
Subject: [PATCH v6 0/8] per-cgroup tcp memory pressure handling

Posted by [Glauber Costa](#) on Mon, 10 Oct 2011 10:24:20 GMT

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Hi Guys,

I hope we have it all sorted this time. Main differences from v5:

- * using res_counters for tcp_memory_allocated
- * tried to get maximum consistency with the rest of memcg files
Now files appear even in root memcg, but we can't set any limits on it. (comes more or less for free with re-use of the files)
- * softlimit and failcnt are not shown, but I intend to introduce them in a followup series (failcnt is easy, but softlimit may need some more network-side work, at least testing)

I will be happy to address any comments you may have.

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                   | 375 ++++++
net/core/sock.c                   | 104 ++++++
net/deccnet/af_deccnet.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, 912 insertions(+), 132 deletions(-)
```

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1.7.6.4
