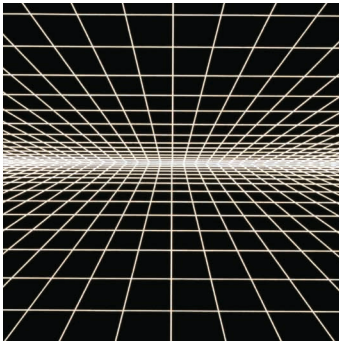


*Informix MaxConnect™ is a connection server, which improves system scalability and performance by increasing the number of users that can simultaneously connect to an Informix database server.*



*In a client/server environment, client connections use system resources on the database server. Hundreds of database client connections use significant amounts of CPU time and considerable system resources, thereby causing poor response times and increased CPU utilization.*

*Informix MaxConnect moves the management of user connections away from the Informix database server by multiplexing client connections to a much smaller number of network connections. This significantly reduces operating requirements on the database server and as a result greatly increases system scalability. It also provides a cost-effective alternative to expensive, disruptive, and time consuming hardware or CPU upgrades.*

*MaxConnect installs transparently without requiring any modifications or code changes to client or server applications.*

### **Improved Scalability and Performance**

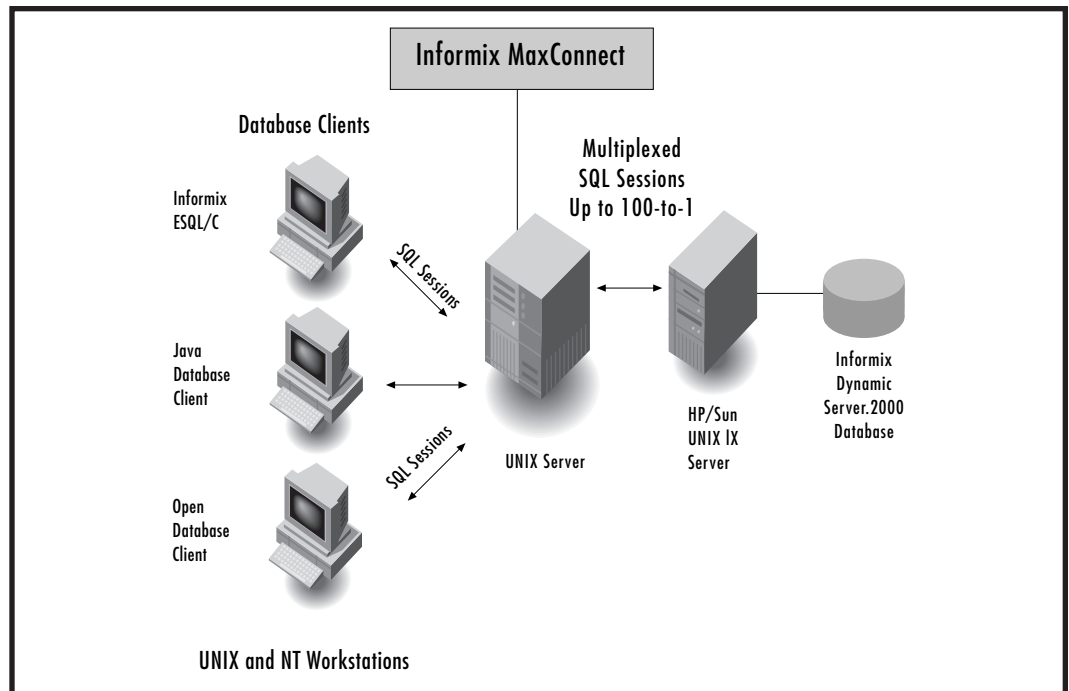
Businesses with large OLTP and Internet applications looking to improve overall system performance, support more users, and extend the life of existing hardware and software solutions should look to deploy MaxConnect with Informix Dynamic Server.2000™ (IDS.2000). Informix Dynamic Server.2000 is a powerful and proven transaction database server and as the data management component of Informix's internet infrastructure solution, Informix Internet Foundation.2000™, IDS.2000 provides a seamless bridge to Web-enabled solutions.

### **Maximized Computing Resources**

In a client/server architecture, MaxConnect is positioned between the client and the Informix database server. Clients transparently

connect to MaxConnect as though they were connecting to the database server, and MaxConnect, in turn, connects to the database server.

MaxConnect employs patent-pending, network packet aggregation technology that provides significant benefits to OLTP and Internet architectures in both two-tier and multi-tier application server environments. MaxConnect aggregates the number of client connections, and then connects to the database server using fewer connections. It typically runs on a separate machine from the database server. By simultaneously grouping multiple network messages, and offloading the work of managing client connections, MaxConnect significantly reduces database server CPU consumption.



**Figure 1:** Informix MaxConnect multiplexes a number of SQL sessions into a much smaller number of communication sessions at the Informix database level—maximizing scalability and performance.

#### Increased Number of Users

MaxConnect greatly improves user scalability by enabling more users to simultaneously connect to the Informix database server. In fact, MaxConnect supports up to tens of thousands of users, and the ratio between user sessions and database connections can be as high as 100-to-1.

#### Impressive Results

A true measure of any product is to put it to the test. The combination of Informix MaxConnect and Informix Dynamic Server.2000 has demonstrated increased performance in real-world environments.

#### Benchmark Performance

With MaxConnect, Informix Dynamic Server.2000 has emerged as a performance leader with a world-record ERP Baan benchmark. In the benchmark, IDS.2000 with MaxConnect handled 21 percent more users than the nearest competitor on the same platform, and achieved a 36 percent reduction in memory utilization.

#### Satisfied Customer

A large financial institution, a customer for MaxConnect, came away impressed with the product. They experienced a 38 percent reduction in server CPU utilization, with no increase in response time at 800 users. They were very impressed with Informix MaxConnect and especially with how it relieved some of the burdens from their Foundation.2000 operating environment.

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## System Administration

Informix Server Administrator™, Informix's browser-based system administration tool, provides a rich set of administrative and monitoring features for the MaxConnect connection server.

## Language Support

MaxConnect is an international product and provides global language support. The interface modules require no localization. The product is compatible with GLS and various localized versions of Informix client and server software.

## Features and Benefits

**Connection multiplexing.** The connection multiplexing feature of MaxConnect multiplexes all connections to the database from the client. With MaxConnect, the database clients see improved performance and enhanced scalability.

**Reduced CPU requirements.** MaxConnect dramatically reduces the CPU overhead required for handling a large number of database connections.

## Optimal use of operating system resources.

MaxConnect supports many more users without increasing the number of operating system connections. In some cases, the ratio of users to connections is 100-to-1.

**Optimal use of network resources.** In conventional OLTP environments, large numbers of small network packets can rapidly consume connection resources on the database server. MaxConnect improves performance and scalability by separating server connection management tasks from SQL (user) session management tasks. MaxConnect aggregates small packets, and multiplexes them over larger transport session packets.

**Load sharing.** Connection management tasks that would usually be performed on the server where the database resides are now offloaded to the middle tier where MaxConnect resides. This offers a better sharing of computing tasks and more efficient utilization of computing resources.

**PRODUCT REQUIREMENTS**

**Software Requirements**

- Sun SPARC Solaris 2.6, 7, 8
- HP HP-UX 11.0 (32-bit and 64-bit)
- Linux (Kernel 2.2.5 glibc 2.1.1)
- IBM AIX 4.3.3
- Compaq/Digital Unix v4.0D
- SGI IRIX 6.5
- MaxConnect is compatible with versions of Informix Connect that are supported by the host database server

**Client Hardware Requirements**

- Unix or Linux-based hardware for MaxConnect server
- 64 MB RAM minimum
- 30 MB hard disk space

**Platform Availability**

MaxConnect is available on the following platforms:

- Sun SPARC Solaris 2.6, 7, 8
- HP HP-UX 11.0
- Compaq/Digital V4.0D
- Linux Kernel 2.2.5
- SGI IRIX 6.5
- IBM AIX 4.3.3
- DG DG/UX R4.20

**About Informix**

Informix Software is the technology leader in software infrastructure solutions for the Internet—providing a fast, simple and complete way to bring businesses to the Web. Based in Menlo Park, Calif., Informix is the first and only company to integrate e-business and business intelligence on a true Internet infrastructure. The company's highly scalable Web engines, together with its personalized content management, real-time analytics and media asset management capabilities, offer customers a unique competitive advantage. For more information, contact the nearest sales office or visit the Web site at [www.informix.com](http://www.informix.com).



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