



Cgroup v1/v2 Abstraction Layer

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Definitions

Layer	Interface	User Knowledge / Responsibilities
0	cgroup sysfs	<ul style="list-style-type: none">• cgroup sysfs• cgroup v1 vs. v2• systemd delegation• System capabilities / system workloads
1	cgget, cgset, etc.	<ul style="list-style-type: none">• cgroup v1 vs. v2• systemd delegation• System capabilities / system workloads
2	cgxget, cgxset, etc.	<ul style="list-style-type: none">• systemd delegation• System capabilities / system workloads
3	??? GetCpus(10%ofSystem, SideChannelSafe, oomd, etc.)	<ul style="list-style-type: none">• 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>

[2] <https://sourceforge.net/p/libcg/mailman/message/37317688/>

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>

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