Informix Dynamic Server.2000

Achieve optimal performance for your mission-critical OLTP applications and for non-traditional data

Product Announcement:
September, 1999

Informix® Dynamic Server™.2000 delivers optimum performance for your mission-critical OLTP applications and is fully extensible to handle non-traditional data types.

Informix Dynamic Server.2000 provides many performance and functional enhancements for Informix Dynamic Server 7.x and 9.x customers who need a reliable, available, and scalable database server for traditional transaction systems or mission-critical applications. It provides many new features, including support for long IDs, triggers on SELECT statements, fuzzy checkpoints, SQL statement caches, Enterprise Replication, and parallel User-Defined Routines (UDRs).

Intended Customers

Ideal customers are current Informix customers deploying OLTP applications, or applications using non-traditional data types.

New customers who need a reliable, scalable and highly-performant OLTP solution, and/or who want the flexibility of being able to add new data types as their data and system needs change.

Highlights

- Major feature and quality-enhancement release.
- The database for OLTP requirements and extensible data types.
- The basis of the Informix Internet Foundation.2000™ Internet application development platform. (See Product Announcement for Foundation.2000.)
- Available on Linux as well as NT and UNIX platforms.

New Product Features and Benefits:

Details on these features can be found in the product documentation and release notes.

Extensibility Enhancements

Informix Dynamic Server.2000 includes the following extensibility enhancements:

Enhancements to the database server:

- Dynamic lock allocation

General SQL enhancements:

- Embedded newline characters in quoted strings
- Nested dot expressions for row types
- Triggers on SELECT statements

Enhancements to smart large objects:

- Round-robin fragmentation for smart large objects
- ALTER TABLE for smart large objects
- Data type conversion: BYTE to BLOB and TEXT to CLOB
- Change characteristics of the sbspace (onspaces -ch)
- Immediate deletion of smart large objects (delete immediate)

Enhancements to collections:

- Collection constructors that use arbitrary expression elements
- Collection-derived tables
- Collection subqueries

Enhancements to row types:

- Serial types in row types
- GRANT/REVOKE UNDER on row types

Enhancements to user-defined routines (UDRs):

- Capability to write user-defined routines in the Java language
- GRANT/REVOKE on UDR external languages
- ALTER FUNCTION/PROCEDURE/ROUTINE statements
- User-defined aggregates

Various new extensions to the DataBlade API
Various new extensions to the ON-Bar™ (Backup and Restore) utility
Enhancements to R-Tree indexes

Performance Improvements

Informix Dynamic Server.2000 includes the following performance improvements:

For the database server:

- Fuzzy checkpoints

For SQL:

- Parallel-statementlocal variables (SLVs)
- SQL statement cache
- Compiled expressions

For smart, large objects:

- Incremental archive support for smart, large objects
- Lightweight I/O for smart, large objects
- Metadata-compaction for smart, large objects
- Byte-range locking for smart, large objects
- Dirty read for smart, large objects

For UDRs:

- Expensive-function optimization
- Parallel UDRs
- User-defined statistics routines
- Support for parallel UDR execution in high-performance loader

For user-defined access methods:

- Parallel scan for Virtual Table Interface (VTI) and Virtual Index Interface (VII)
- Set read/write for VTI and VII

For Enterprise Replication:

- Improved management of storage queues
- Faster processing for large transactions
- Better management to avoid long transactions
- Improvements in the log reader

Special Features

Informix Dynamic Server.2000 includes the following new special features:

Long identifiers:

- 128-character identifiers
- 32-character user names
- Capability to retain update locks

Enterprise Replication

- Updates to the graphical user interface and command-line interface
- Hierarchical routing; direct connections no longer required
- Support for database servers with intermittent connections
- Reduced global catalog available
- New CONNECT and DISCONNECT functions in the Enterprise Replication Manager

Product Compatibility

Informix Dynamic Server.2000 is compatible with all 9.x releases and all 7.X releases through 7.30.

Informix Dynamic Server.2000 supports the following Informix DataBlade® modules:

- Excalibur Text DataBlade Module: 1.20 UC2, 1.30 and above
- Informix Geodetic DataBlade Module: 3.0 and above
- Informix TimeSeries DataBlade Module: 3.30 and above
- Excalibur Image DataBlade Module: 1.11, 1.2 and above
- Informix Web DataBlade Module: 3.32, 4.0, and above

Informix Dynamic Server.2000 is certified with the following Informix products:

- Informix 4GL 6.05, and 7.20, 7.30
- Informix SQL 6.05, and 7.20, 7.30
- Informix Metacube® 4.x
- Informix Data Director™ for Visual Basic 3.5 and above
- Informix Enterprise Gateway Manager 7.2x
- Informix Enterprise Gateway with DRDA® 7.2x and above
- Informix Visionary™ 1.x
- Informix Dynamic 4GL 2.1x and above

Product Requirements

Hardware Requirements

UNIX SERVER

- 64-MB RAM (minimum)
- 200-MB disk space
- CD-ROM drive (may be remote mount) OR tape drive: 4mm DAT or 8mm QIC

NT SERVER

- 32-MB RAM
- 64-MB swap space
- 40-MB disk space
- CD-ROM Drive

PC CLIENT (development system)

- 100-percent IBM-compatible PC
- 486/66 or greater
- 32-MB RAM
- 50-MB disk space
- CD-ROM drive
- VGA monitor

Software Requirements

UNIX SERVER
See the Platform Availability section for certified operating systems.

NT SERVER

- Microsoft Windows NT 4.0 (Service Pack 3 or above)
- TCP/IP
- WinNT File System (NTFS)

PC CLIENT

- Microsoft Windows NT 4.0, Windows 95, or Windows 98
- Microsoft C/C++ compiler version 4.1
- TCP/IP Protocol

Documentation

The following set of hard copy manuals will always be distributed when the Informix Dynamic Server.2000 software bundle is ordered:

- DataBlade Install and Registration Guide 4.0
- DBDK Read Me First v4.0
- Client Prod. Install Guide for UNIX
- Client Prod. Install Guide for Windows
- Getting Started with IDS.2000, V 9.2
- Installation Guide for IDS.2000 v9.2
- Read Me First, v9.2
- Blade Manager Read Me First For UNIX

Each customer automatically receives one free Documentation CD (Answers OnLine™) containing each of the documentation set components.

Hard copy documentation sets can be purchased separately upon request for $800. The following components are included:

- ESQL/J User Guide 1.0
- JDBC Programming Guide 2.0
- JDBC Programming Guide 1.4
- DataBlade Development Overview 4.0
- DBDK User Guide v4.0
- Administrator's Guide/Reference for IDS.2000 Book Set v9.2
- Archive and Backup Guide, v9.2
- DB/Cockpit User's Manual, Version v9.2
- Guide to Informix Enterprise Replication, v9.2
- Guide to the High Performance Loader, v9.2
- Guide to the Optical Subsystem v9.2
- Performance Guide for IDS.2000 v9.2
- Trusted Facility Manual for IDS.2000 v9.2
- ON-Archive Quick Start Guide v9.2
- Informix DataBlade API Programmer's Manual, v9.2 BOOK SET
- Extending IDS.2000 v9.2
- Virtual Index Interface Programmer's Manual, v9.2
- Virtual Table Interface Programmer's Manual, v9.2
- R-Tree Index User's Guide v9.2
- Informix Backup & Restore Guide, Sept. 99
- DB-Access User's Manual, Sept. 99
- Informix Guide to GLS Functionality
- Informix Guide to SQL, August 1999 BOOK SET
- Informix SNMP Subagent Guide, Sept. 99
- Informix Storage Manager Administrator's Guide, Sept. 99
- Informix Migration Guide, Sept. 99
- Large Object Locator DataBlade Module User Guide v1.2

Platform Availability

Informix Dynamic Server.2000 is now, or will soon be available on the following platforms:

Maker/OS Versions	When Available
Solaris 2.5, 2.5.1, 2.6, 7 (32-bit)	Now
Solaris 7 (64-bit)	Feb., 2000
HP-UX 11.0 (32-bit)	Now
HP-UX 11.0 (64-bit)	Now
HP-UX 10.20	Now
SGI IRIX 6.2, 6.4, 6.5	Now
SGI IRIX 6.5 (64-bit)	Early Dec.,1999
IBM AIX 4.2.1, 4.3, 4.3.1 (32-bit)	Now
Windows NT 4.0	Mid Nov., 1999
Linux* Kernel 2.2.x, glibc 2.1.x	Now
SNI Reliant UNIX 5.43C, 5.44A, 5.44B	Now
Compaq/DEC V4.0D, V4.0E, V4.0F	Now
Sequent PTX 4.4.2, 4.4.4	Now

* The Linux port of IDS.2000 does not support SNMP, dbcockpit, or OnArchive.

Language Support:

Informix Dynamic Server.2000 is fully GLS-Level 4 compatible. It will be localized for the following languages:

- European: German, French, Spanish, Russian, Polish, Czech, and Slovak
- Asian: Japanese, Korean, Simplified Chinese, and Traditional Chinese

Ordering and Pricing:

Informix Dynamic Server 7.x customers who have a current maintenance contract are eligible for a free trade-up to Informix Dynamic Server.2000 until August 31, 2000. Informix Dynamic Server with Universal Data Option™ 9.1x customers who have a current maintenance contract are entitled to a free upgrade to Informix Dynamic Server.2000.

Contact your local sales office for details on ordering and pricing.

About Informix

Informix Corporation, based in Menlo Park, California, provides innovative database solutions that assist the world's major corporations attain competitive advantage. Informix is widely recognized as the technology leader for corporate computing environments ranging from small workgroups to very large parallel processing applications. Informix's database server, application development tools, superior customer service, and strong partnerships enable the company to be at the forefront of major information technology solution areas including data warehousing, high-performance OLTP, and Web/e-commerce. For more information, contact the sales office nearest you or visit our Web site at www.informix.com.

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