

Oracle GoldenGate

Cache Memory Usage

```
./ggsci
dblogin USERIDALIAS ggadmin
SEND EXTRACT ext_mr CACHEMGR CACHESTATS
SEND REPLICAT rep_file CACHEMGR CACHESTATS
```

Statistics

```
./ggsci
STATS REPLICAT rep_mr, TOTALONLY *.* , REPORTRATE MIN
STATS EXTRACT ext_mr, TOTALONLY *.* , REPORTRATE MIN
```

Process Info

```
INFO REPLICAT *, ALLPROCESSES
INFO REPLICAT *, TASKS
INFO EXTRACT *, TASKS
```

Network Stats

```
send extract dp_mr gettcpstats
send extract dp_mr resettcpstats
```

Stats from within DB

```
/* Extract side */
SELECT capture_name, 86400 *(available_message_create_time -
capture_message_create_time) latency_in_seconds FROM GV$GOLDENGATE_CAPTURE;

/* Replicat side */
SELECT r.apply_name, 86400 *(r.dequeue_time - c.lwm_message_create_time)
latency_in_seconds FROM GV$GG_APPLY_READER r, GV$GG_APPLY_COORDINATOR c
WHERE r.apply# = c.apply# AND r.apply_name = c.apply_name;
```

Tuning STREAMS pool

Set the STREAMS_POOL_SIZE initialization parameter for the database to the following value:
(MAX_SGA_SIZE * # of integrated Extracts) + 25% head room

```

SELECT current_size FROM v$sga_dynamic_components WHERE component = 'streams
pool';

/* Streams pool advice */
COLUMN STREAMS_POOL_SIZE_FOR_ESTIMATE HEADING 'Streams Pool|Size for
Estimate'
  FORMAT 999999999999
COLUMN STREAMS_POOL_SIZE_FACTOR HEADING 'Streams Pool|Size|Factor' FORMAT
99.9
COLUMN ESTD_SPILL_COUNT HEADING 'Estimated|Spill|Count' FORMAT 99999999
COLUMN ESTD_SPILL_TIME HEADING 'Estimated|Spill|Time' FORMAT 99999999.99
COLUMN ESTD_UNSPILL_COUNT HEADING 'Estimated|Unspill|Count' FORMAT 99999999
COLUMN ESTD_UNSPILL_TIME HEADING 'Estimated|Unspill|Time' FORMAT 99999999.99

SELECT STREAMS_POOL_SIZE_FOR_ESTIMATE,
  STREAMS_POOL_SIZE_FACTOR,
  ESTD_SPILL_COUNT,
  ESTD_SPILL_TIME,
  ESTD_UNSPILL_COUNT,
  ESTD_UNSPILL_TIME
  FROM V$STREAMS_POOL_ADVICE;

```

Process Memory Usage

[gg_memory_usage.sh](#)

```

#!/bin/bash

#####
# determine the OS type
#####
OSNAME=`uname`

case "$OSNAME" in
  "SunOS")
    echo "OSNAME = $OSNAME"
    ;;
  "Linux")
    echo "OSNAME = $OSNAME"
    ;;
  "*")
    echo "This script has not been verified on $OSNAME"
    exit 1
    ;;
esac

#####
# set the temp file
#####

```

```

TMPFILE=/tmp/pmem.tmp
if [ -f $TMPFILE ]
then
    rm -f $TMPFILE
fi

#####
# loop over the gg process types
#####
PROCESSES="extract replicat"

for PROCESS in $PROCESSES
do
    FLAG=""
    FLAG=`ps -ef | grep $PROCESS | grep -v grep`
    if [ -z "$FLAG" ]
    then
        echo "No $PROCESS processes found"
    else
        echo
        echo "#####"
        echo "# Individual $PROCESS Process Usage #"
        echo "#####"
        case "$OSNAME" in
            "Linux")
                ps -C $PROCESS -0 rss > $TMPFILE
                cat $TMPFILE | grep $PROCESS | awk '{print $2/1024, "MB", $12}'
| sort -k 2
                ;;
            "SunOS")
                ps -efo vsz,uid,pid,ppid,pcpu,args | grep -v grep | grep
$PROCESS > $TMPFILE
                cat $TMPFILE | grep $PROCESS | awk '{print $1/1024, "MB", $8}'
| sort -k 2
                ;;
            "*" )
                echo "This script has not been verified on $OSNAME"
                exit 1
                ;;
        esac
        rm -f $TMPFILE

        echo
        echo "#####"
        echo "# Total $PROCESS Process Usage #"
        echo "#####"
        case "$OSNAME" in
            "Linux")
                ps -C $PROCESS -0 rss > $TMPFILE
                cat $TMPFILE | grep $PROCESS | awk '{count ++; sum=sum+$2; }
END \

```

```
        { print "Number of processes      =",count; \  
        print "AVG Memory usage/process =",sum/1024/count, "MB"; \  
        print "Total memory usage       =", sum/1024, " MB"}'  
        ;;  
    "SunOS")  
        ps -efo vsz,uid,pid,ppid,pcpu,comm | grep -v grep | grep  
$PROCESS > $TMPFILE  
        cat $TMPFILE | awk '{count ++; sum=sum+$1; } END \  
        { print "Number of processes      =",count; \  
        print "AVG Memory usage/process =",sum/1024/count, "MB"; \  
        print "Total memory usage       =", sum/1024, " MB"}'  
        ;;  
    "*" )  
        echo "This script has not been verified on $OSNAME"  
        exit 1  
        ;;  
esac  
rm -f $TMPFILE  
fi  
done  
  
exit 0
```

Output

```
OSNAME = Linux  
  
#####  
# Individual extract Process Usage #  
#####  
41.7109 MB DP_CLI  
31.9805 MB DP_FMS  
29.9297 MB DP_MR  
37.3672 MB DP_MR_0  
37.8438 MB DP_SDE  
29.1562 MB DP_SERV  
1516.69 MB EXT_CLI  
74.8516 MB EXT_FMS  
556.352 MB EXT_MR  
246.926 MB EXT_MR_0  
68.7773 MB EXT_SDE  
91.5234 MB EXT_SERV  
  
#####  
# Total extract Process Usage #  
#####  
Number of processes      = 12  
AVG Memory usage/process = 230.259 MB
```

Total memory usage = 2763.11 MB
No replicat processes found

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