

NAME

tuned-profiles - description of basic tuned profiles

DESCRIPTION

These are the base profiles which are mostly shipped in the base tuned package. They are targeted to various goals. Mostly they provide performance optimizations but there are also profiles targeted to low power consumption, low latency and others. You can mostly deduce the purpose of the profile by its name or you can see full description below.

The power saving profiles contain settings that are typically not enabled by default as they will noticeably impact the latency/performance of your system as opposed to the power saving mechanisms we have enabled by default. On the other hand the performance profiles disable the additional power saving mechanisms of tuned and ktune as they would negatively impact the performance tuning, be it throughput or latency.

PREDEFINED PROFILES

At the moment we're providing the following pre defined profiles:

default This is the default powersaving profile. It is the lowest of the available profiles in regard to power-saving and only enables CPU and disk plugins of tuned. This is not the same as 'tuned-adm off', where tuned and ktune services are disabled.

desktop-powersave

A powersaving profile directed at desktop systems. Enables ALPM powersaving for SATA host adapters as well as the CPU, ethernet and disk plugins of tuned.

server-powersave

A powersaving profile directed at server systems. Enables ALPM powersaving for SATA host adapters, disables CD-ROM polling via hal and activates the CPU and disk plugins of tuned.

laptop-ac-powersave

Medium powersaving profile directed at laptops running on AC. Enables ALPM powersaving for SATA host adapters, WiFi power saving as well as CPU, ethernet and disk plugins of tuned.

laptop-battery-powersave

Strong powersaving profile directed at laptops running on battery. It activates all power saving mechanisms from the previous profiles plus it enables multi core power savings scheduler for low wakeup systems and makes sure the ondemand governor is active and the AC97 audio power saving is enabled. This profile can be used for any kind of system, not only laptops on battery power in order to save the maximum amount of power. The tradeoff for this profile is a noticeable impact on performance, specifically latency of disk and network IO.

spindown-disk

Strong powersaving profile enabling aggressive disk spin-down. Disk writeback values are increased and disk swappiness is lowered. CD drives polling and log syncing is disabled. All partitions are remounted with 'noatime' option. All tuned plugins are disabled.

throughput-performance

Server profile for typical throughput performance tuning. Disables tuned and ktune power saving mechanisms and enables sysctl settings that improve the throughput performance of your disk and network IO and switches to the deadline scheduler. CPU governor is set to performance.

latency-performance

Server profile for typical latency performance tuning. Disables tuned and ktune power saving mechanisms and enables deadline IO scheduler. CPU governor is set to performance.

enterprise-storage

Server profile for high disk throughput performance tuning. Disables tuned and ktune power saving mechanisms and enables deadline IO scheduler. Enables hugepages and disables disk barriers. Disk readahead values are increased. CPU governor is set to performance.

virtual-guest

Profile optimized for virtual guests based on enterprise-storage profile. It additionally decreases virtual memory swappiness.

virtual-host

Profile optimized for virtual hosts based on enterprise-storage profile. It additionally decreases virtual memory swappiness and enables more aggressive writeback of dirty pages.

FILES

/etc/tuned-profiles/*

SEE ALSO

tuned(8) **tuned-adm(1)** **tuned-profiles-sap(7)** **tuned-profiles-sap-hana(7)**

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