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TAO: THP Allocator Optimizations

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TAO is an umbrella project aiming at a better economy of physical contiguity viewed as a valuable resource. A few examples are:

- 1. A multi-tenant system can have guaranteed THP coverage while hosting abusers/misusers of the resource.
- 2. Abusers/misusers, e.g., workloads excessively requesting and then splitting THPs, should be punished if necessary.
- 3. Good citizens should be awarded with, e.g., lower allocation latency and less cost of metadata (struct page).
- 4. Better interoperability with userspace memory allocators when transacting the resource.

The cornerstone of TAO is an abstraction called policy zones, and that new abstraction has its own proposal: https://lpc.events/event/18/abstracts/1981/

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