



IBM Software Group

# DB2 Universal Database Express

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**DB2** Information Management Software



 business on demand software


# Frequently Asked Questions

- ▶ What is DB2 UDB Express?
- ▶ What is the difference between DB2 UDB Express and DB2 UDB Workgroup?
- ▶ How much does it cost?
- ▶ What is the difference between named and concurrent users?
- ▶ What support is available for DB2 UDB Express?
- ▶ Is there a community for DB2 UDB Express?
- ▶ Can I embed DB2 UDB Express in my application?
- ▶ Can I upgrade from Express to Workgroup or ESE if my application grows?
- ▶ Can I get a trial version of DB2 UDB Express?
- ▶ Is there a developer's edition of DB2 UDB Express?
- ▶ What does it take to administer and manage DB2 UDB Express once it has been installed? Are there any tools available to help me?
- ▶ How easy is it to use DB2 UDB Express with MS Visual Studio?
- ▶ Is there support available to help me port my existing application to DB2 UDB Express from my current database?
- ▶ How do I buy DB2 UDB Express?
- ▶ Can I automate the initial setup and ongoing maintenance of DB2 UDB Express?



# DB2 UDB Express – Low Cost Entry Point into DB2

- Easy to install and deploy: Faster time to value
- Affordable
- Avoids customer lock in with a vendor
- Scalable on Demand
- Protects your existing investment
- Development environment integration
- <\$600 entry point
- Top 5 Reasons to Buy Over Competition:
  1. Best price and TCO
  2. Better Support (Skills, availability and cost)
  3. Full Function Database
  4. Better Partner Programs, ability for partners to make money, and we do not compete with our partners
  5. Open Standards and platforms (Linux)



10 User Example	IBM DB2 UDB Express	Oracle SE One	MS SQL Standard Edition
License Policy	per user (max. 2 CPUs)	per user (max. 2 CPUs)	per user (max. 4 CPUs)
License*	\$499 base + \$990 for 10 users (\$99/user) = <b>\$1489</b>	\$745 base + \$745 for 5 users (\$145/user) = <b>\$1490</b>	\$667 base + \$1460 for 10 users (\$146/user) = <b>\$2127</b>

\*These prices are license only for comparison.



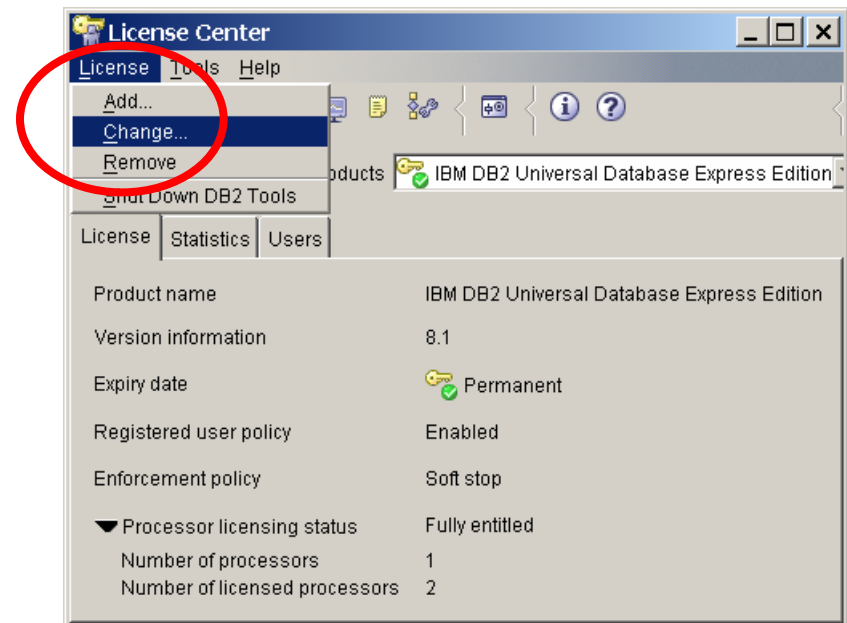
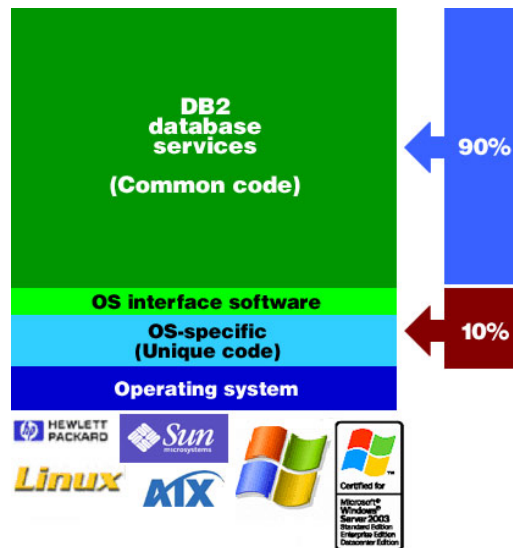
# DB2 UDB Express is the Value Leader

Scenario Pricing	IBM DB2 Express**	MSFT SQL Server 2000** ** MSFT has changed prices on May 29, 03	Oracle SE One 10g
1 User	\$598	\$813	\$745
5 Users	\$994	\$1,397	\$745
10 Users	\$1,489	\$2,127	\$1,490
Unlimited Users (per CPU)	\$3,899	\$4,999	\$4,995
Standard Pricing / Assumptions	Express Edition Pricing - \$499* Server Only - \$99* Per User  * These are license only prices for reference purposes. The PPA prices will vary due to subscription and support, volume discounts, currency / geo translations etc.	Standard Edition Pricing - \$1489 for 5 Named User CAL pack -\$2249 for 10 Named User CAL pack New additional pricing metric (05/29/03) - \$667 per server - \$146 per user	Standard Edition Pricing - \$145 for Named User (Minimum 5 users per CPU)
Software Maintenance a significant cost factor for total cost of software ownership over five year period(Fixes, Upgrades and telephone support)	25% for first year + 25% for subsequent years on base license fee (consistent across all SWG offerings)	25% on base license fee + telephone support at per incidence basis, provided by MSFT business partners (starts at \$9,000 for ten incidence pack), could be open ended additional cost	22.5% on base license fee
Limitations	Server = Max. 2 CPUs per Server	Server = Max. 4 CPUs per Server	Server = Max. 2 CPU per Server

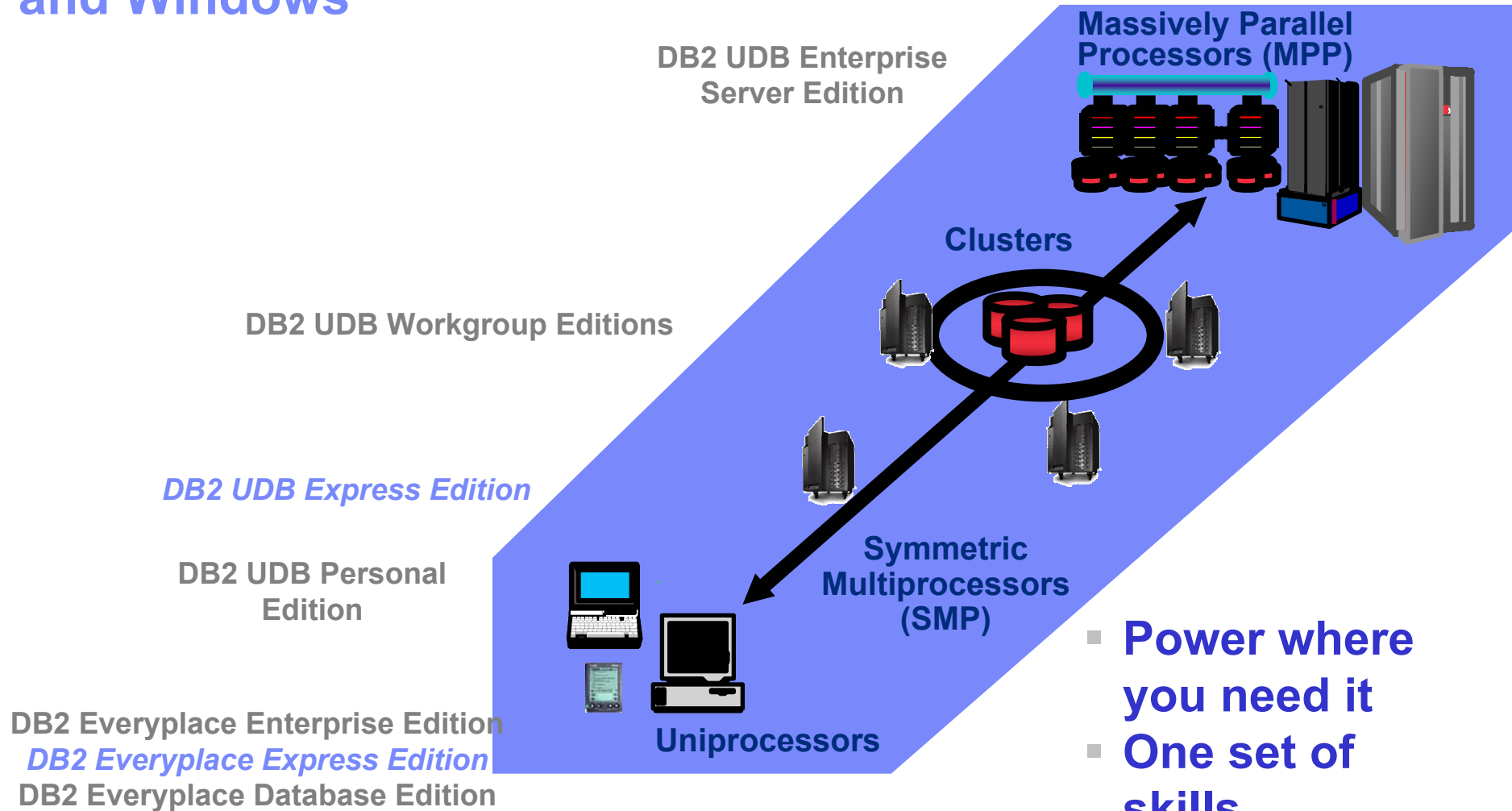


# Scalable On Demand

- Same codebase as the rest of DB2 UDB V8.1 for Windows, Linux and Unix
- An application written for any edition of DB2 UDB is transparently portable to another edition on any distributed platform
- As business grows, so can the underlying database
- Just upgrade the license key
- "...everything works without touching a single line (either code or configuration)." Blair Hankins, Chief Technology Officer, Ascendant Technology, Inc.



# DB2 UDB Database Server Offerings for Linux, Unix and Windows



## DB2 Express:

- DB2 Express is functionally equivalent to DB2 WSE
- Supports Windows and Linux
- It includes:
  - ▶ The same tools and management facilities found in WSE and ESE.
  - ▶ The same autonomic capabilities found in WSE and ESE
  - ▶ Replication
  - ▶ XML extender
- Like WSE it does not include:
  - ▶ Integrated mainframe connectivity (via the DB2 Connect component). However they can coexist and work together
  - ▶ Query patroller
  - ▶ Support for 64-bit computing
  - ▶ Support for DB2 Data Links File Manager
  - ▶ Spatial or Audio, Image or Video extenders



# DB2 Express Vs DB2 Workgroup

Attribute Category	Attribute	DB2 WorkGroup (WSE)	DB2 Express	Comments
<b>Target Market</b>	Primary Customer Segment	Departments within Enterprises	SMB (>100 & <1000)	
<b>Applications</b>	Type	Custom or ISV	ISV / OEM primarily, incl. customization by VARs	
<b>Functionality</b>	Code base	Existing	Same as WSE, with install changes	
<b>Routes to Market</b>	Channel	Primarily Direct	Primarily Partner Channel	
	Fulfillment	Passport Advantage (PPA)	PPA and Channel	
<b>Platform</b>	OS Supported	Multiplatform (Linux, UNIX and Windows)	Choice of Linux or Windows (for Intel)	SMB space is primarily Windows & Linux
<b>Naming</b>	Name	Existing, No change,	"Express" naming	
<b>Packaging</b>	Platforms	All supported OSs in one package	Both Windows & Linux OSs in one package	
	Content	Server, Clients, features, complementary products	Server only	Clients code available as electronic download
	NLVs	ships all supported NLVs within single box	All supported NLVs on Windows or Linux CD	
	CDs	Many CDs (60+)	Minimal CDs (4)	
	Package	Shrink wrapped box	Manila envelope	
<b>Pricing</b>	Client / Server - per user model	\$969 (base - server + first user), Additional "Concurrent" user at \$249	\$ 499 (base server only), plus each "named" user at \$99	New named user pricing, to align with typical Partner's business model
	Licensing	Concurrent	Named	
	Other T&Cs	Existing, No change <= 4 CPUs, 32 bits etc.	<= 2 CPUs, 32 bits etc.	
<b>Upgrade Path</b>		==> WSUE ==> ESE	==> WSE/WSUE ==> ESE	Similar





# DB2 UDB Version 8.1

# \$99 Per User

One CD  
5 minute install  
Easy to Use

**Autonomic**  
**Development Freedom**  
**Best Price Performance**

DB2 UDB Express  
\$99 per user or \$3899 per processor  
First class database...outstanding value

**DB2** Information Management Software

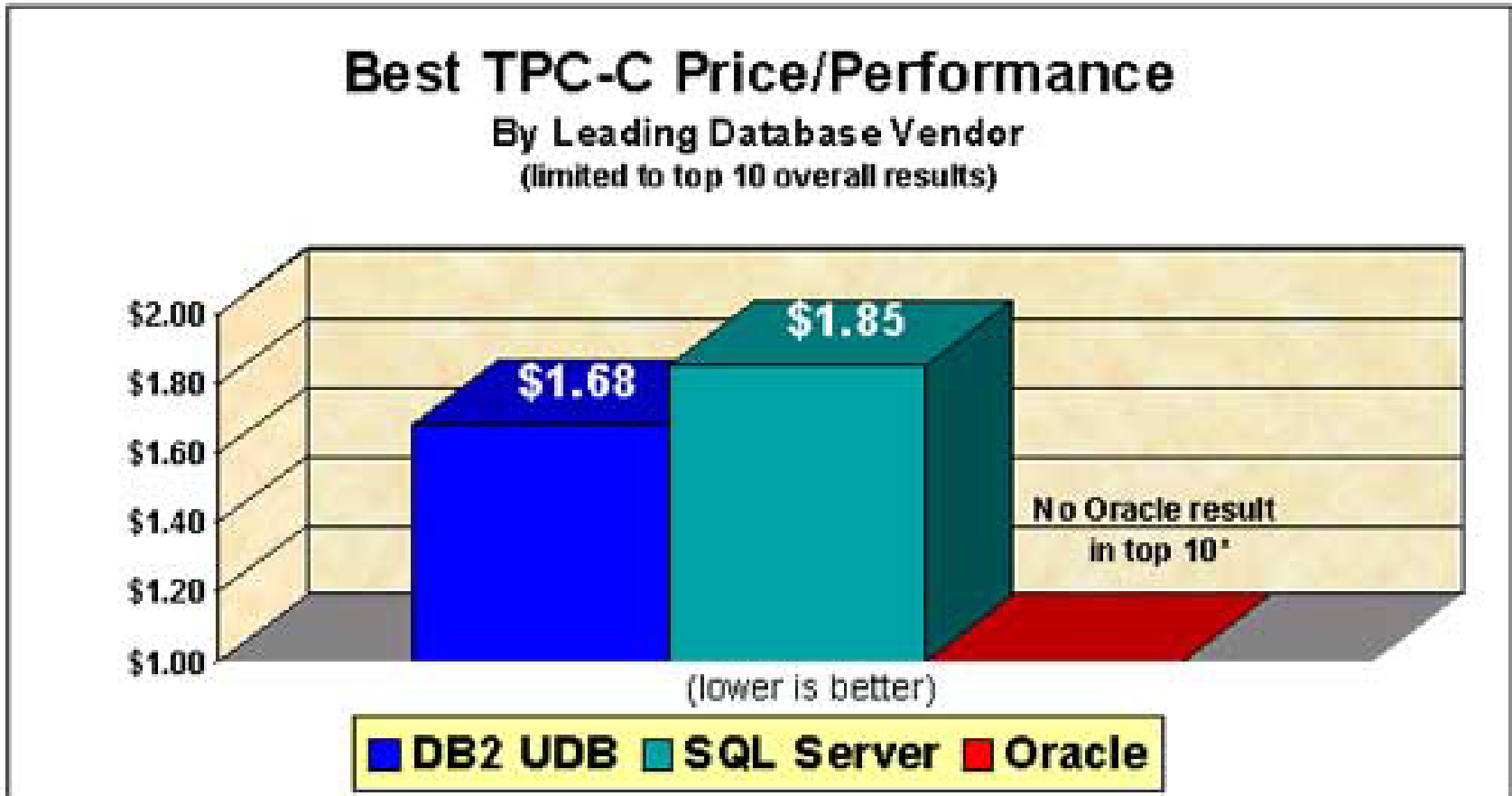
Want even more?  
Stinger technology Preview:  
[www.ibm.com/DB2/stinger](http://www.ibm.com/DB2/stinger)

## Performance and Scalability Leadership

- Value - Best Price Performance – DB2 UDB Express
  - ▶ 18,318 Transactions Per Minute
  - ▶ \$1.68 per Transaction
  - ▶ Single CPU Intel Xeon machine
  - ▶ Best Oracle result was ranked #38 at time of publication in overall price/performance
- Scalability - Best Performance
  - ▶ 1,025,486 Transactions Per Minute
  - ▶ 32,046 Transactions Per Minute Per CPU
  - ▶ \$5.43 per Transaction
  - ▶ IBM eServer pSeries 690 Model 7040-681

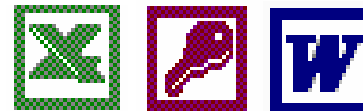


# Best Price Performance



# Application Development Freedom

- C/C++ (ODBC and Static SQL)
- JDBC and SQLJ
- Borland
- Python
- PHP
- Perl
- .net languages
- OLE-DB
- ADO
- Web Services
- SQL
- MS Office: Excel, Access, Word



IBM® DB2 Universal Database™  
SQL Reference

for Cross-Platform Development

<http://www7b.software.ibm.com/dmdd/library/techarticle/0206sqlref/0206sqlref.html>



# Virtual Innovation Center

## ■ Reaction

- ▶ Over 1500 companies registered for DB2 Express
- ▶ Over 95% Service the SMB Market

## ■ Web Based Self Help Model

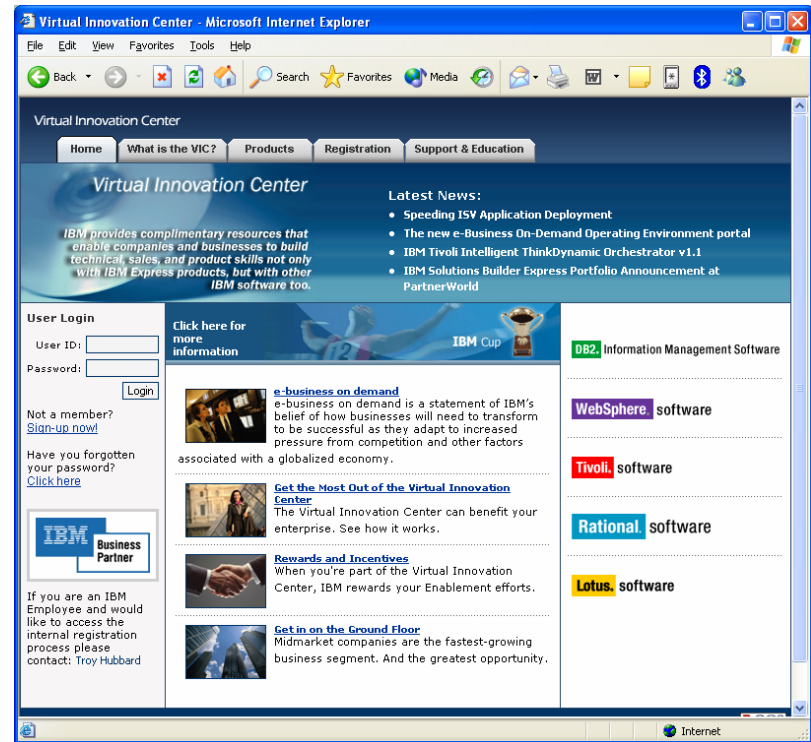
- ▶ **Developer's Edition or License**
- ▶ Enable SMB BPs
- ▶ On-line, self help and @ no cost
- ▶ No prior membership requirements
- ▶ In cooperation w/ WebSphere & Tivoli

## ■ Education (on-line)

- ▶ At BP time & place of choice
- ▶ Technical, Marketing & Sales
- ▶ e-Mentoring
- ▶ Sales Aids, News letters

## ■ Support (on-line)

- ▶ Porting Assistance
- ▶ 1-on-1 Technical Experts Available
- ▶ FAQs, White Papers, Case Studies
- ▶ Hints and Tips, Forums, Discussion Groups



*A New Enablement Model for SMB BP's*

# Migration Workshop

- **Designed for BPs**
  - ▶ Prior PartnerWorld membership required
  - ▶ Assumes BP is new to DB2
  - ▶ BP brings own application
- **Registration:** [www.developer.ibm.com/spc/events/db2\\_apps.html](http://www.developer.ibm.com/spc/events/db2_apps.html)
- **No charge for the workshop (BPs pays T&L)**
- **Course highlights**
  - ▶ Introduction to DB2 and WebSphere Application Server integration
  - ▶ DB2 fundamentals education
  - ▶ DDL and data extraction and deployment
  - ▶ DB2 SQL procedural language
  - ▶ Migrating stored procedures, triggers, and UDFs
- **Experience:**
  - ▶ In some cases (depending on application complexity), attendees have been able to completely migrate their own application within the 5 day period



# Autonomic Manageability

## Less Skill, Less Resource, Better System Utilization

### DB2 UDB Express

- **Provide Automated Expert Advice**

- ▶ Configuration and Design Advisor
- ▶ Health Monitor

- **“Built-in” Automation**

- ▶ Automated Maintenance
- ▶ Optimization, Parallelism and More

- **Setup and Configuration**

- ▶ Configuration Assistant
- ▶ Numerous Wizards



**“We would have needed three times that many DBAs, at least, to run Oracle”**

CIO, GetRelevant,  
BusinessWeek Online ( Nov, 01)

## Health Monitoring

- **Why?**
  - ▶ how do you know if DB2 is running okay, performing well?
  - ▶ what if you manage to figure out it's "unhealthy", then what?
  - ▶ too difficult to determine what to monitor and when to monitor it
  - ▶ need to set up monitors, notification, & resolution mechanisms
- **Management-by-exception model:**
  - ▶ DB2 monitors its own health right out of the box
  - ▶ notifies upon encountering unhealthy conditions: e-mail, page, logs
  - ▶ advises on severity of condition, and suggests resolutions
  - ▶ initiates corrective action if required, requested
  - ▶ Recommend Advisor – guides user on how to fix problems **(NEW)**
- **An Up-and-Running Dream!!**
  - ▶ install DB2, provide an e-mail or pager address, "db2start"





# Health Monitor: interfaces

Health Center Selected Edit View Tools Help

Alerts - ARTISAN

Data Element	Value	Category
ARTISAN.SALES		
Alarm		
Database-wide Shared Sort Memory Utilization	95	Sorting

All Alerts

Choose instance > Home > Current Alerts

Sort by: Timestamp | Alert Type

Alert Type : ALARM  
 Health Indicator : Database wide shared sort memory utilisation  
 Time stamp : 7/17/2001 08:00

Alert Type : WARNING  
 Health Indicator : Container One short of space  
 Time stamp : 7/17/2001 08:00

Health Center Command Center IBM

UserID : Administrator Instance : Artisan [Details] Change Instance Signoff Help

Choose Instance > Current Alerts

Alert Type	Health Indicator	Value	Category	Object Name	Partition	Object Type	Time Stamp	Refresh
Alarm	<a href="#">Database wide shared sort memory utilisation</a>	89%	Memory	Matrix.Artisan	0	Database	7/17/2001 08:00	
Alarm	<a href="#">Container One is running out of space.</a>	96%	File	Matrix.Artisan	0	Database	7/17/2001 08:00	
Warning	<a href="#">Container Three is running out of space.</a>	92%	File	Matrix.Artisan	0	Database	7/17/2001 08:00	

```
(horman@healthy) /home/horman $ db2 get health snapshot for DBM

Database Manager Health Snapshot

Node type                = Database Server with local clients
Instance name            = horman
Snapshot timestamp       = 03-27-2002 13:24:51.799180

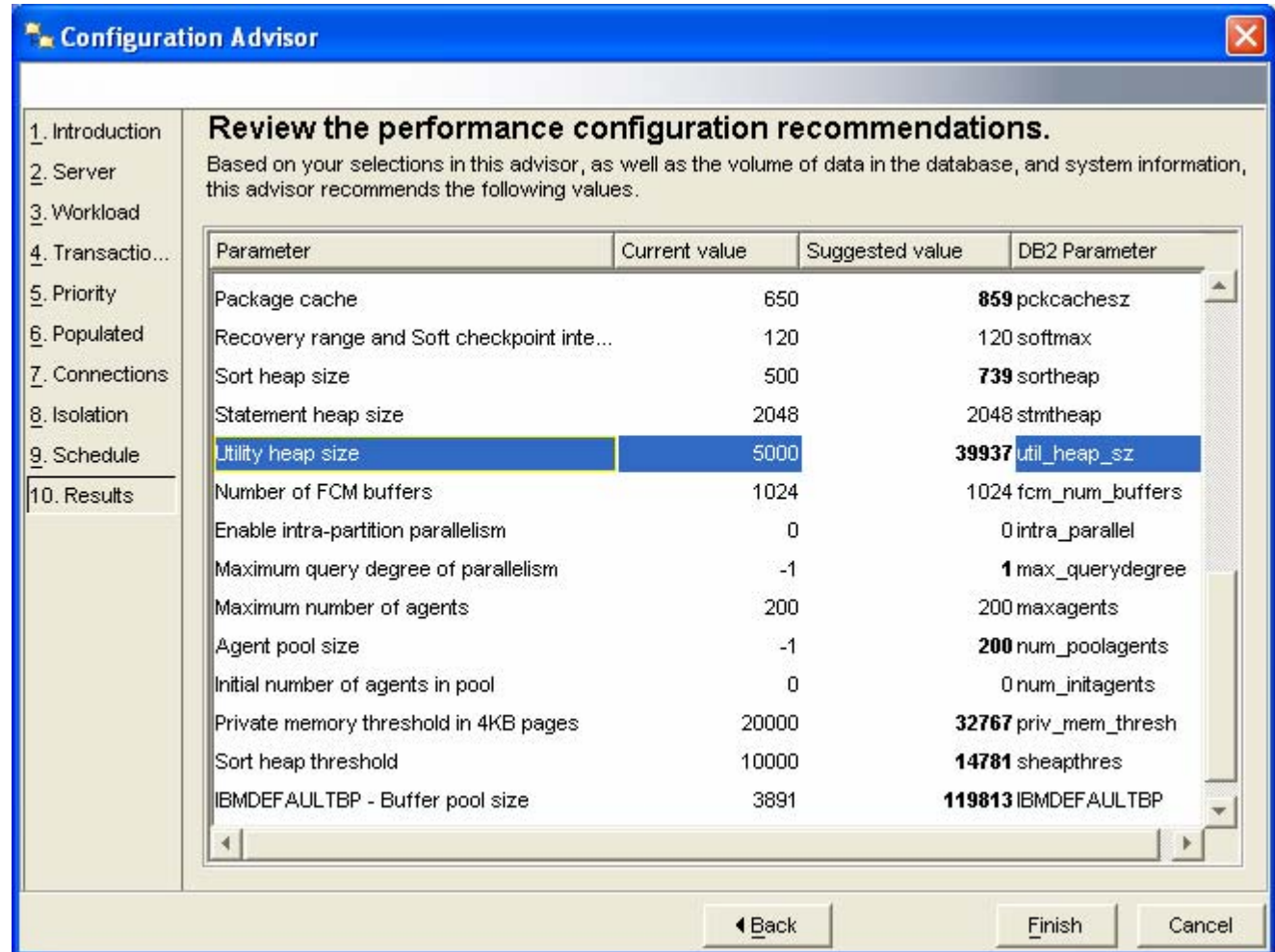
Database Manager Health Indicators:

Health Indicator ID      = 2 (db2.sort_privmem_util)
Value                    = 86
Evaluation timestamp     = 03-27-2002 13:20:07.910561
Alert state              = warning
```



# Configuration Advisor

- Recommends database configuration based on environment and type of database.
- Can be embedded as part of the installation



**Configuration Advisor**

**Review the performance configuration recommendations.**

Based on your selections in this advisor, as well as the volume of data in the database, and system information, this advisor recommends the following values.

Parameter	Current value	Suggested value	DB2 Parameter
Package cache	650	<b>859</b>	pckcachesz
Recovery range and Soft checkpoint inte...	120	120	softmax
Sort heap size	500	<b>739</b>	sortheap
Statement heap size	2048	2048	strmheap
<b>Utility heap size</b>	<b>5000</b>	<b>39937</b>	<b>util_heap_sz</b>
Number of FCM buffers	1024	1024	fcm_num_buffers
Enable intra-partition parallelism	0	0	intra_parallel
Maximum query degree of parallelism	-1	<b>1</b>	max_querydegree
Maximum number of agents	200	200	maxagents
Agent pool size	-1	<b>200</b>	num_poolagents
Initial number of agents in pool	0	0	num_initagents
Private memory threshold in 4KB pages	20000	<b>32767</b>	priv_mem_thresh
Sort heap threshold	10000	<b>14781</b>	sheapthres
IBMDEFAULTBP - Buffer pool size	3891	<b>119813</b>	IBMDEFAULTBP

Navigation buttons: Back, Finish, Cancel

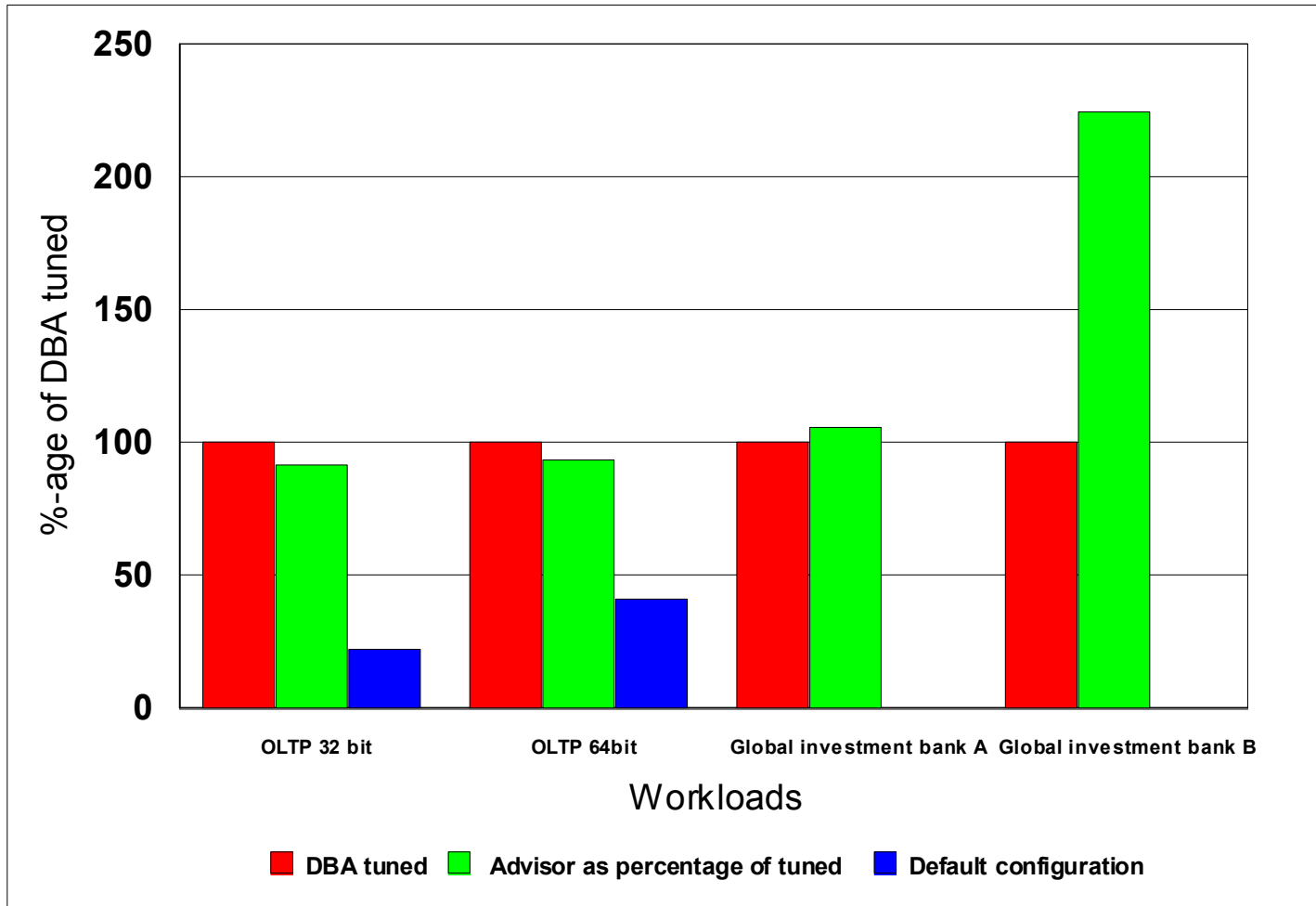
# Configuration Advisor: automatic environment detection

- System Information
  - number of physical disks
  - physical memory size (RAM)
  - CPU information
    - number of online CPU
    - number of configured CPU
  - OS features
    - OS type and release (OS2, Windows, NT, Unix etc)
- Database Information
  - size of database
  - number of tables
  - number of indexes
  - number of tablespaces
- Bufferpool Information
  - name, size for each bufferpool
  - number of bufferpools

**Self-  
managing  
software  
senses  
its own  
execution  
environment**



# Configuration Advisor Experimental Results

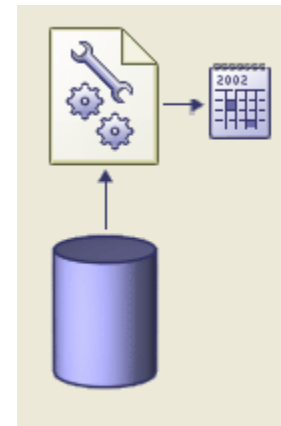


# Stinger – Automatic Maintenance



- Define periods of low or no activity for the database
- Choose maintenance activities for DB2 to handle automatically
- Choose people to be notified if automatic maintenance is unsuccessful
- DB2 will determine if maintenance is required
- If it is necessary it will be performed in the next available maintenance window

Database: KOHLMANN - DB2 - SAMPLE  
Maintenance: Fully automated



# Stinger – Automatic Maintenance Advanced Settings

- Specify backup priorities
- Define Backup location
- Online or offline
- Specify tables for Runstats and Reorg

[Configure Settings...](#)

Optimize for database recoverability (more frequent backups)  
 Balance database recoverability with performance  
 Optimize for database performance (less frequent backups)  
 Customize

---

Criteria details

Maximum time between backups	1 Week
Maximum log space used between backups	15 MB

Selected tables

Use the simple filter

Attribute	Comparison	Values
SCHEMA <input type="button" value="v"/>	Like <input type="button" value="v"/>	KOHLMANN
<Select> <input type="button" value="v"/>	Like <input type="button" value="v"/>	
<Select> <input type="button" value="v"/>	Like <input type="button" value="v"/>	

Meet all conditions  
 Meet any conditions

Resulting tables (SCHEMA.NAME)

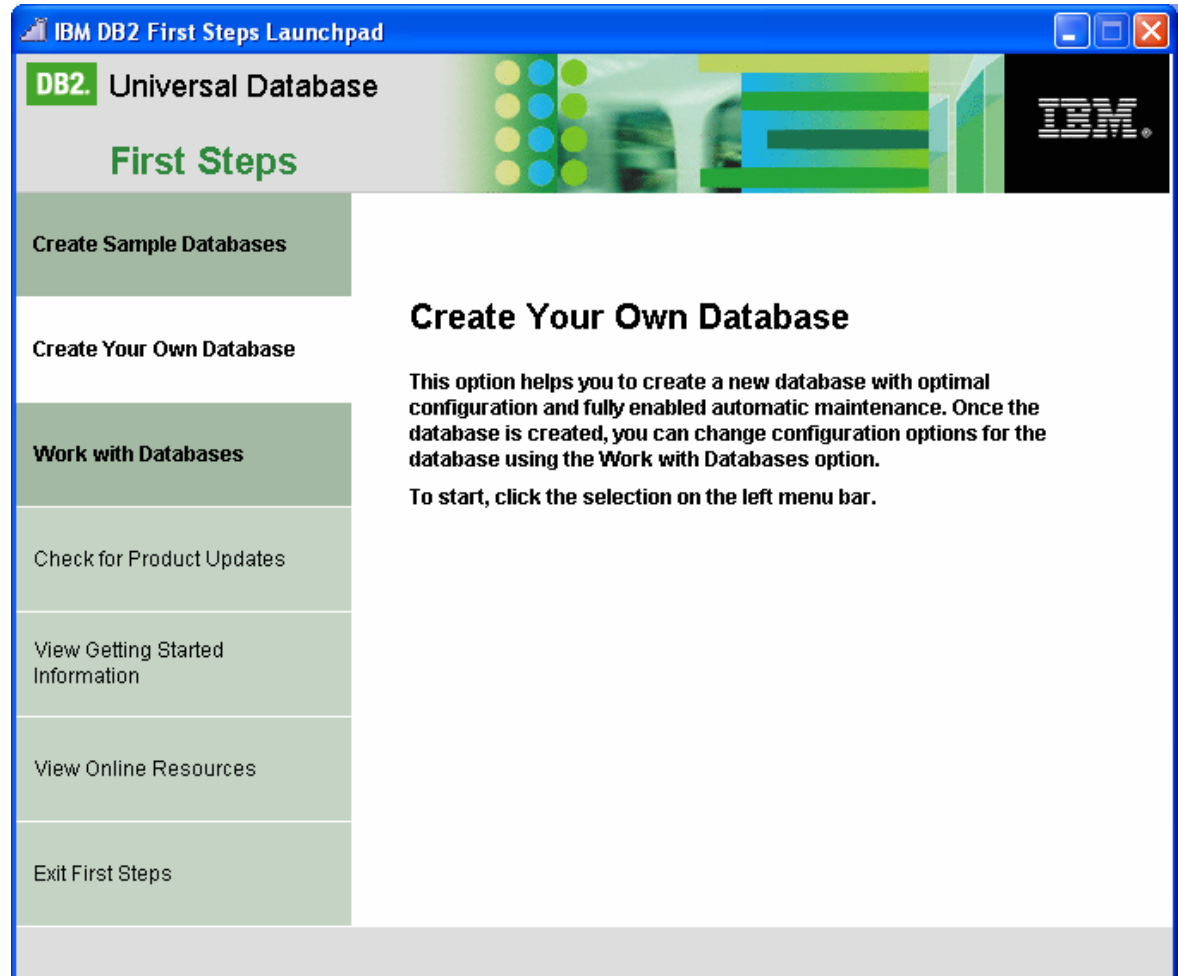
- KOHLMANN.ADVISE\_INDEX
- KOHLMANN.ADVISE\_INSTANCE
- KOHLMANN.ADVISE\_MQT
- KOHLMANN.ADVISE\_PARTITION
- KOHLMANN.ADVISE\_TABLE
- KOHLMANN.ADVISE\_WORKLOAD
- KOHLMANN.CL\_SCHED
- KOHLMANN.DEPARTMENT





# Stinger - Create Your Own Database

- Creates a new database on the disk or directory of your choice
- Assigns disk space for your data
- Configures the new database for performance
- Turns on automatic maintenance
- Configures notification by e-mail or pager if the database needs attention



IBM DB2 First Steps Launchpad

DB2. Universal Database

First Steps

Create Sample Databases

Create Your Own Database

Work with Databases

Check for Product Updates

View Getting Started Information

View Online Resources

Exit First Steps

## Create Your Own Database



This option helps you to create a new database with optimal configuration and fully enabled automatic maintenance. Once the database is created, you can change configuration options for the database using the Work with Databases option.

To start, click the selection on the left menu bar.











# Stinger – Simplified Database Status View



- Integrated status and quick actions
- Simplified Health, Maintenance, Storage and Backup status
- Part of a redesign of the Control Center

 **Database - SAMPLE**
 [Help](#)

---

<p>Alias name : SAMPLE</p> <p>System : DB2NTSMP7</p> <p>Type : Local</p> <p><b>Actions:</b></p> <ul style="list-style-type: none"> <li> <a href="#">Application List</a></li> <li> <a href="#">Design Advisor</a></li> <li> <a href="#">Activity Monitor</a></li> <li> <a href="#">Create New Database</a></li> </ul>	<p>Status as of: <b>03/09/18 14:21</b>  <a href="#">Refresh</a></p> <hr/> <p>DBM State: <b>Started</b>  <a href="#">Stop</a></p> <hr/> <p>Last Backup: <b>03/09/18 14:21</b>  <a href="#">Backup Database</a></p> <hr/> <p>DB Size: <b>30 MB</b>  <a href="#">Manage Storage</a></p> <p>Capacity: <b>250 MB</b></p> <div style="display: flex; align-items: center;"> <div style="width: 60px; height: 15px; background: linear-gradient(to right, blue, white);"></div> <span>11%</span> </div> <hr/> <p>Health: <span style="color: red; font-weight: bold;">●</span> <b>Alarm</b>  <a href="#">Monitor DB Health</a></p> <hr/> <p>Maintenance: <b>All Automatic</b>  <a href="#">Maintenance</a></p>
--	--





# DB2 Information Center

- New Information Center designed for Stinger is **available today**
- Based on the Eclipse Help System
- [publib.boulder.ibm.com/infocenter/db2help](http://publib.boulder.ibm.com/infocenter/db2help)
- Will be included with Stinger for intranet installation

The screenshot displays the DB2 Information Center interface. At the top, the header includes the IBM logo, the text "DB2 Information Management Software", and "Information center". Below the header is a search bar containing the text "DAS mail notification" and a "GO" button, along with a link to "Advanced Search".

The main content area is divided into two panes:

- Contents:** A tree view on the left side showing a hierarchy of topics. The "Tasks" folder is expanded, showing sub-topics such as "Migrating to Version 8", "Installing DB2 clients and servers", "Configuring DB2 clients and servers", "Removing DB2 clients and servers", "Administering database systems" (with sub-items like "Starting DB2", "Stopping DB2", "Creating instances", "Managing instances", "Creating a database", "Managing database systems", "Managing transactions"), and "Managing transactions".
- Tasks:** The right pane displays the selected topic, "Notification and contact list setup and configuration." It includes a "Procedure" section with the following text:

There are two DAS configuration parameters used to enable notifications by the scheduler or the Health Monitor.

The DAS configuration parameter *smtp\_server* is used to identify the Simple Mail Transfer Protocol (SMTP) server used by the scheduler to send e-mail and pager notifications as part of task execution completion actions as defined through the Task Center, or by the Health Monitor to send alert notifications via e-mail or pager.

The DAS configuration parameter *contact\_host* specifies the location where the contact information used by the scheduler and health monitor for notification is stored. The location is defined to be a DB2 administration server's TCP/IP hostname. Allowing *contact\_host* to be located on a remote DAS provides support for sharing a contact list across multiple DB2 administration servers. This should be set for

# Google Support

- Google searches the DB2 UDB Technical Library
- Look for search results from the “/infocenter/”
- Search is also possible through the DB2 News Groups

Google Search: db2 add contact - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites Media Print

Address <http://www.google.ca/search?q=db2+add+contact&hl=en&ie=UTF-8&oe=UTF-8>

Google [Advanced Search](#) [Preferences](#) [Language Tools](#) [Search Tips](#)

db2 add contact

Search:  the web  pages from Canada

**Web** [Images](#) [Groups](#) [Directory](#) [News](#)

Searched the web for **db2 add contact**. Results 1 - 10 of about 191

**ADD CONTACT Command**

... By default the **contact** will be **added** in the local system, unless the **DB2** administration server configuration parameter **contact\_host** points to another system. ...

as400bks.rocheste [ibm.com/infocenter/db2help/ topic/...](http://ibm.com/infocenter/db2help/ topic/...) [ibm.db2.udb.doc/core/r0008749.htm](http://ibm.db2.udb.doc/core/r0008749.htm) - 5k - (

[www.ibm.com/software/data/db2/udb/db2express](http://www.ibm.com/software/data/db2/udb/db2express)

## DB2 UDB Express Edition for Linux and Windows

DB2. Information Management Software



DB2 Universal Database Express Edition  
The **lowest priced** full function relational database



Announcing:

DB2 UDB Express Edition

### IBM DB2 Universal Database Express Edition V8.1

IBM DB2 Universal Database Express Edition is the lowest priced full function relational database. Designed to meet the needs of small and medium businesses, DB2 UDB Express Edition features self-tuning and self-configuring capabilities for ease of manageability, Linux® or Windows® platform choices, and support for transparent installation with business partner applications.

#### Accelerated Time to Value

DB2 UDB Express Edition supports popular integrated development environments, is easy to integrate and administer. It is designed and priced specifically to reduce the total cost of ownership for small and medium-size businesses.

DB2 UDB Express Edition continues to reflect the outstanding price/performance ratio that have helped drive the adoption of IBM's DB2 UDB family by over 400,000 companies and 16,000 IBM Business Partners. DB2 UDB Express Edition is priced to offer the value today's SMB market demands. All from IBM, the

#### Featured items

- [DB2 UDB: New TPC-C Price/Performance Record](#)
- [Try DB2 UDB Express now!](#)
- [DB2 UDB Express Edition V8.1 Spec Sheet](#)
- [DB2 UDB Express Edition, More Details](#)
- [What business partners say about DB2 UDB Express](#)



# www.ibm.com/developerworks/db2

developerWorks >

developerWorks.

## DB2®

Technical resources for DB2 information management software

### Top story

Updated 15 April 2004



### Tutorial: Accessing DB2 Everyplace using J2ME devices

Learn how to develop a mobile app using DB2 Everyplace and J2ME in part 1 of this tutorial. [More >](#)

### Fast path to DB2

#### Products

#### Technologies

#### Development tools

- [DB2 Universal Database](#)
- [Porting to DB2 UDB](#)
- [Sample code](#)
- [Informix](#)
- [DB2 Everyplace](#)
- [DB2 Information Integration](#)
- [DB2 Business Intelligence](#)
- [DB2 Content Management](#)

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- [Complimentary DB2 Certification at the IBM Content Management and WebSphere Portal Technical conference](#)
- [Get the latest DB2, Lotus, Rational, Tivoli, and WebSphere trial code from IBM on DVD !](#)
- [Create strategic advantage: The IBM Software Development Platform](#)

#### New content

##### [Modeling a DB2 database using Rational XDE Developer for Java](#)

This article shows you how easy it is to generate a model for a database, based on the DB2 Sample database. By the end of this article you will see how to model the DB2 Sample database and some of its objects. We will also show you how to generate the DDL scripts from the completed model and how you can use these scripts to create the final DB2 database.

##### [Installation viewlets for Content Manager V8.2](#)

These downloadable files are screen captures of DB2 Content Manager version 8.2 installations presented as Viewlets. You may download the appropriate viewlet and create the installation process step-by-step.

##### [A look at the new functions coming in Stinger](#)

Stinger is the next release of DB2 UDB, and it's chock full of new features that cut the time-to-value for your on demand solutions.



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