IBM Data Management Tools for OS/390

Helping customers attack the cost of computing...

IBM Data Management Solutions

Evolving customer needs

What our customers face today:

✓ *Increasing application & system demands*
✓ *Skills are a premium resource*
✓ *Software costs need to be managed*

$2B+ Marketplace by 2003 IDC

Manageability

Functionally rich, affordable tools

Application Enablement

Scalability

Performance & Availability

Needs

Time

e-business

IBM

OS/390 Data Management Tools Strategy

- **Complement IBM data management offerings**
  - Deliver comprehensive, functionally rich set of tools
    - Administration, Performance, Recovery, Application
  - Provide affordable solutions
  - Increase development, sales, & support structure
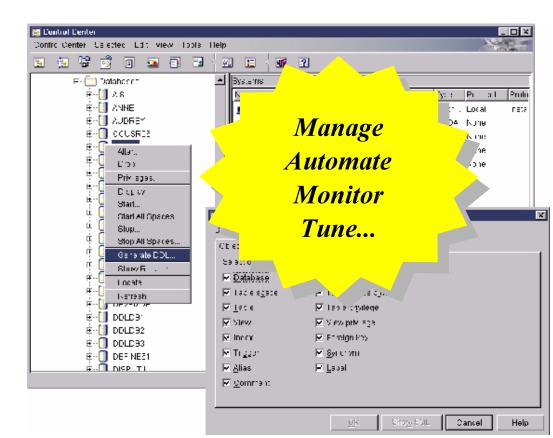
- **Improve productivity**
  - Deliver easy-to-use, integrated tools

- **Provide Integration**
  - Control Center, Tivoli
  - Function & information

- **Enable Migration**
  - Skills, Offers

Manage Automate Monitor Tune...

Database Tools announcement

e-business

35+ Tools

IBM Data Management Tools for OS/390

Cost Effectiveness
System Utilization
DBA Productivity

$200M+ IBM Investment

Administration **Performance** **Recovery & Replication** **Application Mgmt.**

- Significant IBM investments targeted at the growing tools market
  - ► Development, marketing, sales, & support
- New and enhanced suite of products
  - ► Comprehensive capabilities
  - ► Affordable
- Migration incentives, support and tailored financing offerings

Administration

IBM Data Management Tools for OS/390

Increased DBA Productivity

Cost Effectiveness
System Utilization
DBA Productivity

Administration

Easily accomplish the tasks necessary to define and maintain database operations...

IMS Fast Path Basic & Online Tools
IMS High Perfformance Load, Unload
DB2 Administration Tool
DB2 Forms
DB2 High Perfrmance Unload
...*and more*

e-business

IBM

Performance Management

IBM Data Management Tools for OS/390

Bottleneck breaking insight

Cost Effectiveness
System Utilization
DBA Productivity

Performance

Keep the database environment operating at peak performance to maximize system utilization...

IMS Performance Analyzer
IMS Queue Control Facility
DB2 Performance Monitor
DB2 Query Monitor
DB2 SQL Performance Analyzer
...*and more*

Recovery & Replication Management

IBM Data Management Tools for OS/390

Fast, easy recovery & improved availability

Cost Effectiveness
System Utilization
DBA Productivity

Recovery & Replication

Make information available to support global audiences operating round the clock...

IMS DEDB Fast Recovery
IMS Recovery Saver
IMS Image Copy Extensions
IMS DB Integrity Control Facility
DB2 Recovery Manager
DB2 Row Archive manager
...and more

Application Management

IBM Data Management Tools for OS/390

Efficient application control

Cost Effectiveness
System Utilization
DBA Productivity

Application Mgmt.

Easily synchronize the application and database environments to manage changing applications...

IMS Program Restart Facility
IMS Connect
DB2 Bind Manager
DB2 Web Query Tool
...*and more*

Sales, Migration and Support

- **Dedicated IBM Sales Team**
  - ► Data Mgmt. sales & S/390 sales team
  - ► Data Mgmt. Tools for OS/390 sales specialists

- **IBM Data Management Tools for OS/390 Services**
  - ► Assess, plan, implement

Assessment

Recommendations and estimates for migration effort.

Project Plng.

Assistance for all aspects of migration and implementation

Project Mgmt.

Migration specialists to help insure on-time completion

Implementation

System and product experts to support implementation

Testing Assist.

Benchmark support, feature / function mappings product configurations

Training

Basic Training Advanced Instruction

Maximizing the value

- **Leveraging skills**

- **Optimized systems**

- **Affordable purchase prices**
  - ► MSU based model
  - ► ILC and subscription
  - ► IBM Global Financing offerings

> *"...IBM's data management tool is intuitive and far more easy to use than others..."*

* Prices US List. Subject to change.

IBM...*redefining data management*

Leveraging Information

Core Applications ISV Partnerships

Enterprise Information Integration
IBM Enterprise Information Portal

Content Management
Content Manager

Warehouse Management
DB2 Warehouse Manager

Analysis
DB2 OLAP
DB2 Intelligent Miner

Database Manager

DB2, IMS

Enterprise Management DB2 UDB Control Center *...DM Tools for OS/390...*

OS/390 OS/400 AIX Solaris HP-UX NUMA-Q Linux OS/2 Windows

IMS Tools

Administration (cont)
- ► IMS High Performance Pointer Checker
- ► IMS High Performance Prefix Resolution
- ► IMS Sequential Randomizer Generator

Administration
- ► IMS High Performance Load
- ► IMS High Performance Unoad
- ► IMS Index Builder
- ► IMS Fast Path Basic Tools
- ► IMS Fast Path Online Tools
- ► IMS ETO Support
- ► IMS Library Management
- ► IMS Advanced ACB Generator
- ► IMS DB Repair Facility
- ► IMS HD Compression -Extended

Manage Automate Monitor Tune...

IBM

IMS Tools (cont)

- **Application Management**
  - ► IMS Program Restart Facility
  - ► IMS Connect

- **Database Recovery and Replication Management**
  - – IMS DEDB Fast Recover
  - – IMS Image Copy Extensions
  - – IMS Recovery Saver
  - – IMS DataBase Recovery Control Facility

- **Database Performance Management**
  - – IMS Performance Analyzer
  - – IMS Queue Control Facility

Manage Automate Monitor Tune...

DB2 UDB for OS/390 Tools

- **Administration**
  - ▶ DB2 Administration Tool
  - ▶ DB2 Forms
  - ▶ DB2 High Performance Unload
  - ▶ DB2 Automation Tool
  - ▶ DB2 Log Analysis Tool
- **Performance Management**
  - ▶ DB2 Performance Monitor
  - ▶ DB2 SQL Performance Analyzer

- **Recovery/replication Management**
  - ▶ DB2 DataPropagator
  - ▶ DB2 Recovery Manager
  - ▶ DB2 Row Archive Manager
- **Application Management**
  - ▶ DB2 Bind Manager
  - ▶ DB2 Web Query Tool

Manage Automate Monitor Tune...

Administration...
IMS

- **IMS High Performance Load**
  - ► Provides rapid loading of IMS databases
  - ► New news:
    - – High performance reorg reload procedures of IMS HD databases
    - – Parameter optimization for high performance processing and ease-of-use
- **IMS High Performance Unload V1**
  - ► Provides rapid unload of IMS databases
  - ► New news:
    - – Unloading of a partition, sequence of partitions, or the whole partitions of a PHDAM or PHIDAM database
    - – Dynamic allocation of all databases
    - – Support of the migration unload to HALDB and fallback unload from HALDB
- **IMS High Performance Pointer Checker**
  - ► Helps ensure database pointers are error free and indicates need for database reorg
  - ► New news:
    - – Reports space utilization, detects and reports physical and logical pointer problems

Administration...
IMS...

- **IMS High Performance Prefix Resolution V1**
  - ▶ Resolves Pointers for Logical relationships
  - ▶ New news;
    - – Now uses BatchPipes to eliminate intermediate Work File 2 (WF2)
- **IMS Index Builder V2**
  - ▶ Builds Primary and Secondary Indexes
  - ▶ New news:
    - – Builds Primary and Secondary in single pass
    - – DBRC noticication Support
- **IMS Fast Path Basic Tools V1**
  - ▶ Analyze, maintain, tune and migrate Fast Path DEDBs offline
  - ▶ New news:
    - – SDEPs now supported for load and unload
- **IMS Fast Path Online Tools V1**
  - ▶ Online Pointer Checker support
  - ▶ Online Data Extract
  - ▶ Pointer Checker output cn be used by IMS Fast Path Online Reorg Utility

New

Administration...
IMS...

- **IMS Database Repair Facility**
  - ▶ Interactivly repairs VSAM and OSAM databases
  - ▶ ISPF front end
- **IMS Sequential Randomizer Generator**
  - ▶ Creates Randomizer which enables the user to access HDAM and DEDBdatabase segments either directly or sequentially
- **IMS Library Management Utilities**
  - ▶ Utilities tohelp manage IMS ACB, PSB and DBD libraries
  - ▶ Includes Compare, Mapper and Reversal tools
- **IMS Advanced ACB Generator V1**
  - ▶ High speed generation for users with large number of ACBs
- **IMS ETO Support V2**
  - ▶ Provides a front end for the IMS Extended Terminal Option (ETO) to
  - ▶ help manage, implement, customize and exploit ETO
- **IMS Hardware Compression - Extended**
  - ▶ Helps to exploit OS/390 Hardware Data Compression

New

Performance Management...
IMS

- **IMS Performance Analyzer**
  - ▶ Provides a wide varity of reports that can help the user shorten Transaction response times and increase resource availability
  - ▶ New news:
    - – Additional Fast Path support added for IMS Version 7

- **IMS Queue Control Facility**
  - ▶ Provides help for the user in managing all aspects of the IMS Queue
    - – Ability to Query, Browse and unload input/output which is flooding the queue
    - – Ability to save unloaded data for additional processing and possible reloading after fixing a problem
  - ▶ Look(Browse) and Remove(Unload) specific Queue entries

New

Recovery & Replication Management...
IMS

- **IMS DEDB Fast Recovery**
  - ►Assists technical support personel in the operation and maintenance of data integrity of IMS Fast Path databases

- **IMS Recovery Saver**
  - ►Gives the user the ability to recover IMS full function databases to any time without requireing the existence of an IMS recovery point

- **IMS Image Copy Extensions**
  - ►Allows the user to compress output and do HASH pointer checking on Fast Path and full function IMS Databases

- **IMS Database Integrity Control Facility**
  - ►Provides a complete interface to DBRC via ISPF panels

Application Management...
IMS

- **IMS Program Restart Facility**
  - ► Helps the user correctly restart abended IMS batch and BMP jobs that take advantage of the IMS Extended Restart Facility
  - ► Job can be restarted on any IMS in the Sysplex

- **IMS Connect**
  - ► Provides enhanced IMS TCP/IP support
  - ► SMP Installable
  - ► Persistent sockets and bottleneck relief for improved performance

New

New

Key product availabilities

September
- ► DB2 Administration for OS/390 V2
- ► IMS Performance Analyzer V2
- ► IMS Recovery Saver Version V2
- ► IMS Program Restart Facility V2
- ► IMS ETO Support for OS/390 V2
- ► IMS HDCompression for OS/390 V2

October
- ► DB2 Data Propagator for OS/390 V2
- ► IMS Connect V1

November
- ► DB2 Row Archive Manager for OS/390 V1
- ► IMS Queue Control Facility for V1
- ► IMS DEDB Fast Recovery V7
- ► IMS Fastpath Online Tools V1
- ► IMS DB Integrity Control Facility V7

December
- ► DB2 Performance Monitor for OS/390 V7
- ► DB2 Automation Tool for OS/390 V1
- ► DB2 Log Analysis Tool for OS/390 V1
- ► DB2 SQL Performance Analyzer for OS/390 V1
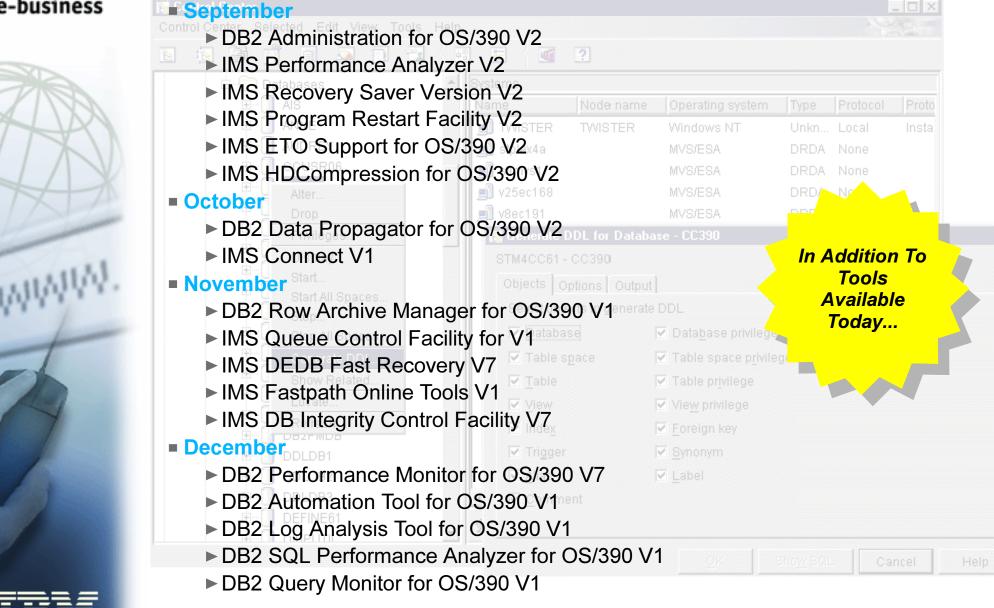- ► DB2 Query Monitor for OS/390 V1

In Addition To Tools Available Today...

IMS Tools Futures

- Full Function Tools
  - ► Single Task Parallel ReOrg
  - ► Online ReOrg
  - ► Control Suite Useability *
  - ► MFS Tool
  - ► Enhanced Change Accum *
  - ► High Performance I/O
  - ► Recovery Management *

IMS Tools Futures

■ Fast Path Tools
  ► **DEDB support in DB Repair**
  ► **Space Extender Tool**
  ► **Enhanced Change Accum**
  ► **Control Suite useability**
  ► **Recovery Management**

IMS Tools Futures

- **Transaction Monitor Tools**
  - ► Queue Management Tools
  - ► Extend Monitoring Function
  - ► Sysgen Management
  - ► IMS Tools for Sysplex