STRESS TESTING

Shell Script: StressTestApp.sh

```
#!/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 "$(a)"; do
   shift
   if kill -0 "$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}
 ((errors == 0))
debug() { echo "DEBUG: $*" > &2; }
error() { echo "ERROR: $*" >&2; }
# wait for all pids
waitall ${pids[*]}
```

To Run the above script pass below parameters:

First parameter is NUM_PROCESSES i.e. NumBackGroundProcesses Second parameter is NUM_LOOPS i.e. NumberLoop

./StressTestApp.sh -NumBackGroundProcesses 20 -NumberLoop 100

Output:

The following output is for 20 background processors and for 100 number of loops. We are also capturing log of start test and end test. Here, we are showing end date even if there is an error or any test failure.

For 100 background processors and for 100 number of loops it takes around 115mins to complete entire activity.

Below are the screenshots for below command i.e.

./StressTestApp.sh -NumBackGroundProcesses 20 -NumberLoop 100

```
Rupalis-MacBook-Pro:Minimal-Todo rupali$ ./StressTestApp.sh -NumBackGroundProcesses 20 -NumberLoop 100
Test 11419 started at Thu Jun 6 10:24:57 PDT 2019.
Test 11421 started at Thu Jun 6 10:24:57 PDT 2019.
Test 11424 started at Thu Jun 6 10:24:57 PDT 2019.
Test 11428 started at Thu Jun 6 10:24:57 PDT 2019.
Test 11435 started at Thu Jun 6 10:24:57 PDT 2019.
Test 11442 started at Thu Jun 6 10:24:57 PDT 2019.
Test 11450 started at Thu Jun 6 10:24:57 PDT 2019.
Test 11460 started at Thu Jun 6 10:24:57 PDT 2019.
Test 11468 started at Thu Jun 6 10:24:57 PDT 2019.
Test 11477 started at Thu Jun 6 10:24:57 PDT 2019.
Test 11484 started at Thu Jun 6 10:24:57 PDT 2019.
Test 11493 started at Thu Jun 6 10:24:57 PDT 2019.
Test 11500 started at Thu Jun 6 10:24:57 PDT 2019.
Test 11506 started at Thu Jun 6 10:24:57 PDT 2019.
Test 11518 started at Thu Jun 6 10:24:57 PDT 2019.
Test 11535 started at Thu Jun 6 10:24:57 PDT 2019.
Test 11545 started at Thu Jun 6 10:24:57 PDT 2019.
Test 11549 started at Thu Jun 6 10:24:57 PDT 2019.
Test 11553 started at Thu Jun 6 10:24:57 PDT 2019.
Test 11560 started at Thu Jun 6 10:24:57 PDT 2019.
> Connecting to Daemon
```

```
> Connecting to Daemon
<----> 0% CONFIGURING [0s]
> Connecting to Daemon
<----> 0% CONFIGURING [0s]
> IDLE
<----> 0% CONFIGURING [0s]
> Connecting to Daemonve dependencies of :classpath
> Connecting to Daemon
> Connecting to Daemon
<----> 0% CONFIGURING [0s]
> root project > Resolve dependencies of :classpath
```

* What went wrong: Task '100' not found in root project 'Minimal-Todo'.

Run **gradlew tasks** to get a list of available tasks. Run with **--stacktrace** option to get the stack trace. Run with **--info** put. Run with **--scan** to get full insights.

* Get more help at https://help.gradle.org

BUILD FAILED in 1m 56s ERROR: Test 11493 failed at Thu Jun 6 10:26:55 PDT 2019. ERROR: Test 11468 failed at Thu Jun 6 10:26:56 PDT 2019.