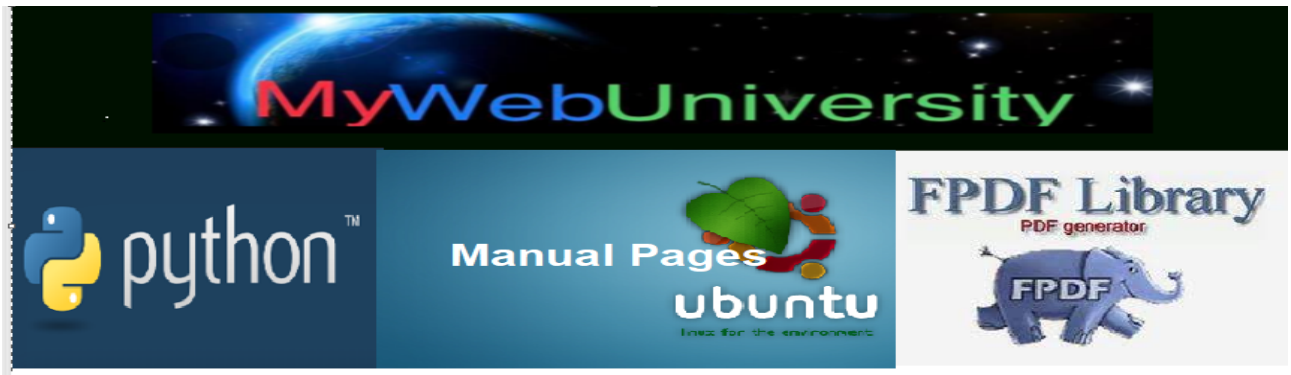

Full credit is given to the above companies including the OS that this PDF file was generated!

Linux Ubuntu 26.04 Manual Pages on command 'perf-daemon.1'

$ man perf-daemon.1

PERF-DAEMON(1) perf Manual PERF-DAEMON(1)

NAME

perf-daemon - Run record sessions on background

SYNOPSIS

perf daemon

perf daemon [<options>]

perf daemon start [<options>]

perf daemon stop [<options>]

perf daemon signal [<options>]

perf daemon ping [<options>]

DESCRIPTION

This command allows to run simple daemon process that starts and monitors configured record sessions.

You can imagine perf daemon of background process with several perf record child tasks, like:

```
# ps axjf
...
    1  916507 ... perf daemon start
916507  916508 ...  \_ perf record --control=fifo:control,ack -m 10M -e cycles --overwrite --switch-output -a
916507  916509 ...  \_ perf record --control=fifo:control,ack -m 20M -e sched:* --overwrite --switch-output -a
```

Not every perf record session is suitable for running under daemon. User need perf session that either produces data on query, like the flight recorder sessions in above example or session that is configured to produce data periodically, like with --switch-output

configuration for time and size.

Each session is started with control setup (with perf record --control options).

Sessions are configured through config file, see CONFIG FILE section with EXAMPLES.

OPTIONS

-v, --verbose

Be more verbose.

--config=<PATH>

Config file path. If not provided, perf will check system and default locations

(/etc/perfconfig, $HOME/.perfconfig).

--base=<PATH>

Base directory path. Each daemon instance is running on top of base directory. Only one

instance of server can run on top of one directory at the time.

All generic options are available also under commands.

START COMMAND

The start command creates the daemon process.

-f, --foreground

Do not put the process in background.

STOP COMMAND

The stop command stops all the session and the daemon process.

SIGNAL COMMAND

The signal command sends signal to configured sessions.

--session

Send signal to specific session.

PING COMMAND

The ping command sends control ping to configured sessions.

--session

Send ping to specific session.

CONFIG FILE

The daemon is configured within standard perf config file by following new variables:

daemon.base: Base path for daemon data. All sessions data are stored under this path.

session-<NAME>.run: Defines new record session. The value is record?s command line without

the record keyword.

Each perf record session is run in daemon.base/<NAME> directory.

EXAMPLES

Example with 2 record sessions:

```
# cat ~/.perfconfig
[daemon]
base=/opt/perfdata
[session-cycles]
run = -m 10M -e cycles --overwrite --switch-output -a
[session-sched]
run = -m 20M -e sched:* --overwrite --switch-output -a
```

Starting the daemon:

```
# perf daemon start
```

Check sessions:

```
# perf daemon
[603349:daemon] base: /opt/perfdata
[603350:cycles] perf record -m 10M -e cycles --overwrite --switch-output -a
[603351:sched] perf record -m 20M -e sched:* --overwrite --switch-output -a
```

First line is daemon process info with configured daemon base.

Check sessions with more info:

```
# perf daemon -v
[603349:daemon] base: /opt/perfdata
  output:  /opt/perfdata/output
  lock:    /opt/perfdata/lock
  up:      1 minutes
[603350:cycles] perf record -m 10M -e cycles --overwrite --switch-output -a
  base:    /opt/perfdata/session-cycles
  output:  /opt/perfdata/session-cycles/output
  control: /opt/perfdata/session-cycles/control
  ack:     /opt/perfdata/session-cycles/ack
  up:      1 minutes
[603351:sched] perf record -m 20M -e sched:* --overwrite --switch-output -a
  base:    /opt/perfdata/session-sched
  output:  /opt/perfdata/session-sched/output
  control: /opt/perfdata/session-sched/control
```

ack: /opt/perfdata/session-sched/ack

up: 1 minutes

The base path is daemon/session base. The lock file is daemon?s lock file guarding that no other daemon is running on top of the base. The output file is perf record output for specific session. The control and ack files are perf control files. The up number shows minutes daemon/session is running.

Make sure control session is online:

```
# perf daemon ping
OK   cycles
OK   sched
```

Send USR2 signal to session cycles to generate perf.data file:

```
# perf daemon signal --session cycles
signal 12 sent to session 'cycles [603452]'
# tail -2  /opt/perfdata/session-cycles/output
[ perf record: dump data: Woken up 1 times ]
[ perf record: Dump perf.data.2020123017013149 ]
```

Send USR2 signal to all sessions:

```
# perf daemon signal
signal 12 sent to session 'cycles [603452]'
signal 12 sent to session 'sched [603453]'
# tail -2  /opt/perfdata/session-cycles/output
[ perf record: dump data: Woken up 1 times ]
[ perf record: Dump perf.data.2020123017024689 ]
# tail -2  /opt/perfdata/session-sched/output
[ perf record: dump data: Woken up 1 times ]
[ perf record: Dump perf.data.2020123017024713 ]
```

Stop daemon:

```
# perf daemon stop
```

SEE ALSO

perf-record(1), perf-config(1)