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## Rule DAS190: PERFORMANCE CHARACTERISTICS OF SIGNIFICANT VOLUMES

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**Finding:** CPEXpert identifies the performance characteristics of the most significant volumes (including the volume selected as the "worst" performing volume).

**Impact:** This finding is used to assess the importance of the "worst" performing device and to determine whether other devices offer significant performance improvement potential.

**Logic flow:** This is a basic finding. There are no predecessor rules.

**Discussion:** CPEXpert lists basic characteristics of the volumes having the most potential for improvement. The list includes the volume selected as the "worst" performing device, so that you can appreciate the relative performance improvement potential between the "worst" volume and other volumes on the list.

Volumes are selected as having improvement potential only if their response time exceeds the average for their device type. This "screening" is done for each measurement interval being analyzed. The data presented by Rule DAS190 reflects the average per-second delays only during measurement intervals when the device I/O performance was worse than the average for its device type.

The "weighted delays" value is a relative measure of the performance improvement potential of the volume. The absolute values in the column are not particularly meaningful. Rather, the values should be compared to each other to assess the relative performance impact of each volume.

For example, the "worst" volume might have a "weighted delays" value of 1000. If the "next worst" device had a "weighted delays" value of 950, you may wish to direct CPEXpert to examine the next worst device in more detail (this would be accomplished by using DASGUIDE to "exclude" the worst volume).

On the other hand, suppose the "next worst" device had a "weighted delays" value of only 400. You probably would not wish to examine the next worst in more detail, since little performance benefit would be gained from tuning actions directed to the next worst volume.

It is possible that a volume may have a significant improvement potential in a particular measurement interval, but not be the volume with the most

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overall potential for improvement. This situation can arise because the analysis is directed toward the volumes with the **most overall** performance improvement potential.

**Suggestion:** You should use the information displayed by Rule DAS190 to assess the relative importance of the "worst" performing device compared with the performance improvement potential of the other devices.