IBMTIMESTAMP

Robust tools to streamline database administration

Thanks to the autonomic nervous system, our bodies function very well without our interference. For most of us, actions such as blinking or swallowing happen naturally and automatically. Much like the human autonomic nervous system, IBM DB2® and IMS™ Tools provide autonomic capabilities for your data center that can optimize IT resources and reduce management complexity with minimal human intervention.

The tools perform a range of functions, from automatically generating utility jobs, to capturing and analyzing performance data and making recommendations to optimize queries. They’re also unique in their ability to adapt to changing conditions, prevent failure and perform a host of other self-regulating tasks for your IBM DB2 Universal Database™ or IBM IMS environment.

These tools arm database administrators (DBAs) to compete successfully in an environment of e-business on demand, in which companies strive to be more responsive and flexible in meeting customer needs. Unburdened by repetitive, time-consuming maintenance chores, DBAs can focus on higher-value tasks, helping their companies increase their return on their data center investment.

New offerings further enhance the tools portfolio

New tools include IBM DB2 Data Archive Expert, which enables you to move seldom-used data to a less costly storage medium without any programming, and IBM DB2 Test Database Generator, a tool that allows you to create test data on demand without disrupting your production system. Both of these tools include DB2 Grouper, a table grouping feature that discovers relationships between tables from definitional as well as access sources. Also new is IBM DB2 Information Integrator Classic Federation for z/OS, which provides Web and distributed applications with read/write connectivity to mainframe databases.

On the IMS side, new offerings include IMS Performance Monitor for z/OS, which provides real-time status monitoring and alerts for an active IMS subsystem. This enables you to pinpoint potential issues before they become problems.
### Evolution to autonomic computing

One of the characteristics of an on-demand business is autonomic computing—where computers respond automatically and work around problems, security threats, and system failures in order to reduce operating costs and lower downtime. Shifting to autonomic computing is an evolutionary process that builds on an enterprise’s existing multi-level IT infrastructure. As shown on the chart and in the additional examples below, IBM DB2 and IMS Tools offer functionality across this full range of levels, from important building blocks to significant self-management capabilities:

- **At the basic level, tools manage multiple sources of system-generated data and include such tools as: IBM DB2 Table Editor, IBM DB2 Bind Manager, IBM DB2 Path Checker, IBM High Performance Image Copy, IBM IMS Command Control Facility and IBM IMS Program Restart Facility.**
- **At the predictive level, tools monitor, simulate changes and make recommendations. Examples in the multiplatform environment include IBM DB2 Recovery Expert and IBM DB2 Performance Expert, which also supports z/OS. Other z/OS tools include IBM DB2 Test Database Generator, IBM DB2 Log Analysis Tool, IBM DB2 Object Restore, IBM IMS Performance Analyzer, IBM IMS ETO Support, IBM IMS Library Integrity Utilities.**
- **Tools at the adaptive level, tools such as IBM DB2 Automation Tool help reduce labor costs by monitoring situations needing attention and then taking action. As the tool evolves to the autonomic level, it will have increased self-management capabilities based on policies that specify business goals.**
- **Tools at the managed operations level consolidate data and actions, eliminating management complexity and optimizing results. Examples are: IBM DB2 Archive Log Accelerator, IBM DB2 Log Analysis Tool, IBM DB2 Object Restore, IBM IMS Performance Analyzer, IBM IMS ETO Support, IBM IMS Library Integrity Utilities.**

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<table>
<thead>
<tr>
<th>Level 1</th>
<th>Level 2</th>
<th>Level 3</th>
<th>Level 4</th>
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<tbody>
<tr>
<td><strong>Basic</strong></td>
<td><strong>Managed</strong></td>
<td><strong>Predictive</strong></td>
<td><strong>Adaptive</strong></td>
<td><strong>Autonomic</strong></td>
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<td><strong>Characteristics</strong></td>
<td><strong>Characteristics</strong></td>
<td><strong>System monitors, correlates and recommends actions</strong></td>
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<td><strong>Integrated components dynamically managed by business rules/policies</strong></td>
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<td>Multiple sources of system generated data</td>
<td>Consolidation of data and actions through management tools</td>
<td>System monitors, correlates and recommends actions</td>
<td>System monitors, correlates and takes action</td>
<td>Integrated components dynamically managed by business rules/policies</td>
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<td>- DB2 HP Unload</td>
<td>- DB2 Administration Tool</td>
<td>- DB2 Automation Tool</td>
<td>- DB2 Performance Expert</td>
<td>- DB2 Data Archive Expert</td>
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<td>- DB2 Utilities Suite</td>
<td>- DB2 Web Query Tool</td>
<td>- DB2 Log Analysis Tool</td>
<td>- DB2 Recovery Expert</td>
<td>- DB2 SQL Performance Analyzer</td>
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<td>- IMS Utilities Fast Path and Full Function</td>
<td>- IMS Performance Monitor</td>
<td>- DB2 IBM Queue Control Facility</td>
<td>- IMS DataPropagator</td>
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The chart shows examples of where DB2 and IMS tools fit in the levels of an IT infrastructure. The arrows depict the evolutionary path the tools will take as they are enhanced.
Helping to increase returns
IBM is continuing to focus its tools development efforts to provide you with more autonomic capabilities to help you increase your ROI and run a more responsive operation. In the near term, IBM plans to offer features that enable more self-managing behavior, wizards that guide your choices, advisors that evaluate possibilities and a policy infrastructure to enable complete autonomic computing.

In fact, this focus will continue until autonomic awareness is as pervasive in the design process as performance and usability now are. To take fullest advantage of the robust functionality of IBM DB2 and IMS Tools today, mix and match them to create an integrated, flexible and affordable solution to meet your unique needs.

Services and support to help you succeed
IBM offers a full range of services for IBM DB2 and IMS Tools to help you maximize your productivity. Hints and Tips (HATs), Frequently Asked Questions (FAQs) and IBM Redbooks are available on the tools Web site. For more information, visit ibm.com/software/data/db2imstools/support.html.

Database administration
DB2 Tools
- IBM DB2 Administration Tool for z/OS, Version 4.2 (5655-I23)
- IBM DB2 Object Comparison Tool for z/OS, Version 2 (5655-I20)

IMS Tools
- IBM IMS Hardware Data Compression-Extended for z/OS, Version 2.2 (5655-E02)
- IBM IMS High Availability Large Database (HALDB) Conversion and Maintenance Aid for z/OS, Version 2 (5655-K47)
- IBM IMS Library Integrity Utilities for z/OS, Version 1 (5655-H42)
- IBM IMS Sequential Randomizer Generator for OS/390, Version 1 (5655-E11)
For both DB2 and IMS
- IBM Data Encryption for IMS and DB2 Databases, Version 1 (5799-GWD)

Utilities management
DB2 Tools
- IBM DB2 Automation Tool for z/OS, Version 1.3 (5697-G63)
- IBM DB2 High Performance Unload, Version 2, for Multiplatforms (D512ALL), for Workgroups (D52A5LL), for z/OS (5655-I19)
- IBM DB2 Utilities Migration Toolkit for z/OS, Version 1 (5799-GTA)
- IBM DB2 Utilities Suite for z/OS, Version 7 (5697-E98)

IMS Tools—Administration
- IBM IMS Database Control Suite for z/OS, Version 2.2 (5655-F76)
- IBM IMS Database Repair Facility for OS/390®, Version 1 (5655-E03)

IMS Tools—Fast Path
- IBM IMS Fast Path Basic Tools for z/OS, Version 1.2 (5655-E30)
- IBM IMS Fast Path Online Tools for z/OS, Version 2 (5655-F78)

Performance management
DB2 Tools
- IBM DB2 Buffer Pool Analyzer for z/OS, Version 2 (5697-H82)
- IBM DB2 Performance Expert for Multiplatforms, Version 1 (D512GLL), for Workgroups, Version 1 (D52A5LL), for z/OS, Version 2 (5655-J49)
- IBM DB2 Performance Monitor for z/OS, Version 8 (5655-J50)
- IBM DB2 Query Monitor for z/OS, Version 1 (5655-E67)
- IBM DB2 SQL Performance Analyzer for z/OS, Version 2 (5655-I22)

IMS Tools
- IBM IMS Buffer Pool Analyzer for z/OS, Version 1 (5697-H77)
- IBM IMS Network Compression Facility for z/OS, Version 1 (5655-E41)
- IBM IMS Performance Analyzer for z/OS, Version 3.2 (5655-E15)
- IBM IMS Performance Monitor for z/OS, Version 1 (5655-G50)
- IBM IMS Problem Investigator for z/OS, Version 1 (5655-K50)
Recovery management

**DB2 Tools**
- IBM DB2 Archive Log Accelerator for z/OS, Version 2 (5697-I73)
- IBM DB2 Change Accumulation Tool for z/OS, Version 1.3 (5655-F55)
- IBM DB2 Log Analysis Tool for z/OS, Version 2 (5655-E56)
- IBM DB2 Object Restore for z/OS, Version 2 (5697-I20)
- IBM DB2 Recovery Expert for Multiplatforms, Version 1 (D512DLL)

**IMS Tools**
- IBM IMS Database Recovery Facility for z/OS, Version 2 (5655-I44)
- IBM IMS DEI DB Fast Recovery for z/OS, Version 2.2 (5655-E32)
- IBM IMS High Performance Change Accumulation Utility for z/OS, Version 1 (5655-F59)
- IBM IMS High Performance Image Copy for z/OS, Version 3 (5655-K96)

For both DB2 and IMS
- IBM Application Recovery Tool for IMS and DB2 Databases, Version 1.2 (5697-F56)

Replication management

**DB2 Tools**
- IBM DB2 DataPropagator for z/OS, Version 8 (5655-I60)
- IBM DB2 RepiData for z/OS, Version 3 (5799-GK6)

**IMS Tools**
- IBM IMS DataPropagator for z/OS, Version 3 (5655-E52)

Application management

**DB2 Tools**
- IBM DB2 Bind Manager for z/OS, Version 2 (5655-E43)
- IBM DB2 Data Archive Expert for z/OS, Version 1 (5655-I95)

**IMS Tools**
- IBM IMS Command Control Facility for z/OS, Version 1 (5655-F49)
- IBM IMS Extended Terminal Option Support for z/OS, Version 3 (5655-L61)
- IBM IMS High Performance Sysgen Tools for z/OS, Version 1 (5655-F43)
- IBM IMS Multi-Dialog Manager for z/OS, Version 1 (5697-H91)
- IBM IMS Queue Control Facility for z/OS, Version 1.2 (5697-E99)

For more information

Please contact your IBM marketing representative or an IBM Business Partner, or call 1-800 IBM CALL within the U.S. Also, visit our Web site at ibm.com/software/data/db2imstools