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## Firmware-assisted KVM on PowerPC

The latest POWER10 systems run unprivileged paravirtual linux guests atop of a firmware hypervisor called PHYP. To enable workloads relying on virtualization primitives it is necessary to allow those guests to create “nested” guests themselves with minimal overhead.

We will discuss a new PHYP API that makes this possible and the KVM PPC changes to make use of it and some of the implications for things like IO.

Let’s also discuss how this relates to a cross architecture trend in virtualization, where KVM provides the scheduling, memory, etc and then forwards calls to some other firmware that is responsible for actually creating and running guests and what that means for the role of KVM.

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