Cgroup v1/v2 Abstraction Layer

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## Definitions

<table>
<thead>
<tr>
<th>Layer</th>
<th>Interface</th>
<th>User Knowledge / Responsibilities</th>
</tr>
</thead>
</table>
| 0     | cgroup sysfs | ● cgroup sysfs  
● cgroup v1 vs. v2  
● systemd delegation  
● System capabilities / system workloads |
| 1     | cgget, cgset, etc. | ● cgroup v1 vs. v2  
● systemd delegation  
● System capabilities / system workloads |
| 2     | cgxget, cgxset, etc. | ● systemd delegation  
● System capabilities / system workloads |
| 3     | ???  
GetCpus(10%ofSystem,  
SideChannelSafe, oomd, etc.) | ● Ideally minimal low-level knowledge required |
Current Status

- Layer 0 (sysfs) – No planned changes
- Layer 1 (cgget, etc.) - Full cgroup v2 support added to libcgroup [1]
- Layer 2 (cgxget, etc.) - RFP sent out for review [2]
- Layer 3 (???) - Gathering requirements

[1] https://github.com/libcgroup/libcgroup/releases/tag/v2.0
Discussion Topics

• libcgroup C bindings – Expose too much internal data. Need rework
• Other language bindings?
• Layer 2 proposal (cgxget, etc.) - Looking for community feedback
• Layer 3 (???) - Gathering requirements
  • API
    • systemd delegation
  • PSI/oomd integration
Thank you

https://github.com/libcgroup/libcgroup