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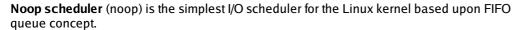
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Linux Change The I/O Scheduler For A Hard Disk

Posted by Vivek Gite <vivek@nixcraft.com>

How do I change the I/O scheduler for a particular hard disk without rebooting my Linux server system?

CFQ [cfq] (Completely Fair Queuing) is an I/O scheduler for the Linux kernel and default under many Linux distributions.





[1]

Anticipatory scheduler (anticipatory) is an algorithm for scheduling hard disk input/output as well as old scheduler which is replaced by CFQ

Deadline scheduler (deadline) - it attempt to guarantee a start service time for a request.

Task: View Current Disk scheduler

Assuming that your disk name /dev/sda, type:

- # cat /sys/block/{DEVICE-NAME}/queue/scheduler
- # cat /sys/block/sda/queue/scheduler

Sample output:

noop anticipatory deadline [cfq]

Task: Set I/O Scheduler For A Hard Disk

To set a specific scheduler, simply type the command as follows:

echo {SCHEDULER-NAME} > /sys/block/{DEVICE-NAME}/queue/scheduler

For example, set noop scheduler, enter:

echo noop > /sys/block/hda/queue/scheduler

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