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Task-centric thermal management

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Thermally unsustainable compute demand is in most systems controlled by reducing performance through disabling performance states on specific CPUs or other devices in the system. It provides an efficient method to ensure the system doesn't overheat, however, it doesn't take the actual workload into account which could be better served if the performance caps were applied differently.
The intention with this topic is to discuss the idea of controlling tasks, i.e. compute demand (potentially from user-space), instead of controlling devices directly.

I agree to abide by the anti-harassment policy

Yes

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