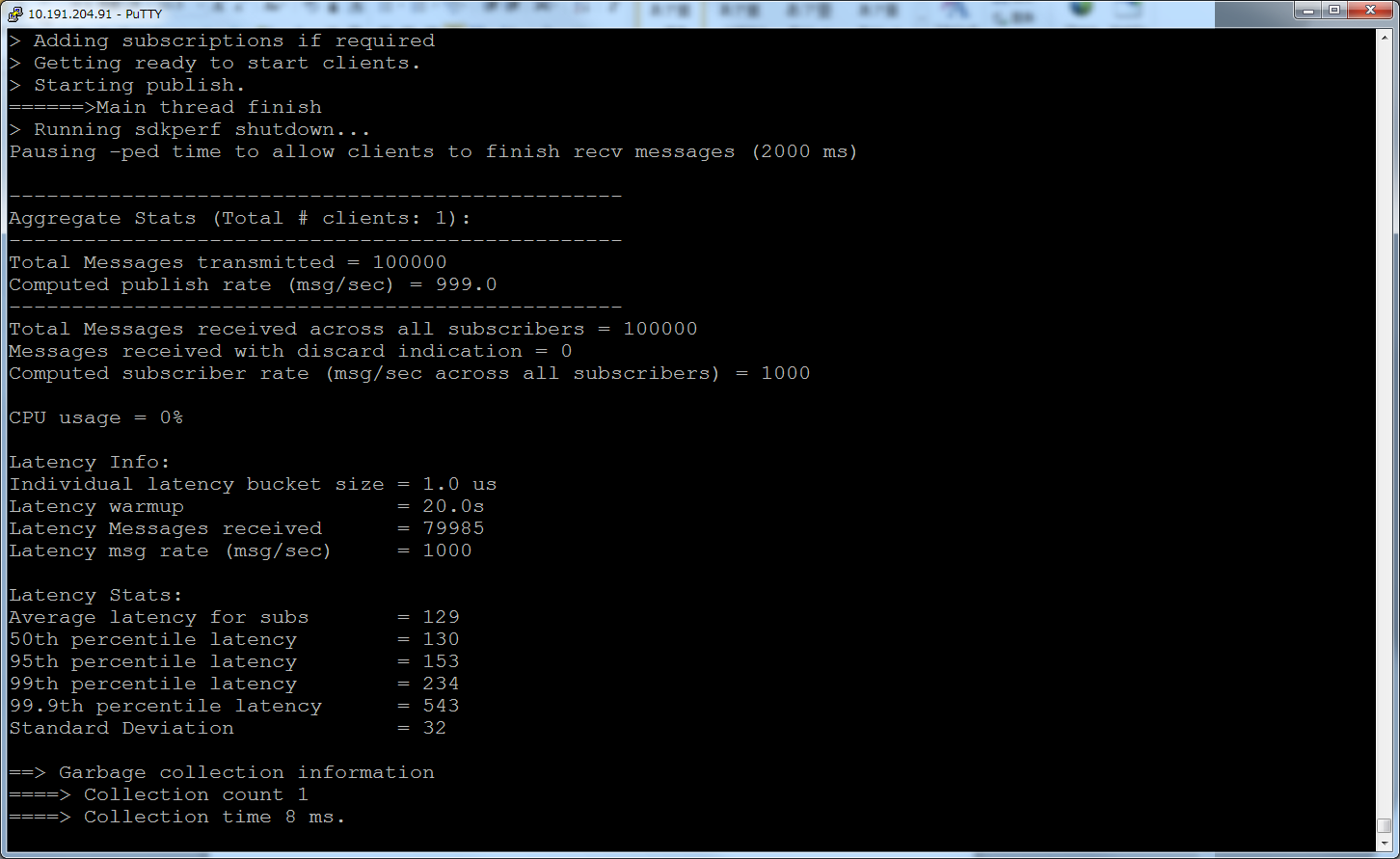
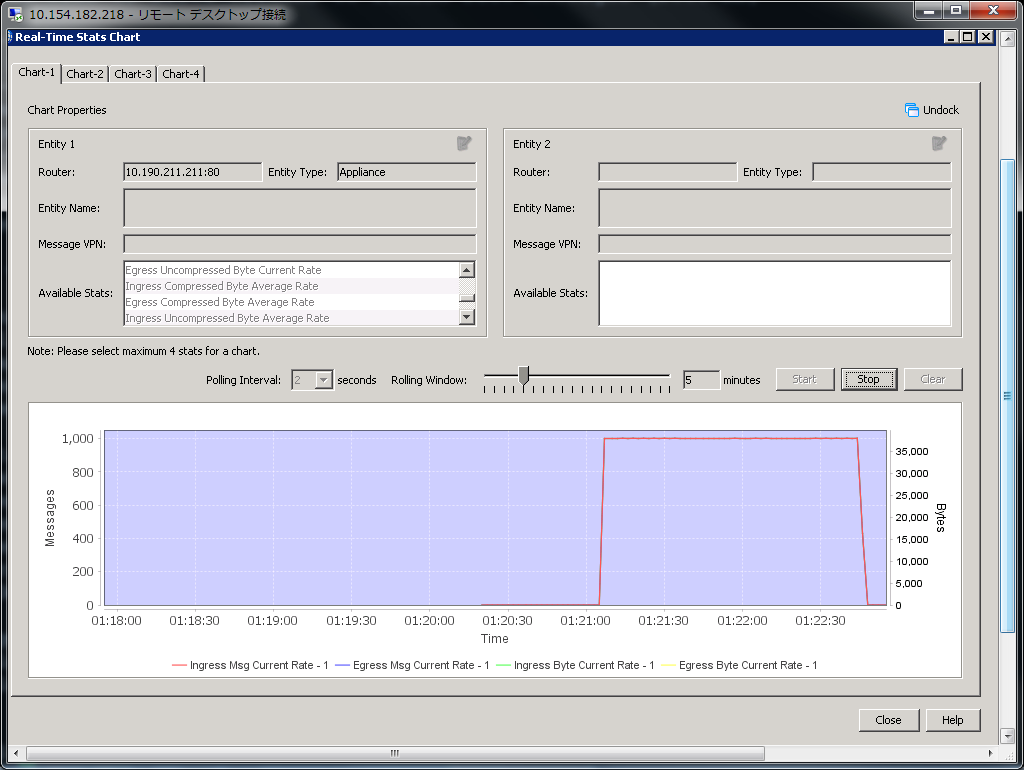
Direct Messaging - 1000 msgs/sec - 35 bytes message size

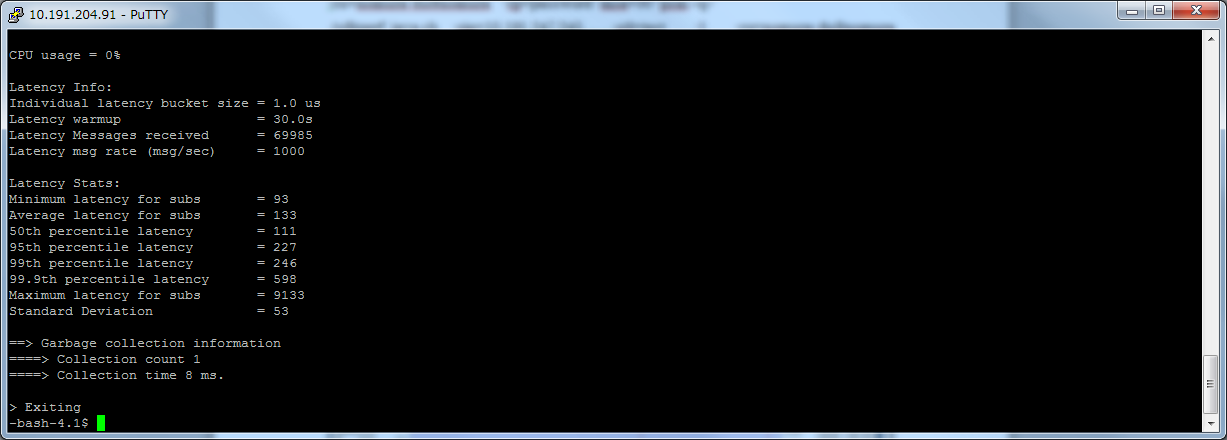


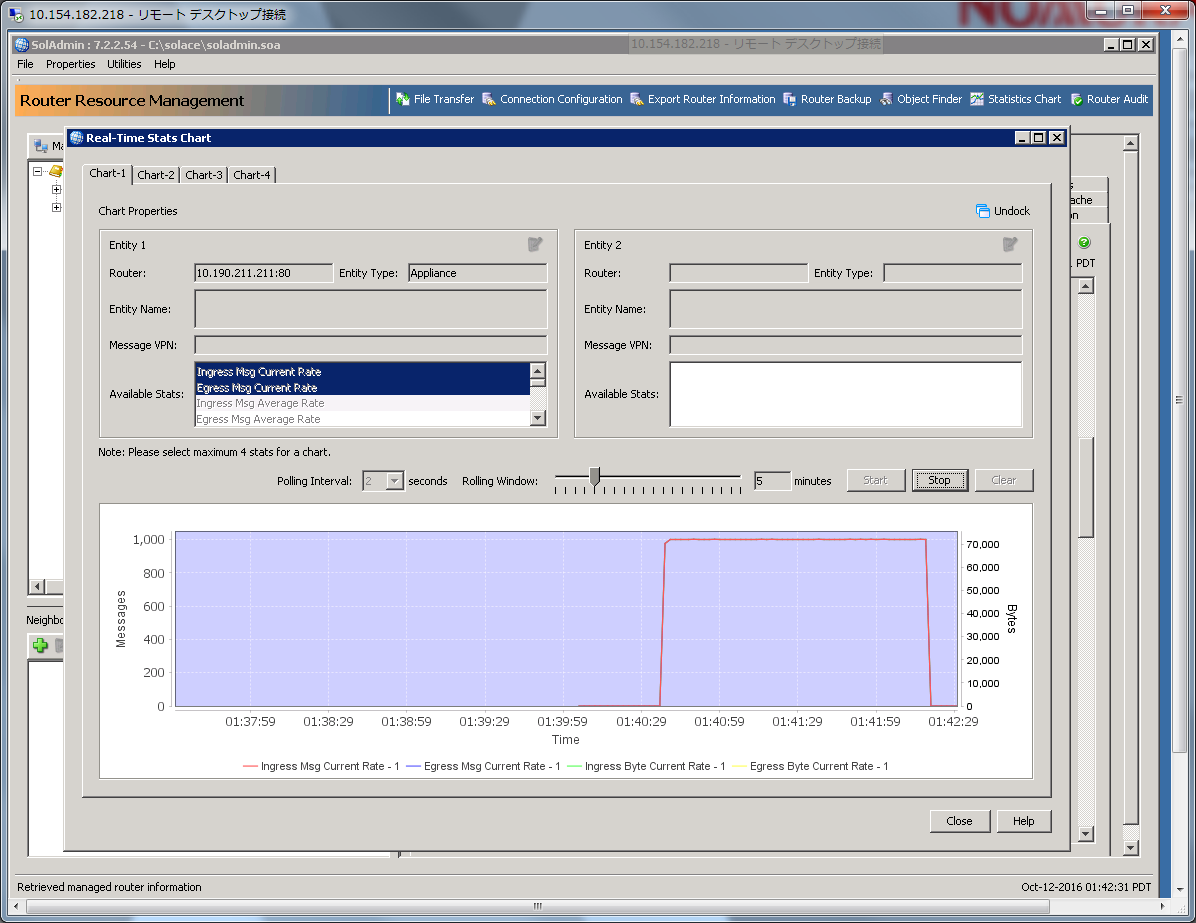


Direct Messaging - 1000 msgs/sec – 5０ bytes message size

./sdkperf\_java.sh -cip=10.191.247.245 -ptl=test -mn=100000 -mr=1000 -l -lat -lwu=20 -cu=nomura-du@nomura -cp=password -msa=50 -psm –q

./sdkperf\_java.sh -cip=10.191.247.245 -stl=test -l -cu=nomura-du@nomura -cp=password –q

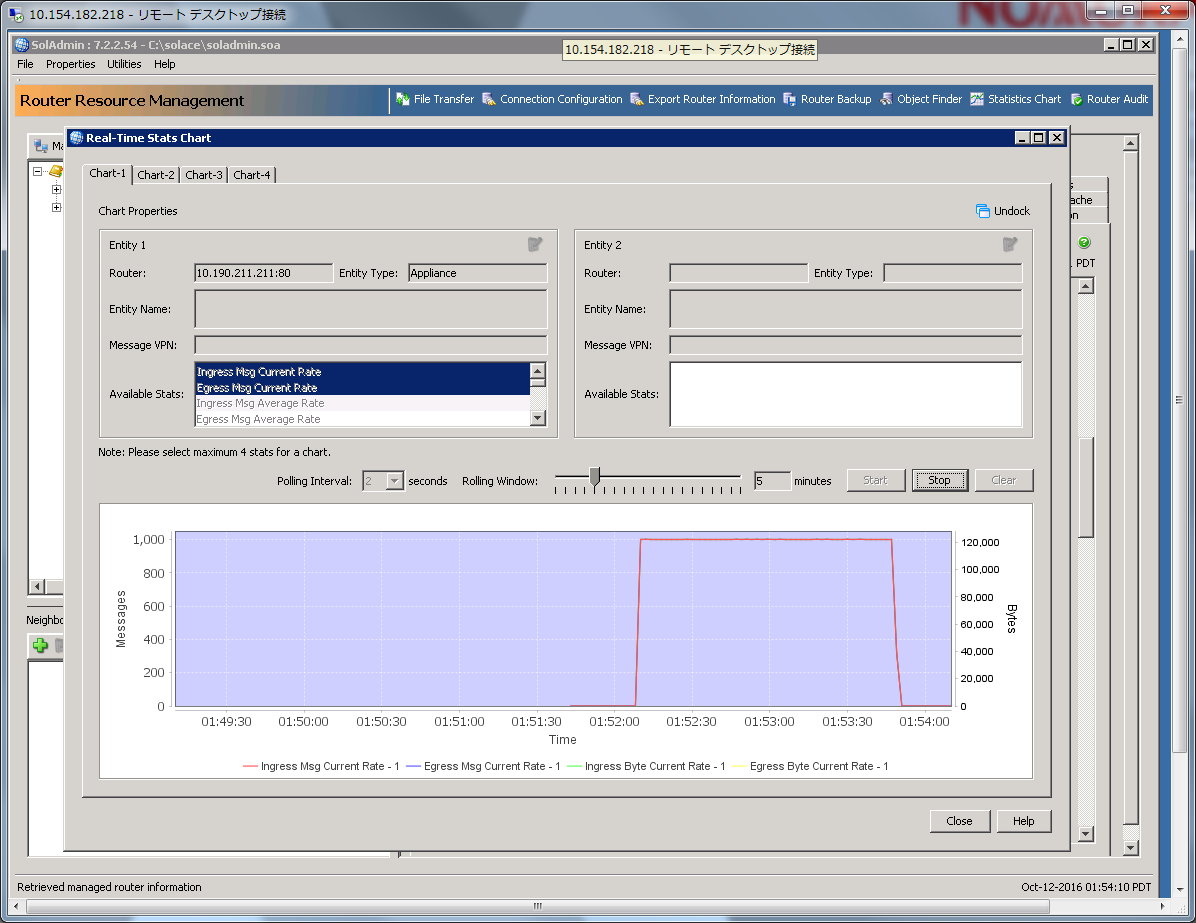




./sdkperf\_java.sh -cip=10.191.247.245 -ptl=test -mn=100000 -mr=1000 -l -lat -lwu=20 -cu=nomura-du@nomura -cp=password -msa=100 -psm -q

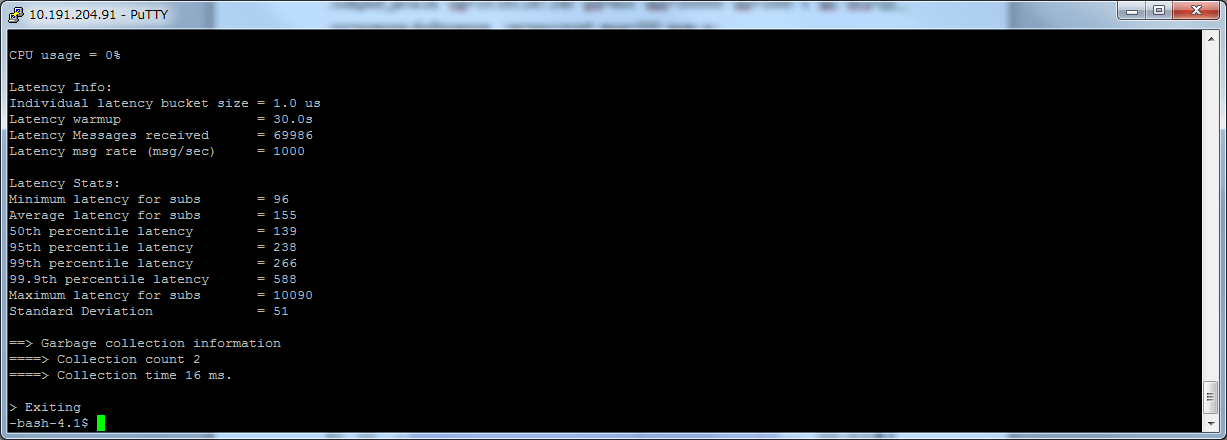
./sdkperf\_java.sh -cip=10.191.247.245 -stl=test -l -cu=nomura-du@nomura -cp=password –q

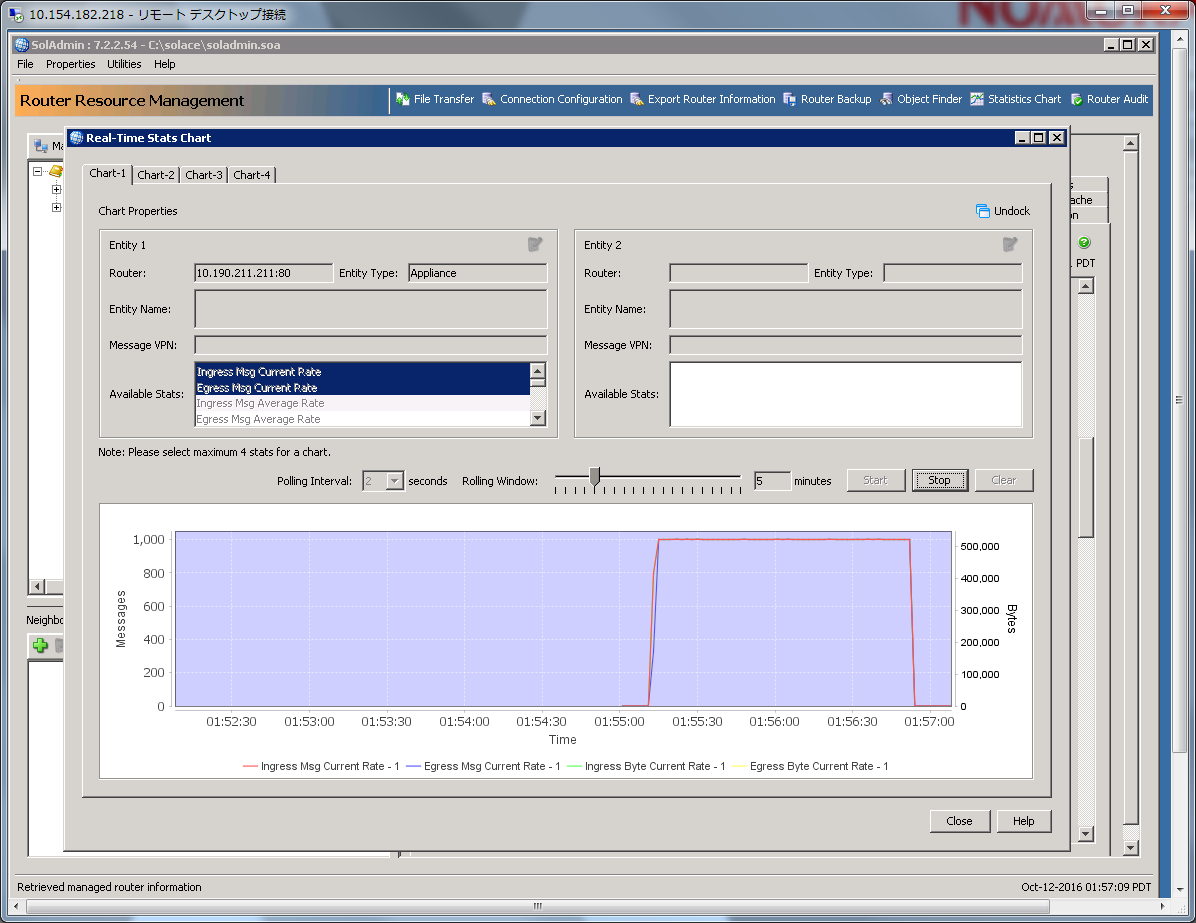




./sdkperf\_java.sh -cip=10.191.247.245 -ptl=test -mn=100000 -mr=1000 -l -lat -lwu=20 -cu=nomura-du@nomura -cp=password -msa=500 -psm -q

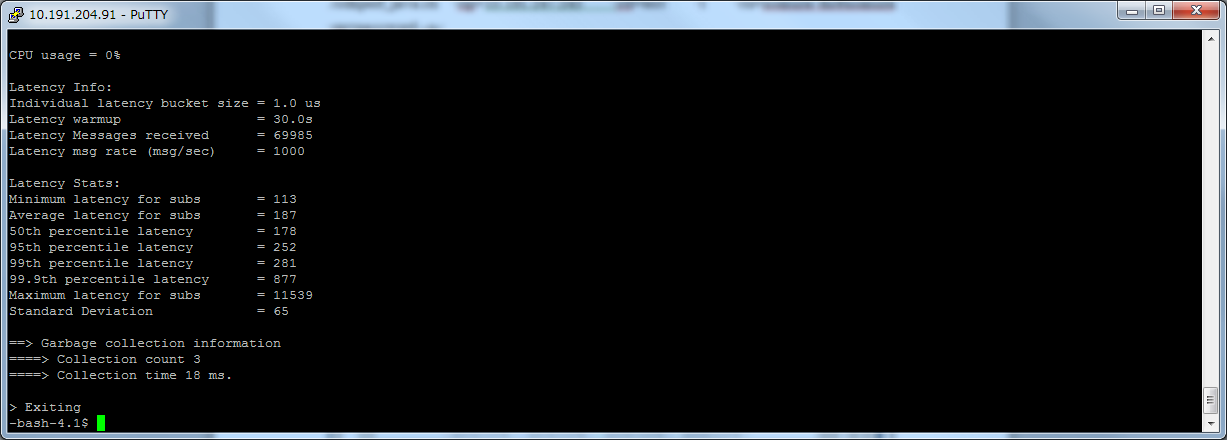
./sdkperf\_java.sh -cip=10.191.247.245 -stl=test -l -cu=nomura-du@nomura -cp=password –q

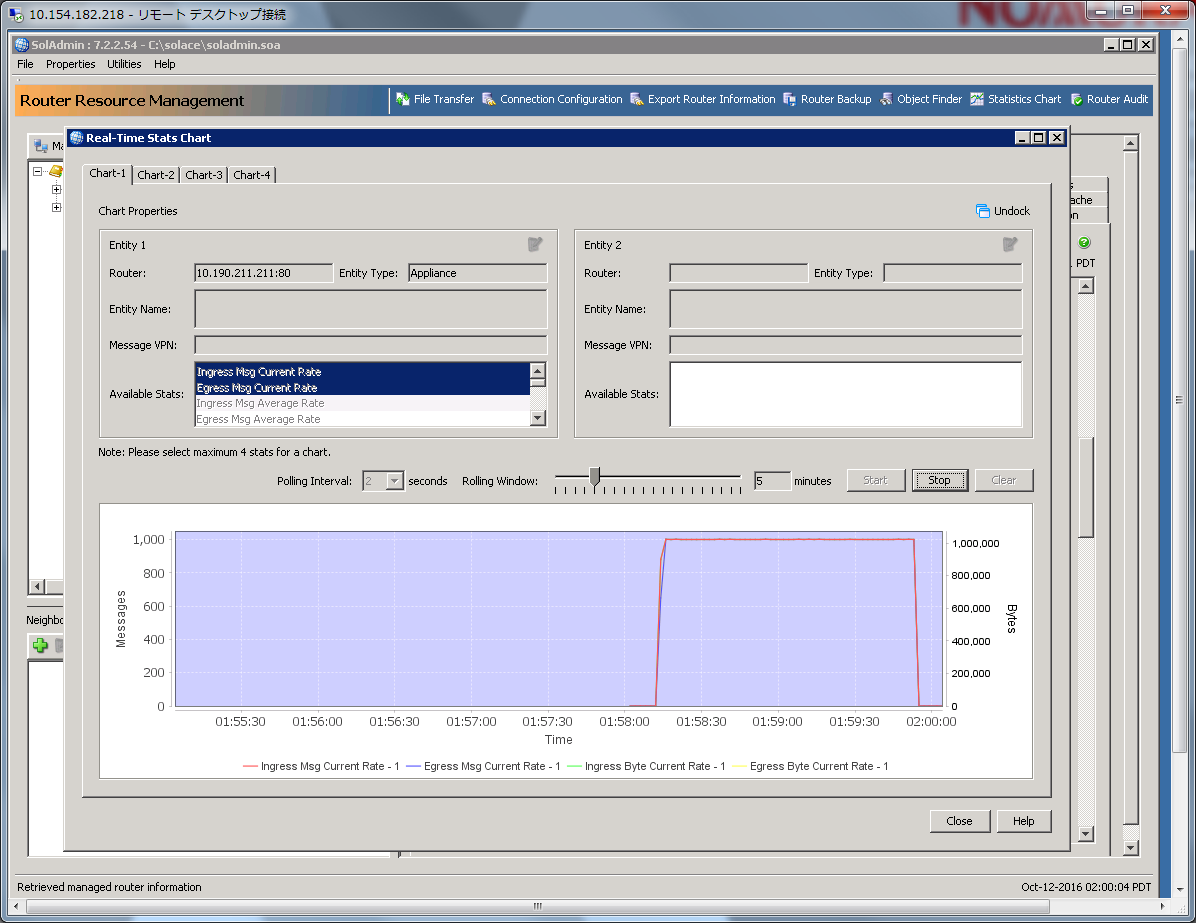




./sdkperf\_java.sh -cip=10.191.247.245 -ptl=test -mn=100000 -mr=1000 -l -lat -lwu=20 -cu=nomura-du@nomura -cp=password -msa=1000 -psm -q

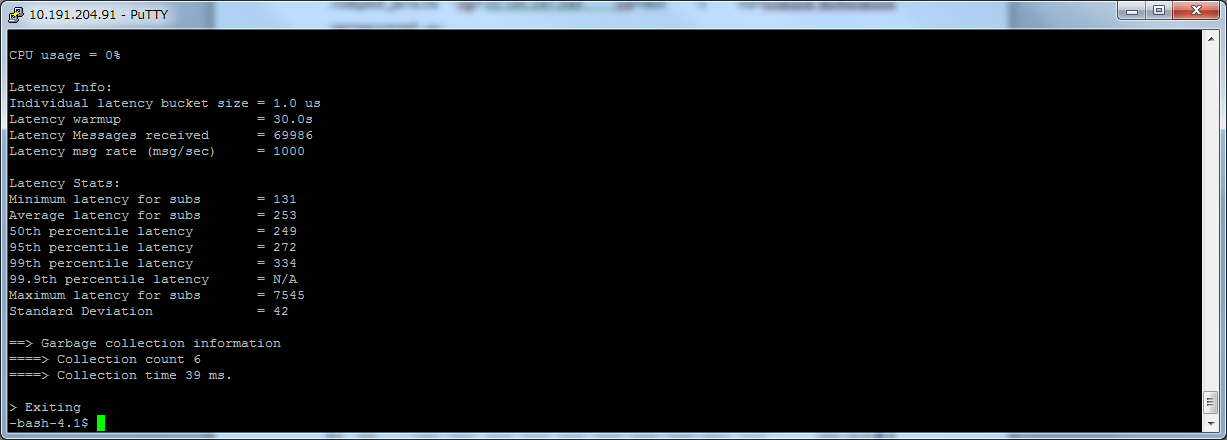
./sdkperf\_java.sh -cip=10.191.247.245 -stl=test -l -cu=nomura-du@nomura -cp=password –q

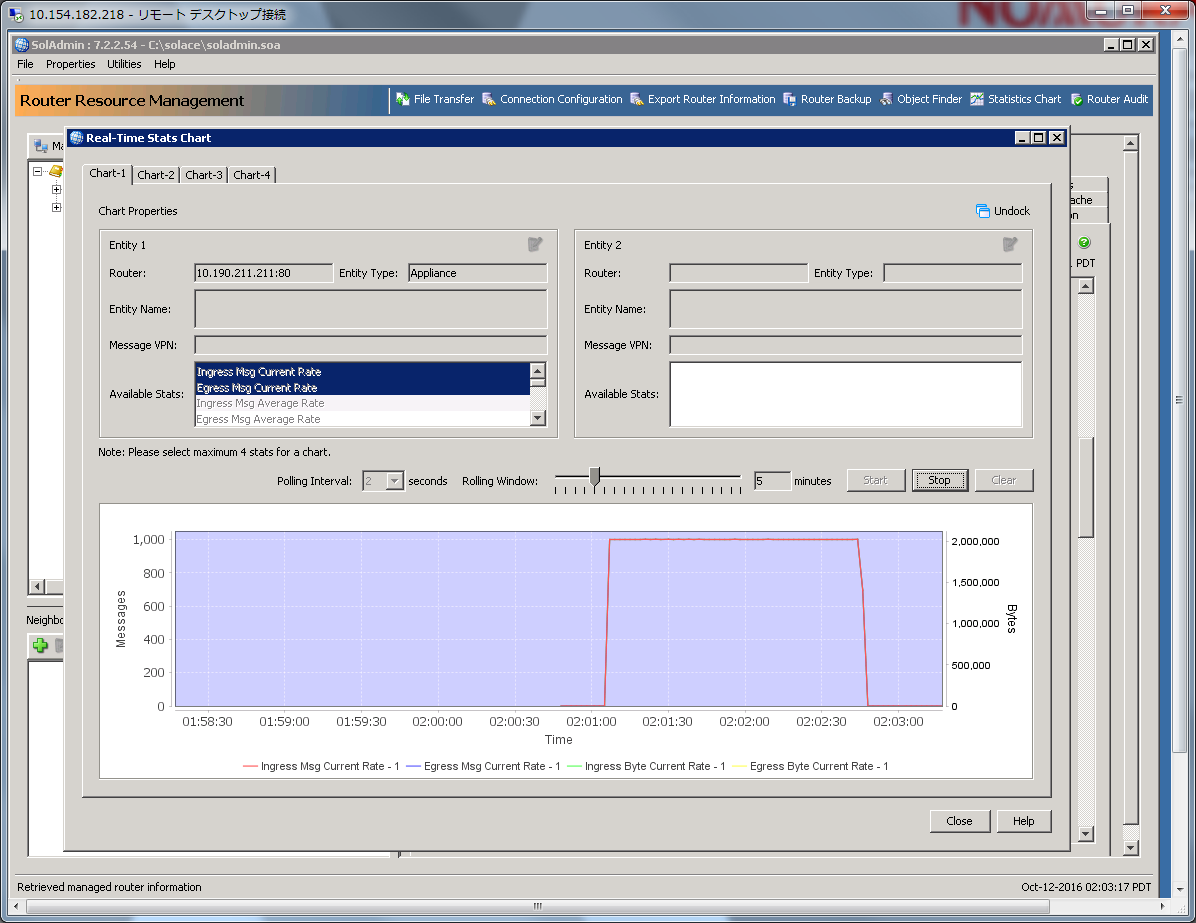




./sdkperf\_java.sh -cip=10.191.247.245 -ptl=test -mn=100000 -mr=1000 -l -lat -lwu=20 -cu=nomura-du@nomura -cp=password -msa=2000 -psm -q

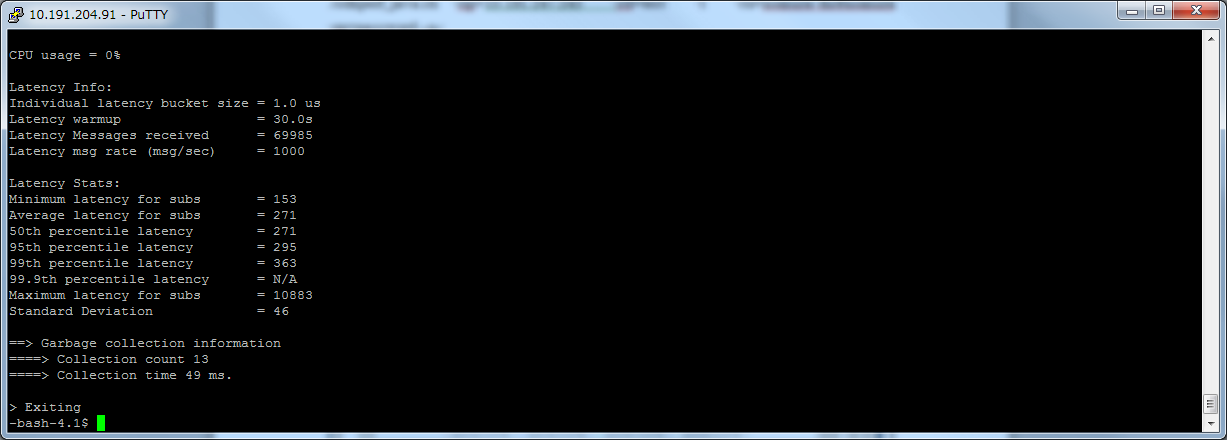
./sdkperf\_java.sh -cip=10.191.247.245 -stl=test -l -cu=nomura-du@nomura -cp=password –q

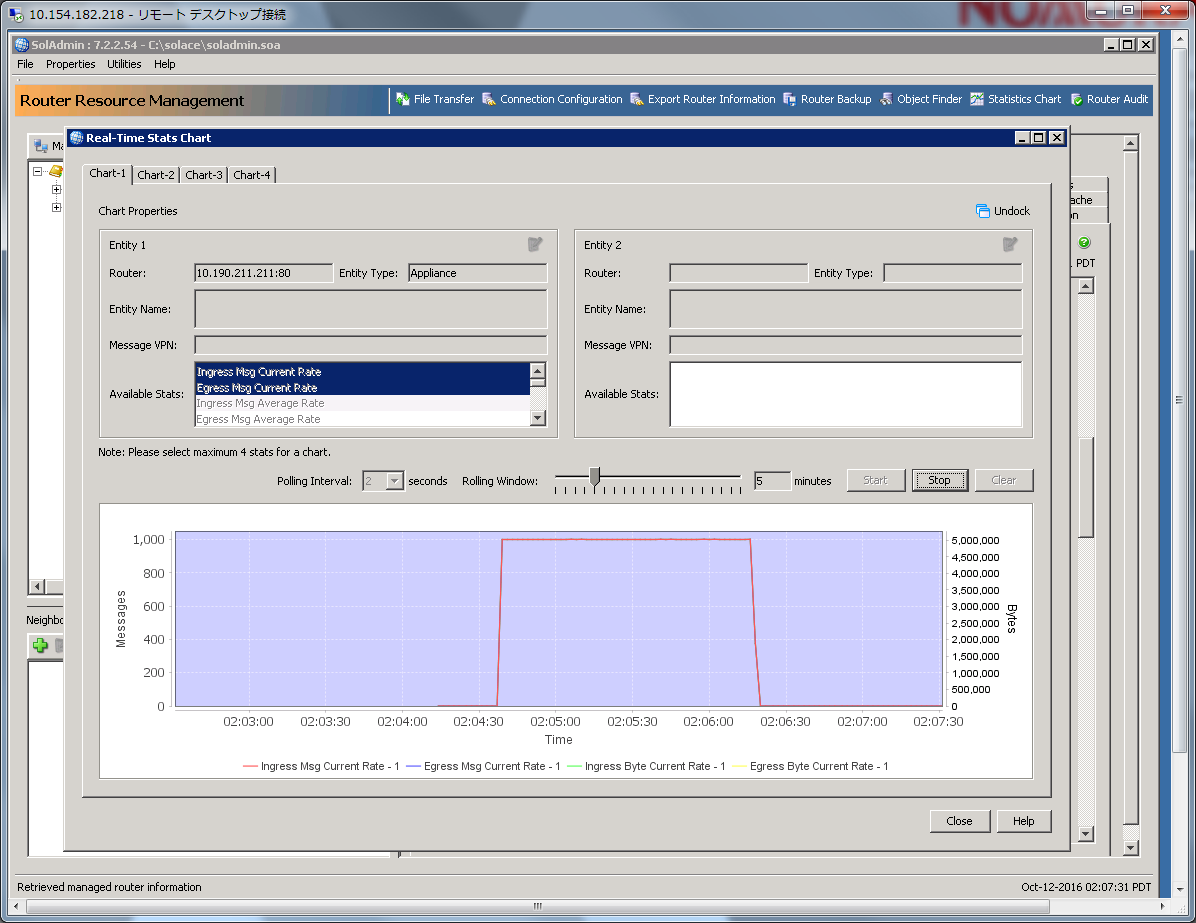




./sdkperf\_java.sh -cip=10.191.247.245 -ptl=test -mn=100000 -mr=1000 -l -lat -lwu=20 -cu=nomura-du@nomura -cp=password -msa=5000 -psm -q

./sdkperf\_java.sh -cip=10.191.247.245 -stl=test -l -cu=nomura-du@nomura -cp=password –q

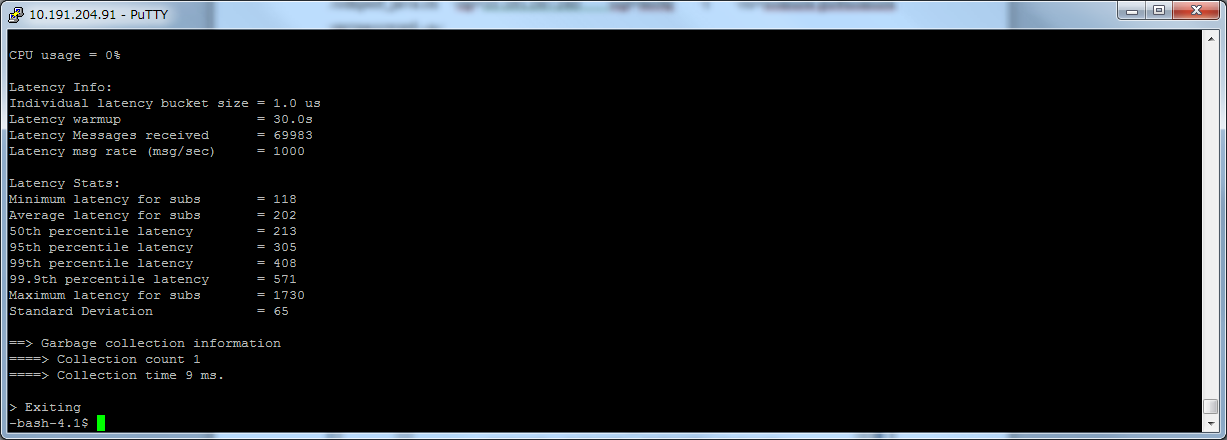


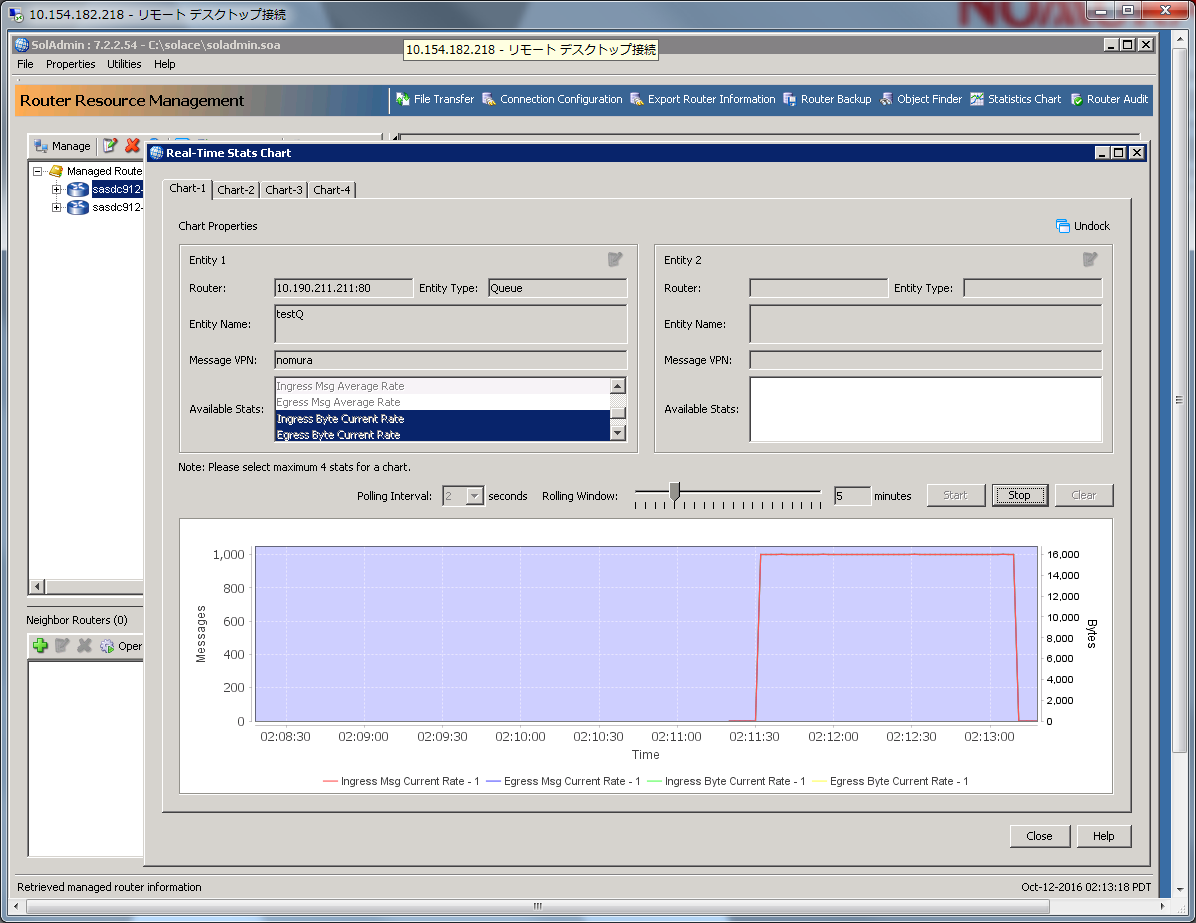


Guaranteed messaging tests

./sdkperf\_java.sh -cip=10.191.247.245 -ptl=test -mn=100000 -mr=1000 -l -lat -lwu=20 -cu=nomura-gu@nomura -cp=password -psm -q -mt=persistent

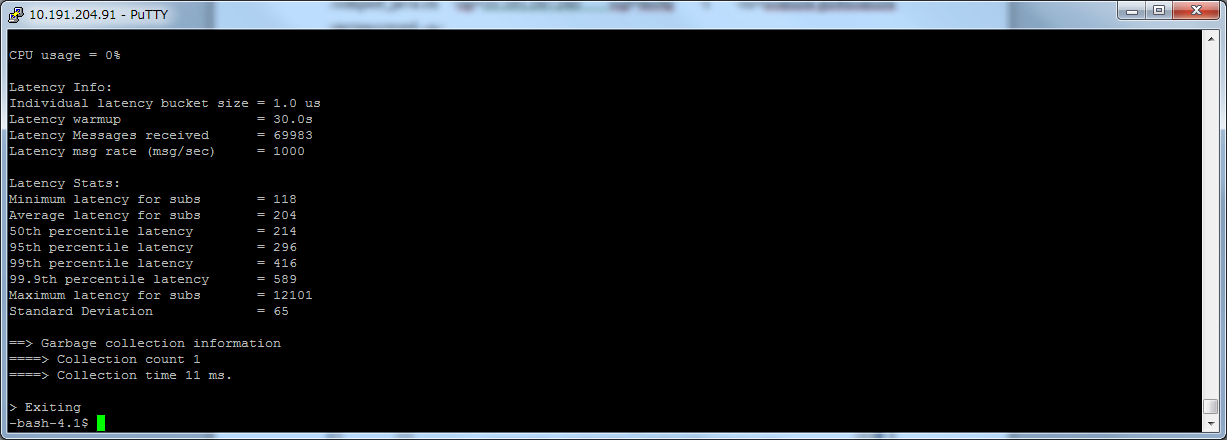
./sdkperf\_java.sh -cip=10.191.247.245 -sql=testQ -l -cu=nomura-gu@nomura -cp=password –q

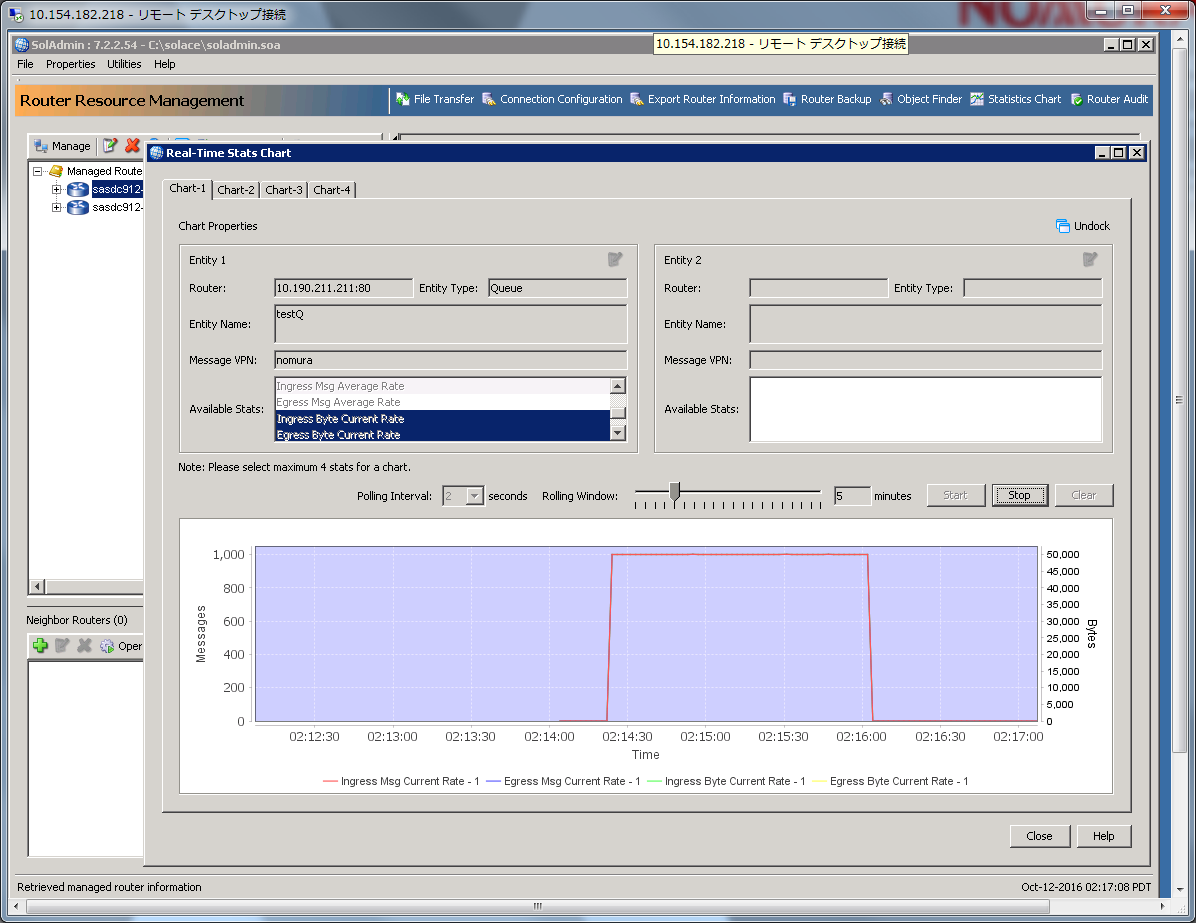




./sdkperf\_java.sh -cip=10.191.247.245 -ptl=test -mn=100000 -mr=1000 -l -lat -lwu=20 -cu=nomura-gu@nomura -cp=password -psm -q -mt=persistent -msa=50

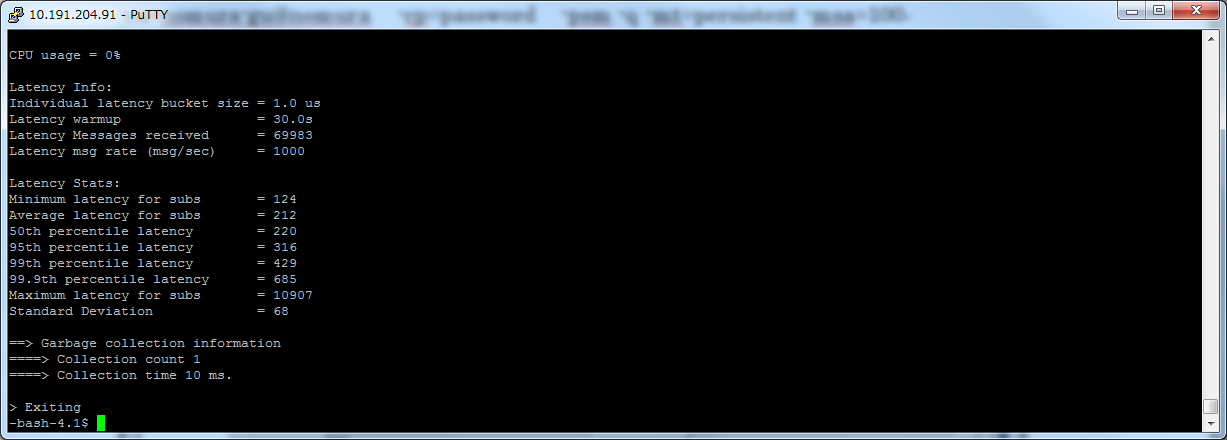
./sdkperf\_java.sh -cip=10.191.247.245 -sql=testQ -l -cu=nomura-gu@nomura -cp=password –q

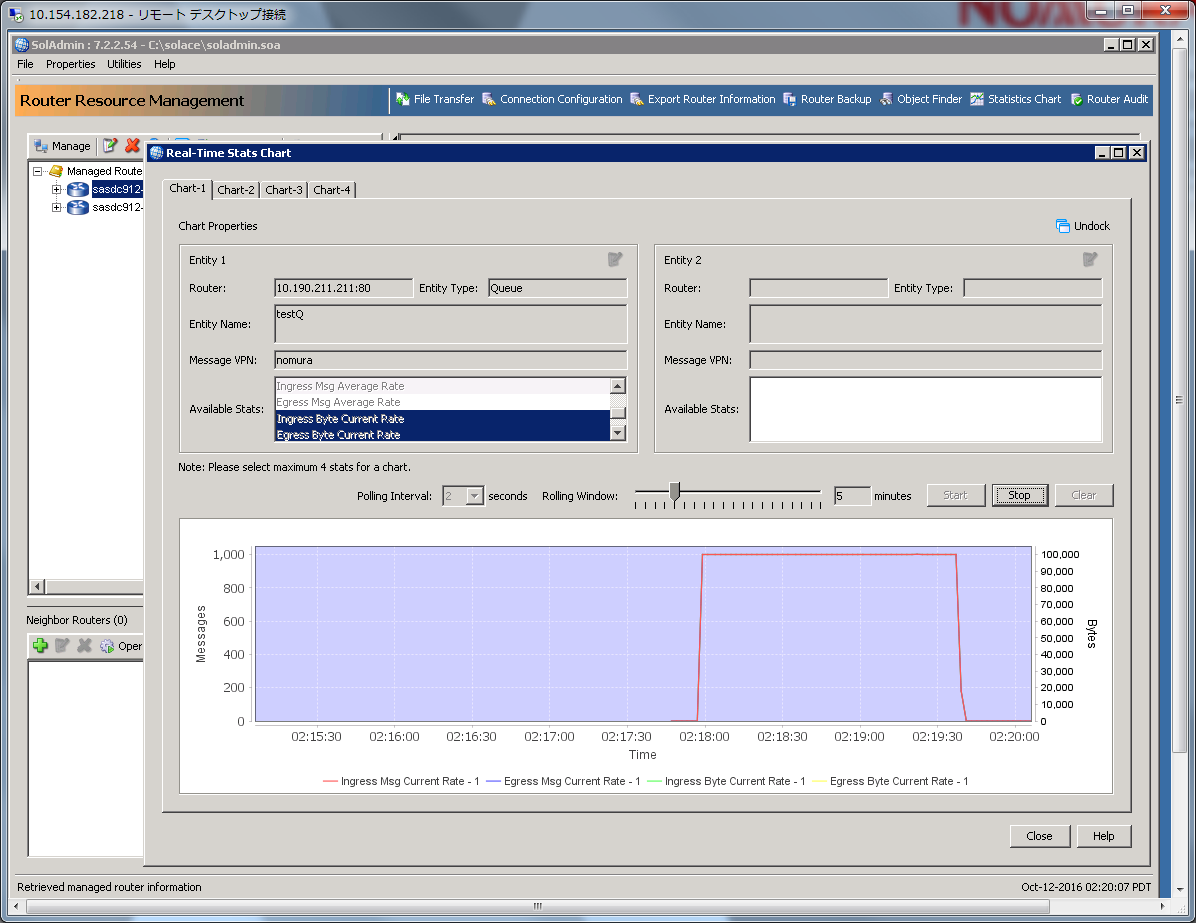




./sdkperf\_java.sh -cip=10.191.247.245 -ptl=test -mn=100000 -mr=1000 -l -lat -lwu=20 -cu=nomura-gu@nomura -cp=password -psm -q -mt=persistent -msa=100

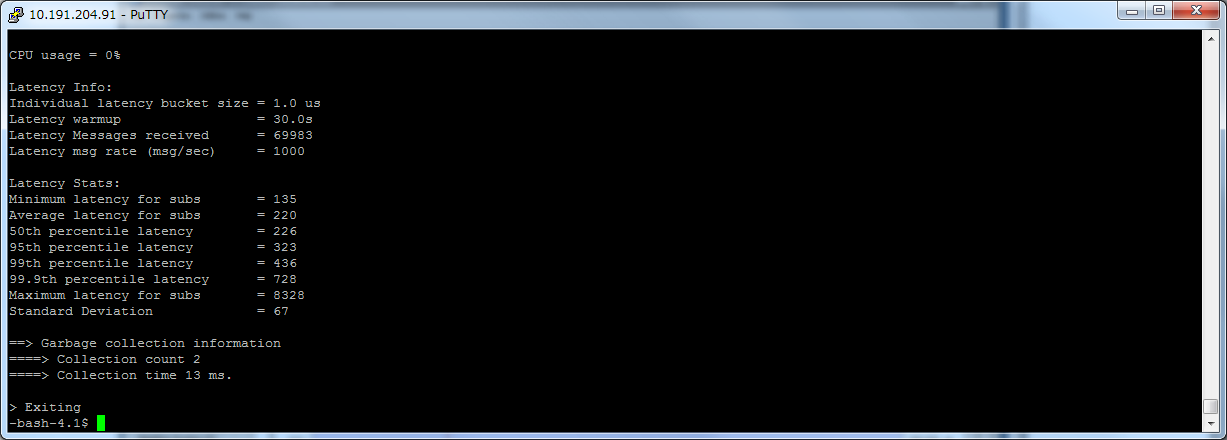
./sdkperf\_java.sh -cip=10.191.247.245 -sql=testQ -l -cu=nomura-gu@nomura -cp=password –q

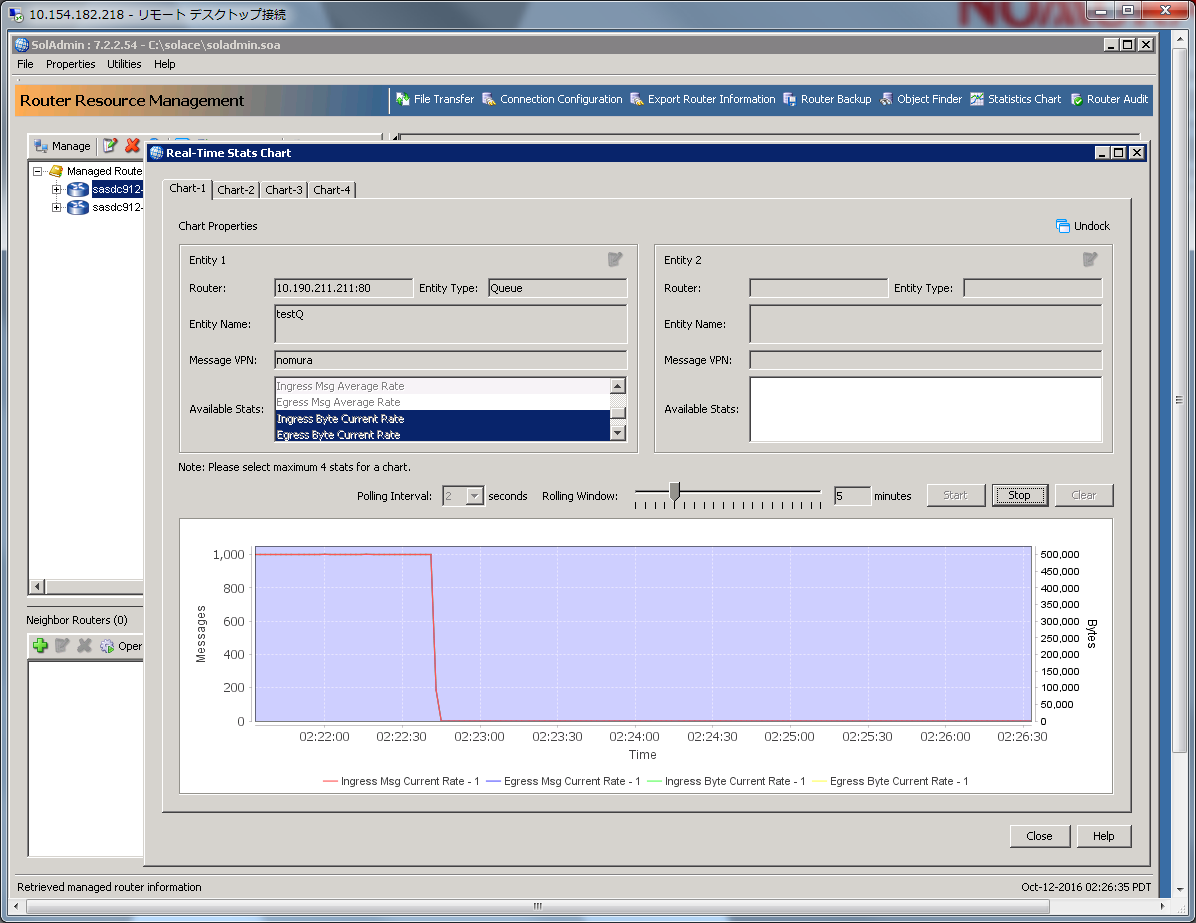




./sdkperf\_java.sh -cip=10.191.247.245 -ptl=test -mn=100000 -mr=1000 -l -lat -lwu=20 -cu=nomura-gu@nomura -cp=password -psm -q -mt=persistent -msa=500

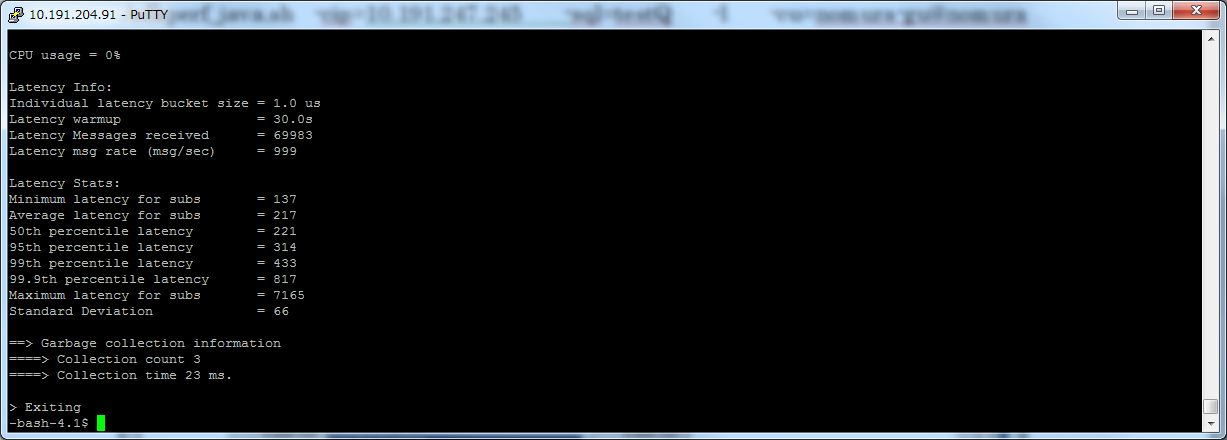
./sdkperf\_java.sh -cip=10.191.247.245 -sql=testQ -l -cu=nomura-gu@nomura -cp=password –q

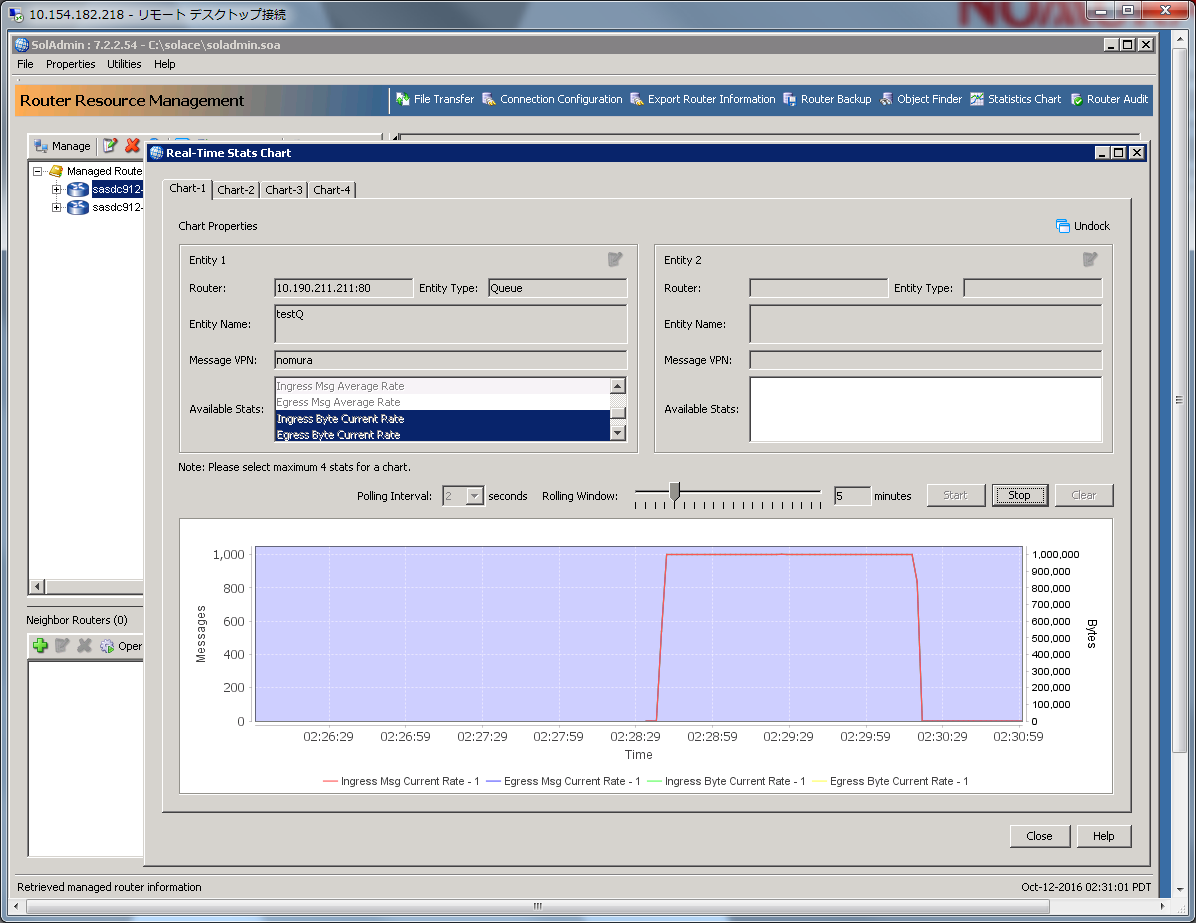




./sdkperf\_java.sh -cip=10.191.247.245 -ptl=test -mn=100000 -mr=1000 -l -lat -lwu=20 -cu=nomura-gu@nomura -cp=password -psm -q -mt=persistent -msa=1000

./sdkperf\_java.sh -cip=10.191.247.245 -sql=testQ -l -cu=nomura-gu@nomura -cp=password –q

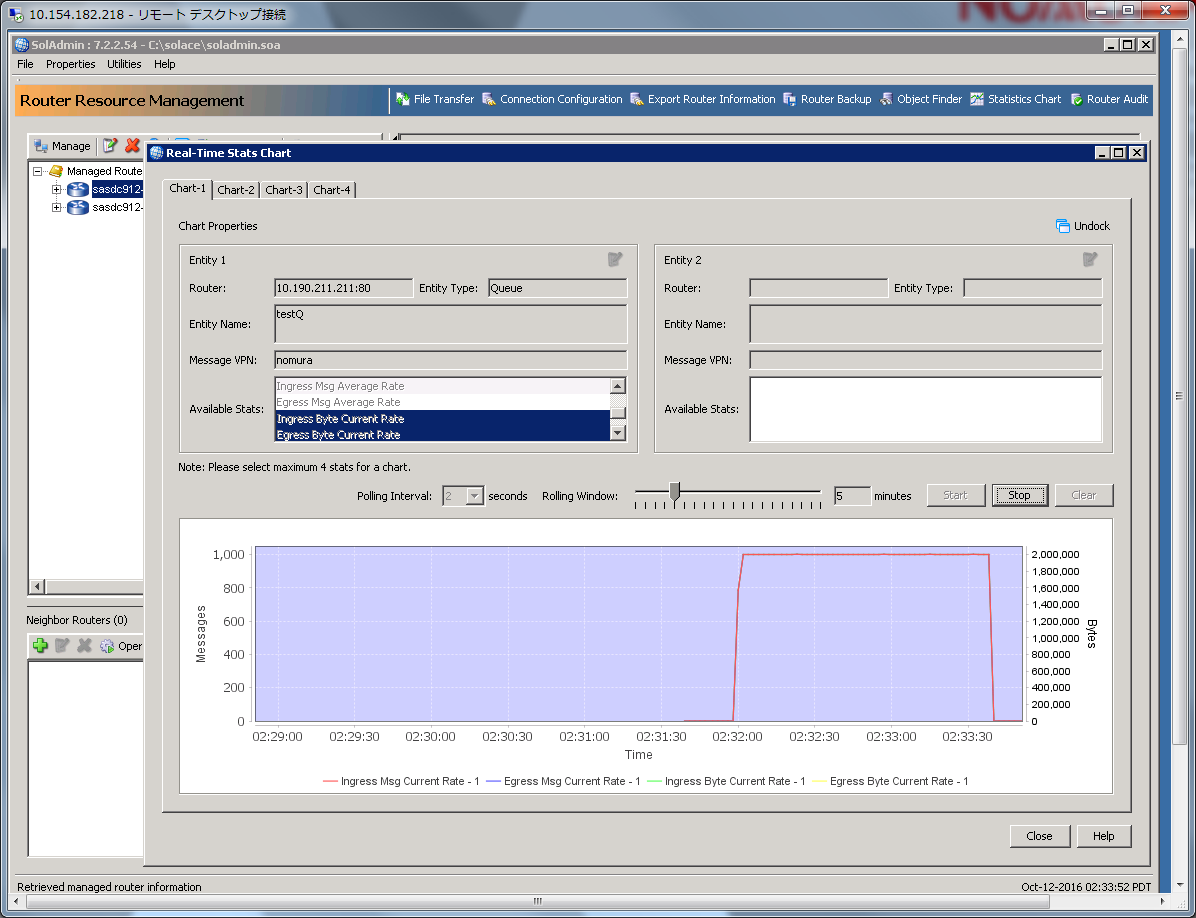




./sdkperf\_java.sh -cip=10.191.247.245 -ptl=test -mn=100000 -mr=1000 -l -lat -lwu=20 -cu=nomura-gu@nomura -cp=password -psm -q -mt=persistent -msa=2000

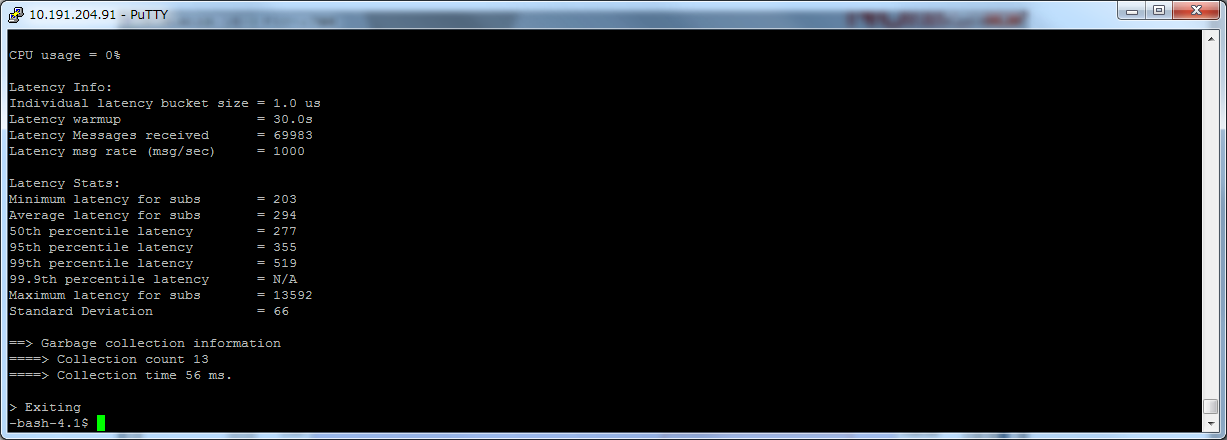
./sdkperf\_java.sh -cip=10.191.247.245 -sql=testQ -l -cu=nomura-gu@nomura -cp=password –q

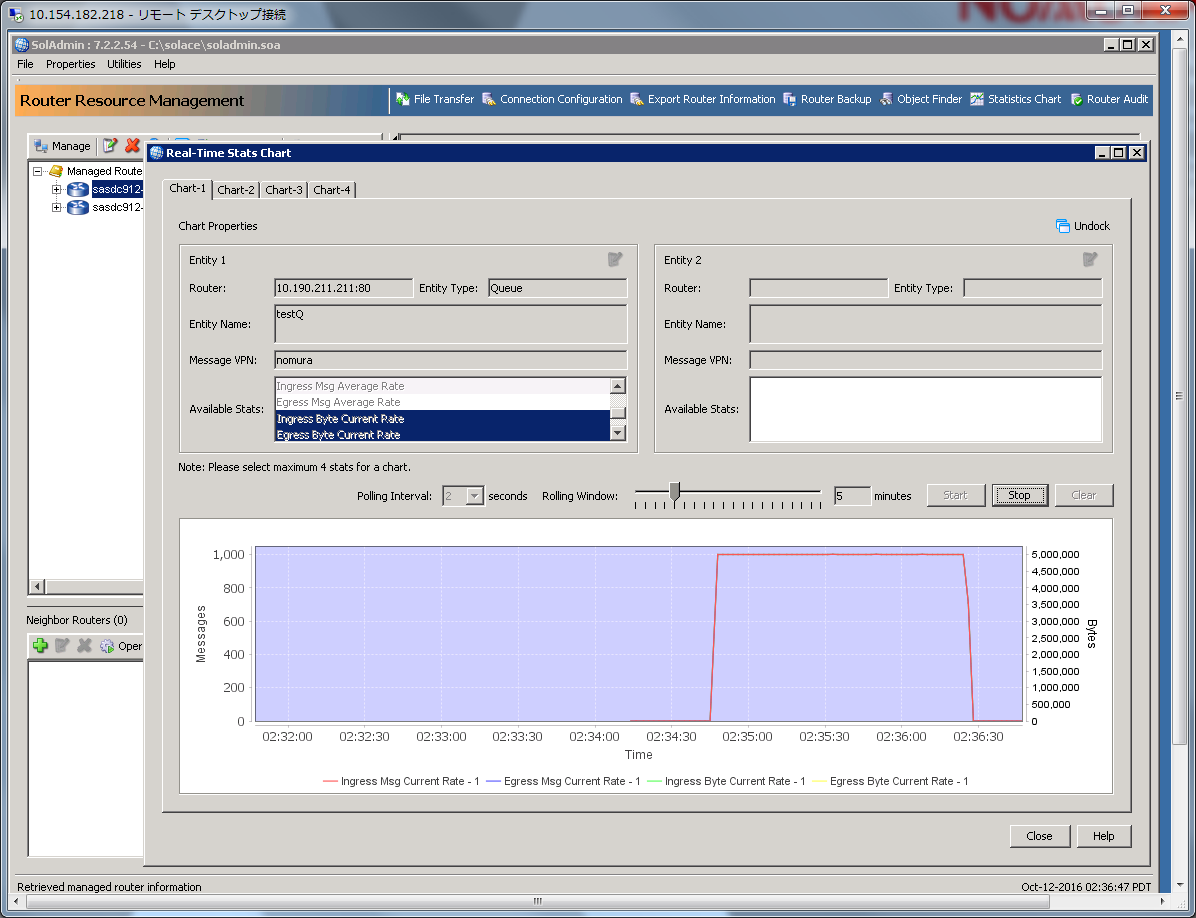




./sdkperf\_java.sh -cip=10.191.247.245 -ptl=test -mn=100000 -mr=1000 -l -lat -lwu=20 -cu=nomura-gu@nomura -cp=password -psm -q -mt=persistent -msa=5000

./sdkperf\_java.sh -cip=10.191.247.245 -sql=testQ -l -cu=nomura-gu@nomura -cp=password -q



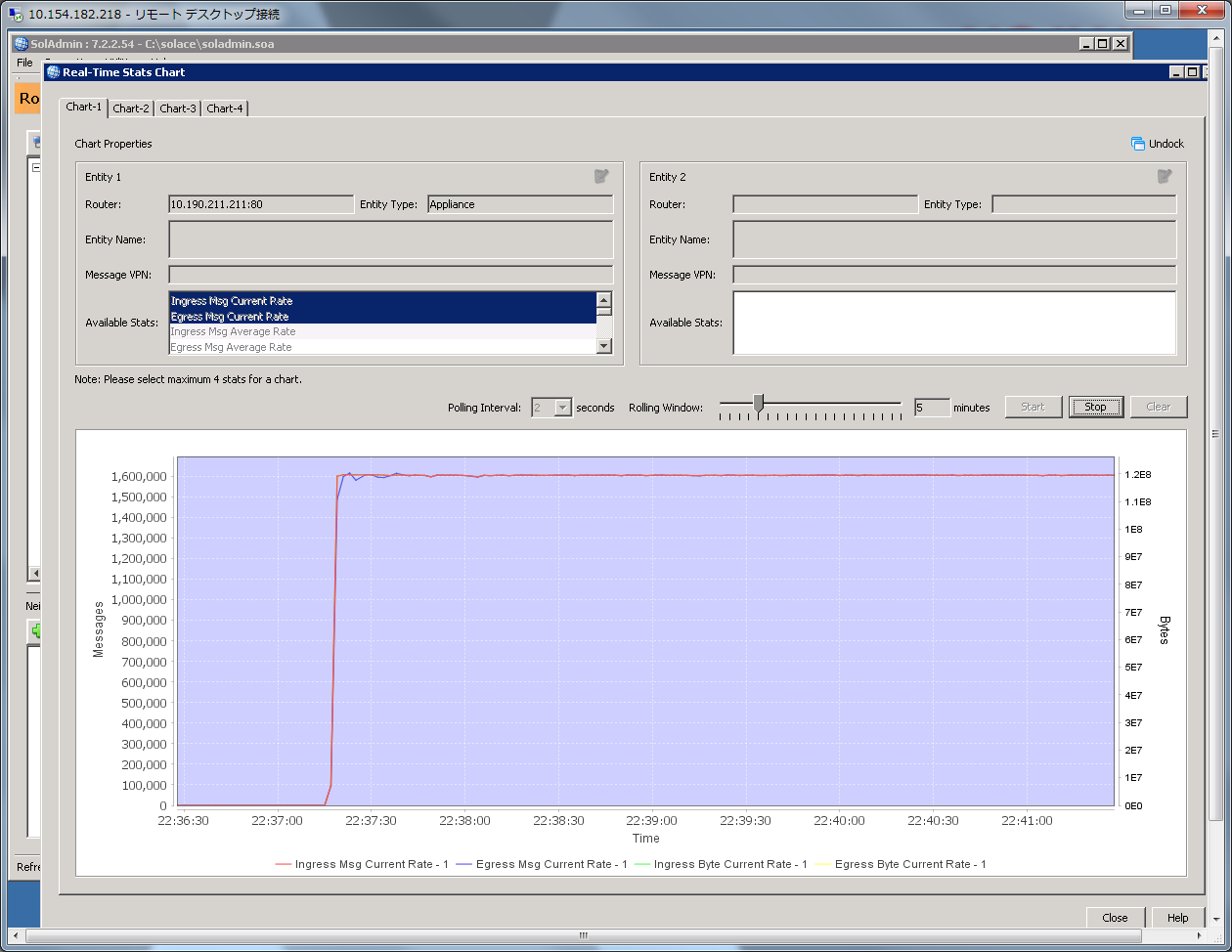


Throughput

１：１

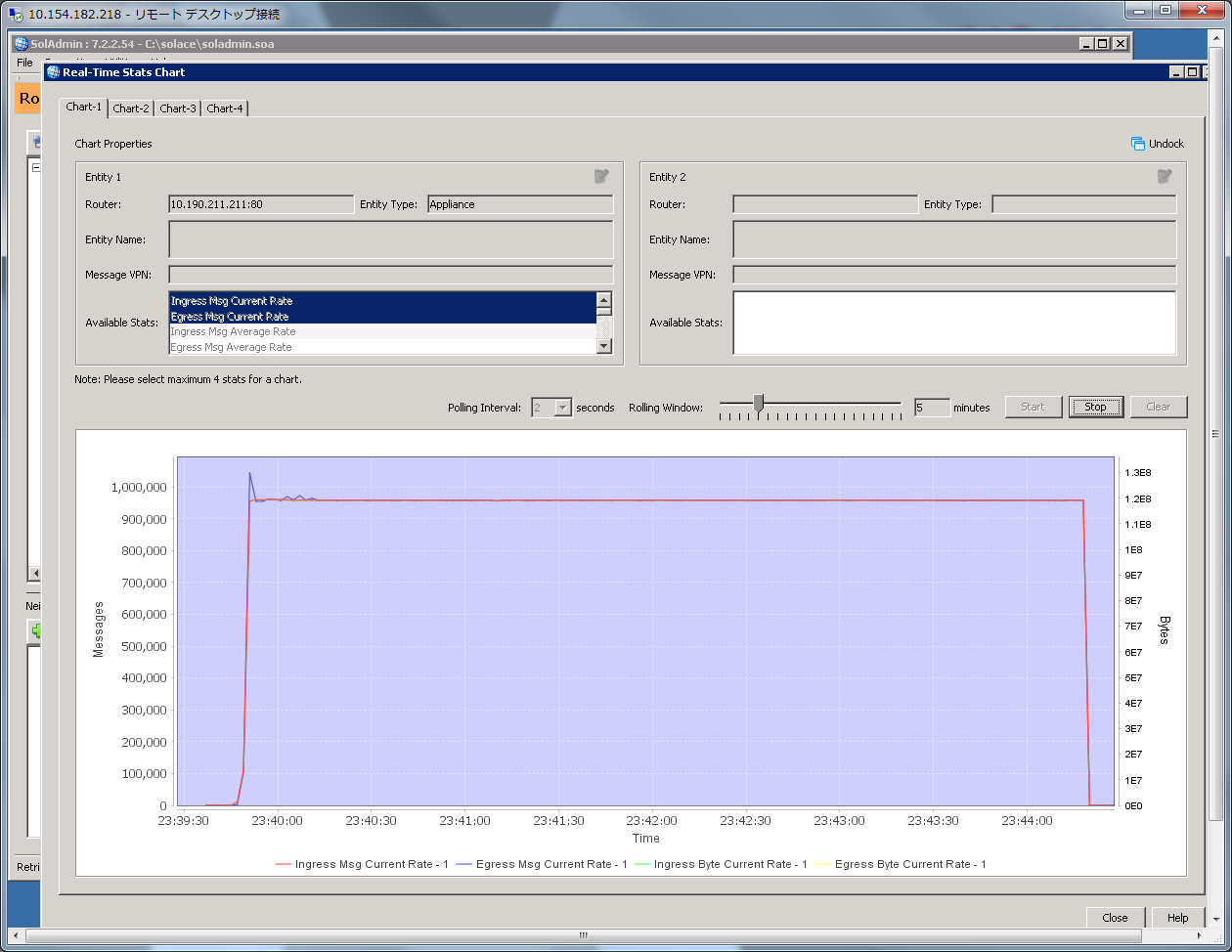
./pub\_\_direct\_througput.sh 15 ５0

./sub\_\_direct\_througput.sh 15



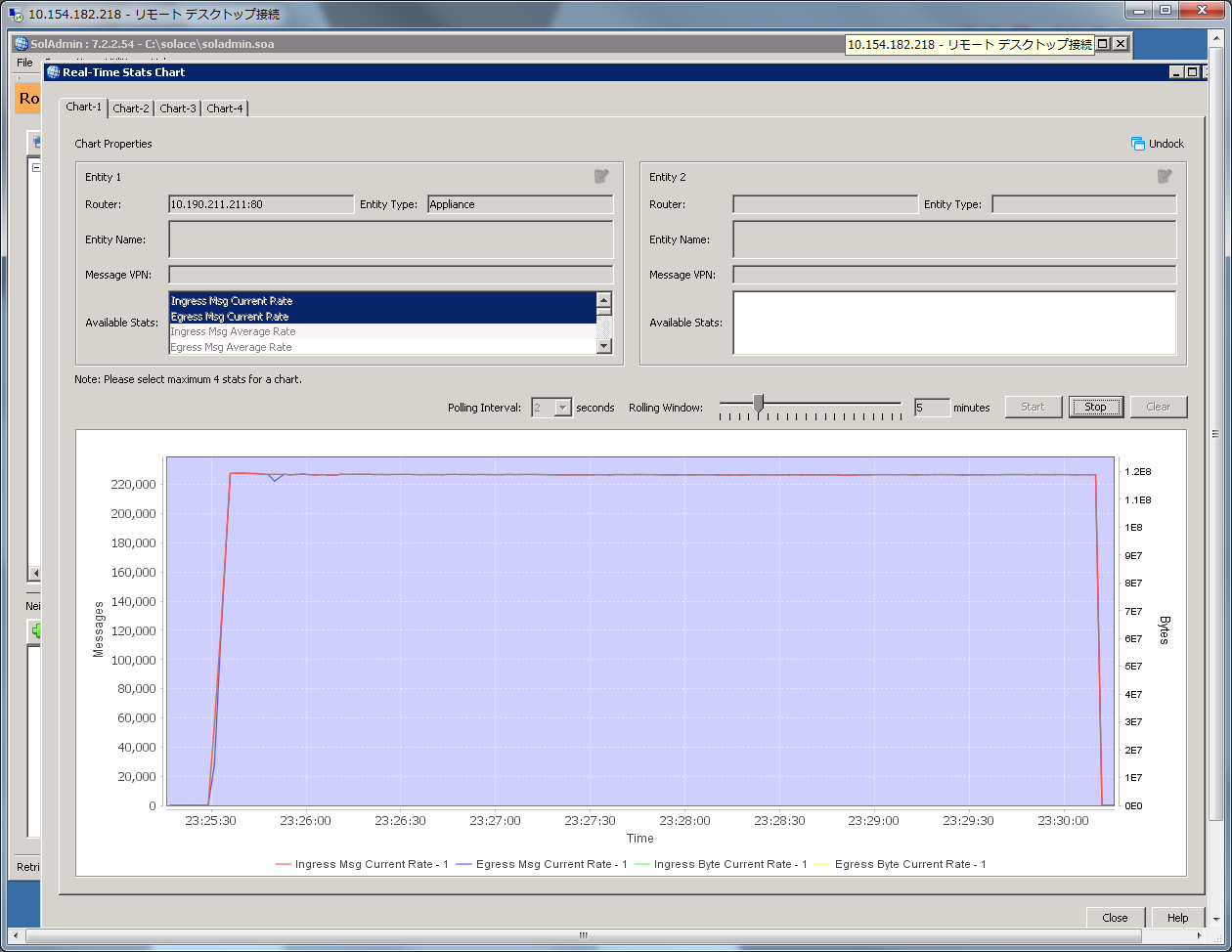
./pub\_\_direct\_througput.sh 15 100

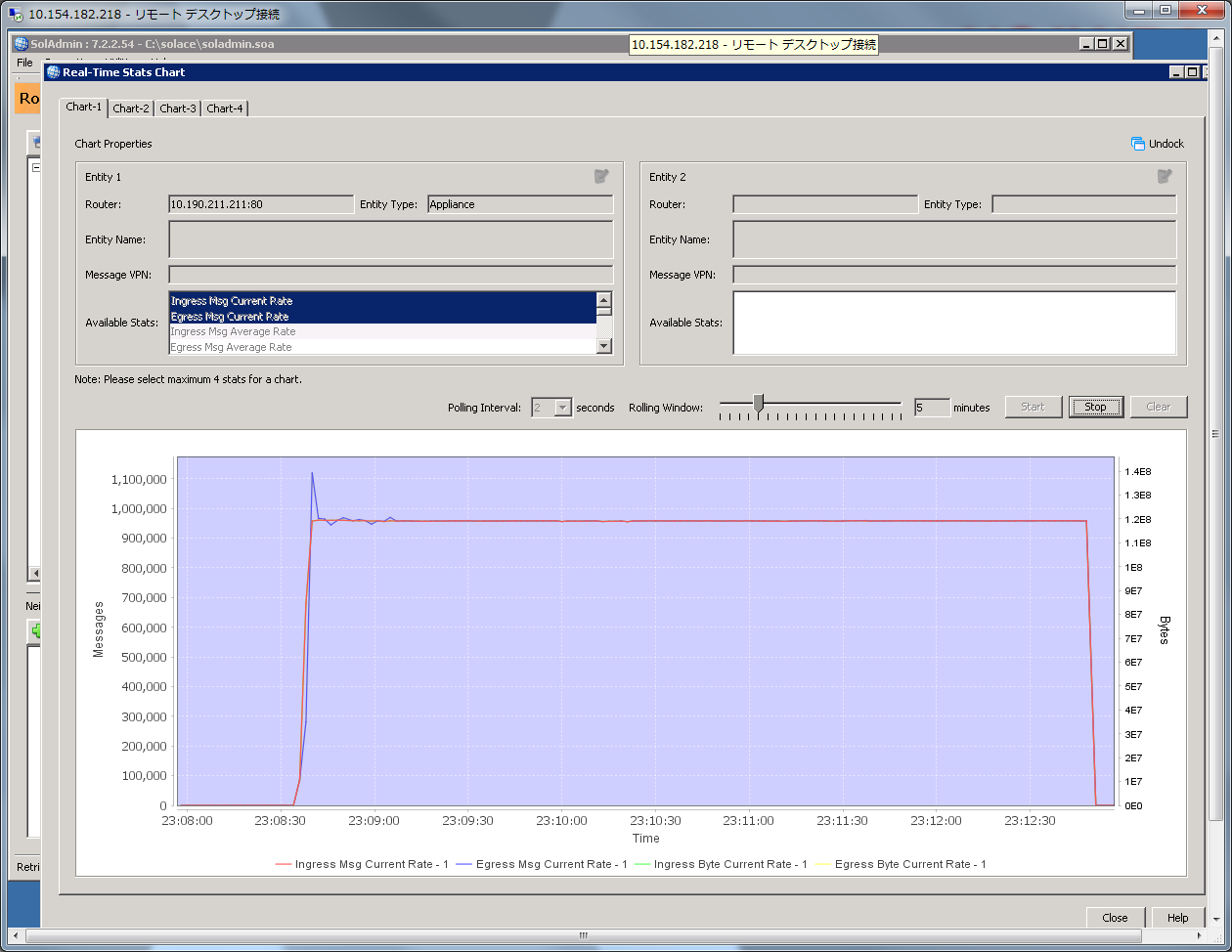
./sub\_\_direct\_througput.sh 15



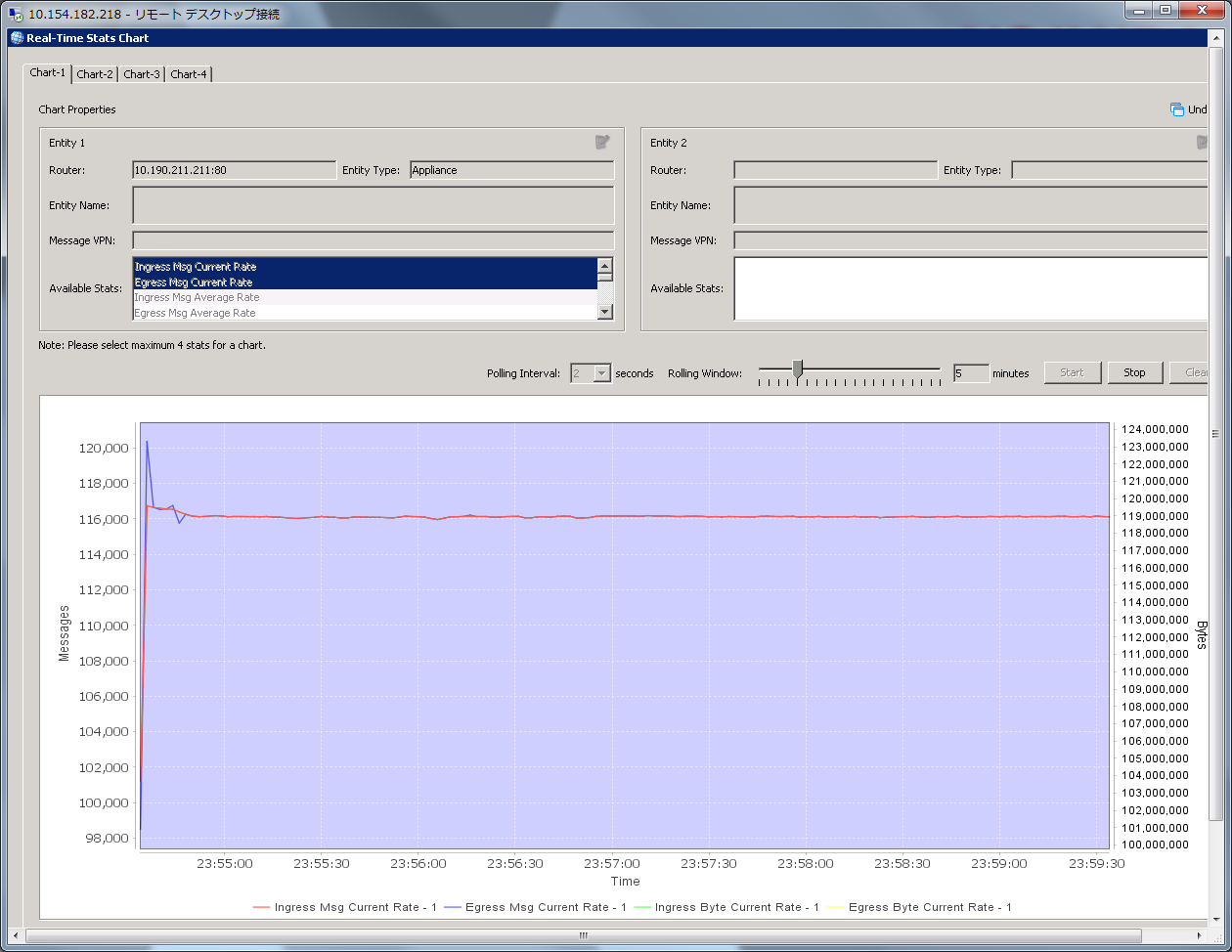
./pub\_\_direct\_througput.sh 15 500

./sub\_\_direct\_througput.sh 15

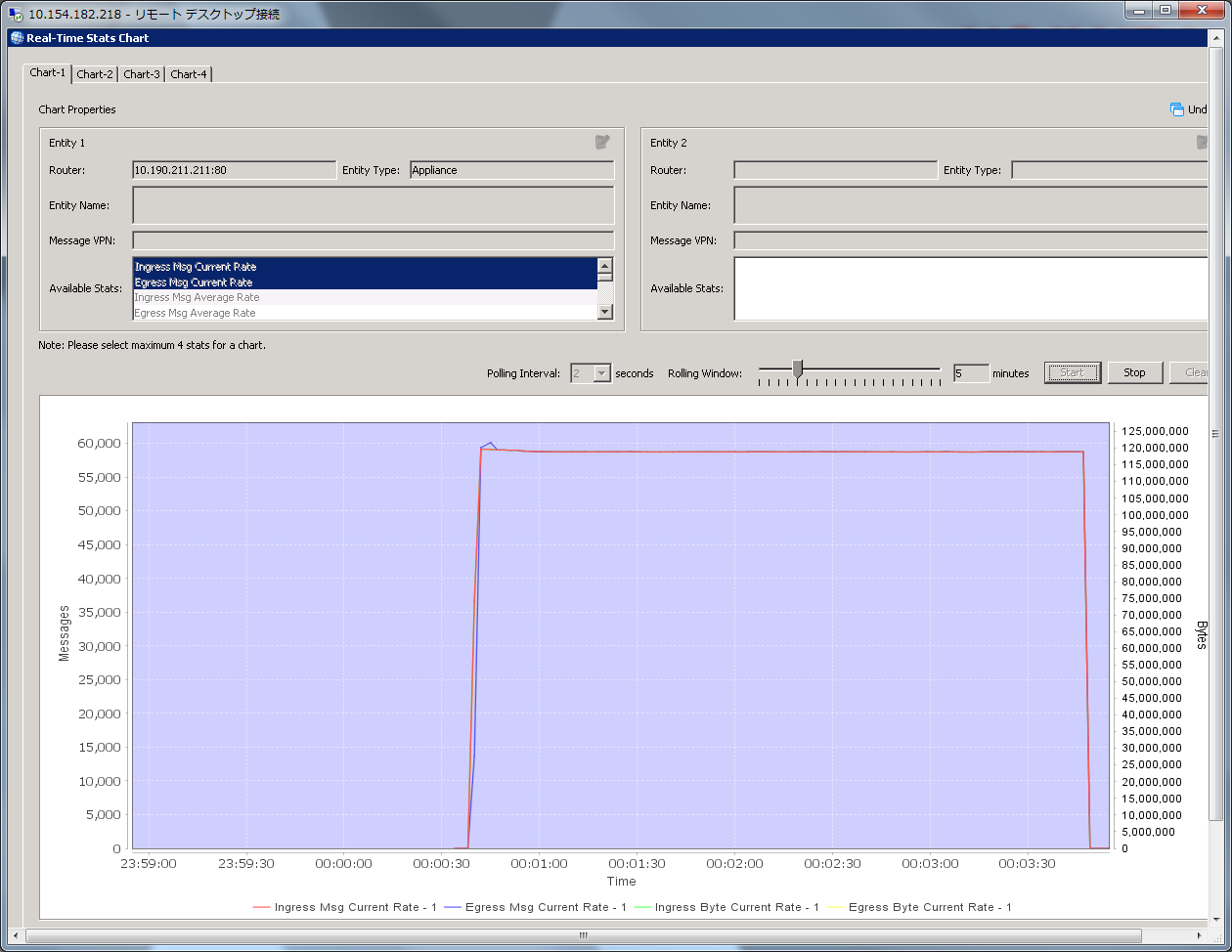




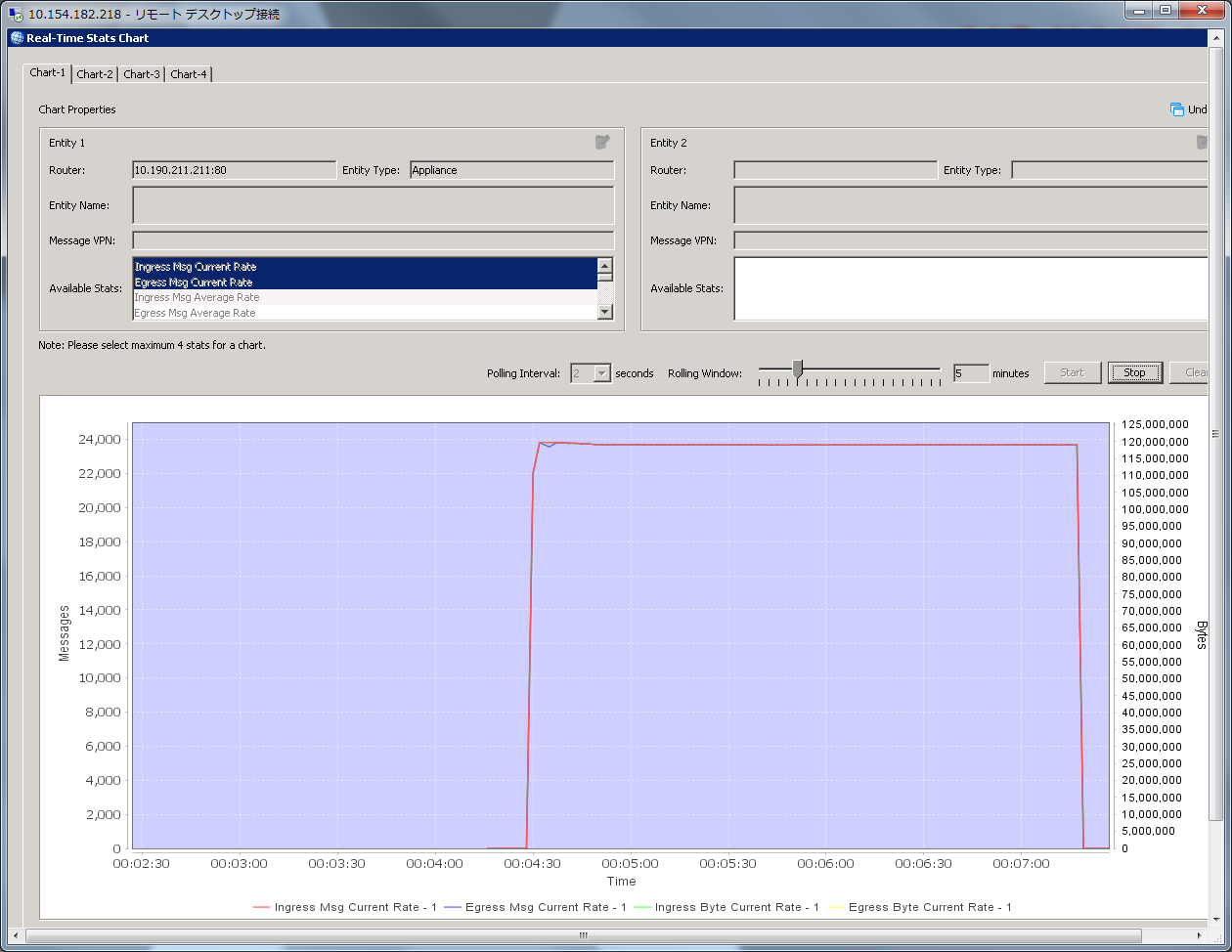
./pub\_\_direct\_througput.sh 15 1000



./pub\_\_direct\_througput.sh 15 2000

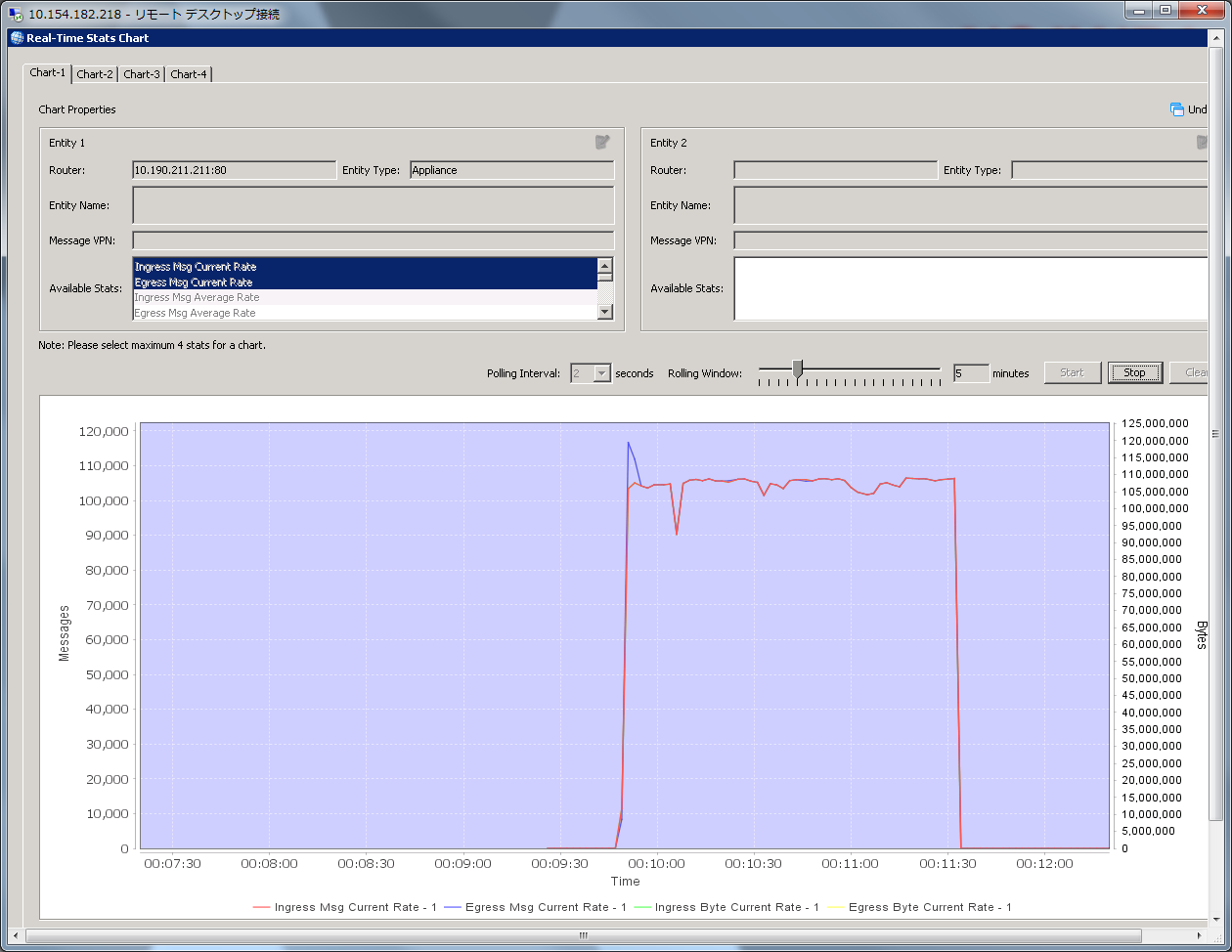


./pub\_\_direct\_througput.sh 15 5000



Single Publisher and Single Subscriber

./pub\_\_direct\_througput.sh 1 1000



１；１０@ 1kb

./pub\_fo\_one\_to\_many\_direct\_througput.sh 15 1000;

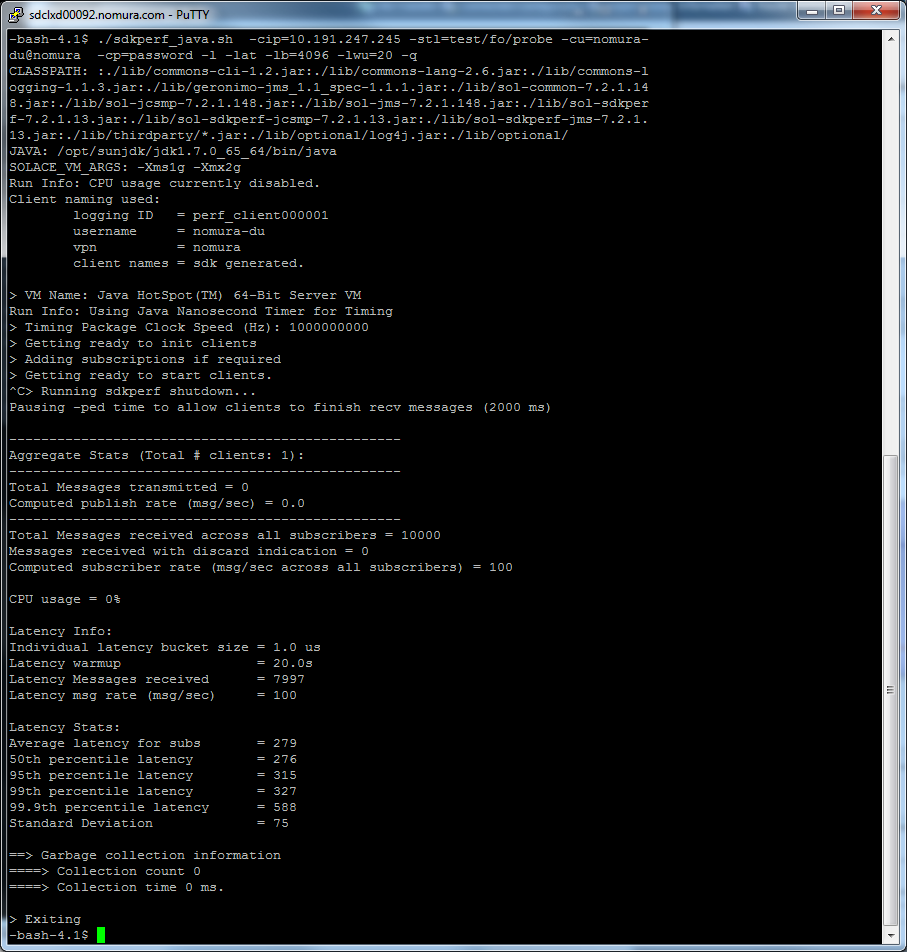
./sub\_fo\_one\_to\_many\_direct\_througput.sh 15



Latency stats

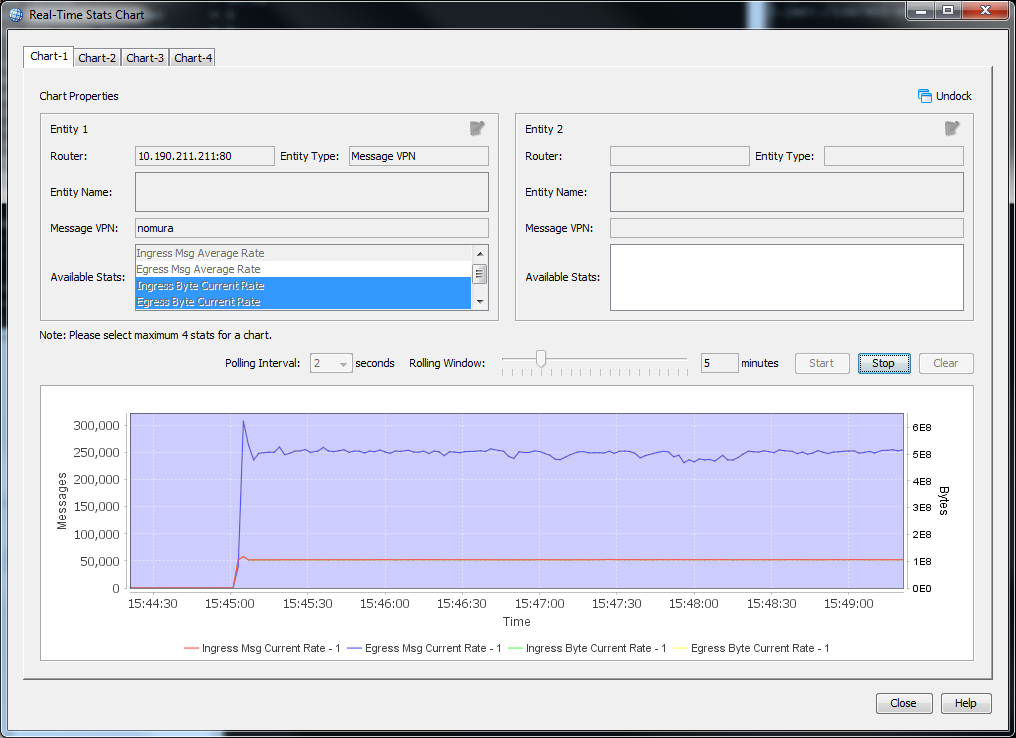
./sdkperf\_java.sh -cip=10.191.247.245 -ptl=test/fo/probe -cu=nomura-du@nomura -cp=password -l -mn=10000 -mr=100 –msa=1000

./sdkperf\_java.sh -cip=10.191.247.245 -stl=test/fo/probe -cu=nomura-du@nomura -cp=password -l -lat -lb=4096 -lwu=20 –q



./pub\_fo\_one\_to\_many\_direct\_througput.sh 15 2000;

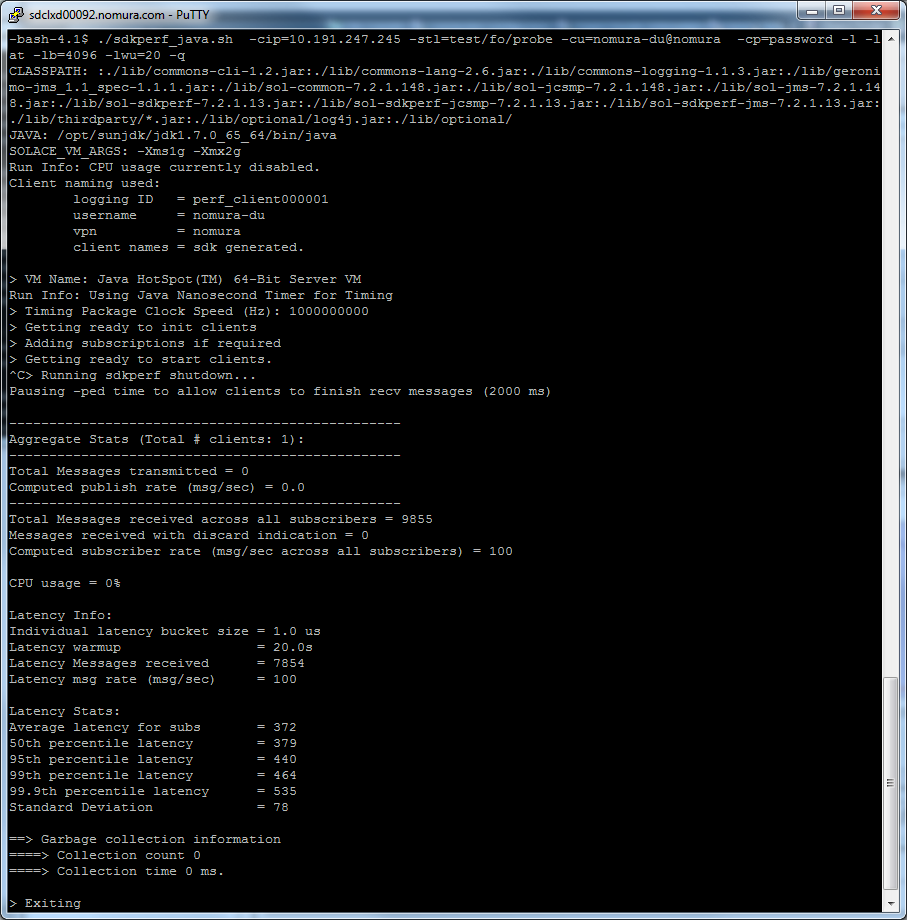
./sub\_fo\_one\_to\_many\_direct\_througput.sh 15



Latency

./sdkperf\_java.sh -cip=10.191.247.245 -ptl=test/fo/probe -cu=nomura-du@nomura -cp=password -l -mn=10000 -mr=100 -msa=2000

./sdkperf\_java.sh -cip=10.191.247.245 -stl=test/fo/probe -cu=nomura-du@nomura -cp=password -l -lat -lb=4096 -lwu=20 –q



./pub\_fo\_one\_to\_many\_direct\_througput.sh 15 5000;

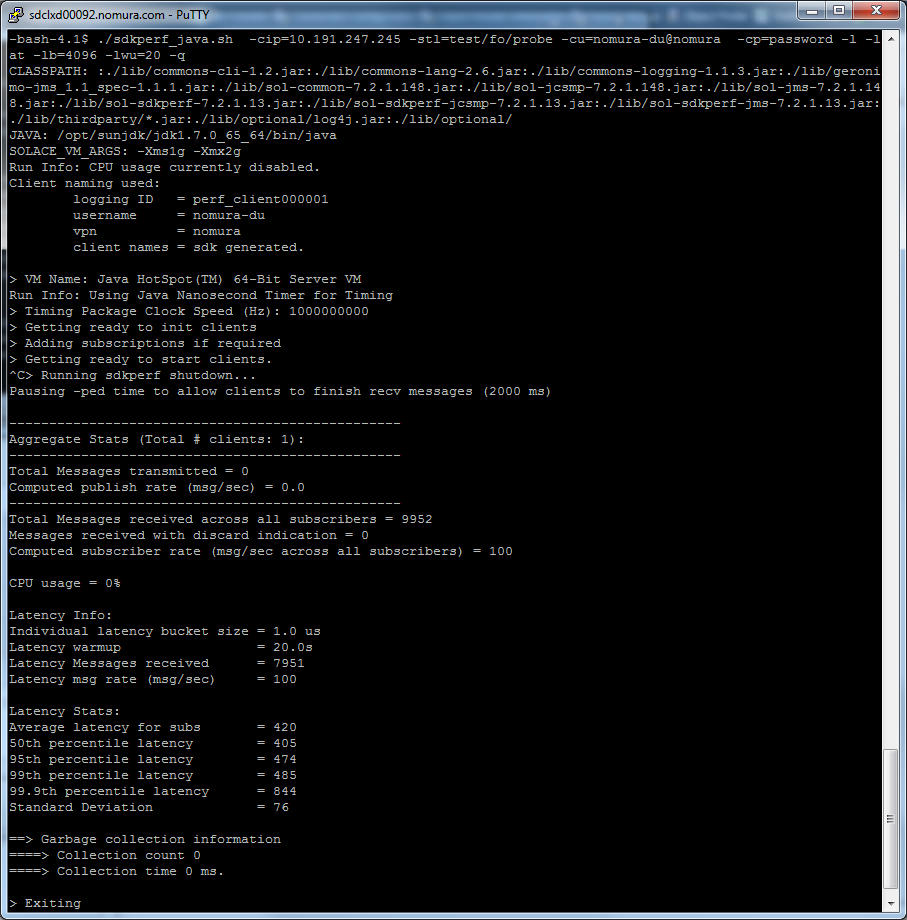
./sub\_fo\_one\_to\_many\_direct\_througput.sh 15



Latency

./sdkperf\_java.sh -cip=10.191.247.245 -ptl=test/fo/probe -cu=nomura-du@nomura -cp=password -l -mn=10000 -mr=100 -msa=5000

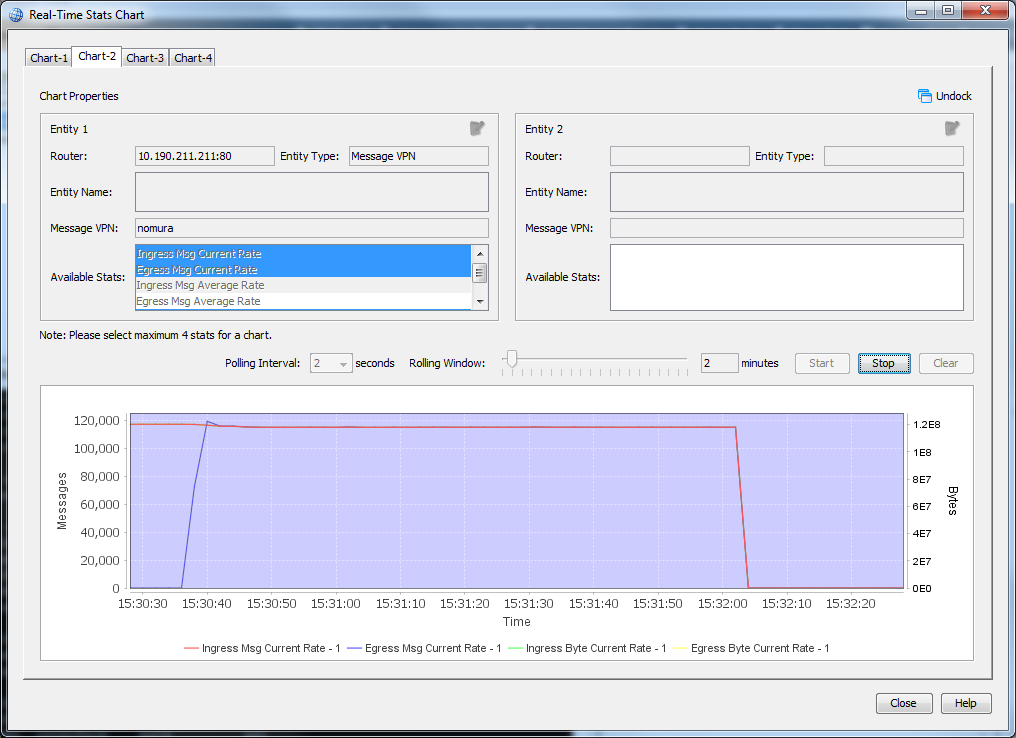
./sdkperf\_java.sh -cip=10.191.247.245 -stl=test/fo/probe -cu=nomura-du@nomura -cp=password -l -lat -lb=4096 -lwu=20 -q



Many to 1 direct Throughput

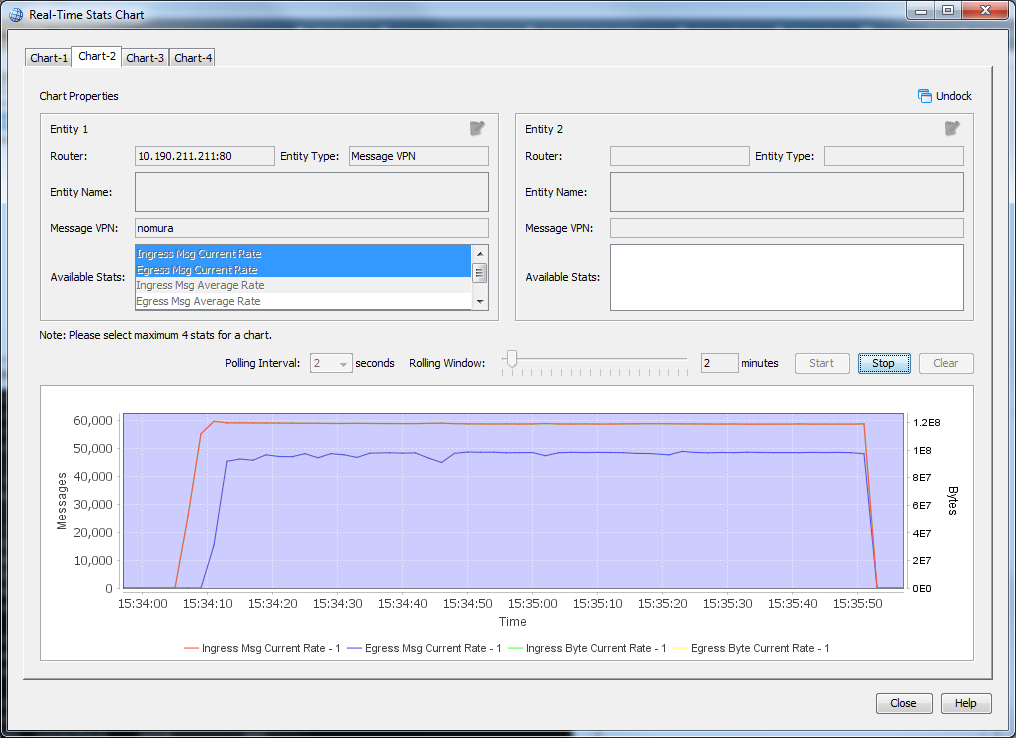
./pub\_fo\_many\_to\_one\_direct\_througput.sh 10 1000 14

./sub\_fo\_many\_to\_one\_direct\_througput.sh 14



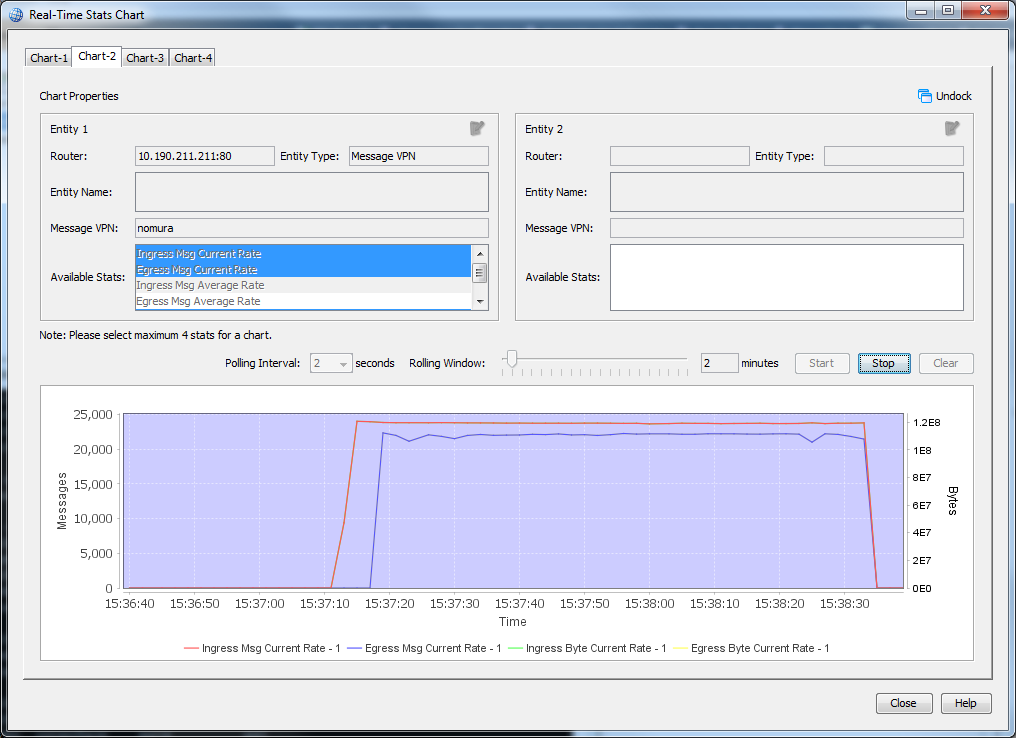
./pub\_fo\_many\_to\_one\_direct\_througput.sh 10 2000 14

./sub\_fo\_many\_to\_one\_direct\_througput.sh 14



./pub\_fo\_many\_to\_one\_direct\_througput.sh 10 5000 14

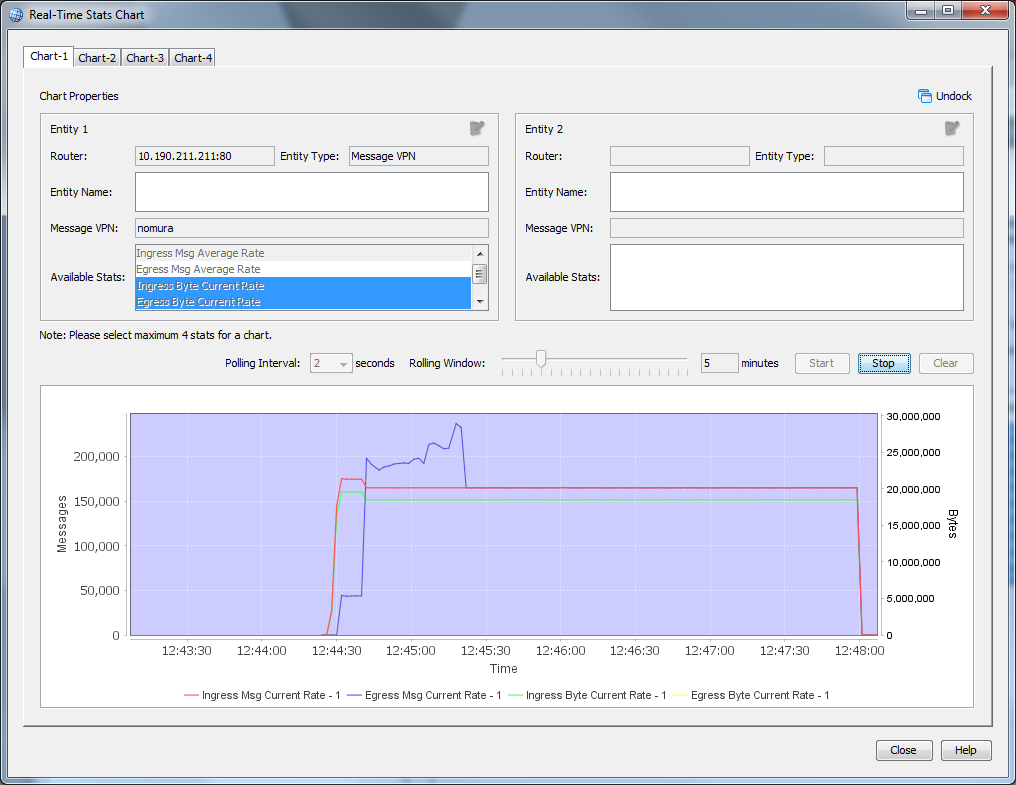
./sub\_fo\_many\_to\_one\_direct\_througput.sh 14



Guaranteed Message Throughput

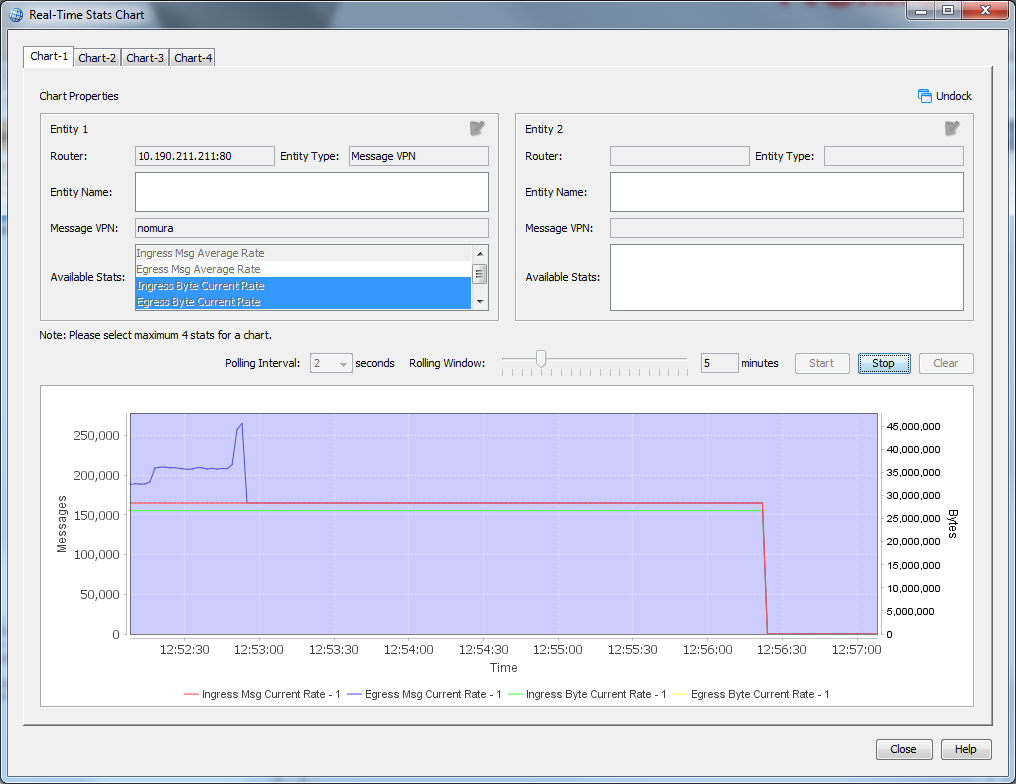
./pub\_\_gm\_througput.sh 10 50 16500

./sub\_\_gm\_\_througput.sh 10



./pub\_\_gm\_througput.sh 10 100 16500

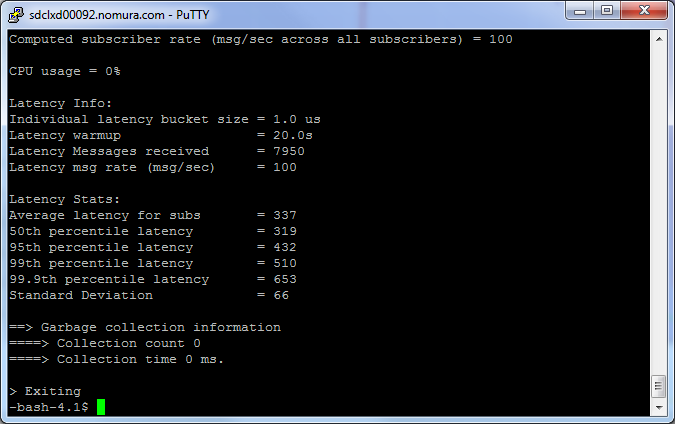
./sub\_\_gm\_\_througput.sh 10



Latency Stats

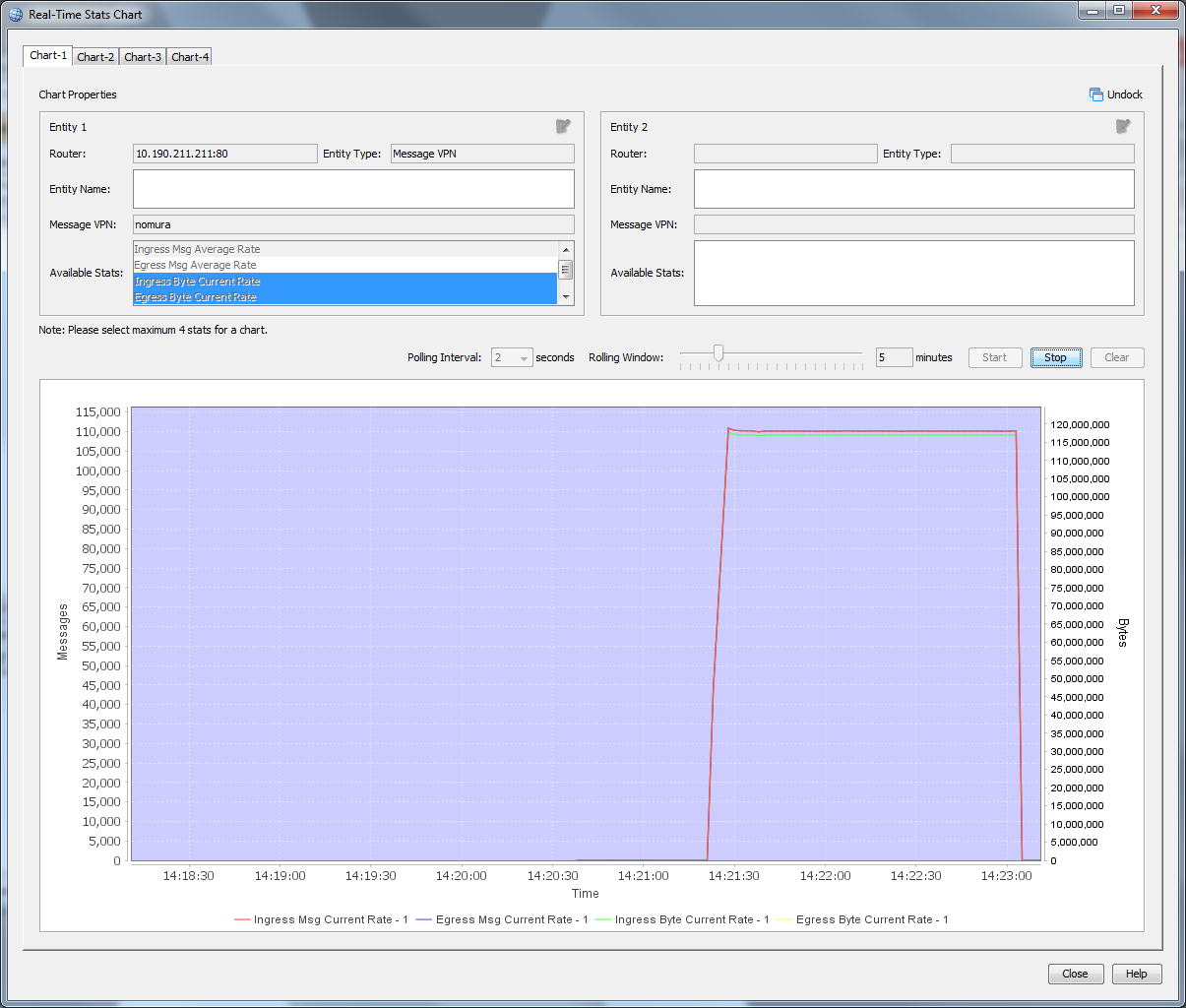
./sdkperf\_java.sh -cip=10.191.247.245 -ptl=test/gm/probe -cu=nomura-gu@nomura -cp=password -l -mn=10000 -mr=100 -mt=persistent -msa=100

./sdkperf\_java.sh -cip=10.191.247.245 -stl=test/gm/probe -cu=nomura-gu@nomura -cp=password -l -lat -lb=4096 -lwu=20 -tte=1 –q



./pub\_\_gm\_througput.sh 10 1000 16500

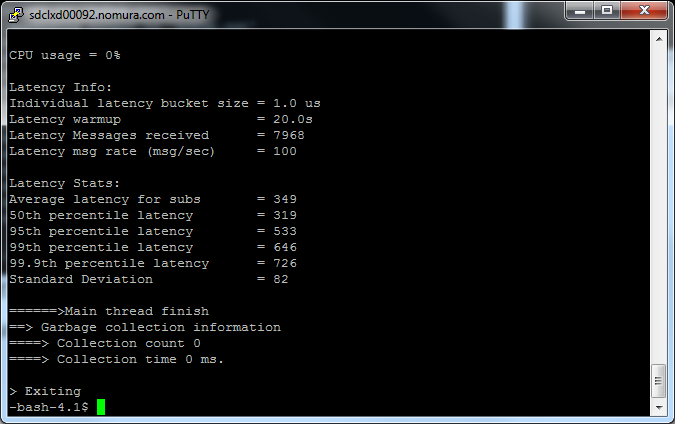
./sub\_\_gm\_\_througput.sh 10



Latency Stats

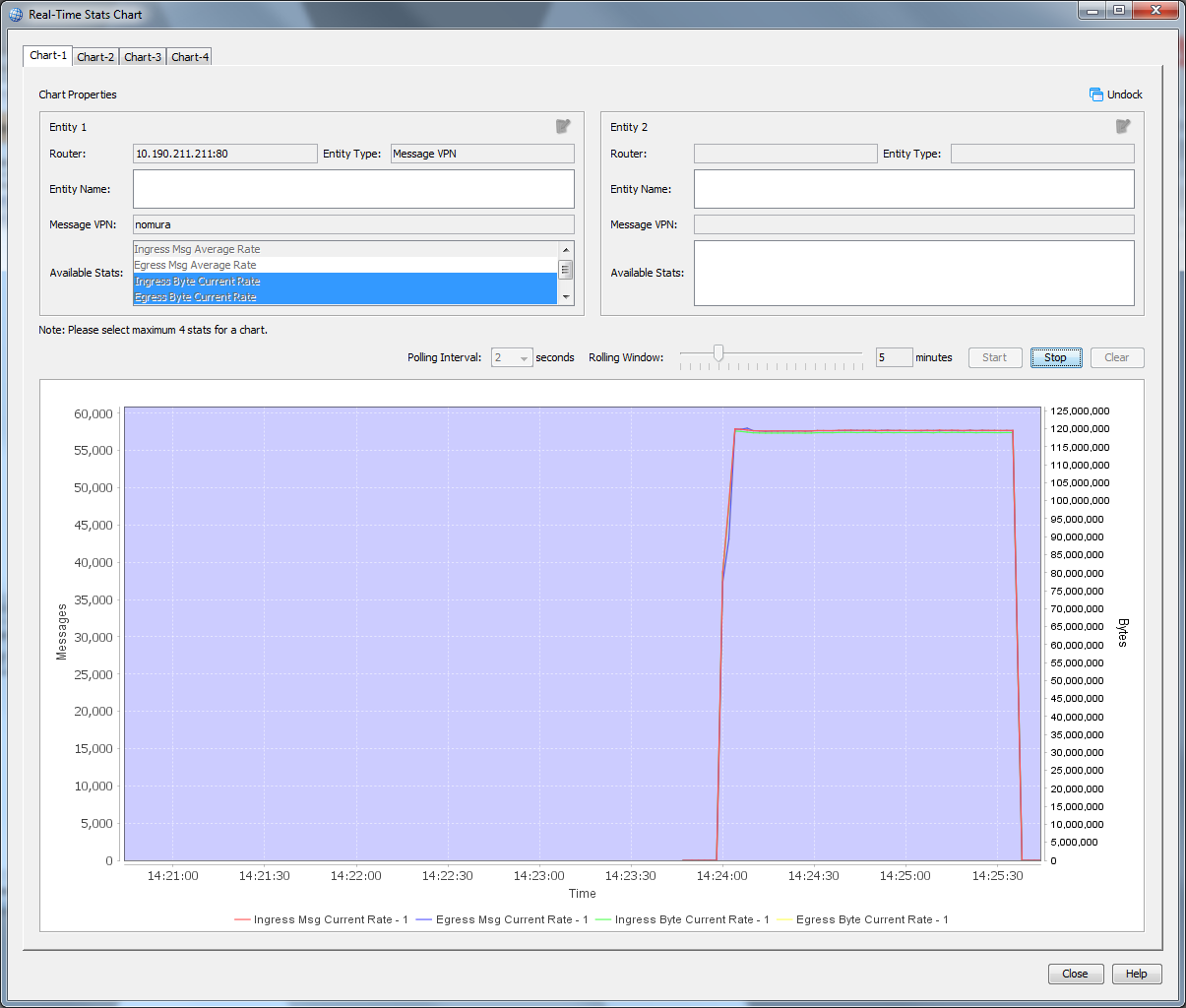
./sdkperf\_java.sh -cip=10.191.247.245 -ptl=test/gm/probe -cu=nomura-gu@nomura -cp=password -l -mn=10000 -mr=100 -mt=persistent -msa=1000

./sdkperf\_java.sh -cip=10.191.247.245 -stl=test/gm/probe -cu=nomura-gu@nomura -cp=password -l -lat -lb=4096 -lwu=20 -tte=1 –q



./pub\_\_gm\_througput.sh 10 2000 16500

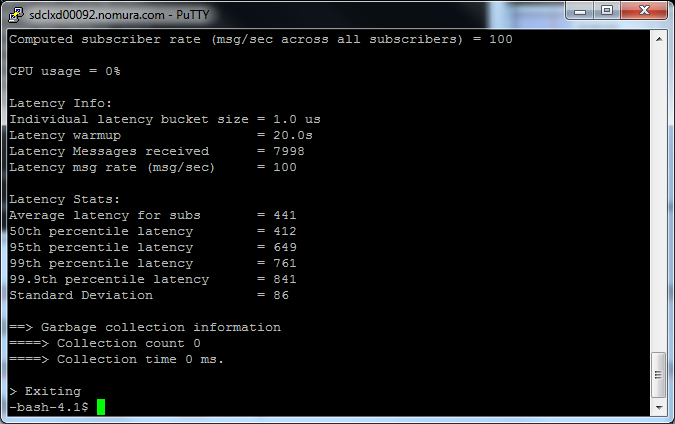
./sub\_\_gm\_\_througput.sh 10



Latency Stats

./sdkperf\_java.sh -cip=10.191.247.245 -ptl=test/gm/probe -cu=nomura-gu@nomura -cp=password -l -mn=10000 -mr=100 -mt=persistent -msa=2000

./sdkperf\_java.sh -cip=10.191.247.245 -stl=test/gm/probe -cu=nomura-gu@nomura -cp=password -l -lat -lb=4096 -lwu=20 -tte=1 –q



./pub\_\_gm\_througput.sh 10 5000 16500

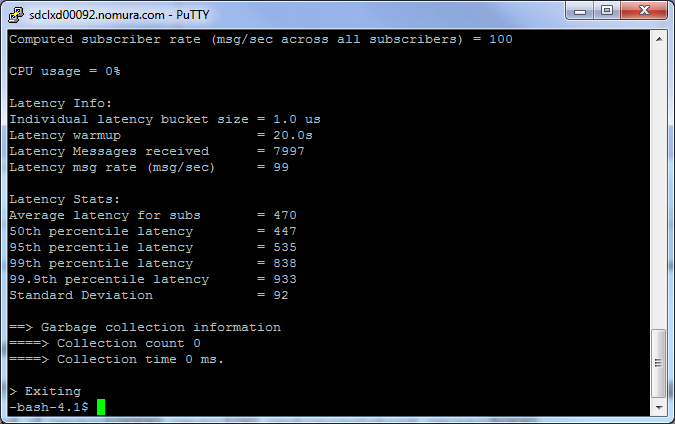
./sub\_\_gm\_\_througput.sh 10



Latency Stats

./sdkperf\_java.sh -cip=10.191.247.245 -ptl=test/gm/probe -cu=nomura-gu@nomura -cp=password -l -mn=10000 -mr=100 -mt=persistent -msa=5000

./sdkperf\_java.sh -cip=10.191.247.245 -stl=test/gm/probe -cu=nomura-gu@nomura -cp=password -l -lat -lb=4096 -lwu=20 -tte=1 –q

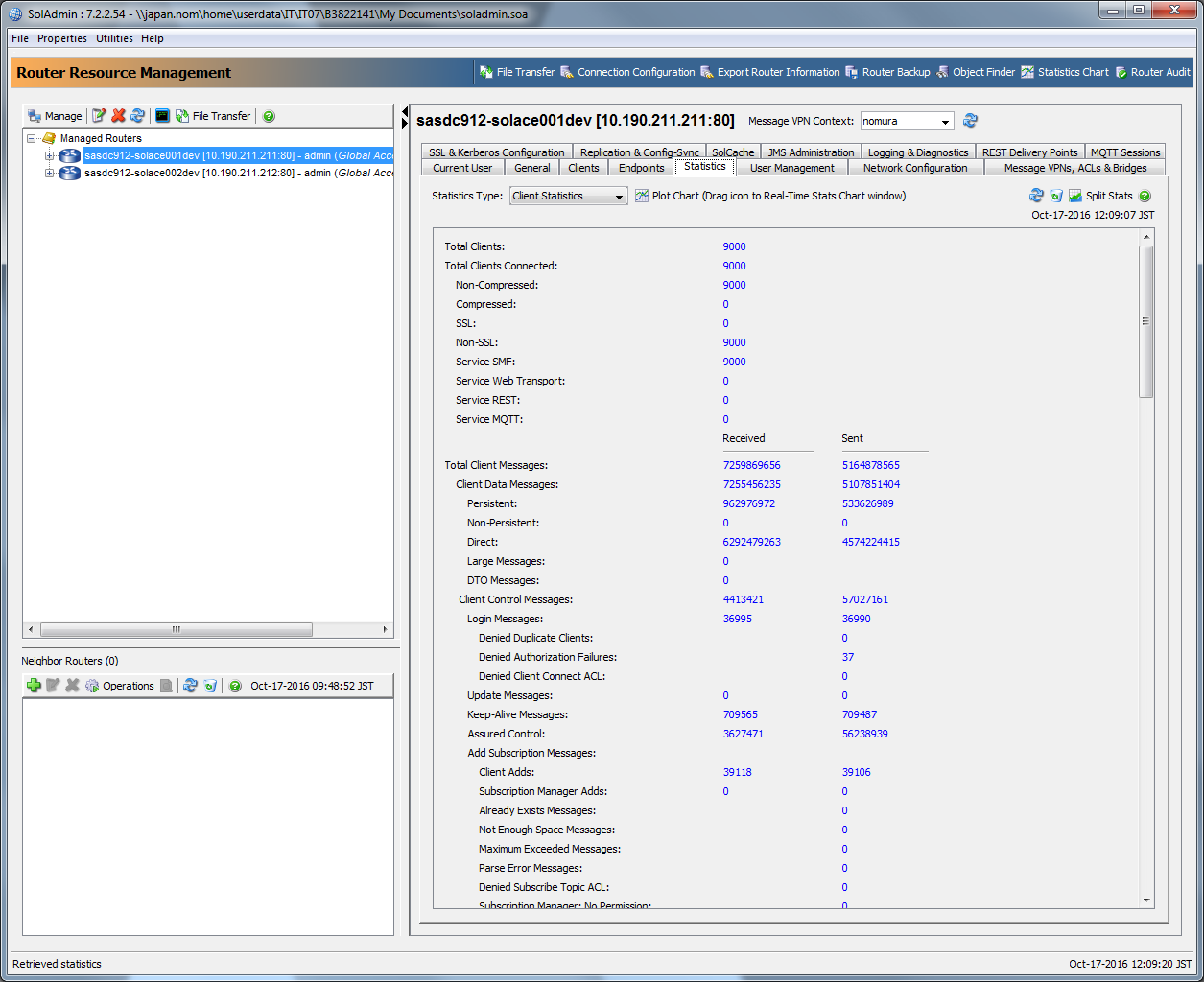


**Guaranteed messaging fanout tests.**

4.3.1

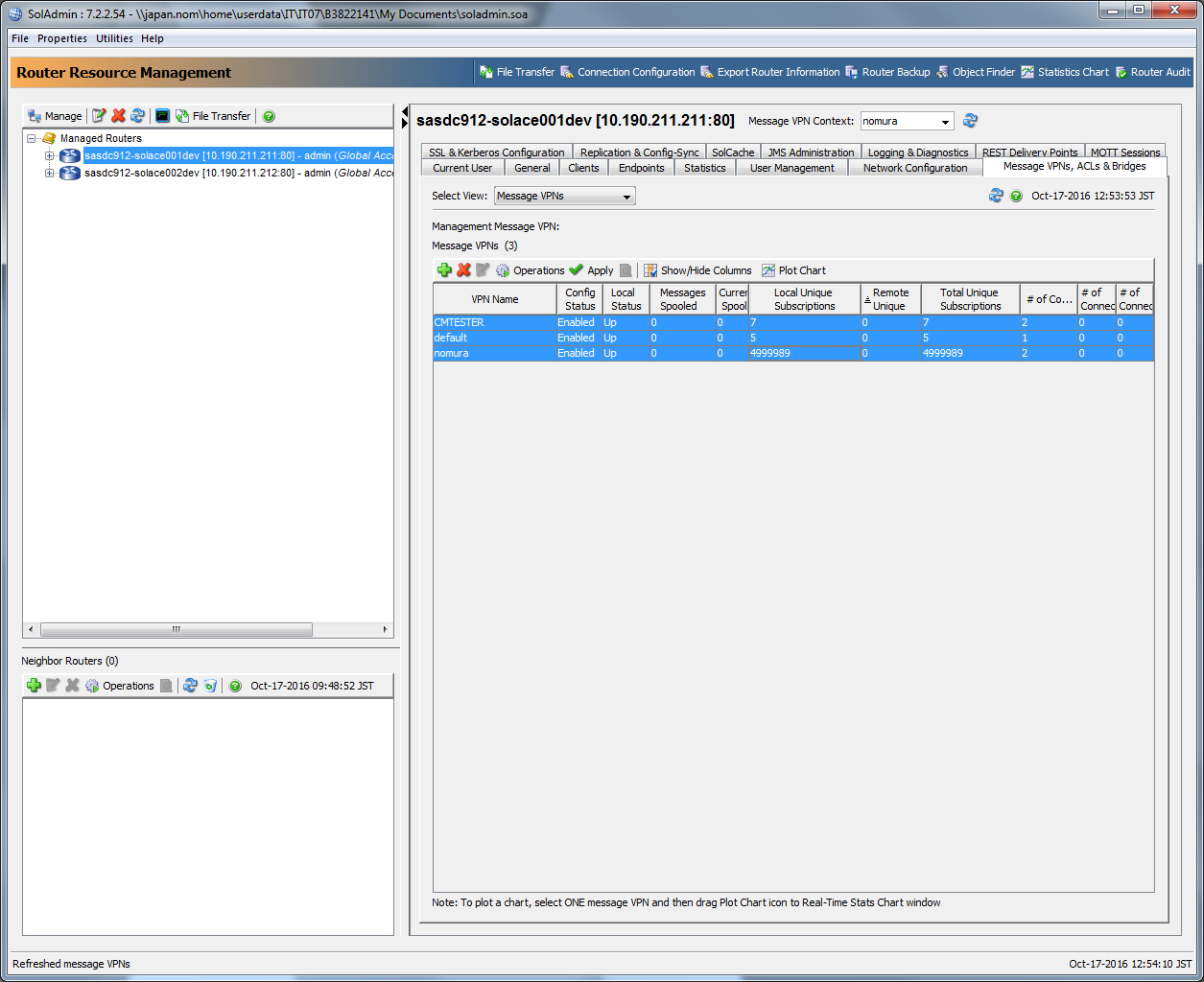
9k connections

taskset -c 16 ./sdkperf\_java.sh -cip=10.191.247.245 -ptl=test/max/connections -mn=10000 -cc=9000 -mr=1 -cu=nomura-du@nomura -cp=password -psm -q

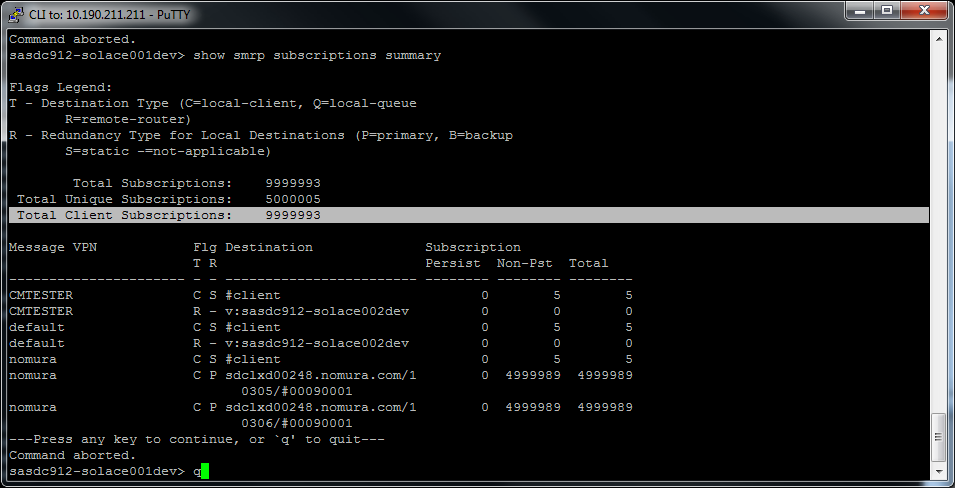


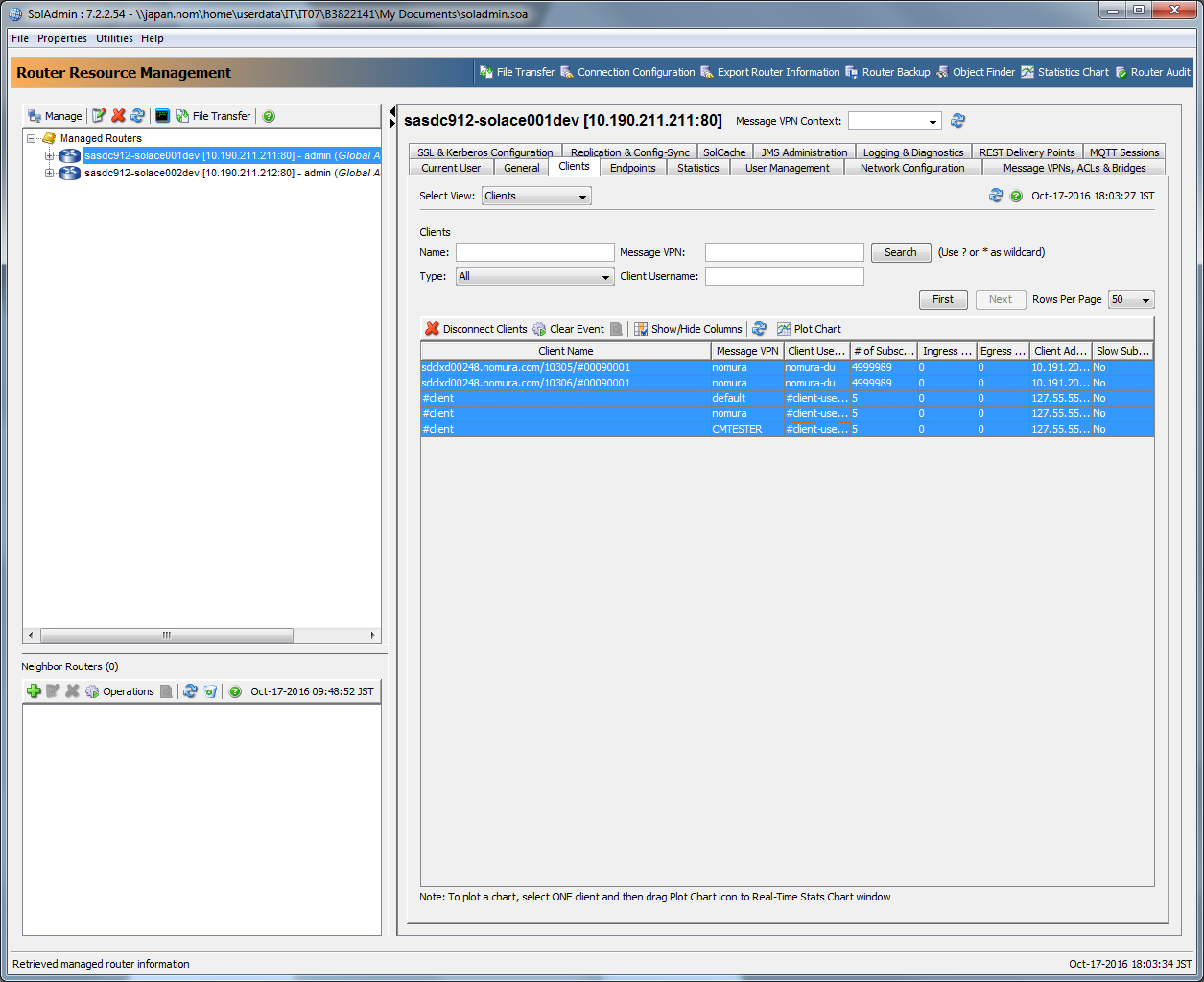
5M Unique Topics

./sdkperf\_java.sh -cip=10.191.247.245 -stf=5MTopics.txt -cu=nomura-du@nomura -cp=password -q



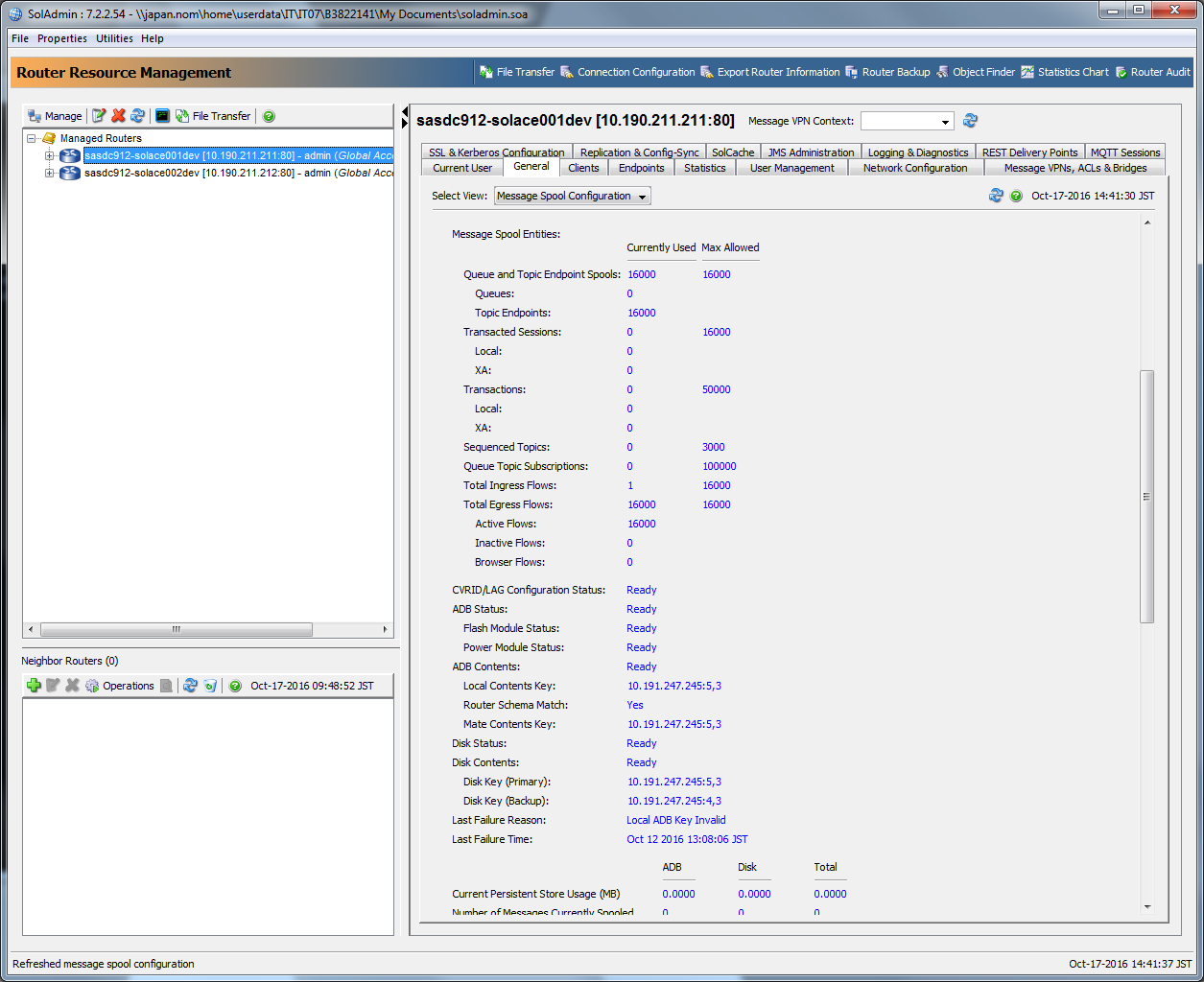
10 Million Aggregate Subs





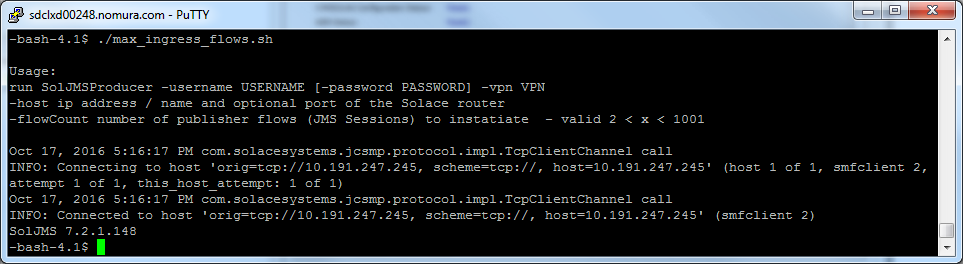
16k endpoints

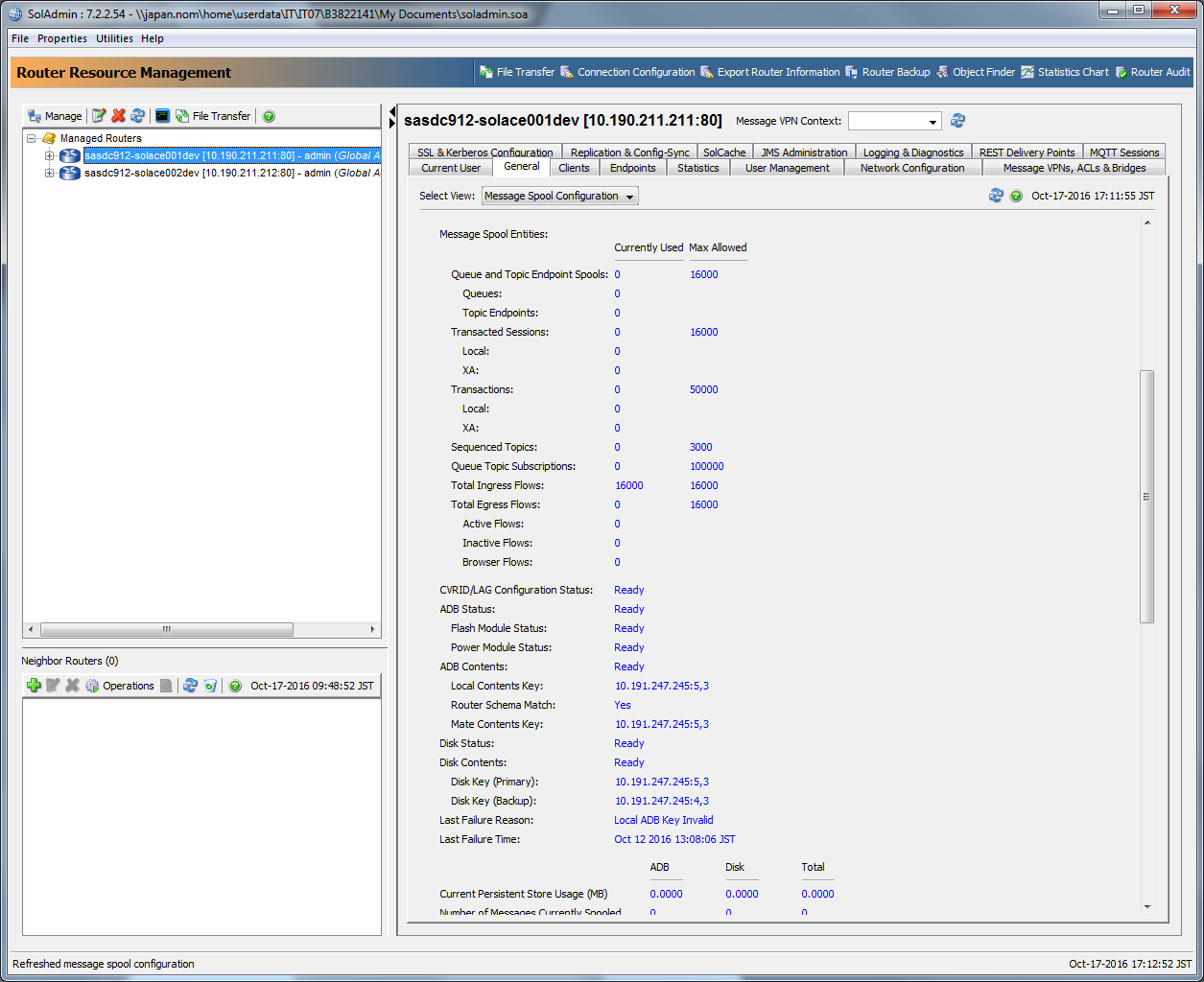
./sdkperf\_java.sh -cip=10.191.247.245 -tte=16000 -cu=nomura-gu@nomura -cp=password -stl=test/16k -ptl=test/16k -mt=persistent -mn=1000 -q



16k pub/sub/flows

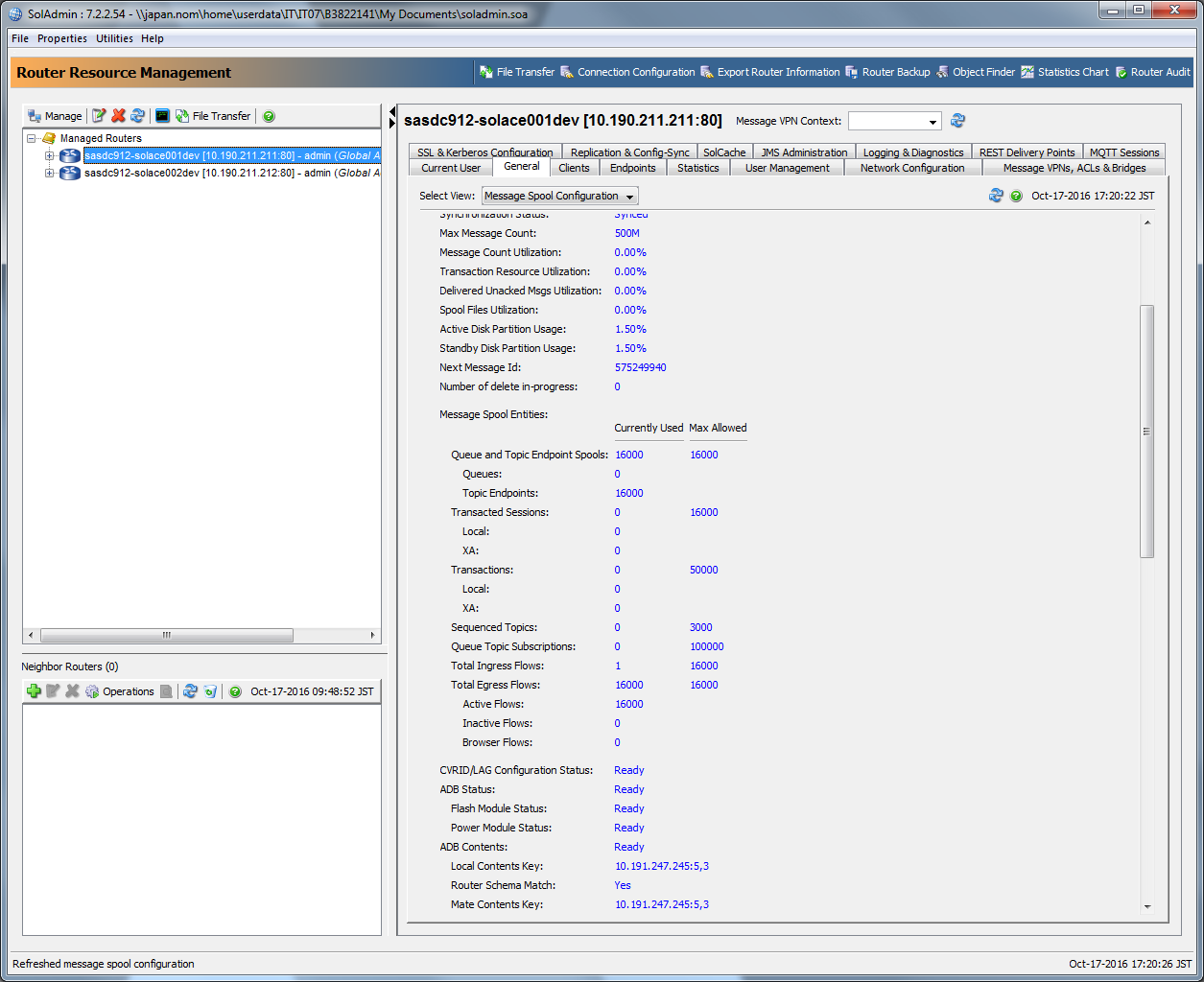
Total Ingress (Pub) Flows





Total Egress (Sub) Flows

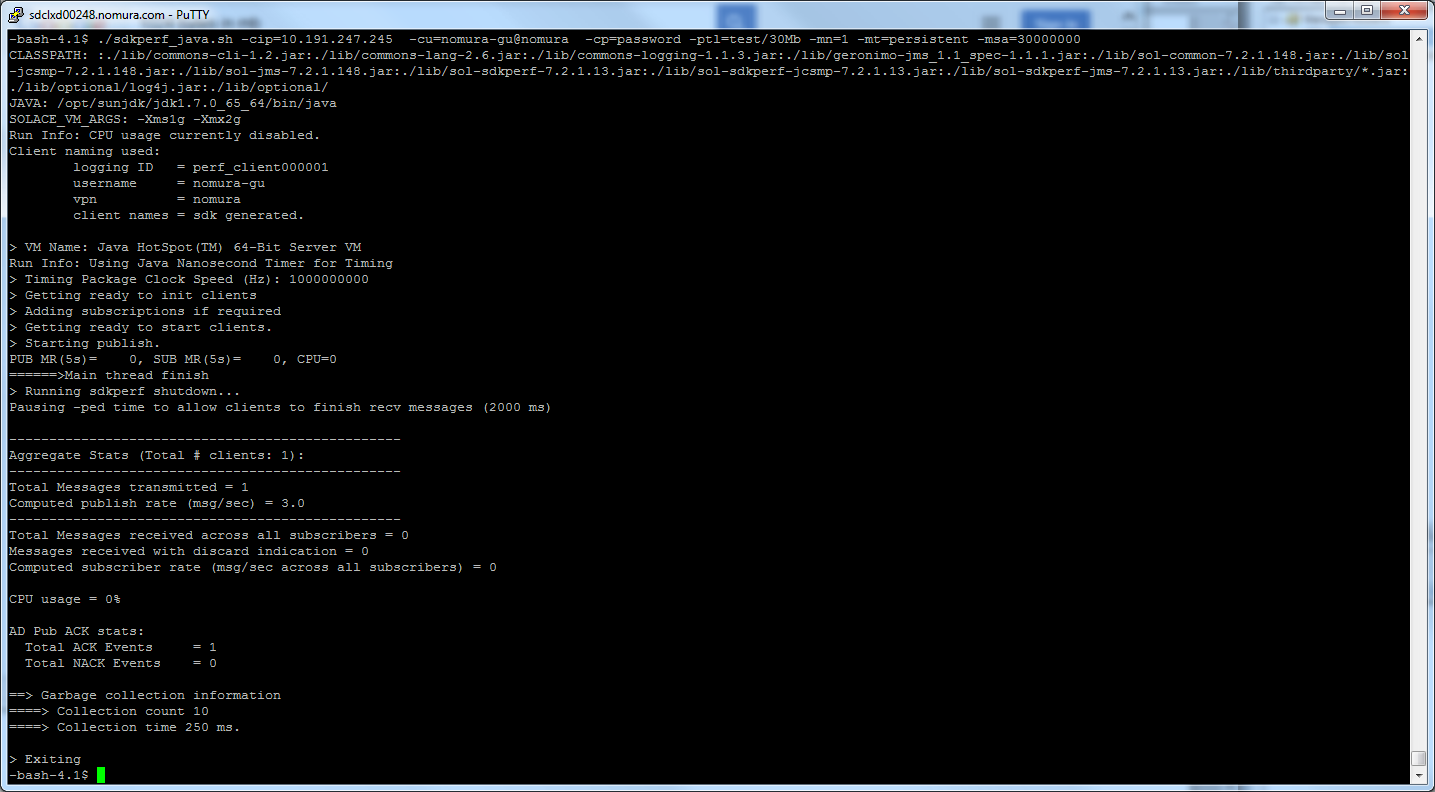
./sdkperf\_java.sh -cip=10.191.247.245 -tte=16000 -cu=nomura-gu@nomura -cp=password -q



30 MB Max message Size

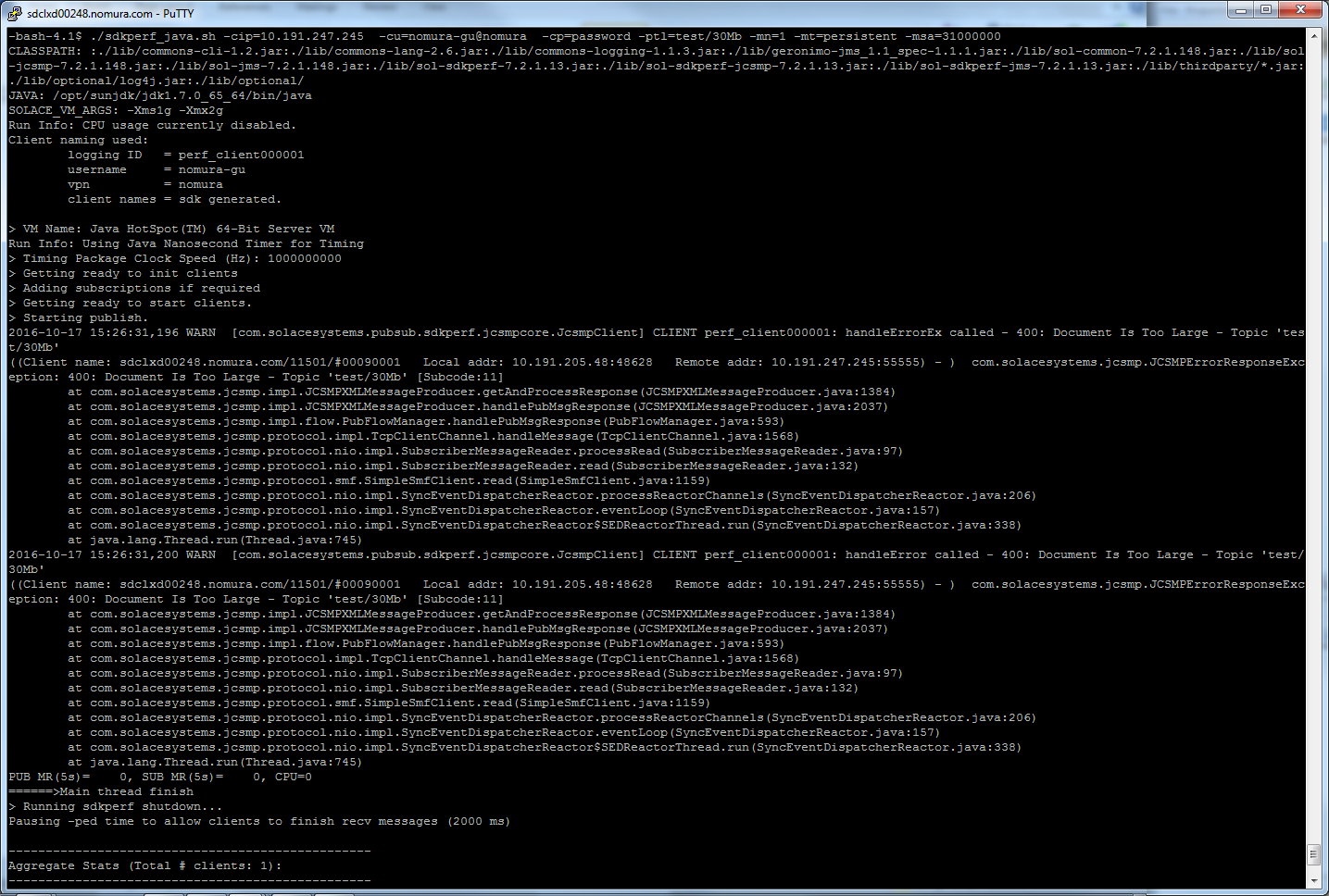
Success

./sdkperf\_java.sh -cip=10.191.247.245 -cu=nomura-gu@nomura -cp=password -ptl=test/30Mb -mn=1 -mt=persistent -msa=30000000



Failure

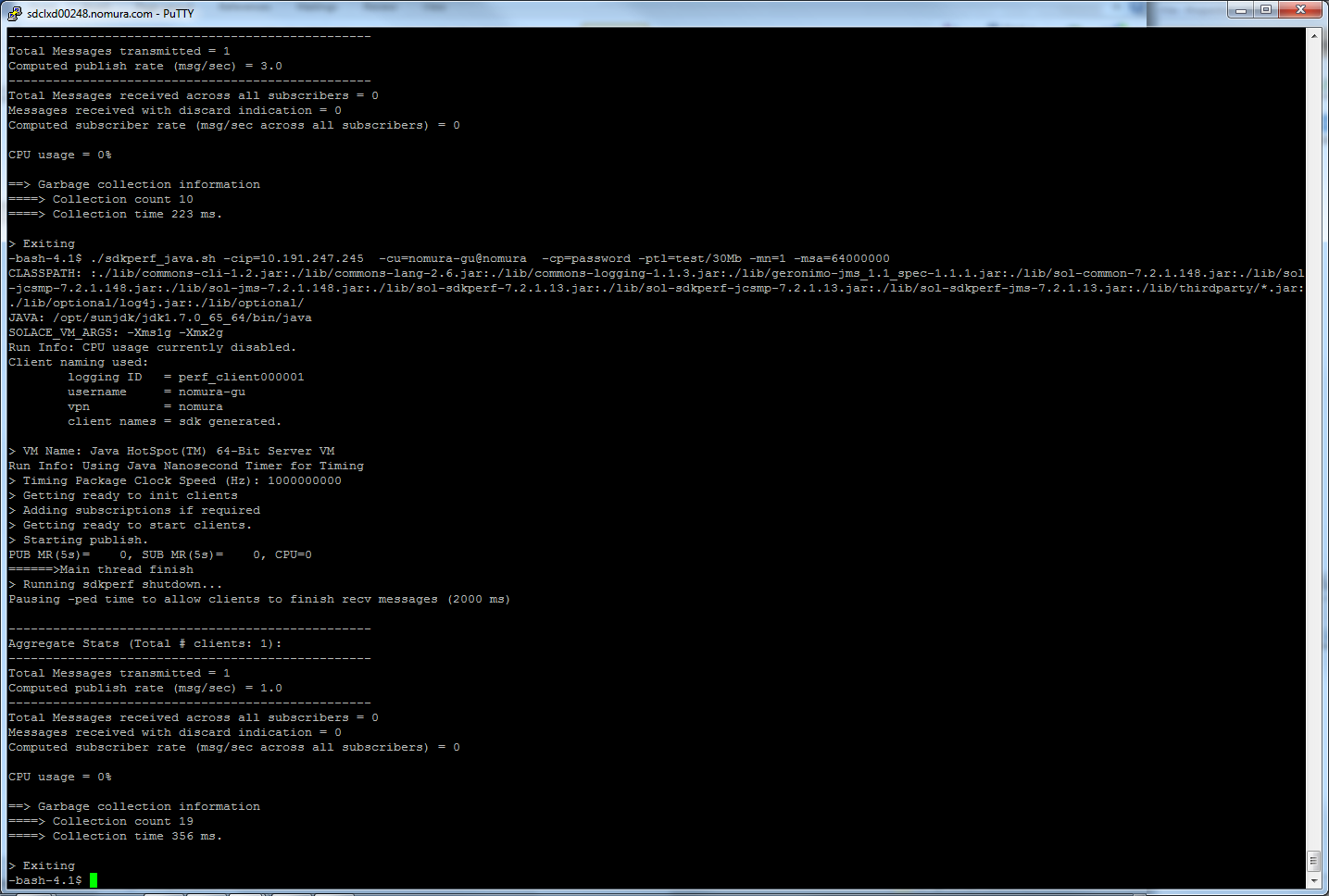
./sdkperf\_java.sh -cip=10.191.247.245 -cu=nomura-gu@nomura -cp=password -ptl=test/30Mb -mn=1 -mt=persistent -msa=31000000



64 MB Max size for direct message

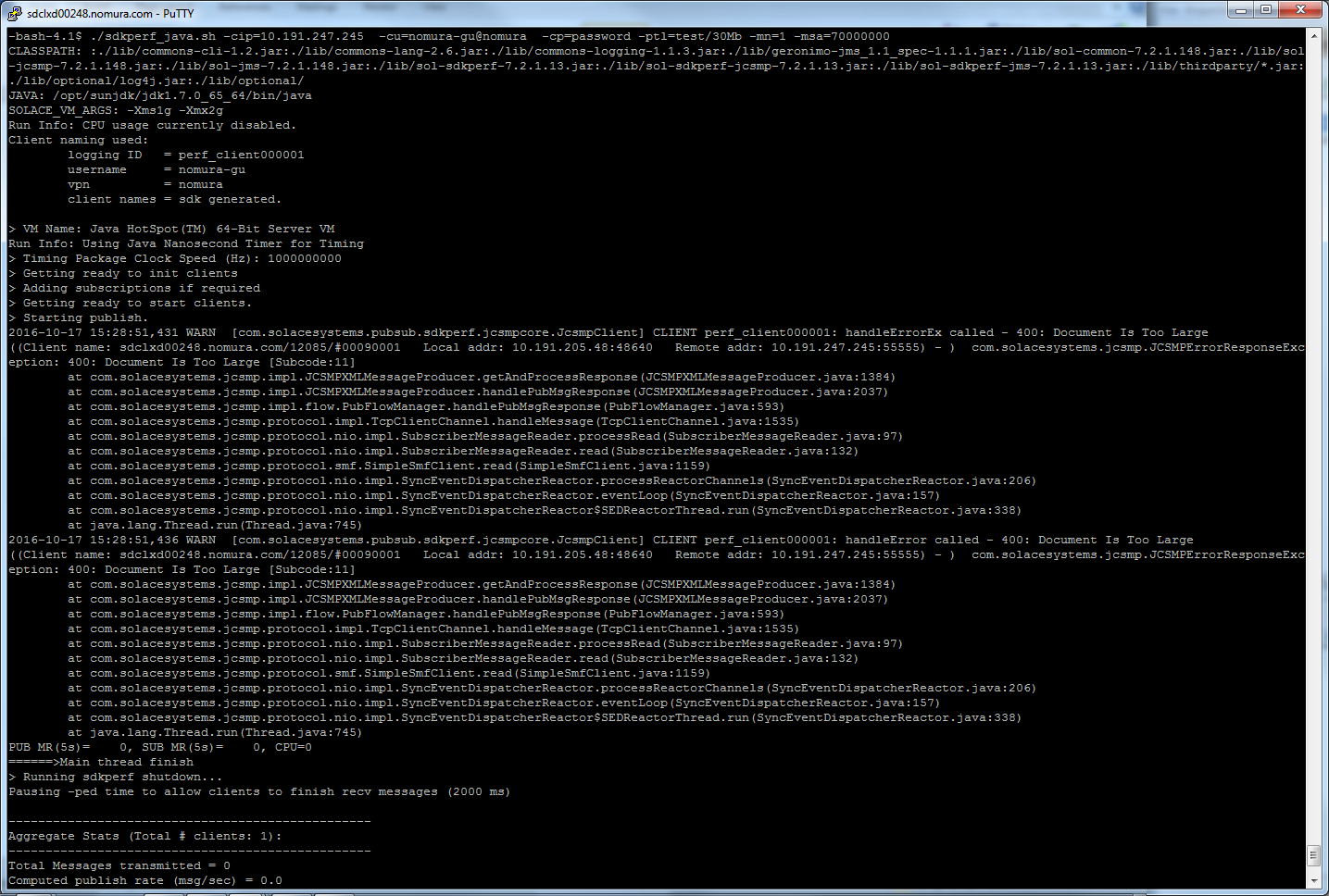
Success

./sdkperf\_java.sh -cip=10.191.247.245 -cu=nomura-gu@nomura -cp=password -ptl=test/30Mb -mn=1 -msa=64000000

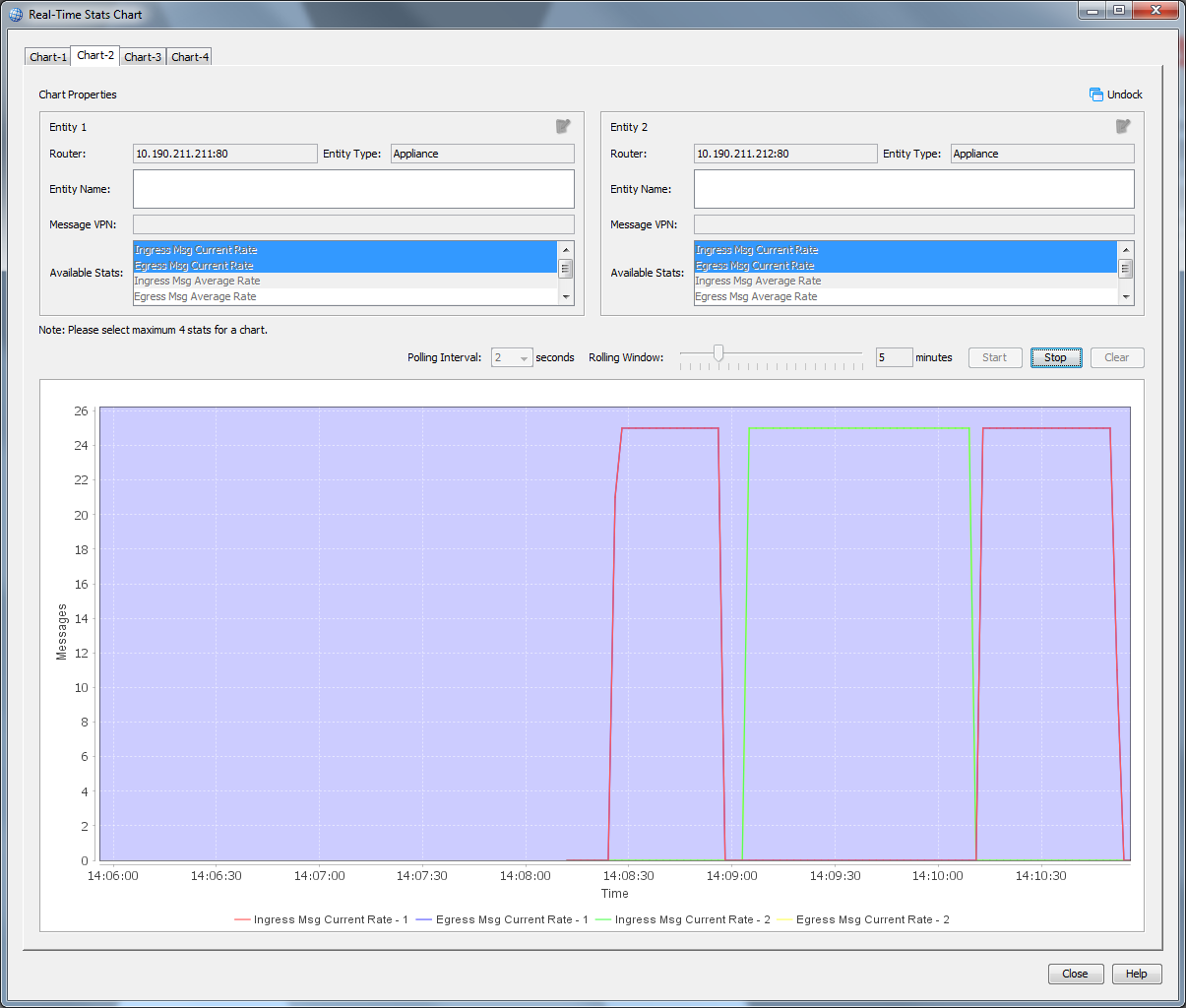


Failure

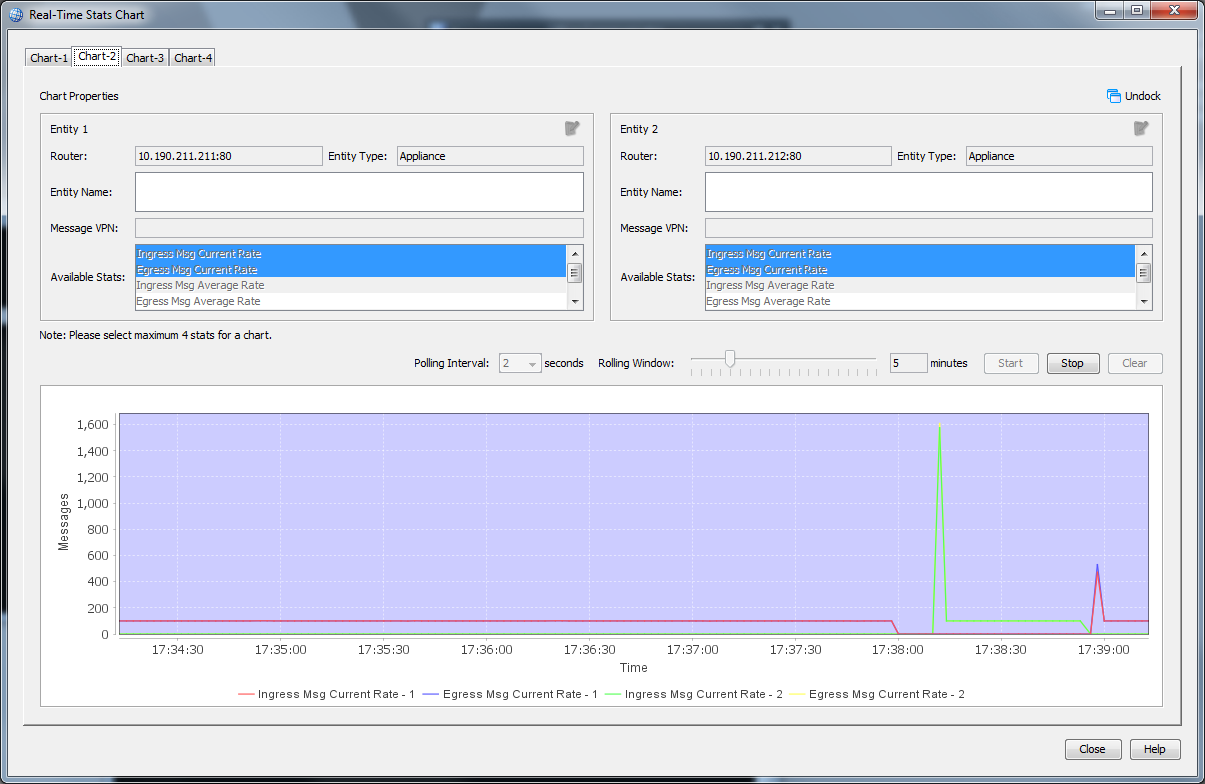
./sdkperf\_java.sh -cip=10.191.247.245 -cu=nomura-gu@nomura -cp=password -ptl=test/30Mb -mn=1 -msa=70000000



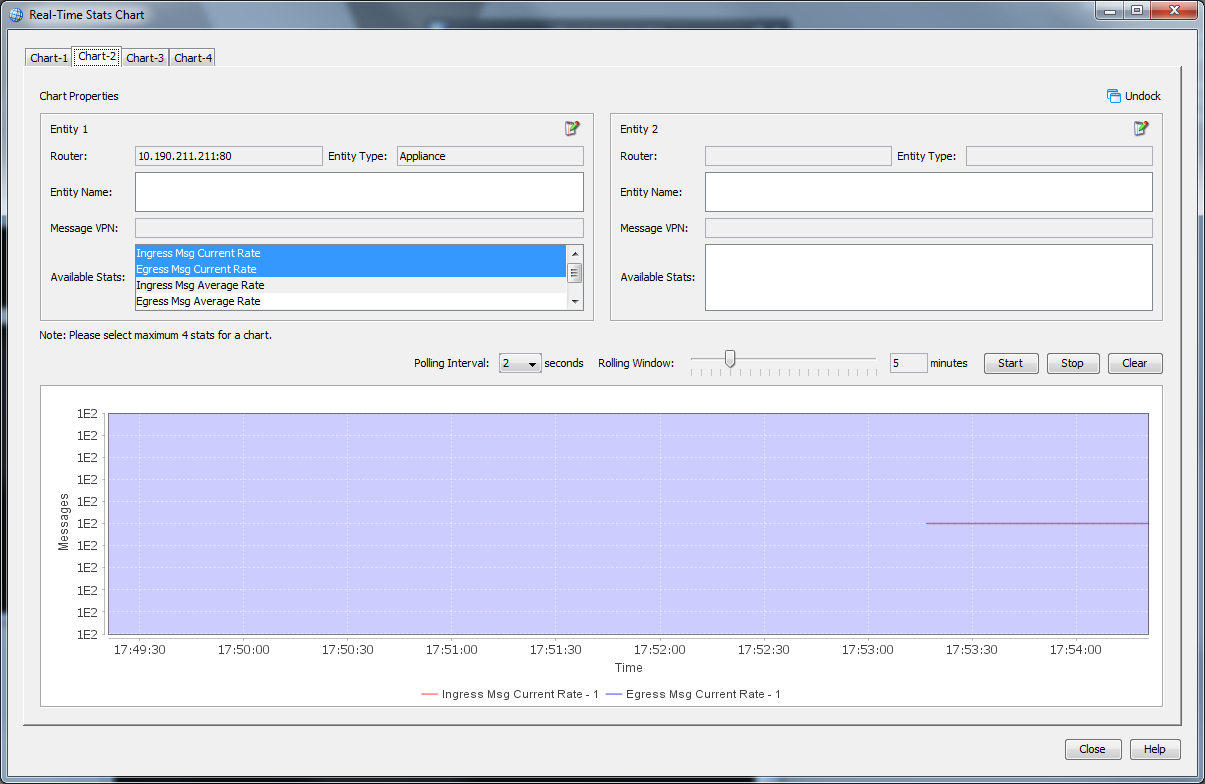
Failover/Failback – Graceful

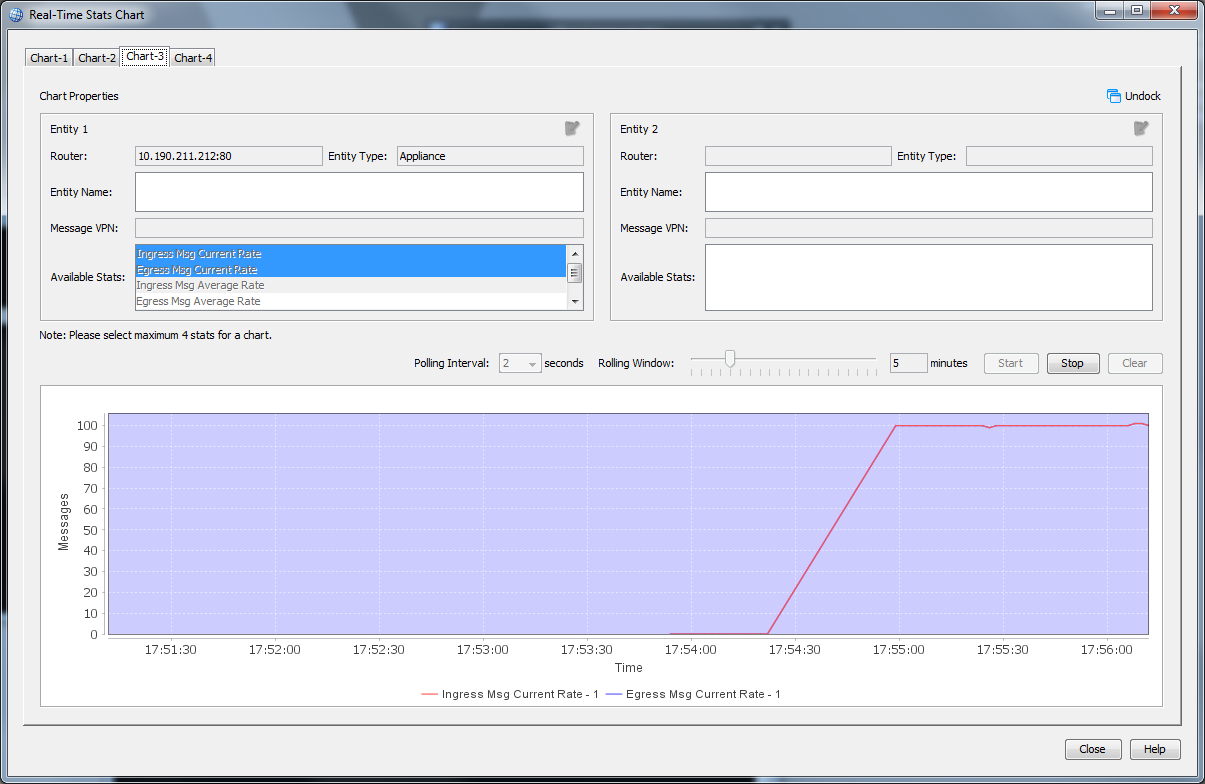


Pull the network cable



Pull the power cable test

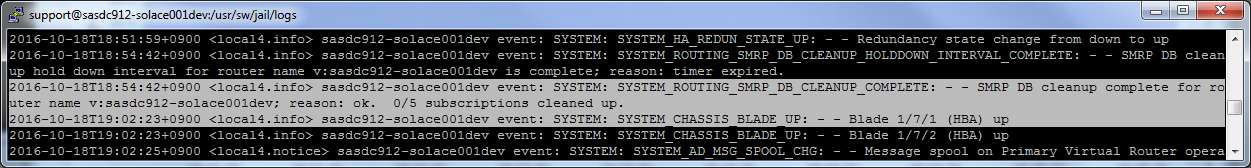




Primary Logs

2016-10-18T18:54:42+0900 <local4.info> sasdc912-solace001dev event: SYSTEM: SYSTEM\_ROUTING\_SMRP\_DB\_CLEANUP\_COMPLETE: - - SMRP DB cleanup complete for router name v:sasdc912-solace001dev; reason: ok. 0/5 subscriptions cleaned up.

2016-10-18T19:02:23+0900 <local4.info> sasdc912-solace001dev event: SYSTEM: SYSTEM\_CHASSIS\_BLADE\_UP: - - Blade 1/7/1 (HBA) up



Backup Logs

2016-10-18T18:54:51+0900 <local4.info> sasdc912-solace002dev event: SYSTEM: SYSTEM\_HA\_VRRP\_STATE\_UP: - - VRRP [VRRPInst 10.191.247.245 (vrid: 10)] priority 100 activity state changed from Backup to Master

2016-10-18T18:54:53+0900 <local4.notice> sasdc912-solace002dev event: SYSTEM: SYSTEM\_AD\_MSG\_SPOOL\_CHG: - - Message spool on Backup Virtual Router operational state change from AD-Standby to AD-Activating

2016-10-18T18:54:53+0900 <local4.info> sasdc912-solace002dev event: SYSTEM: SYSTEM\_ROUTING\_SMRP\_DB\_CLEANUP\_HOLDDOWN\_INTERVAL\_STARTED: - - SMRP DB cleanup hold down interval for router name v:sasdc912-solace001dev was started. Waiting for clients to re-add subscriptions before DB cleanup.

2016-10-18T18:54:56+0900 <local4.notice> sasdc912-solace002dev event: SYSTEM: SYSTEM\_AD\_MSG\_SPOOL\_CHG: - - Message spool on Backup Virtual Router operational state change from AD-Activating to AD-Active

