



MERCURY Console

OPTIMIZING SYSTEM CONTROL

What is Mercury?

Mercury is the ultimate file management tool for Rocket Software's UniData and UniVerse (U2) databases.

Properly maintaining your U2 database is more than just file analysis and file resizing; it also includes file corruption repair, file type analysis, creating and maintaining file indices.



Mercury has been designed and created by one of the industry's U2 database performance experts; the same expert that Rocket Software leverages to create and update their UniData and UniVerse Administration exams.

Mercury performs extensive analysis of your database files and suggests new parameters for peak performance and then automatically implements the changes upon your approval. Mercury allows you to specify specific criteria on a per file basis, so that you can override Mercury's recommendations in special circumstances.

One of the problems associated with U2 resizing is that once your database files have been resized and once new data is added, the file has begun the process of becoming incorrectly sized. As each day passes and more and more data is added, the file becomes less efficient. To solve this issue,

Mercury learns how the database grows and then uses the knowledge to calculate not only the current file size, but the optimal file size that will handle future data. This ensures that files will still be correctly sized days, weeks, even months later.

Mercury also provides extensive statistics about your database files, and can even perform file repairs when an issue is discovered.

In the event of an emergency recovery after a system crash, or any other unplanned event, with one click Mercury, can instantly perform validation on the most important database files so that you can verify the database integrity as quickly as possible.

Why is Mercury the Solution?

File analysis and database tuning are paramount in keeping a system operating at peak performance. If you have not been resizing your files on a regular basis, your system is wasting valuable resources by performing unnecessary disk I/O, while large portions of disk space become unusable.

Rocket Software recommends that all files should be routinely analyzed to calculate the proper file size by determining the correct modulo and separation. Once determined, these values must be implemented by resizing each file on the system.

A common misconception is that dynamic files

- Gather Statistics
- Scheduled Analysis/Resize
- Intelligent Resizing
- Logging
- Analyze Static & Dynamic Files
- Type Analysis
- Smart File Size Calculations
- Analyze Indices
- File Repair
- Web Based
- Account Maintenance
- File Filters
- File Exclusion
- File Priority
- File by File Override
- Emergency Analysis
- File Conversion
- Online Upgradable
- Modular Design
- Query Analysis
- Performance Tuning

File Explorer
Mercury clearly displays file statistics with color coded file status.

The screenshot shows the Mercury Console interface for a UniData database. The 'File Explorer' window displays a table of files with columns for File Name, Type, Hash Type, Record Count, Current Size, Current Mod/sep, Proposed Mod/sep, Proposed Hash Type, Index, Trgs, and Status. The Status column uses color-coded circles (red, yellow, green) to indicate file health. A sidebar on the left contains navigation icons for Console, Utilities, Accounts, Database Admin, System Health, Security, Services, Apps, and Logout. The top right shows the account 'DBA' and a 'Refresh Now' button.

File Name	Type	Hash Type	Record Count	Current Size	Current Mod,sep	Proposed Mod,sep	Proposed Hash Type	Index	Trgs	Status
AAFILE	STATIC	3	3,059	190,464	124 60	1.1	211.1	0		Red
AE_COMS	DYNAMIC	0	20	8,192	0 0	3.2	2.2	3		Yellow
BACKUP_CONFIG	STATIC	0	7	8,192	0 0	1.4	1.4	0		Green
BACKUP_LOG	DYNAMIC	1	4	278,528	0 0	67.4	1.4	3		Green
BB_INFO	STATIC	0		2,048		1.1	1.1	0		Green
BB_STATUS	DYNAMIC	1		4,096		3.1	1.1	0		Green
BENCH	STATIC	0	1	16,384	0 0	1.8	1.8	0		Green
CGI_BIN_OLD	DYNAMIC	0	7	65,536	0 0	3.16	3.16	3		Green
CGI_BIN_PDF	DYNAMIC	1	902	18,674,368	315 0	1151.16	1151.16	1		Green
CGI_BIN_TEMP	STATIC	0	434	5,783,552	75 0	277.16	277.16	0		Green
CHAT_CONTROL	STATIC	0		12,288		1.1	1.1	0		Green
CLN_WORK	STATIC	0	10,185	1,394,688	0 0	1361.1	997.1	0		Green
CONTROL	STATIC	0	1	2,048	0 0	1.1	1.1	0		Green
COUPONS	STATIC	0	2	8,192	0 0	1.4	1.4	0		Green
CREDITS	STATIC	1	7	2,048	0 0	1.1	1.1	3		Green



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Don't you want your database to run efficiently?

"Mercury allows us to effectively manage our U2 environment with minimal resources and expense, allowing us to be more proactive in our maintenance approach, which translates into consistency of maintenance completion and avoidance of down time." – Ralph L.

automatically resize themselves. In theory, dynamic files are supposed to split as data is added and merge when data is deleted. In reality this process is not as quick or accurate as users are lead to believe. In reality, dynamic files often result in excessive overflow or too much unusable disk space locked away inside each group.

Unfortunately U2 does not include sufficient tools to manage this process. As a result many organizations must either hire an expensive database administrator to manage their systems, or obtain the assistance of their U2 vendor to help with this long and tedious task. When you compare the cost of hiring a database administrator to perform this task to the cost of Mercury, the return-on-investment can easily be determined, and a business case in support of Mercury is apparent.

Once Mercury has been installed and is running, user access is achieved via any Microsoft Internet Explorer or Google Chrome browser, (support for Mozilla Firefox is still under development.) As a browser based system, Mercury allows nearly any non-technical user to easily access and manage the database via a web browser. This means you do not have to be a database expert to tune your system and you won't need to install a client application on your workstation and limit database activities to a specific workstation. With familiar point and click options, Mercury provides a fast and natural feel that is easy to learn and easy to use. You can even schedule file analysis, resizing and even file repairs, for a total set-it-and-forget-it environment.

What else can Mercury do?

In addition to managing the database and optimizing files, Mercury has other modules that can easily be downloaded and installed from the Mercury Console.

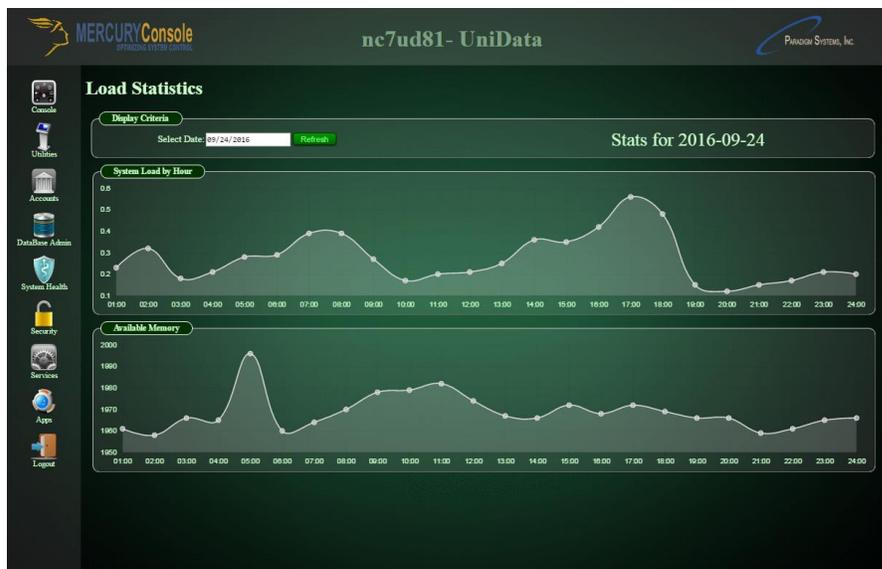
In addition to database analysis, resizing and repairs, Mercury has the ability to perform query analysis by capturing all selection based queries so that you may tune your alternate key indices for peak performance.

Performance monitoring is also a key feature built into Mercury; by collecting statistics on everything from memory usage to disk utilization and user connectivity, Mercury can review your database configuration files and recommend changes to enhance database performance.

Gain Control

Mercury allows you to take complete control of your database without the need for a full time DBA, saving you piles of cash. It's like having the premier DBA working for you at a fraction of the cost.

Even if you already have the DBA of your dreams, Mercury will help your DBA get the most out of your system. Your DBA will be able to use Mercury to perform his job better and faster than ever before, allowing him to concentrate on other more pressing issues, and you will be able to sleep at night knowing that your system is being management 24/7 by the most advanced U2 DBA solution ever created.



Load Statistics
Mercury collects statistical data on how your system is used, and can make recommendations on how to tune your U2 environment.