

# Linux Plumbers Conference 2024



Contribution ID: 201

Type: **not specified**

## memcg developments for Android

Friday 20 September 2024 12:00 (20 minutes)

This talk will cover the status of recent changes in Android and upstream related to memory control groups, planned work, and outstanding issues.

Here are some details:

### Updates:

- memcg v2 can now be used in A15 with `PRODUCT_MEMCG_V2_FORCE_ENABLED` or vendor overrides of `cgroups.json`
- Control of memcg activation depth is queued for A16 (Reduction in kernel memory and background work)
- In-progress: APIs for categorizing individual apps (launcher? sysui?) as “system”
- Planned: APIs for targeting memcg controls for individual apps (not just system vs apps collectively)
- Planned: Enforce limit on growth of Android system processes over time/releases w/memcg controls. (Be able to say, “core Android can run on X MiB of memory for the next Y years”)
- Is there desire for support of additional features/APIs around memcg controls? (Please speak up or contact me!)

**memcg v1 is now officially on the deprecation path:** <https://lore.kernel.org/all/20240625005906.106920-1-roman.gushchin@linux.dev/>  
Therefore it is likely memcg v2 will be default in Android 16, and memcg v1 will not be configured into the Android kernel.

### Issues:

Need to fix incorrect reporting of v2 controller counts: <https://lore.kernel.org/all/20240528163713.2024887-1-tjmercier@google.com/>  
(Does anyone need / want this *hierarchically* instead of root-only?)

**Primary author:** MERCIER, T.J. (Google - Android Kernel Team)

**Presenter:** MERCIER, T.J. (Google - Android Kernel Team)

**Session Classification:** Android MC

**Track Classification:** Android MC