

## Linux Plumbers Conference 2025



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### CMA allocations fail due to pinned MOVABLE pages

When device drivers reserve big blocks of MIGRATE\_CMA pages, the underutilized MIGRATE\_CMA can be used for MIGRATE\_MOVABLE requests and these pages can be short-term pin for DMA, so if we require MIGRATE\_CMA pages, the allocations might fail.

This topic has been discussed in:

<https://lore.kernel.org/all/882b566c-34d6-4e68-9447-6c74a0693f18@redhat.com/T/#u>

[https://lore.kernel.org/all/CAJDx\\_rhu5jj6EEhnPQGa6qDDWTDm-6Ac0ucUA2HVT-9yRvCNhQ@mail.gmail.com/](https://lore.kernel.org/all/CAJDx_rhu5jj6EEhnPQGa6qDDWTDm-6Ac0ucUA2HVT-9yRvCNhQ@mail.gmail.com/)

The goal of the talk is to discuss the different solutions for the problem and pick the most adequate for this issue.

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