The Complete Database Solution for HP NonStop

GTUG

http://www.youtube.com/watch?v=utiiuPyvjC8&feature=youtu.be

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Software Components

- SQLXPress – NonStop SQL
- Discover – Disks and Files
- MARS - Reloads
- Partner - Partitoning
- Mpress – Report Writing
SQLXPress
• Companion Product for NSK SQL Databases
  – Database administration
  – Data browsing and editing
  – Visual query builder
  – Execution plan management
  – More
• For use by
  – DBAs, developers, technical support, other users
SQLXPress Features

- Modern Windows® client interface
- Efficient NonStop SQL database drivers
- Online and batch NSK components
- No extra middleware required
  - No Pathway
  - No ODBC
  - No RSC
  - Supports MP and MX
SQLXPress Benefits

• Improves availability
  – Reduce incidence of operator errors
  – Perform offline maintenance tasks faster

• Helps ensure optimal performance
  – Execution plan management
  – Compare execution plans after a change
  – Query Analysis and prototyping

• Reduces complexity
  – Identifies object dependencies
  – Group SQL objects / programs by environment
SQLXPress Benefits

- Improves productivity
  - Partition data analysis for split, move, reload
  - Rapid graphical query development
  - Ad-hoc SQL data browsing and editing
  - Data import / export
    - XML/CSV/Oracle/DB2/MS SS/Access/MySQL
- SQL Scripting Language – MSCRIPT
- Create DDL scripts for Replicating ad Mapping Environments
- DUP for moving data
- All with no programming required
SQLXPress Benefits

• Enhanced Security
  – SQL object access restrictions (via “Environments”)
  – Encrypted logon
  – Optional session data encryption
Discover

- Self-management for files and disk volumes
  - Monitoring
  - Alarms
  - Reporting
  - Choice of automation strategies
    - None (operator intervention required)
    - Semi-automatic (using “worksheets”)
    - Fully-automatic (no intervention required)
Discover Features

- Windows based client
  - Used for configuration, status monitoring, and reports
- NSK based client interface
  - Supports client connections
- NSK based monitor process
  - Monitors files and disk volumes
  - Performs actions based on detected conditions
  - No middleware required
Discover Benefits

- Avoids unplanned application outages
  - Predicts file full, disk full, extent allocation failures
  - Takes preventive measures to avoid problems
    - Increase maximum extents
    - Preallocates extents
    - De-fragments disks
Discover Benefits

- Helps maintain data integrity
  - Detects changes in AUDIT file attribute
  - Detects files that require rollforward
  - Detects broken, corrupt, and crashopen files
Discover Benefits

• Monitors file security
  – Detects unauthorized licensed and progid-ed files
  – Detects changes in license and progid attributes
  – Detects changes in file security and owner
  – Detects orphan files
• Identifies “wasted” disk space
  – Unused extents, old files, orphan files, unreclaimed space, too much slack space
Discover Benefits

• Improves availability
  – Reduces risk of human error
  – Anticipates potential problems before they occur
    • Generates alarms via EMS or via e-Mail
• Improves productivity
  – Reduces workload of DBA and system manager
  – Gets more done compared to manual methods
Discover Benefits

- Enhances capacity planning
  - Reports and charts
    - Disk volume space usage, history and predictions
    - File space usage, history and predictions
    - Space allocation by user
    - Space allocation by file groups (log files, temp files, code files etc.)
MARS

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• Self-management for online database reloads
• Supports
  – NonStop SQL MP
  – NonStop SQL MX
  – Enscribe
MARS Features

- Windows based client
  - Used for configuration, status monitoring, and reports
- NSK based client interface
  - Supports client connections
- NSK based monitor process
  - Monitors database files and manages reloads
MARS Benefits

- Optimizes performance of OLTP and batch
  - Reduces number of index levels
  - Eliminates disordered data
- Improves disk utilization
  - Reduces excess slack space
  - Eliminates unused data blocks
MARS Benefits

• Improves availability
  – Reduces operator error
  – Only runs reloads in off-peak hours
  – Continuously monitors system resource usage
  – Suspends processing when resources are low

• Reduces overhead
  – Files are only reloaded when required
  – Sampling used to minimize cost of file analysis
MARS Benefits

• Flexible configuration
  – Weekly reload calendar
  – Files can be segregated
    • Based on name pattern, file type, audit, owner
    • Triggers for index levels, disorder, slack, free blocks
    • Reload at different times
    • Custom reload parameters
  – Thresholds for system resource utilization
    • CPU, disk, TMF resources
- Partition key analysis for Enscribe files
- Calculates boundary keys for (re)loading partitions
- Generates script template for FUP
Partner Features

• Simple command-line interface
• Run from TACL prompt
Partner Benefits

- Low system overhead, even for very large files
- Fast, produces results in minutes
- Accurate, user specifies tolerance
MPress
MPress

- On-host report builder for NonStop servers
- Supports:
  - NonStop SQL/MP
  - NonStop SQL/MX
  - Enscribe
MPress Features

• Graphical report designer
  – Runs under Windows
  – Not required to run reports
• NonStop server based reporting engine
  – Run reports from TACL or NetBatch
  – Fast database and printer drivers
    • Up to four times faster than ODBC-based products
    • No middleware required
MPress Benefits

- Rapid report design
  - No programming required
  - Graphical, component based designer
  - Print preview
  - Wizards for common tasks
  - Run report online
  - Generate TACL script for running report
MPress Benefits

- Multiple report layouts
  - Form letters
  - Invoices
  - Columnar
  - Summarization

- Flexible report organization
  - Page and group headers and footers
  - Title and summary pages
  - Portrait and landscape in same report
MPress Benefits

- Wide range of formatting options
  - Multiple font styles and sizes
  - Monochrome or Color
  - Graphics
  - Charts
  - Watermarks
- Flexible data formatting
  - Cobol-like PIC strings
  - C printf-like format strings
- Written by Debra Labanowski – ATC lab
- Compares what's available for MX
- Is available to any customer under NDA
- SQLXPress, MXDM, NSM/web
- Email me pettifer@merlon.com for the link
- Is anyone moving from MP to MX?

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Summary

Merlon is the only one providing a complete db solution for Nonstop – SQL MX, MP and Enscribe

In business since 1996 – well referenced with many customers and from HP

All solutions can be downloaded and evaluated

Http://www.merlon.com