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# HP ALLBASE/SQL

## Technical Datasheet

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### HP 3000 Series 900 Servers and HP 9000 700/800 Servers and Workstations

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HP's open, business-critical relational database is designed to increase your organization's success, while staying within your budget

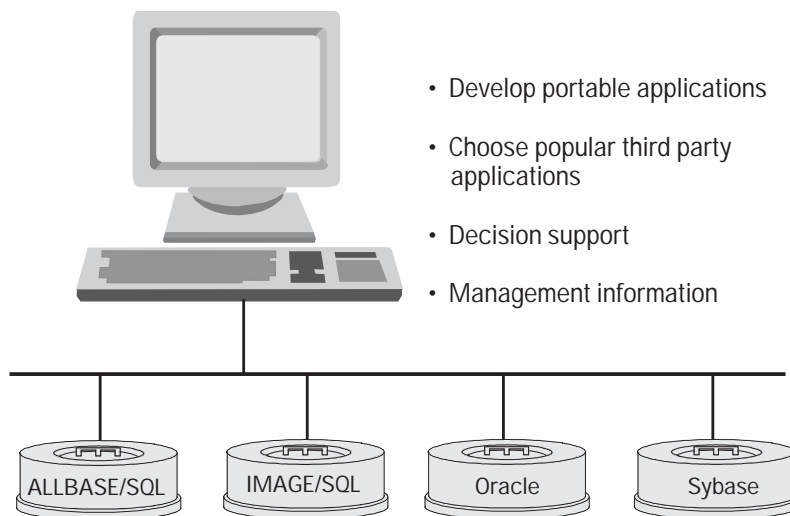
Whether developing applications or using them, you need to increase your company's productivity and effectiveness to remain competitive in today's fast-paced, ever-changing business world. Developers need a results-oriented development environment that supports leading multivendor tools and provides the flexibility to port applications to a variety of plat-

forms. Application users and decision makers need to easily access and use information from multiple sources throughout your organization. And the success of your entire company rests on the assurance that your business-critical applications perform on-line, 24 hours a day, 7 days a week, time after time. Enabling you to meet these critical needs cost-effectively is Hewlett-Packard's open, business-critical relational database management system (RDBMS): HP ALLBASE/SQL.

ALLBASE/SQL provides a functionally rich, high-performance relational database management system for HP 3000 MPE/iX and HP 9000 HP-UX business servers and workstations. ALLBASE/SQL is designed to meet your company's evolving business needs – from application development to decision support to business-critical on-line SQL transaction processing.

### Tuned to your HP platforms, open to your multivendor world

Figure 1. Industry standards and a wide selection of popular tools gives you the freedom and safety to run your applications on the database of your choice, including ALLBASE/SQL, which offers the best price/performance on HP systems.



- Develop portable applications
- Choose popular third party applications
- Decision support
- Management information

Tightly integrated with HP's MPE/iX and HP-UX operating systems and PA-RISC<sup>1</sup> architecture, ALLBASE/SQL is tuned to provide the best price/performance on HP systems, running across both the HP 3000 and HP 9000 platforms. Working with your installed IMAGE/SQL investments, ALLBASE/SQL offers full READ/WRITE access to HP 3000 IMAGE/SQL data from both HP 3000 and HP 9000 servers or workstations.

Because of its open design, ALLBASE/SQL also works to your advantage in your multivendor computing environment. Microsoft's Open Database

Connectivity (ODBC) is supported with ODBCLink/SE from M.B. Foster Associates, which is bundled with ALLBASE/SQL at no additional cost. Using ODBC, you can develop applications that are database-independent using the latest client/server tools and applications including Microsoft's Visual Basic and Access, PowerSoft's Power-Builder, Cognos Impromptu, Lotus 1-2-3 and more.

In addition to ODBC support, other common features include multi-row stored procedures, referential integrity, triggers, business rules, and client/server long field (BLOB) support. These common features reduce porting time, allowing customers and third parties to leverage their application investments.

Users can take advantage of the X/Open XA interface in ALLBASE/SQL to develop hardware and database-independent applications with transaction processing monitors, such as CICS, Encina and Tuxedo, on the HP 9000 platform. ALLBASE/SQL also is ANSI/SQL '92 entry-level compliant, which gives customers who develop to that standard more portability.

### **High availability for your business-critical applications**

Meeting your data center needs for large capacity databases and a large number of concurrent users on the system, ALLBASE/SQL provides mainframe class computing power at a fraction of the cost.

ALLBASE/SQL is similar to mainframe databases with its API and key features providing an easy, cost-effective migration path. So you can convert your existing DB2 or other mainframe database applications while taking full advantage of the client/server and relational benefits of ALLBASE/SQL. IBI's EDA/SQL, IISI's Conveyor and other tools let you exchange data between HP and IBM systems and facilitate offloading applications and data from your existing mainframe to state-of-the-art PA-RISC HP systems.

ALLBASE/SQL is engineered to support very large databases, well over one hundred gigabytes and thousands of on-line users, without compromising application performance. And ALLBASE/SQL provides the high-availability features – such as our pioneering HP ALLBASE/Replicate (requires HP SharePlex/iX-Netbase) database shadowing capability that ensures 24-hour uptime, disaster recovery and remote unattended backup – that your business-critical, mainframe-class applications require. Plus, ALLBASE/SQL's partial roll-forward recovery feature can eliminate the need for costly disc mirroring. In the unusual event of a disk array failure, recovery is fast because you only need to restore and recover the damaged file – such as last year's sales transactions – not the entire table or database as with some other database management systems.

### **Single-vendor development and support for one-stop shopping**

By tightly integrating ALLBASE/SQL with your existing systems, HP gives you what other vendors can't: outstanding performance and single-vendor support. HP offers extended worldwide support hours for ALLBASE/SQL — 7 days a week, 24 hours a day for unavailable databases.

HP Response Center engineers are specifically trained in ALLBASE/SQL support and can leverage the integrated support offerings of HP's operating system and database response teams. This comprehensive support, designed to enhance uptime of business-critical systems, is a key advantage of using ALLBASE/SQL as a high-end RDBMS. Providing a total system solution, our support for your database, operating system and hardware means that if you need assistance, you only need to make a phone call to one vendor: HP.

### **All the features you want at a price you can afford**

ALLBASE/SQL stacks up successfully against the other well known RDBMSs, offering all the industry-standard features of the most popular systems—including triggers, stored procedures, referential integrity, replication and on-line recovery—all at a competitive cost-of-ownership.

ALLBASE/SQL distinguishes itself from competing databases by bundling ODBC connectivity software, database networking software, and database administration and performance monitoring tools. Typically extra-charge items from other vendors, they are included with ALLBASE/SQL at no additional cost.

<sup>1</sup> PA-RISC stands for Precision Architecture reduced instruction-set computing

## Standard Features with ALLBASE/SQL

### Industry Standards for Open, Portable Applications

- ANSI/SQL '92, Entry Level Compliance
- Microsoft ODBC via ODBCLink/SE
- FIPS 127.1
- X/A Compliance/Two-Phase Commit for CICS, Transarc and Tuxedo on HP 9000

### Support for Business-Critical Applications

- Worldwide 24 x 7 Support for Unavailable Databases
- "Hot" online backup for 24-hour availability (with TurboSTORE/iX 7x24 True-Online Backup)
- Forward, rollback and on-line recovery
- Replication for disaster recovery/remote back-up/decision support
- Row/page/table locking for maximum concurrency
- Multi-processor support

### Powerful Application Development Capabilities

- Stored procedures
- Database triggers/business rules
- Referential integrity
- Binary Long Object (BLOB) support for both client/server and terminal/host
- Multi-row stored procedures
- Fourth generation languages including: Microsoft Visual Basic, PowerSoft PowerBuilder, Cognos PowerHouse, IBI Focus, SpeedWare, Uniface and more!

### High Performance for Queries and Updates

- ALLBASE/SQL performance tool bundled at no cost
- Cost-based optimizer
- Hash and B-tree indices
- Outer joins
- Faster table scans with parallel pre-fetch
- Optimizer access path and modification capabilities

## Ordering information

On the HP 3000 Series 900 computer system, ALLBASE/SQL is offered as part of the HP MPE/iX system database bundle at a cost savings of more than 40 percent less than add-on prices. The offering includes the database engine, the Interactive/SQL, ALLBASE/NET for distributed databases, ODBCLink/SE from M.B. Foster Associates for PC access, database administration and performance analysis tools, and language pre-processors for C, COBOL, Pascal and FORTRAN. ALLBASE/Replicate is also included with ALLBASE/SQL.

On the HP 9000 computer systems, both development and runtime versions are available and contain the same components found on the HP 3000. The runtime version does not include the language pre-processors.

## Products

### HP 3000 900 Series - MPE/iX Version 5.5 or later

- 30368B ALLBASE/SQL
- Or IMAGE/SQL and ALLBASE/SQL database bundle with new systems at a cost savings of more than 40%

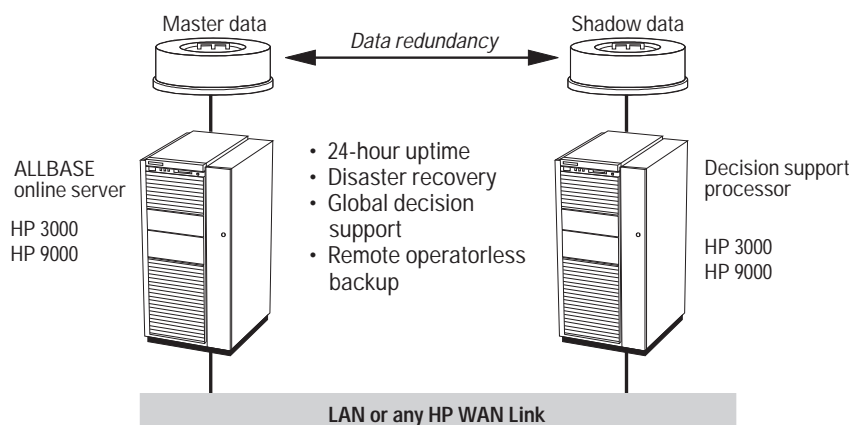
### HP 9000 Series 700 - HP-UX Version 10.x or later

- B5414BA ALLBASE/SQL Runtime
- B5416BA ALLBASE/SQL Development

### HP 9000 Series 800 - HP-UX Version 10.x or later

- B5418BA ALLBASE/SQL Runtime
- B5420BA ALLBASE/SQL Development

Figure 2. Use HP SharePlex/iX for shadowing data to one or more locations on HP PA-RISC systems



## Documentation

	MPE/iX	HP-UX
Up and Running with ALLBASE/SQL	36389-90016	36389-90016
ALLBASE/SQL Reference Manual	36216-90215	36217-90400
ALLBASE/SQL ISQL Reference Manual	36216-90095	36217-90190
ALLBASE/SQL Database Administration Guide	36216-90214	36217-90401
ALLBASE/SQL Message Manual	36216-90213	36217-90402
ALLBASE/NET User's Guide	36216-90101	36217-90193
ALLBASE/SQL Advanced Programming Guide	36216-90099	36217-90194
ALLBASE/SQL C Programming Guide	36216-90080	36217-90159
ALLBASE/SQL FORTRAN Programming Guide	36216-90079	36217-90160
ALLBASE/SQL COBOL Programming Guide	36216-90081	36217-90161
ALLBASE/SQL Pascal Programming Guide	36216-90082	36217-90162
ALLBASE/SQL Performance and Monitoring Guidelines	36216-90103	36217-90200
ODBCLink/SE Reference Manual	36217-90407	36217-90407

## Customer training

Classes tailored to the needs of specific groups of ALLBASE/SQL users are available through local HP Education Centers. Each course includes instruction and labs. Contact your local Hewlett-Packard office for course outlines and schedules, or call 1-800-472-5277 in the U.S. or 1-800-563-5089 in Canada. The HP Educational Services web site is [www.hp.com/education](http://www.hp.com/education).

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Windows is a U.S. trademark of Microsoft Corp.

Lotus and 1-2-3 are U.S. registered trademarks of Lotus Development Corp.

HP-UX is based on and is compatible with USL's UNIX operating system. It also complies with X/Open's XPG4, POSIX 1003.1, FIPS 151-1 and SVID2 interface specifications.

UNIX is a registered trademark of UNIX System Laboratories Inc. in the U.S.A and other countries

X/Open is a trademark of X/Open Company Limited in the UK and other countries.

ODBCLink is a registered trademark of M.B. Foster Associates.

For more information, call your local HP sales office listed in your telephone directory or an HP regional office listed below for the location of your nearest sales office.

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