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Multiple system-wide low power-states

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Driven mostly from unofficial requests/discussions from the ARM community, there is a need to support multiple system-wide low power-states on certain platforms. In this regards, we also need a way to select the proper low power-state, for the currently running use-case.

In principle it looks like we need mixture of information to be able to select the low power-state. Like constraints based upon system-wakeup configurations, wakeup latency constraints specified for certain use-cases and generic functional requirements for some specific devices.

The intent is to present a couple of these use-cases to raise a wider discussion for a potential generic solution to these problems.

Primary author: HANSSON, Ulf (Linaro)

Presenter: HANSSON, Ulf (Linaro)

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