



SightLine for ClearPath OS 2200 Systems

Metric Overview

The SightLine™ Power Agent™ for Unisys ClearPath OS 2200 Systems collects and reports performance data from both the ClearPath OS 2200 system and from the applications running on the system, to provide a comprehensive view of the system's behavior and performance. The following describes some key metrics collected by the SightLine Power Agent for Unisys ClearPath OS 2200 Systems and analyzed using SightLine Expert Advisor/Vision™.

SIP Statistics

The System Instrumentation Package (SIP) is a standard part of the OS 2200 operating system that monitors and collects performance statistics about the operating system, workloads, and major pieces of hardware on the system. SightLine provides statistics on CPU, Memory and I/O utilization, Expool, Dynamic Allocator, Dispatcher, ER, Call Interface, and hundreds of other critical performance metrics.

MFD Statistics

The Master File Directory (MFD) can be queried to obtain information about the mass storage of a system. SightLine provides statistics about the availability (MFD K-Trks Avail) and the reliability (MFD K-NonErr Refs) of each disk drive and logical channel. Statistics are also provided summarizing these statistics for all cache, non-cache, fixed, removable, and for all disks. Additionally, SightLine can be configured to produce MFD statistics by qualifier.

TIP KONS Statistics

TIP KONS is an area of memory set aside by the Transaction Interface Processor (TIP) to record the performance and behavior of a TIP transaction environment. SightLine monitors the critical performance measures in System KONS, so you can observe how a metric changes over time. The global metrics from System KONS can be used to determine the need to look at individual transaction statistics. There are eight areas of performance information available within the KONS Interface Agent: Transaction Response Times, Transaction Rates, Transactions Active, COMPOOL, Transaction Errors, FCSS, Transaction Scheduling, and Timer Statistics.

System Log Statistics

The System Log provides detailed TIP, demand, and batch resource usage statistics by individual run, program, and terminal. SightLine takes advantage of data available through INSP\$ calls so you get the information you need, when you need it, to link performance problems back to the user and transaction. Additionally, disk errors and security violations are monitored so that failing hardware or unauthorized usage can be detected before major system outages occur. System Log data also provides performance information relative to StorageTek robotics.

UDS Statistics

The Universal Data System (UDS) measures transaction volume, queuing, and errors in any of the databases managed under the UDS umbrella, including DMS and RDMS. UDS data is gathered from the published UMON interface or from the ACT, QAD, and BST Tables within UDS. Hit rates can be determined, queuing problems can be quickly identified and overcome, and space utilization can be optimized. SightLine collects data for each DMR active on your system, covering three functional areas: Transaction Activity and DMR Slot Usage, Buffer Usage plus Rollbacks, and Queuing by queue reason.

TPM/HVSTATs Statistics

Transaction Performance Monitor (TPM) audit trails and HVSTATs are used in place of TIP Logging at some sites. The statistics reported are similar to those described above for TIP Log, with the addition of several statistics unique to HVTIP. With SightLine, the TPM Log records can be grouped into workloads characterized by Program Name. HVSTAT records can be grouped by Program Name or Initial Control Program, User Word030, or LINC ISPEC.

Step Control/MCB Statistics

Step Control metrics record tree usage and queuing by node and priority. Message queuing can be isolated in the input tree queuing that will not show up directly as increased response time. TIP Log, HVSTATs, and DMR data identifies transactions being queued after they have been scheduled. Step Control identifies transactions being queued before they're scheduled. SightLine collects statistics for all configure priorities and nodes. It displays input messages active, queued, total, and maximum allowed plus output messages active, queued, and total.

MAPPER Statistics

SightLine's MAPPER data is divided into six functional groups: Communication, Mass Storage, Memory Pool, Report Access, User Activity, and Workload. Workload data provides Utilization, Activity Counts, and Response Time Statistics by MAPPER function, department, user, run, and type.

Telcon Statistics

SightLine presents a view of the nodes of a Telcon network, representing a coherent view of the raw data collected by a network node in the context of the node's Telcon configuration. It is unique among Unisys network analysis tools, which usually display only the raw data collected and some limited derived variables. SightLine can develop derived statistics that enable a user to see and graph a simple statistics representing the aggregate utilization and load of a network node. Global system metrics include Class/Event, Channel, Trunk, Line, Terminal, and Error Statistics.

CMS Statistics

CMS data provides an event-by-event description of everything that went through the Communications Management System. SightLine measures activity through CMS such as Messages In and Out, Passoffs, Checkpoints, Cancels and Requeues, MRF Reads/Writes and Space Releases, and MCB Buffer Hits. MAD, Primitive, and SLOT Pool Usage are also measured. Data collection from multiple instances of CMS is possible.



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