



## ***Rocky Enterprise Linux 9.2 Manual Pages on command 'tc-simple.8'***

**C:\>man tc-simple.8**

Simple action in tc(8)                      Linux                      Simple action in tc(8)

### NAME

simple - basic example action

### SYNOPSIS

tc ... action simple [ sdata STRING ] [ index INDEX ] [ CONTROL ]

CONTROL := { reclassify | pipe | drop | continue | ok }

### DESCRIPTION

This is a pedagogical example rather than an actually useful action. Upon every access, it prints the given STRING which may be of arbitrary length.

### OPTIONS

sdata STRING

The actual string to print.

index INDEX

Optional action index value.

CONTROL

Indicate how tc should proceed after executing the action. For a description of the possible CONTROL values, see tc-actions(8).

## EXAMPLES

The following example makes the kernel yell "Incoming ICMP!" every time it sees an incoming ICMP on eth0. Steps are:

- 1) Add an ingress qdisc point to eth0
- 2) Start a chain on ingress of eth0 that first matches ICMP then invokes the simple action to shout.
- 3) display stats and show that no packet has been seen by the action
- 4) Send one ping packet to google (expect to receive a response back)
- 5) grep the logs to see the logged message
- 6) display stats again and observe increment by 1

```
hadi@noma1:~$ tc qdisc add dev eth0 ingress
hadi@noma1:~$ tc filter add dev eth0 parent ffff: protocol ip prio 5 \
    u32 match ip protocol 1 0xff flowid 1:1 action simple sdata "Incoming ICMP"
```

```
hadi@noma1:~$ sudo tc -s filter ls dev eth0 parent ffff:
filter protocol ip pref 5 u32
filter protocol ip pref 5 u32 fh 800: ht divisor 1
filter protocol ip pref 5 u32 fh 800::800 order 2048 key ht 800 bkt 0 flowid 1:1
    match 00010000/00ff0000 at 8
    action order 1: Simple <Incoming ICMP>
    index 4 ref 1 bind 1 installed 29 sec used 29 sec
```

Action statistics:

```
Sent 0 bytes 0 pkt (dropped 0, overlimits 0 requeues 0)
```

backlog 0b 0p requeues 0

```
hadi@noma1$ ping -c 1 www.google.ca
```

```
PING www.google.ca (74.125.225.120) 56(84) bytes of data.
```

```
64 bytes from ord08s08-in-f24.1e100.net (74.125.225.120): icmp_req=1 ttl=53 time=31.3 ms
```

```
--- www.google.ca ping statistics ---
```

```
1 packets transmitted, 1 received, 0% packet loss, time 0ms
```

```
rtt min/avg/max/mdev = 31.316/31.316/31.316/0.000 ms
```

```
hadi@noma1$ dmesg | grep simple
```

```
[135354.473951] simple: Incoming ICMP_1
```

```
hadi@noma1$ sudo tc/tc -s filter ls dev eth0 parent ffff:
```

```
filter protocol ip pref 5 u32
```

```
filter protocol ip pref 5 u32 fh 800: ht divisor 1
```

```
filter protocol ip pref 5 u32 fh 800::800 order 2048 key ht 800 bkt 0 flowid 1:1
```

```
match 00010000/00ff0000 at 8
```

```
action order 1: Simple <Incoming ICMP>
```

```
index 4 ref 1 bind 1 installed 206 sec used 67 sec
```

```
Action statistics:
```

```
Sent 84 bytes 1 pkt (dropped 0, overlimits 0 requeues 0)
```

```
backlog 0b 0p requeues 0
```

SEE ALSO

[tc\(8\)](#) [tc-actions\(8\)](#)

iproute2

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Simple action in tc(8)