

# Linux Plumbers Conference 2025



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## Thermal framework issues and limitations

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Even though the thermal framework has evolved significantly over the past five years, several limitations and open issues remain. The `step_wise` governor still struggles to strike a better trade-off between performance and avoiding interrupt storms, and thermal-zone mitigations tend to stop too early during system suspend. Moreover, newer hardware provides fine-grained temperature telemetry that the framework does not yet leverage.

This talk will illustrate these limitations with simple diagrams and propose a direction to improve the thermal framework.

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