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**Rule DAS233:      LARGE PEND TIME MAY BE CAUSED BY CONTROLLER  
ACTIVITY**

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**Finding:**      A significant amount of the PEND time delay may have been caused by controller activity. This controller activity probably was caused by staging/destaging of cached controllers.

**Impact:**      This finding may have a MEDIUM IMPACT or HIGH IMPACT on the performance of the device.

**Logic flow:**    The following rules cause this rule to be invoked:  
                  DAS200: Volume with the worst overall performance  
                  DAS230: Major cause of I/O delay was PEND time

**Discussion:**    PEND time is the time from the issuance of the SSCH instruction until the device is selected by the control unit. This time is caused by queuing for the path (wait for channel, wait for control unit or wait for head-of-string), and can be caused by other systems sharing the device (wait for device).

                  Please refer to Rule DAS133 for a discussion regarding PEND time caused by controller activity.

**Suggestion:**    Please refer to Rule DAS133 for suggestions on how to reduce PEND time caused by controller activity.