## Subject: [PATCH v8 0/9] per-cgroup tcp memory pressure controls Posted by Glauber Costa on Mon, 05 Dec 2011 21:34:54 GMT

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Hi,

This is my new attempt to fix all the concerns that were raised during the last iteration.

## I should highlight:

- 1) proc information is kept intact. (although I kept the wrapper functions) it will be submitted as a follow up patch so it can get the attention it deserves
- 2) sockets now hold a reference to memcg. sockets can be alive even after the task is gone, so we don't bother with between cgroups movements. To be able to release resources more easily in this cenario, the parent pointer in struct cg\_proto was replaced by a memcg object. We then iterate through its pointer (which is cleaner anyway)

The rest should be mostly the same except for small fixes and style changes.

## Glauber Costa (9):

Basic kernel memory functionality for the Memory Controller foundations of per-cgroup memory pressure controlling. socket: initial cgroup code. tcp memory pressure controls per-netns ipv4 sysctl\_tcp\_mem tcp buffer limitation: per-cgroup limit Display current tcp memory allocation in kmem cgroup Display current tcp failcnt in kmem cgroup Display maximum tcp memory allocation in kmem cgroup

```
Documentation/cgroups/memory.txt | 46 +++++-
                         | 23 ++++
include/linux/memcontrol.h
include/net/netns/ipv4.h
                        1 1+
include/net/sock.h
                      | 4+-
include/net/tcp.h
include/net/tcp memcontrol.h | 19 +++
init/Kconfig
                    | 11 ++
mm/memcontrol.c
                        | 189 +++++++++++++++++++++++
net/core/sock.c
                      | 118 +++++++++
net/ipv4/Makefile
                      1 1+
net/ipv4/af inet.c
                        2+
net/ipv4/proc.c
                        6 +-
net/ipv4/sysctl_net_ipv4.c
                        | 65 +++++++
net/ipv4/tcp.c
                    | 11 +--
net/ipv4/tcp input.c
                        12 +-
net/ipv4/tcp_ipv4.c
                        14 ++-
```

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1.7.6.4