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PASID Management in Linux

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PASID (Process Address Space ID) is a PCIe capability that enables sharing of a single device across multiple isolated address domains. It has been becoming a hot term in I/O technology evolution. e.g. it is foundation of SVM and SIOV. Combined with the usages of PASID and the configuration difference due to architecture difference across vendors, it brings an interesting topic on PASID management in Linux. Especially regards to software complexity for VM live migration support in cloud. This talk will review the PASID usages and configuration methods, then elaborate the gaps for PASID management. Finally propose a solution and start talks with peers.

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