Subject: [PATCH 6/7] perf: add scripts for profiling sleep times (v2)
Posted by Andrew Vagin on Mon, 28 Nov 2011 09:03:34 GMT
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E.g.:
 # perf script record -- sched:sched_stat_sleep -- ./foo
 # perf script report sched-stat
or
 # perf script record -- -e sched:sched_stat_sleep

v2: Add ability to record events for a defined process. It executes a small
bash script, then executes perf with filtering by pid and then a bash script
executes a target process.

Signed-off-by: Andrew Vagin <avagin@openvz.org>
---
 tools/perf/scripts/python/bin/sched-stat-record | 65 ++++++++++++++++++++++++
 tools/perf/scripts/python/bin/sched-stat-report | 5 ++
 2 files changed, 70 insertions(+), 0 deletions(-)
 create mode 100644 tools/perf/scripts/python/bin/sched-stat-record
 create mode 100644 tools/perf/scripts/python/bin/sched-stat-report

diff --git a/tools/perf/scripts/python/bin/sched-stat-record
b/tools/perf/scripts/python/bin/sched-stat-record
new file mode 100644
index 0000000..5e0bd97
--- /dev/null
+++ b/tools/perf/scripts/python/bin/sched-stat-record
@@ -0,0 +1,65 @@
+#!/bin/bash
+# perf script record -- sched:sched_stat_[smth] -- CMD
+# perf script record -- -e sched:sched_stat_[smth]
+#
+set -o monitor
+
+usage()
+{
+ echo "Usage:"
+ echo " perf script record -- sched:sched_stat_[smth] -- CMD"
+ echo " perf script record -- [PERF OPTS] -e sched:sched_stat_[smth]"
+ exit 1;
+}
+
+declare -a opt
+declare -a cmd
+f=0;
+for i in "${@:2}"; do
+ if ["$i" == "--"]; then

```
+  f=1
+  continue
+ fi
+ if [ $f -eq 1 ]; then
+  cmd[${#cmd[*]}]="$i"
+ else
+  opt[${#opt[*]}]="$i"
+ fi
+done
+
+if [[ "${opt[@]}" != *sched_stat_* ]]; then
+ usage;
+fi
+
+if [ ${#cmd[@]} -eq 0 ]; then
+ if [ ${#opt[@]} -eq 0 ]; then
+  usage;
+ fi
+ exec perf record -agP \
+  -e sched:sched_switch \
+  --filter "prev_state == 1 || prev_state == 2" \
+  "${opt[@]}"
+fi
+
+if [ ${#opt[@]} -ne 1 ]; then
+ usage;
+fi
+
+# Wait until a target process is stopped.
+bash -c 'kill -STOP $$; exec "$@"' -- "${cmd[@]}" &
+pid=$!
+wait %1
+[ $? -eq 147 ] || exit 1;
+
+perf record -agP \
+  -e sched:sched_switch \
+  --filter "prev_pid == $pid && prev_state == 1 || prev_state == 2" \
+  -e sched:sched_process_exit -e "${opt[@]}" --filter "pid == $pid" &
+pid_perf=$!
+kill -CONT %1
+while :; do
+ wait %1
+ [ $? -eq 127 ] && break;
+done
+kill -INT %2
+wait %2
diff --git a/tools/perf/scripts/python/bin/sched-stat-report
b/tools/perf/scripts/python/bin/sched-stat-report
```

```
new file mode 100644
index 0000000..e5114ce
--- /dev/null
+++ b/tools/perf/scripts/python/bin/sched-stat-report
@@ -0,0 +1,5 @@
+#!/bin/bash
+# description: profiling sleep times
+perf inject -s -i perf.data -o perf.data.d || exit
+perf report -i perf.data.d || exit
+unlink perf.data.d
--
1.7.1
```