



## VSAM disk management

Optimize the performance of your VSAM disk resources and data

Comprehensive  
VSAM performance  
and data management  
capabilities

**A vast amount of business critical data is held in VSAM files. Whether on z/OS or z/VSE, Macro 4 has a strong suite of solutions to manage VSAM data and help you to:**

- Improve the performance and usability of VSAM by automatically reducing the consumption of CPU, disk and storage resources
- Increase insight into how VSAM resources are being utilized, outlining tuning opportunities where they exist
- Ensure consistently high levels of system efficiency
- Enable proactive capacity planning by simulating the effects of internal or external changes
- Reduce firefighting incidents, allowing staff to spend more time on strategic IT and business development
- Proactively create awareness for files that require attention, allowing efforts to be directed efficiently and effectively
- Reduce VSAM disk usage through effective data compression
- Increase operational efficiency by using fast, flexible and reliable VSAM copy, backup and restore facilities

### VSAM performance and data management

VSAM is a major asset to any data center, providing a powerful and flexible file management system. However, it can also be a liability if it is not managed properly.

Macro 4 offers you an automated means of managing your VSAM disk resources and business critical corporate data. For z/OS, the solutions are VSAMTune, InSync and DATABACK. For z/VSE, the solutions are VSAMTune, VSAMLite and DATABACK.

Each of these products can be used in a standalone fashion to address particular issues, or, as a solution suite to provide a comprehensive array of VSAM performance and data management capabilities.

When installed as a solution suite, interoperability between the component parts of the solution offer even greater opportunities to enhance your VSAM performance. At the same time it allows you to save time by increasing automation.

Automated VSAM  
monitoring and  
performance tuning

Comprehensive data  
compression

Automated data backup,  
restore and copy

VSAM data manipulation

## VSAMTune

VSAMTune monitors, tunes and enhances the performance of your business-critical corporate data by reducing the CPU and disk resources that VSAM consumes in z/OS and z/VSE environments. VSAMTune can also automate many of the time-consuming tasks faced by data administrators.

VSAMTune's comprehensive tuning functions provide expert advice on how to utilize your VSAM environment to the full. Files and data sets that require attention are highlighted, ensuring that effort is directed in an efficient manner to the files that are critical to your business.

VSAMTune provides accurate and independent VSAM file usage statistics; this detailed level of information is particularly useful when planning for future growth.

VSAMTune's capabilities also extend to defining, browsing, editing, deleting and reorganizing VSAM data sets and it will produce optimum values for data and index buffer numbers automatically. VSAM buffers are dynamically allocated in accordance with the data, providing further performance gains.

Comprehensive online display and batch report information help you outline tuning opportunities, leading to greater job efficiency and reduced run times. VSAMTune's early warning features further help to optimize system utilization.

## VSAMLite

VSAMLite is an automated z/VSE VSAM solution for compressing your business-critical corporate data. Once the data is compressed, substantial disk space savings can be made by reducing file sizes.

Improvements in overall system performance and online response times also result from the subsequent reduction of DASD I/O activity and channel connections.

VSAMLite has no hardware, program or JCL dependencies; it eliminates the guesswork in choosing which files to compress by using its own integral compression analysis utility.

Data compression ratios of between 30 per cent to 80 per cent are achievable. This not only improves VSAM performance, but also leads to a noticeable reduction in backup times.

## DATABACK

DATABACK is an automated z/OS and z/VSE VSAM management solution for backing up, restoring and copying your business critical corporate data.

DATABACK is fast, reliable, flexible and easy to use, enabling backup and restore of VSAM clusters and other VSAM-based data sets. DATABACK will:

- Ensure that backups are always readable and accurate
- Compare backup data with the original data, providing additional assurance of total data integrity
- Support disk-to-disk automated operations
- Offer direct access to data on the backup file
- Provide one-step tuning by obtaining historical file data to determine optimum restore values to use when restoring a file

## InSync

InSync is a z/OS data management solution that includes extensive file utilities for allocating, displaying and altering VSAM catalog definitions. Functions for editing, copying and altering VSAM and other files are also provided.

InSync offers comprehensive file comparison facilities for files of the same or differing layouts, source code/JCL modules, library member lists and load modules.

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