Subject: [PATCH v6 00/10] Request for inclusion: per-cgroup tcp memory pressure controls
Posted by Glauber Costa on Fri, 25 Nov 2011 17:38:06 GMT
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Hi Dave,

I hope the following series is in an acceptable state: I modified the tests
in __sk_mem_schedule() in a way that we should still leave the function pretty soon
under no pressure conditions.

Also, I managed to remove almost everything tcp related from memcontrol.c: the only
thing left is a simple function to calculate the address of the tcp sub-structure in
the main memcg structure - I hope this is acceptable, since besides being simple, it
is not related to the protocol itself.

I also believed that by now, all other comments so far were addressed. Let me know if there
are any blocking concerns to this, and I'll address them as soon as I can.

Thanks

Glauber Costa (10):
  Basic kernel memory functionality for the Memory Controller
  foundations of per-cgroup memory pressure controlling.
  socket: initial cgroup code.
  Account tcp memory as kernel memory
  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
  Disable task moving when using kernel memory accounting

 Documentation/cgroups/memory.txt |  38 +++++-
 include/linux/memcontrol.h       |  19 +++
 include/net/netns/ipv4.h         |   1 +
 include/net/sock.h               | 232 +++++++++++++++++++++++++++++++++++
 include/net/tcp.h                |   4 +-
 include/net/tcp_memcg.h          |  20 +++
 init/Kconfig                     |  14 ++
 mm/memcontrol.c                  | 209 ++++++++++++++++++++++++++++--
 net/core/sock.c                  | 106 ++++++++++----
 net/ipv4/Makefile                |   1 +
 net/ipv4/af_inet.c               |   2 +
 net/ipv4/proc.c                  |   7 +-
 net/ipv4/sysctl_net_ipv4.c       |  65 +++++++++-
 net/ipv4/tcp.c                   |  17 +--
 net/ipv4/tcp_input.c             |  12 +-

```
net/ipv4/tcp_ipv4.c       |  13 ++-
net/ipv4/tcp_memcg.c      | 263 +++++++++++++++++++++++++++++++++++++++++
net/ipv4/tcp_output.c     |   2 +-
net/ipv4/tcp_timer.c      |   2 +-
net/ipv6/af_inet6.c       |   2 +
net/ipv6/tcp_ipv6.c       |   7 +-
21 files changed, 955 insertions(+), 81 deletions(-)
create mode 100644 include/net/tcp_memcg.h
create mode 100644 net/ipv4/tcp_memcg.c
```

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1.7.6.4