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From VME/RTEMS to Industrial PC/LinuxRT: A Migration Story

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Until recently VME RTEMS-based IOCs have been the platform of choice for control systems at SLAC. Cost and hardware availability make industrial PCs running Linux an attractive option for EPICS based IOCs. The CONFIG_PREEMPT_RT patch has been used to significantly improve the real-time performance of Linux. We will discuss real-time performance issues and migration experience for LinuxRT based EPICS IOCs.

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