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PXIe-1073

Product Notification: Possible System Hang with Third-Party PXI Modules for some National Instruments PXI Systems with a 64-bit Operating System.

There is a limitation with some National Instruments PXI and PXI Express chassis which may cause a system hang or crash if a PXI, PXI-1, or hybrid-compatible PXI module attempts 64-bit memory addressing transactions. This limitation occurs when a PXI-1 or hybrid-compatible module attempts memory transactions in affected PXI systems running a 64-bit Operating System (OS) with more than 4 GB of system RAM. This limitation impacts PXI-1 and hybrid-compatible PXI modules using 64-bit memory transactions only; there is no impact on PXI Express modules.

The following chassis may exhibit this behavior if 64-bit memory addressing is used to communicate with a PXI-1 or hybrid compatible PXI module:

- NI PXI-1033
- NI PXIe-1062Q
- NI PXIe-1065
- NI PXIe-1071
- NI PXIe-1073
- NI PXIe-1075
- NI PXIe-1082

NI has updated certain hardware drivers for its PXI modules to resolve this limitation. Please visit ni.com/info and enter the Info Code `PXI64HANG` for additional information regarding driver changes that address this constraint.

Action Required

If you are using a 32-bit OS in standard, non-PAE mode then you are not affected by this limitation and no further action is required.

If you plan to upgrade the OS on an existing PXI system to a 64-bit OS; then we request you to upgrade to the latest NI hardware drivers in order to avoid this limitation.

If you are using a third-party PXI-1 or hybrid compatible PXI device in your chassis that uses 64-bit memory addressing please refer to the Knowledgebase article linked by the Info Code above.