
Subject: [PATCH v7 0/8] Request for inclusion: tcp memory buffers
Posted by [Glauber Costa](#) on Thu, 13 Oct 2011 13:09:34 GMT
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Hi Andrew,

This series was extensively reviewed over the past month, and after all major comments were merged, I feel it is ready for inclusion when the next merge window opens. Minor fixes will be provided if they prove to be necessary.

You can see the most recent past discussions at:

<https://lkml.org/lkml/2011/10/10/116>
<https://lkml.org/lkml/2011/10/4/116>
<https://lkml.org/lkml/2011/10/3/133>

It basically lays the foundation for kernel memory limitation as a general framework, and uses it to control the existent tcp memory pressure thresholds in a per-cgroup way.

Follow up patches are expected for soft limits, which are not handled.

Please consider this for inclusion in your tree

Thanks,

Glauber Costa (8):

- Basic kernel memory functionality for the Memory Controller
- socket: initial cgroup code.
- foundations of per-cgroup memory pressure controlling.
- per-cgroup tcp buffers control
- per-netns ipv4 sysctl_tcp_mem
- tcp buffer limitation: per-cgroup limit
- Display current tcp memory allocation in kmem cgroup
- Disable task moving when using kernel memory accounting

Documentation/cgroups/memory.txt | 38 ++++-
crypto/af_alg.c | 8 +-
include/linux/memcontrol.h | 49 +++++
include/net/netns/ipv4.h | 1 +
include/net/sock.h | 130 ++++++++
include/net/tcp.h | 30 +++-
include/net/udp.h | 4 +-
include/trace/events/sock.h | 10 +-
init/Kconfig | 14 ++
mm/memcontrol.c | 373 ++++++++
net/core/sock.c | 104 ++++++---

```
net/dechnet/af_dechnet.c      | 22 ++-
net/ipv4/proc.c                | 7 +-
net/ipv4/sysctl_net_ipv4.c    | 71 +++++++-
net/ipv4/tcp.c                 | 60 +++++--
net/ipv4/tcp_input.c          | 12 +-
net/ipv4/tcp_ipv4.c           | 23 ++-
net/ipv4/tcp_output.c         | 2 +-
net/ipv4/tcp_timer.c          | 2 +-
net/ipv4/udp.c                 | 21 ++-
net/ipv6/tcp_ipv6.c           | 20 ++-
net/ipv6/udp.c                 | 4 +-
net/sctp/socket.c              | 37 +++-
23 files changed, 910 insertions(+), 132 deletions(-)
```

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1.7.6.4
