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JLab Hall B Controls Infrastructure and IT Integration

Tuesday, September 20, 2016 4:45 PM (15 minutes)

For Jefferson Lab's Hall B, the EPICS control systems have migrated from EPICS 3.13.4 to 3.14.12.5. During this time we moved to modern tools such as CS-Studio and BEAST, replacing MEDM and ALH. We have also fully converted to 64-bit Red Hat Enterprise Linux 7 (RHEL7) for all workstations and servers. Management of the controls infrastructure now leverages our on-site IT expertise in several aspects. All desktops and servers are fully managed by Puppet and monitored with Nagios. Using our IT VM cluster, we are pioneering site-wide usage of VMware's Linux Virtual Desktop Infrastructure (VDI). This technology is proving valuable for secure, remote access to the control system without issues and lag of X-forwarding. Read-only access is also being provided over the web via WebOPI. Discussion will include our general findings in this major transition and our future plans.

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