

Linux Plumbers Conference 2025



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CMA allocations fail due to pinned MOVABLE pages

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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/

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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