Case Study:

Telecommunication Firm Delays CPU Upgrade via Sort Offload to zIIP with Syncsort™ ZPSaver

Challenge

With CPU utilization peaking at 100% in the daily batch window when critical billing jobs were running, this telecommunications firm was seeing the performance of the jobs being impacted, along with an occasional inability to complete all jobs within the window. They were looking at an impending upgrade which they simply didn't want to budget for or take on. Furthermore, their 4-Hour Rolling Average (4HRA) MSU peak utilization was creeping upward, driving MLC costs up with it, and they had to find a solution to reduce software costs by reducing MSUs in that peak period.

Solution

The company took advantage of a free Precisley SMF analysis to get a projection on how much they could save in terms of MIPS (and ultimately MSUs and MLC costs), and in elapsed time within their batch window, with Syncsort's™ industry-leading sort and zIIP offload solution Syncsort™ ZPSaver.

A flexible analysis, tailored to their specific needs, was performed to provide them with a clear picture of where Syncsort™ ZPSaver could produce savings in general CP utilization, as well as reduce elapsed time, providing a justification for purchase. One analysis was done for all systems during all times of day, in another a refined analysis focused on the 4HRA peak window, and finally an analysis of several days where 100% CPU utilization was hit during the batch window was performed.

Result

This comprehensive analysis projected results that were astounding, with an average savings of 72.4% in CPU time along with an 11% savings in elapsed time within their current batch window.

After a quick install the company saw an immediate reduction in CPU time and elapsed time.

Most critical was the reduction in CPU time in the batch window which provided additional head-room to stay within current LPAR caps and prevent increasing capacity on demand which would result in higher costs. Not to mention that critical jobs completed on time without impacting other workloads. They also benefited from a reduction in software costs due to a decrease in the MSUs consumed by sorting operations in the 4HRA peak window, and also are confident they can delay a processor upgrade which they saw as inevitable prior to deploying Syncsort™ ZPSaver.

Precisley Syncsort™ ZPSaver is saving them money within their IT budget while improving operational efficiency. The mainframe team stands out in their IT organization for leveraging Syncsort™ ZPSaver's ready-to-implement innovations to address operational challenges and provide capacity for new opportunities.

Learn more about Syncsort™ Elevate ZPSaver by visiting: https://www.precisely.com/product/precisely-syncsort/syncsort-mfx

COPY

SORT

COMPRESS

ZP