

Batch Magic Applications

► Tape Performance Monitoring

With Batch Magic you can easily see how your tape workloads behave over time, and how each workload stresses your tape environment.

Tape workloads are multi-dimensional, so Batch Magic reports both the number of mounts and the throughput in MB/s. It also reports scratch and specific mounts as well as the data volume for each workload and for the complete tape environment.

With virtual tape systems from IBM and STK, only recalls that cannot be served from the disk buffer require an actual tape mount. The advanced simulation in Batch Magic accurately shows the cache behavior of the Virtual Tape system.

► Batch Window Tuning

Batch Magic allows you to see which workloads are running concurrently and to gauge how rescheduling will affect the overall performance in your tape environment. In many cases, batch jobs using tape do not need to run at a particular time, while recalls from HSM or ADSM are time critical. With the information produced by Batch Magic, you will know which workloads can be moved around. This way, you can make sure that there is minimal tape activity from other workloads during peak-recall periods. This will maximize tape drive availability for the high priority jobs.

► Capacity Planning

Hardware is expensive, but Batch Magic will ensure that your upgrade decisions are well-founded. Batch Magic gives you the full tape library view in addition to the workload perspective such as job and dataset name. You can determine if you need to add channels, and whether or not an upgrade to FICON would be beneficial. With the aggregate specific mount information, you can determine the number of drives that are required in a library.

► Identify the Heaviest Tape Users

The detailed reports generated by Batch Magic show exactly which programs and batch jobs are using most of your tape resources, and at what time of the day or night they do so.

These activity reports can be used to determine which are the most resource intensive jobs and programs and whether jobs need to be scheduled differently.

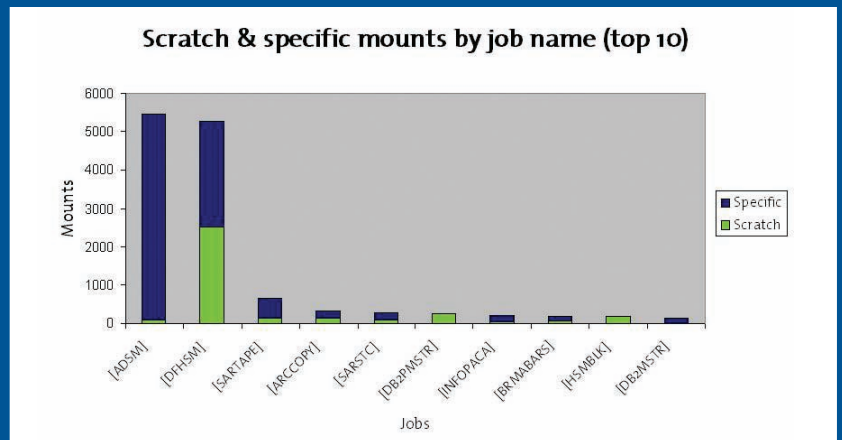
► ESCON to FICON Migration

Modern tape libraries provide very high data throughput capabilities that cannot be fully exploited if they are connected by ESCON channels. Even a single tape drive can generate in excess of 50 MegaByte/s on a single channel, and virtual tape servers can provide even higher data rates from their disk buffers.

Such performance is realized only at a price, and Batch Magic can provide the insight to know whether the throughput requirements for your installation on a per-library basis justify a move to FICON. Batch Magic will tell you which applications use the most bandwidth, so that you can accurately decide if those applications really need the investment in FICON capable controllers.

▼ Mount chart for most active jobs

Batch Magic creates charts and tables by job, program, recording technology, library and many more. This chart shows the number of mounts for the most active jobs.



Batch Magic Features

► Efficient SMF Data Consolidation from all LPARs

Batch Magic provides you with a consolidated view on all tape related activity, regardless of the number of LPARs or Parallel Sysplexes the tape libraries are attached to.

Batch Magic efficiently collects SMF data originating from one or more z/OS servers and extracts and consolidates the tape workload information. The analysis is based on SMF records 14, 15, 21, 30 and 40. With these records the product analyzes the tape workload at both the application level and the hardware level. In the analysis, Batch Magic considers every individual jobstep and mount.

► Easy to Use on both z/OS and Windows Platforms

You can run Batch Magic as a batch job on z/OS or interactively on a Microsoft Windows PC. You will find it easy to switch to the platform most suited for a particular analysis.

If you plan to do the study on the PC, SMF data can be compressed on the mainframe so only a limited amount of data needs

to be transferred to the PC. This reduction in data volume makes it easy to do the interactive data analysis on the PC.

The outputs can be viewed as printed reports, or you can use the Batch Magic Windows application for interactive reporting and graphing on the PC. Reports can be directly loaded into Microsoft Excel by the Windows application.

► Flexible Workload Definitions

You can create your own workload grouping criteria for Batch Magic to report on. This means that you can see the scratch and specific mount counts and rates, the read and write megabytes, volume statistics, and many other metrics for each of the workloads that you have selected. You can use these workload definitions to distinguish between applications, groups of devices, or to make any grouping that you desire.

Batch Magic is delivered with sample workload grouping definitions that distinguish the major tape applications based on the dataset names they employ, so that you will get useful reports out of the box.

► Intuitive Graph and Table Reporting Options

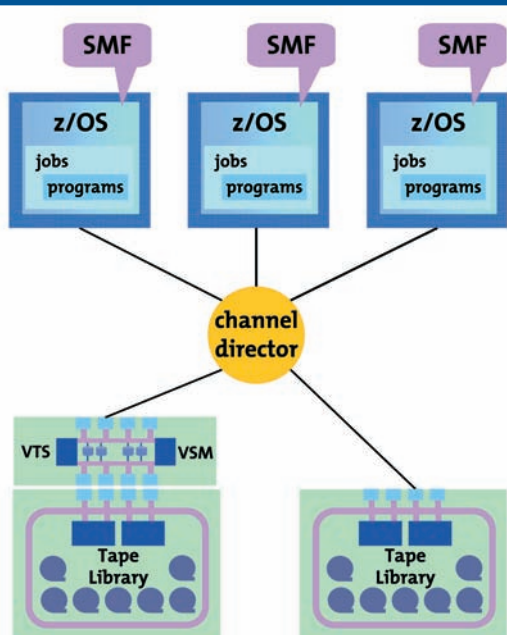
Batch Magic reports are in a tabular format on the mainframe, and are created directly in Excel by the Windows version of Batch Magic. Report options include:

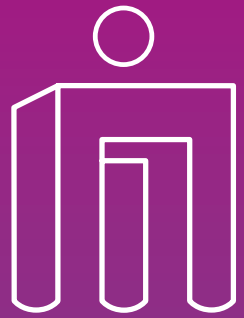
- Total, daily and hourly metrics:
 - By recording technology (3480, 3490, 3590, etc)
 - By device address range, e.g. for each virtual tape server
 - By user-defined workload
- Top 20 active job names and program names
- Details like open time, read and write megabytes etc. for individual data sets, or for individual mounts

Batch Magic can create a wide variety of graphs and tables, showing aggregate or detail level data. The product contains a set of default summary graphs for quick reporting out of the box.

◀ Report on shared tape libraries

Batch Magic consolidates information from all your LPARs and libraries, including VTS and VSM, which gives you a comprehensive view of all tape related activity.





IntelliMagic

About IntelliMagic

IntelliMagic is known for its expertise in I/O performance measurement and management. Our products give clear insight in storage subsystem performance and capacity planning.

IntelliMagic enables you to use your hardware efficiently, save cost and increase end-user satisfaction.

IntelliMagic's products use advanced algorithms for data analysis and performance prediction, in combination with an effective, flexible and intuitive user interface. Users are guided safely through valid problem solution scenarios. It is this powerful combination that justifies the 'Magic' suffix in the name of each of our products.

Our goal is complete customer satisfaction. Responsiveness to customer questions and a customer-first mentality are very important to us.

We strive towards long-term relationships with our employees, customers, and suppliers.

Other products from IntelliMagic are:

▶ **RMF Magic**

RMF Magic is a superior performance analysis product for z/OS Disk Subsystems which includes a dashboard for a daily health check.

▶ **Disk Magic**

Disk Magic is a Windows-based modeling product that shows current performance and evaluates upgrade scenarios for your Disk Subsystems.

▶ **Capacity Magic**

Capacity Magic offers a graphical interface that computes the usable capacity for any disk and RAID type combination on a Disk Subsystem.

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