Subject: [RFC][PATCH 0/9] cgroups: block: cfq: I/O bandwidth controlling subsystem for CGroups based on CFQ
Posted by Vasily Tarasov on Fri, 15 Feb 2008 06:53:34 GMT
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The following patchset introduces I/O bandwidth controlling subsystem
for the CGroups framework based on the CFQ scheduler.
User can assign a priority from 0 to 7 to a cgroup, and I/O bandwidth
will be adjusted proportionally.
This effect is achieved by introducing a certain modifications to CFQ.
Now there is not only per process time slice, but also per cgroup
time slice. During cgroup's time slice only processes from current
cgroup can add requests to the queue. Inside cgroups's time slice
processes are managed based on (per-process) time slices (as usual in CFQ).
This is why we call this approach "two level CFQ".

Such kind of system works in OpenVZ project.

Patch is against 2.6.25-rc2-mm1

Comments, suggestions, criticism are all welcome.