

IAM V9.4 SUPPORT FOR PERVASIVE ENCRYPTION – GA 4Q 2019

A Beta test version will be available in August 2019.

If you are interested in getting a beta version email: support@fdinnovation.com

IAM Support for IBM's Pervasive Encryption

IAM Version 9.4 is enhanced to provide support for the z/OS Pervasive Encryption function. To provide complete compatibility with VSAM capabilities, IAM is implementing this function through utilization of Linear Data Sets using the IBM Media Manager I/O driver. All of the encryption calls are done by the Media Manager I/O driver, so IAM is not directly involved with the Pervasive Encryption processing. Encryption is enabled through the use of the KEYLABEL parameter on the DEFINE of an IAM data set, either through the IDCAMS parameter or from the Data Class.

Overview IAM Pervasive Encryption points:

- IAM will automatically define an IAM data set as a Linear data set when the KEYLABEL parameter is specified and enable encryption for the data set.
- A Linear data set utilizes Control Intervals that are a multiple of 4K (4096 bytes). What was an IAM data block in the original IAM data set structure is now a Control Interval in the Linear data set. Other than the size change, the Control Intervals are identical in format and structure to IAM data blocks in IAM Non-VSAM data sets.
- IAM data sets defined as Linear data sets are expected to require more space due to the restriction on allowable CI sizes. IAM files in Non-VSAM data sets typically use block sizes that will maximize the space utilization of the type of device the data resides on.
- The IAM List Catalog information routine will include the new information related to this enhancement in the IAMPRINT report.

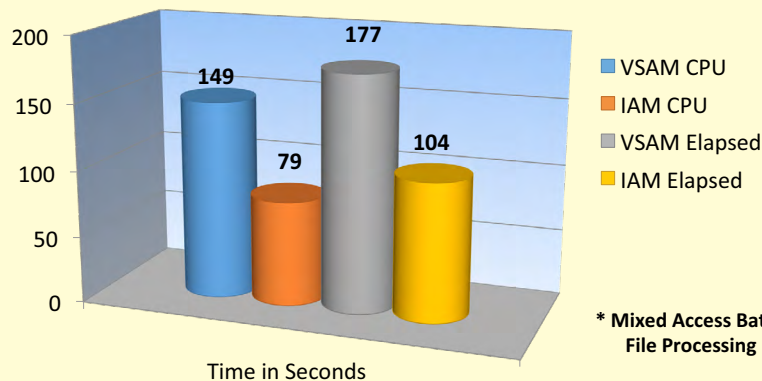
IAM Dynamic Reorg Enhancements

IAM Version 9.4 Dynamic Reorg will provide support for IAM data sets being processed by CICS regions that are using the IAM/RLS function.

Record Count Statistic Changes

IAM Version 9.4 will use and display on LISTCAT IAMPRINT and the IAMINFO reports 64-bit values for the Total Records, Records Added, Records Deleted, and Records Updated statistics. This will enable users with large quantities of records in the site's IAM data sets to have accurate counts when these statistics involve very large numbers.

BENCHMARK VSAM vs. IAM: Pervasive Encryption Batch File Processing



IAM uses:

47% Less CPU Time &
42% Less Elapsed Time
 than VSAM.