

IAM

VSAM APPLICATION PERFORMANCE

z/OS Storage Management



Many proprietary and home-grown business applications running under z/OS use the VSAM file structure for data storage. Some of these VSAM files can be heavily used and can also become very large. As usage and/or size increases, the performance of the applications using those files can be significantly impaired...



VSAM Application Performance

The Innovation Access Method (IAM) is a reliable, high-performance disk file manager, designed as a transparent alternative to VSAM KSDS (single index), KSDS AIX (with alternate indexes), ESDS and RRDS datasets.

IAM drastically improves on the performance of your VSAM applications by reducing I/Os, CPU consumption, and DASD space requirements. Typical savings with IAM include:

- 20-80% reduction in elapsed times
- 40-80% reduction in I/Os
- 20-70% reduction in CPU usage
- 30-70% reduction in DASD space
- 20-80% reduction in response times

These savings can be achieved in a very short space of time. Typically, IAM can be installed and operational in less than 1 hour.



User Quote

"We do over 2.6 billion I/Os per month and 36% of these are to VSAM files. The savings that IAM can provide are substantial and will go a long way in delaying a CPU upgrade..."



Record-Level Sharing

IAM provides several options for Record-Level Sharing, as follows :

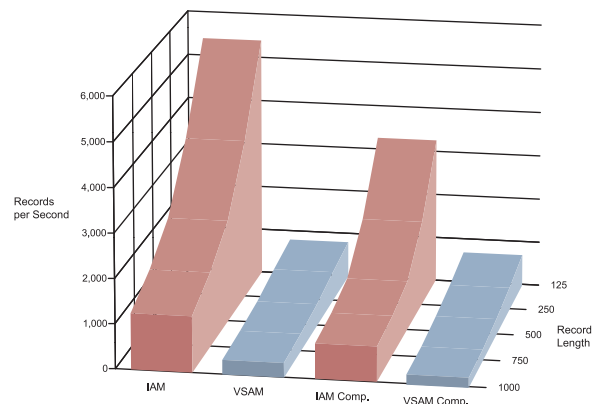
- Record-Level Sharing for a single system (IAM/RLS) was introduced in IAM Version 8.0 and allows an IAM file to be concurrently accessed by two or more applications running in the same LPAR.
- Record-Level Sharing for a SYSPLEX (IAM/PLEX) was introduced as a separate cost-option in IAM Version 9.0. IAM/PLEX provides z/OS SYSPLEX Record Level Sharing (RLS) for IAM datasets across multiple z/OS systems and LPARS that are connected as a z/OS SYSPLEX.



Performance Example

IAM delivers superior performance and better space savings while using less CPU time. IAM consistently out-performs competing VSAM performance solutions.

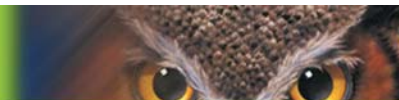
The graph below shows the results of a test involving 38,000 Random Inserts into a file containing 2 million records. The figures show "records per second" processed for IAM, VSAM (native), IAM Compressed and VSAM SMB:



- IAM used 66% to 72% less CPU time
- IAM ran in 67% to 85% less elapsed time
- IAM used 72% to 92% less EXCP's

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Transparency & Co-Existence

The VSAM/IAM Interface (VIF) allows you to transparently replace a VSAM file without requiring a change to the application program, or to the z/OS Operating system.

IAM can *co-exist* with VSAM without affecting the normal use of VSAM, and without interfering with VSAM Catalog Management.



Alternate Index Support

IAM's Alternate Index support can provide similar savings in I/Os, CPU and DASD space usage as obtained against single index KSDS's.



User Quote

"We reduced elapsed time down from 44 to 13 minutes, and the file size down from 150,000 to 60,000 tracks..."



Vendor Application Support

Many z/OS application vendors make extensive use of VSAM, and shown below is a list of some of the most commonly used applications that have been successfully converted from VSAM to IAM. *See the website for a more extensive list.*

VENDOR	PRODUCT	VENDOR	PRODUCT
ADP	Payroll	Infor (GEAC, Walker)	GL, AR, MSA, Millennium, Walker, Infopoint
AMS (CGI)	CUFS, Advantage, ACAPS	Integral Systems	General Ledger, HR/Payrol, HRMS
ASG (Mobius)	ViewDirect	MacKinney Software	JES Queue Print (JQP)
ATOS Origin	Cardlink, Payroll & Personnel (IPAS)	Macro 4	Tracemaster
Beta	Beta93	Mckesson	Patient Information
CA	Various	Pitney Bowes (Group 1, LPC)	Finalist, Code 1, Mailstream, Mailsort, Choice
CSC (Vantage)	Hogan, Cyberlife, Capsil	Sea	TRMS
Empower (Tesseract)	Payroll, HR, Benefits	Shaw Systems	Collections
First Data	VisionPLUS	Siemens	Invision, Signature, Enterprise Active Directory
General Dynamics (VIPS)	Medicare Part B, SuperOP, Auto	Sigma	Student Aid Management (SAM)
IBM	RMDS	Sungard (SCT)	SIS+, HRS, FRS

* IAM has also been proven to work with a wide range of VSAM-based home-written applications.



Real-Time Tuning

IAM's Real Time Tuning monitors I/O activity, dynamically changing the number of buffers and I/O chaining. IAM completely eliminates the I/O to the VSAM index.



Optional Data Compression

IAM's simplified file structure, combined with advanced software compression technique, is significantly more efficient than VSAM's hardware compression, while giving comparable or better space reduction.



FDRREORG

FDRREORG offers a fast, flexible and intelligent solution for reorganizing VSAM KSDS, Alternate Index (AIX) files, and for compressing PDS datasets. IAM users can also use FDRREORG to reorganize their IAM files. *See separate Product portfolio sheet.*

Want to Know More About IAM? For a No-Obligation FREE Trial or to request a FREE Concepts & Facilities Guide, ask your local sales representative or visit: <http://www.innovationdp.fdr.com/cfguides/index.cfm>



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