**STRESS TESTING**

Shell Script:

#!/usr/bin/env bash -e

NUM\_PROCESSES=0

NUM\_LOOPS=0

WAITALL\_DELAY=1

while [ "$1" != "" ]; do

case "$1" in

"-NumBackGroundProcesses")

NUM\_PROCESSES=$2

shift; shift

;;

"-NumberLoop")

NUM\_LOOPS=$2

shift; shift

;;

\*)

echo "Unexpected argument: $1"

exit 1

;;

esac

done

if [ $NUM\_PROCESSES -eq 0 ] ; then

echo "Must specify at-least one background processes."

exit 1

fi

if [ $NUM\_LOOPS -eq 0 ] ; then

echo "Must specify at-least one loop."

exit 1

fi

echo $NUM\_PROCESSES $NUM\_LOOPS

declare -a pids

# run processes and store pids in array

for i in `seq 1 $NUM\_PROCESSES`; do

./gradlew testRelease $NUM\_LOOPS &

pids[${i}]=$!

echo "Test ${pids[i]} started at $(date)."

done

waitall() { # PID...

## Wait for children to exit and indicate whether all exited with 0 status.

local errors=0

while :; do

for pid in "$@"; do

shift

if kill -0 "$pid" 2>/dev/null; then

set -- "$@" "$pid"

elif wait "$pid"; then

debug "Test $pid finished successfully at $(date)."

else

error "Test $pid failed at $(date)."

((++errors))

fi

done

(("$#" > 0)) || break

sleep ${WAITALL\_DELAY:-1}

done

((errors == 0))

}

debug() { echo "DEBUG: $\*" >&2; }

error() { echo "ERROR: $\*" >&2; }

# wait for all pids

waitall ${pids[\*]}

Output:



