

## 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;
```

## Monitor Dependency Waits

If there are many wait dependencies when using integrated Replicat, try reducing the value of BATCHTRANSOPS.

```
SELECT APPLY_NAME, STATE, ACTIVE_SERVER_COUNT, TOTAL_WAIT_DEPS,
TOTAL_WAIT_COMMITS FROM V$GG_APPLY_COORDINATOR;
```

## 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 -o 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 -o 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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