SPE + Perf Record

Go to Path: `cd (YOUR_HOME_DIR)/Frontend_Backend_Tool/SPE_Perf_Record`

Mention the output directory where you want to store the results, name of the testcase or workload you are running in parallel, give a context for the operation, the cores in which you are measuring.

```
Usage
./spe_perf_record.sh
Usage: ./spe_perf_record.sh <output_directory> <testcase_name> <core_context>
<cores>

Example
./perf_spe_record.sh /home/ubuntu/per_spe_test t1 core_context1 10,11,12
[ perf record: Woken up 1 times to write data ]
[ perf record: Captured and wrote 0.254 MB /home/ubuntu/per_spe_test/
```

Once you run the above script, you will see that a `.data` file gets created with the filename represented by clubbing the testcase_name, core_context and core information you gave. In the above example, t1_core_context1_10,11,12.data got created as you can see.

To analyse the SPE output, execute the below command,

```
perf report -i t1_core_context1_10,11,12.data -s cpu,symbol,dso --itrace=ili
```

Explanation:

Follow the above steps only. This example screenshot below shows how to execute spe from commandline without using the above script. You can refer this for understanding.

```
root@altra1p-hp-03:/home/ubuntu# perf record -C 72,76,78 --sample-cpu sleep 5
[ perf record: Woken up 5 times to write data ]
[ perf record: Captured and wrote 1.421 MB perf.data (20053 samples) ]
root@altra1p-hp-03:/home/ubuntu# perf report
root@altra1p-hp-03:/home/ubuntu# perf report -s cpu,symbol,dso
root@altra1p-hp-03:/home/ubuntu# perf record -e arm_spe_0/event_filter=2/ -C 72,76,78 --sample-cpu sleep 5
[ perf record: Woken up 19 times to write data ]
[ perf record: Captured and wrote 37.024 MB perf.data ]
root@altra1p-hp-03:/home/ubuntu# perf record -e arm_spe_0/event_filter=2/ -C 70,73,77 --sample-cpu sleep 5
[ perf record: Woken up 155 times to write data ]
[ perf record: Captured and wrote 1468.487 MB perf.data ]
root@altra1p-hp-03:/home/ubuntu# perf report -s cpu,symbol,dso
root@altra1p-hp-03:/home/ubuntu# perf report -s cpu,symbol,dso --itrace=i1i
root@altra1p-hp-03:/home/ubuntu# perf report -s cpu,symbol,dso
root@altra1p-hp-03:/home/ubuntu# perf report -s cpu,symbol,dso --itrace=i1i
root@altra1p-hp-03:/home/ubuntu#
```