When any of the configured thresholds is passed, the switch can take any of three additional actions, also on a per-port basis. The first, and the default, is that the switch can rate-limit by discarding excess traffic according to the configured command(s) and take no further action. The other two actions include performing the rate-limiting function and either shutting down the port or sending an SNMP trap.

Let’s say we have the following goals for a storm-control configuration:

- Limit broadcast traffic to 100 packets per second. When broadcast traffic drops back to 50 packets per second, begin forwarding broadcast traffic again.
- Limit multicast traffic to 0.5 percent of the 100-Mbps interface rate, or 500 kbps. When multicast traffic drops back to 400 kbps, begin forwarding multicast traffic again.
- Limit unicast traffic to 80 percent of the 100-Mbps interface rate, or 80 Mbps. Forward all unicast traffic up to this limit.
- When any of these three conditions occurs and results in rate-limiting, send an SNMP trap.

The configuration that results is shown in Example 18-11.

**Example 18-11**  *Storm Control Configuration Example*

```plaintext
Cat3560(config)# interface FastEthernet0/10
Cat3560(config-if)# storm-control broadcast level pps 100 50
Cat3560(config-if)# storm-control multicast level 0.50 0.40
Cat3560(config-if)# storm-control unicast level 80.00
Cat3560(config-if)# storm-control action trap
Cat3560(config-if)# end
Cat3560# show storm-control fa0/10 unicast
Interface    Filter State   Upper   Lower   Current
Fa0/10     Forwarding  80.00%  80.00%  0.00%

Cat3560# show storm-control fa0/10 broadcast
Interface    Filter State   Upper   Lower   Current
Fa0/10     Forwarding  100 pps  50 pps  0 pps

Cat3560# show storm-control fa0/10 multicast
Interface    Filter State   Upper   Lower   Current
Fa0/10     Forwarding  0.50%   0.40%  0.00%
```

Jun 10 14:24:47.595: %STORM_CONTROL-3-FILTERED: A Multicast storm detected on Fa0/10. A packet filter action has been applied on the interface.

The preceding output indicates that the multicast storm threshold was exceeded and the switch took the action of sending an SNMP trap to indicate this condition.