
Rule DAS121: VOLUMES CONTRIBUTING TO RPS DELAY

Finding: CPExpert identifies the volumes contributing to missed RPS reconnect delays.

Impact: This information can be useful when deciding on a course of action to correct the missed RPS reconnect problems. *This finding applies only to legacy systems (e.g., 3380 devices attached to 3990-2 controllers).*

Logic flow: The following rules cause this rule to be invoked:
DAS100: Volume with the worst overall performance
DAS120: Missed RPS reconnect was major cause of I/O delay

Discussion: If Rule DAS120 is produced, CPExpert examines the SMF Type 74 information and IOCP macro information to select all devices sharing paths with the device experiencing missed RPS reconnect delays. Devices contributing 5% or more to the utilization of the channel paths are listed, ordered descendingly by their contribution to path utilization.

A device contributes to path utilization mostly based upon the connect time of the device. Consequently, CPExpert displays the devices having the largest per-second connect times on the path.

Suggestion: You should consider separating the volumes contributing to missed RPS delays from those on the volume experiencing the significant missed RPS delays.

- You can move data sets from the volumes contributing the most to path utilization.
- You can move volumes to a different string.
- You might reschedule workload to minimize the path utilization at critical times.