Oracle Product Plans for HP Platforms: OpenVMS

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The following is intended to outline our general product direction. It is intended for information purposes only and may not be incorporated into a contract or agreement. It is not a commitment to deliver any material, code, or functionality, and it should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described for Oracle's products remains at the sole discretion of Oracle.

March 2nd HP, Oracle, Intel Integrity Web Event

PALO ALTO, Calif. 02-MAR-2006 As part of HP and Oracle's alliance to help enterprises optimize business operations, the companies have increased their commitment to HP Integrity servers running Oracle(r) software. The companies will unveil the news in a live web event featuring chief executive officers Mark Hurd of HP, Paul Otellini of Intel and Larry Ellison of Oracle. The web event, which begins today at 11:30 a.m. ET / 8:30 a.m. PT, is available at www.hp.com/go/hplive.

For full press release click here.

Oracle | Hewlett Packard Resources

Hewlett Packard Global Alliance Director – Mike Crowsen
Oracle Global Alliance Director – Stephen Boyle
Oracle Global Tech. Team: Sandy Vella, Rainer Marekwia, Wolfgang Herdtle

	Hewlett Packard	Oracle Team
NAS	Riadh Dridi	Bud Smith
LAD	Miguel Lavalle	Gustavo Segre
EMEA	Elke Thoma/Florence Gomar	Paul Thompson
APAC - AP	Ong Chee Ming	Chee Cheong Lai
APAC - JP		Hideharu Kanenobu

Oracle Roadmap - OpenVMS

	Now	Q4CY06	Future
Database Releases	•8*i*R3(8.1.7.4) •9*i*R2(9.2.0.7) •20% perf boost •10gR1(10.1.0.3) •10gR2 for OpenVMS Itanium •OpenVMS 8.2-1 Required	•Oracle10*g*R2 Production for Alpha •8.2 O/S minimum •8.3 O/S Cert planned for 10gR2 – 8.3 Supports Montecito Chip	•Next Major Database Release Itanium only •Alpha 9*i*/10*g* patchsets
Application Server	•10g (9.0.4) Split Configuration		•10g (10.1.x) Split Configuration
E-Business Suite	•11.0.3 w/8.1.7 •11.5.8 w/8.1.7 •11.5.10 w/9.2 (Split Configurations)		•11.*5.*10 w/10g (Split Configuration)
OS Cert	•VMS 7.3-2, 8.2 w/8*i*R3, 9*i*R2, 10gR2		

•Split Configurations allow backend database to reside on OpenVMS. Apps must be on supported middle-tier: HP-UX PA-RISC, Tru64 UNIX, Linux x86, Windows x86

•8.3 Certification Planning Underway

OpenVMS Roadmap & Directions

- OpenVMS on Alpha
  - Oracle Database
    - 10*g* porting thru terminal release
    - Support until at least 2011
  - Application Server & E-Business Suite
    - Split Configuration using VMS as backend database server
    - Support until at least 2011
- OpenVMS on Itanium
  - Oracle Database
    - 10gR2
    - New major database releases to be ported to OpenVMS Itanium only (Aka 11g and on….)

OpenVMS Teams at Oracle

- Oracle Corporate/Oracle Nashua
  - Base porting, quality assurance, stress testing, error diagnosis and error correction
  - Product management, documentation
  - OpenVMS Engineering team working extremely closely with Oracle
- Oracle OpenVMS support dedicated resources in EMEA and US

I64 Multi-Core Licensing

"For the purposes of counting the number of processors which require licensing for AMD and Intel multicore chips, "n" cores shall be determined by multiplying the total number of cores by a core processor licensing factor of .50."

http://www.oracle.com/corporate/pricing/sig.pdf

Oracle Rdb Status Update

Norman Lastovica

Norman.Lastovica@oracle.com

September 30, 2006

Sign up for the Rdb mailing list!

http://www.oracle.com/pls/events/rdb.html

ORACLE

"For decades, our customers have relied on Oracle Rdb to support large-scale production applications and high-performance transaction processing on HP OpenVMS systems. The latest release extends the quality and stability for which Oracle Rdb is known, while providing customers with more choice and the flexibility to easily move to lower cost systems."

- Steve Hagan, vice president,
Oracle Server Technologies

Rdb Product Development Strategy

- High-end OLTP systems focus
  - High performance
    - Unique scalability on OpenVMS
    - Extensive tuning capabilities
  - High availability
    - Robust on-line management
- Integration with Oracle software environment
  - Oracle Developer Suite
  - Oracle Application Server
  - Oracle Enterprise Manager
  - Oracle Database

OpenVMS is the supported Operating System

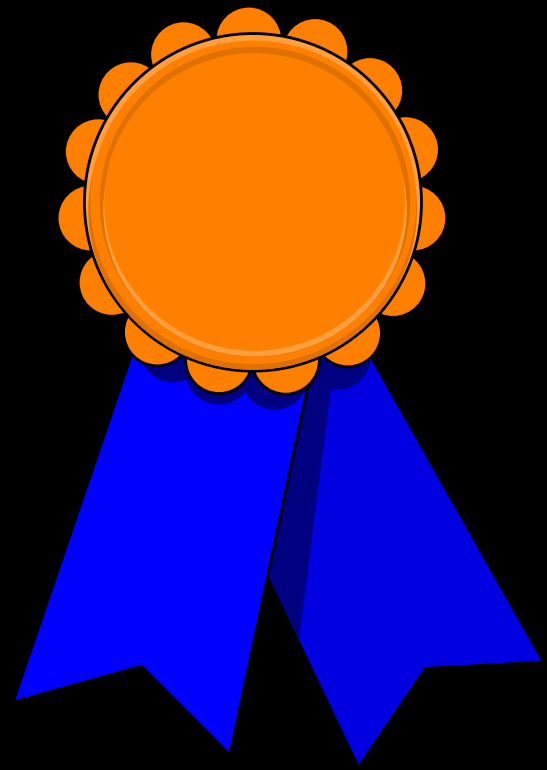
Overview – Where Rdb Is Used

- Trading commodities, equities & futures: US, UK, Australia, Austria, Sweden, Spain, France, Greece, Italy, Switzerland, Hong Kong, Singapore, Korea & Germany
- Mobile phone systems: US, Japan, Hong Kong, UK, South Africa, Peru, Germany, Austria, Czech Republic, Denmark, France, Greece, Portugal and Switzerland
- Semiconductor manufacturing: Worldwide
- Lottery Systems: Europe, Canada, Australia, South America & US
- Automobile manufacturing: Volvo, Nissan, Toyota, Fiat …
- Short Messaging Service: Worldwide
- Mining: Europe, Australia, US
- Passport control: New Zealand
- Government: Ireland, Department of Social, Community and Family Affairs
- Education: Europe, US, Australia -largest secondary system in Southern Hemisphere
- Smashing Atoms: SLAC
- Satellite Control/Communication: Worldwide
- Reservation systems: Thrifty and Dollar car rental
- Satellite Television: US
- Automatic Toll Systems: US

New Sales driven by applications

Recent Wins

- Deutsche Borse & Accenture
  - Shanghai Exchange
- OMX Technology
  - Thailand Exchange
  - Singapore Exchange & Hong Kong Exchange
- EssNet (Lottery Systems)
  - Tattersall's, many others
- LogicaCMG (Short Messaging Services)
  - Mobile Phone customer in Ireland
- VCS Aktiengesellschaft
  - BBC Radio
- Cogema
  - 2 new nuclear energy processing plants



New projects with existing customers including SIAER, Sharp, Fidelity Investments, etc

Press Release, March 7, 2006

Oracle Unveils Oracle® Rdb 7.2 for HP OpenVMS on HP Integrity Servers and AlphaServer Systems

Delivers Enhanced Performance and Eases Transition to Low-cost HP Integrity Servers

Tuesday March 7, 8:00 ET

REDWOOD SHORES, Calif., Feb. March 7/PR Newswire-FirstCall/, Oracle today announced the general availability of Oracle® Rdb 7.2, adding support for HP OpenVMS on HP Integrity servers to provide organizations with more choice and to make it easier for customers running mission-critical applications on HP AlphaServer systems to transition to HP Integrity servers based on the Intel® Itanium® 2 processor.

Rdb 7.2 Product Family on IA64

Rdb

DBMS

CDD

Oracle Trace

Replication Option

SQS/OCIS

JDBC

Rdb 7.2 Features Overview

- Increased Maximums
  - …Number of database global buffers to 1,048,576
  - …Database page to 63 blocks, buffer size to 128 blocks
- Index column group enabled by default
- Refined index estimation enabled by default
- Index node pre-fetch performance optimizations
- Transaction rollback performance optimizations
- Caching of AIP entry information
- Improved backup IO performance
- Encrypted database & after-image journal backups for protection of confidential data

Porting Rdb Applications to I64

- Expect your application to be “Compile & Go”
- Likely visit build procedures
  - Command line switches
  - Alpha/VAX choices
- In the rare case they’re required, most changes end up being “one liners”

Database Convert Paths

V7.0 or
V7.1 DB

RMU/CONVERT or
RMU/RESTORE

V7.2 DB

DB < V7.0

RMU/CONVERT or
RMU/RESTORE

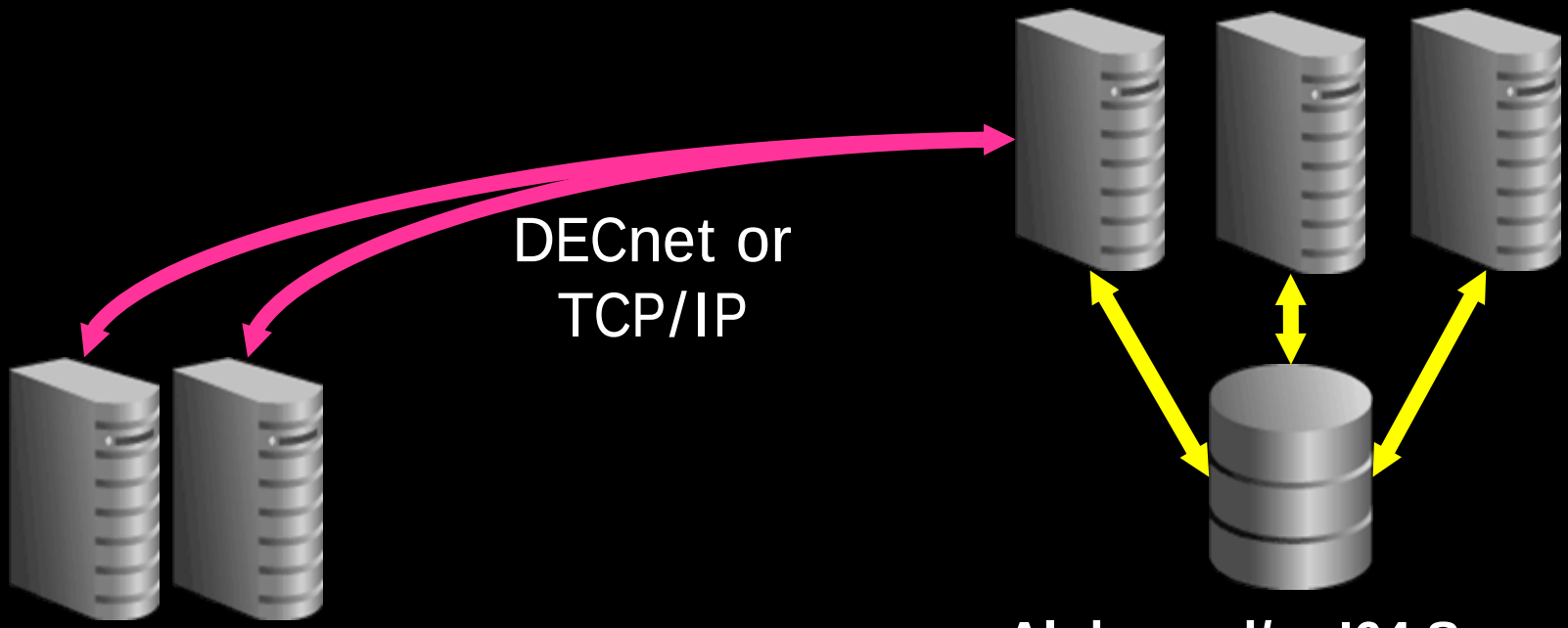
V7.0 or V7.1

RMU/CONVERT or
RMU/RESTORE

V7.2 DB

- Database convert or restore
  - V7.1 or V7.0 directly to V7.2
  - Prior to V7.0 - first to V7.0 or V7.1 and then to V7.2
  - RMU/CONVERT takes seconds to run
- No application recompile/relink when upgrading on same platform

Remote Network Access to Rdb 7.2 Database

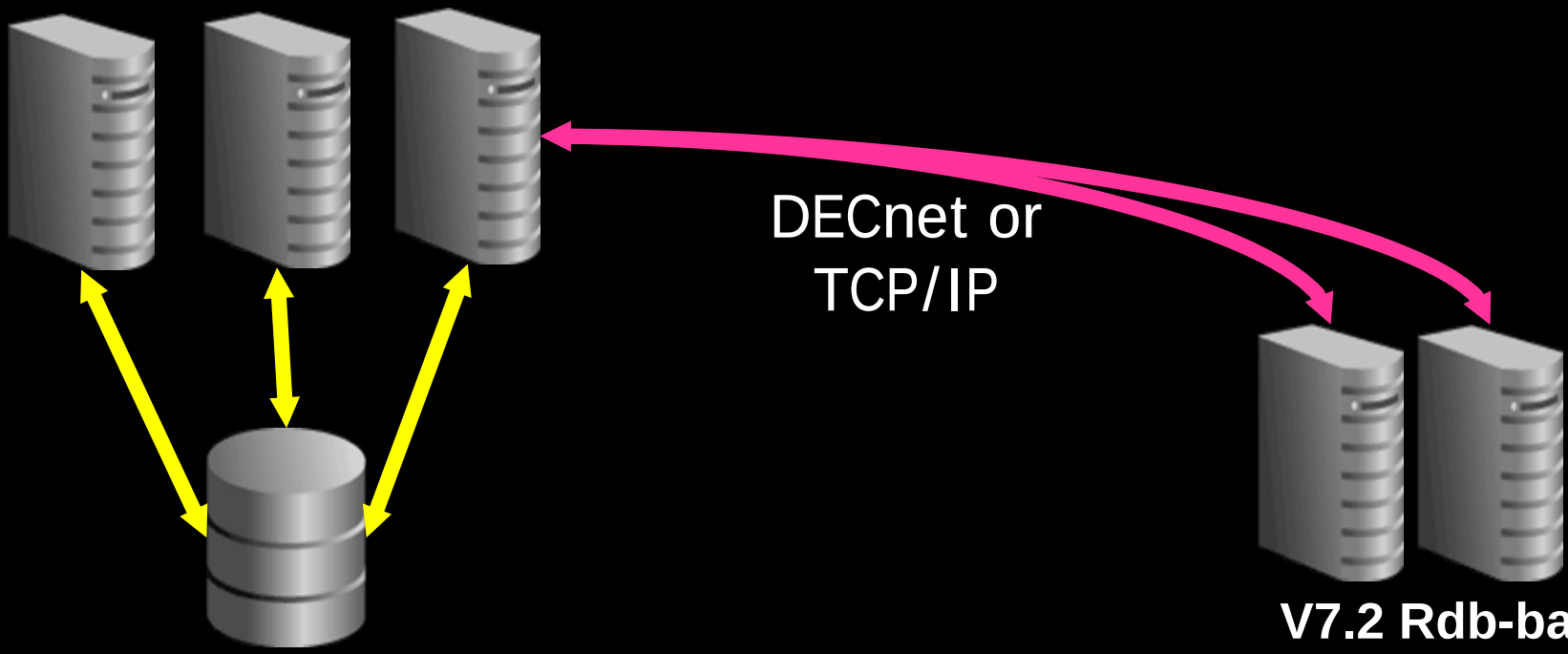


VAX, I64 and/or Alpha
Rdb-based applications

Alpha and/or I64 Servers
V7.2 Database

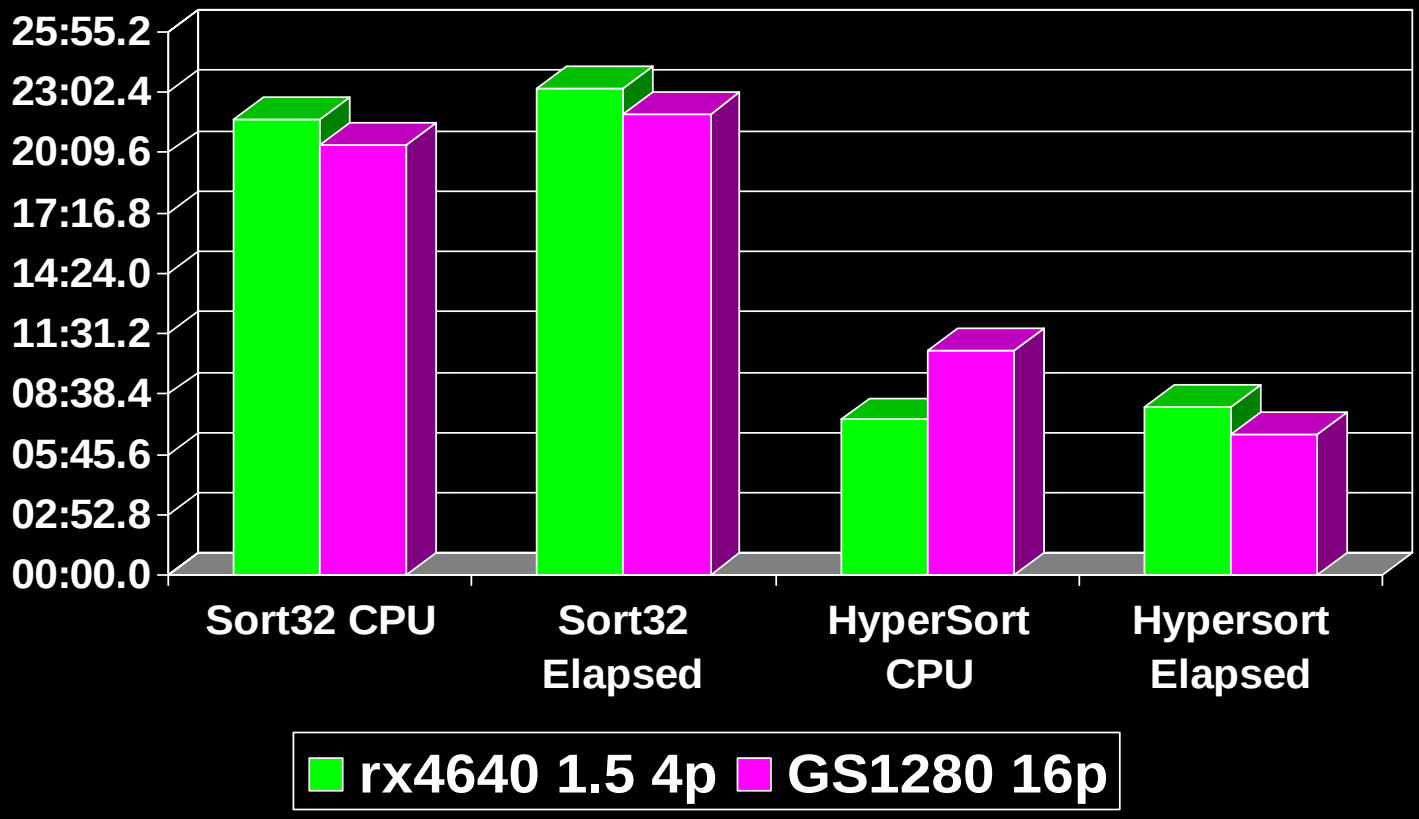
- Clustering allows direct access from I64 or Alpha
- Built-in network server between versions/platforms
- Multiple versions of Rdb installed & running on a system

Remote Network Access to Older Rdb Database



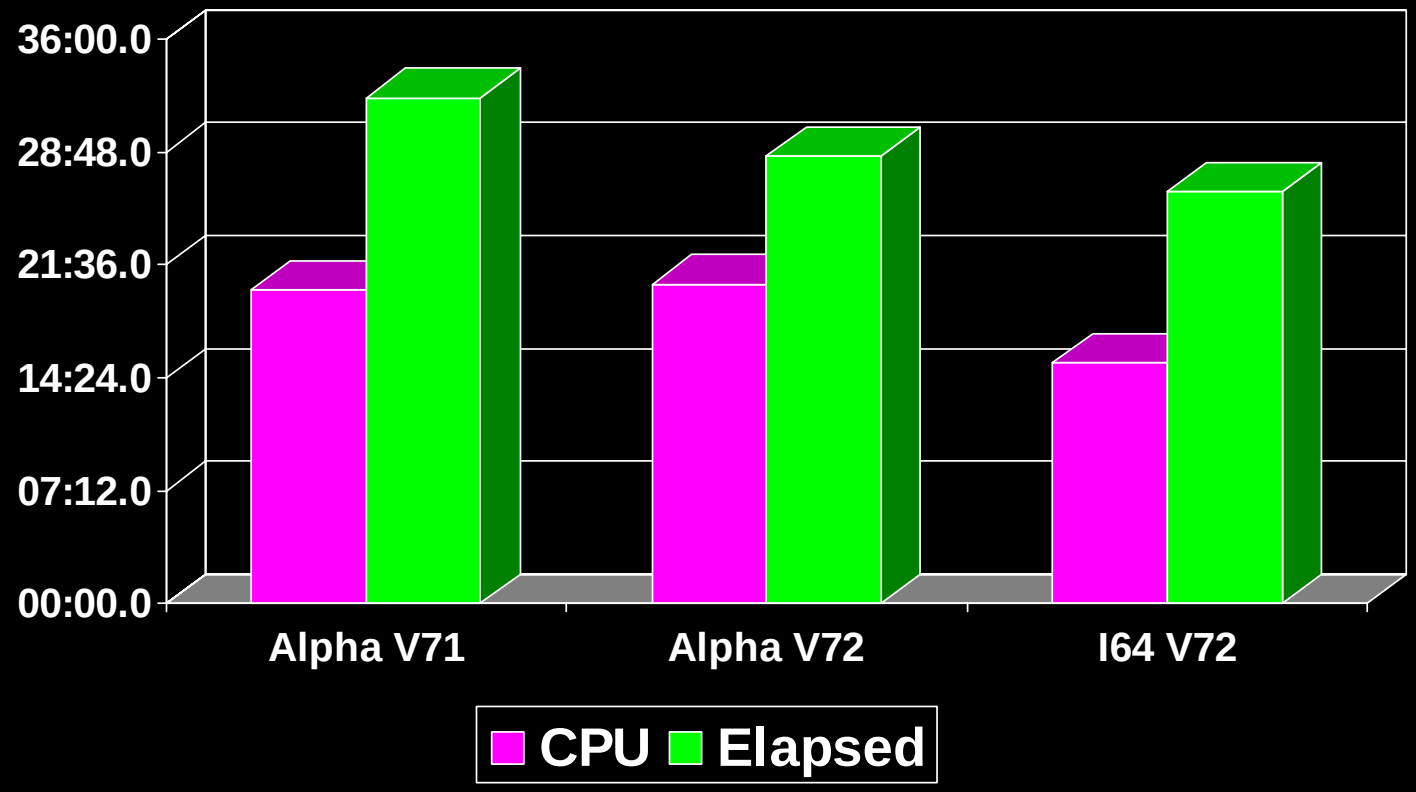
Performance Overview
Rdb on I64

Sort 100,000,000 records
rx4640 vs. GS1280

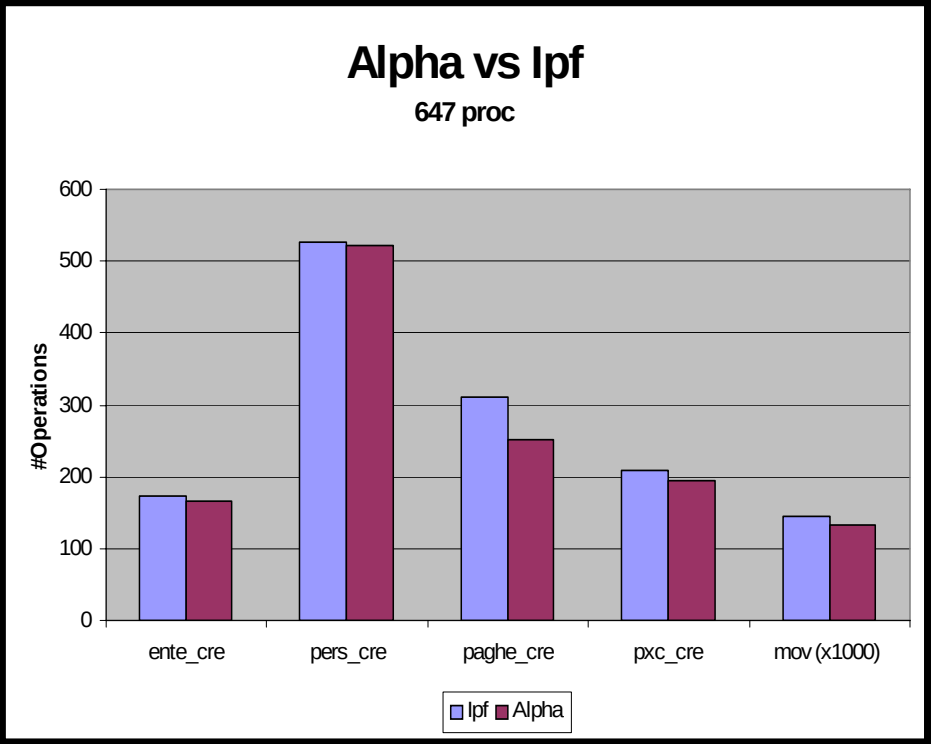


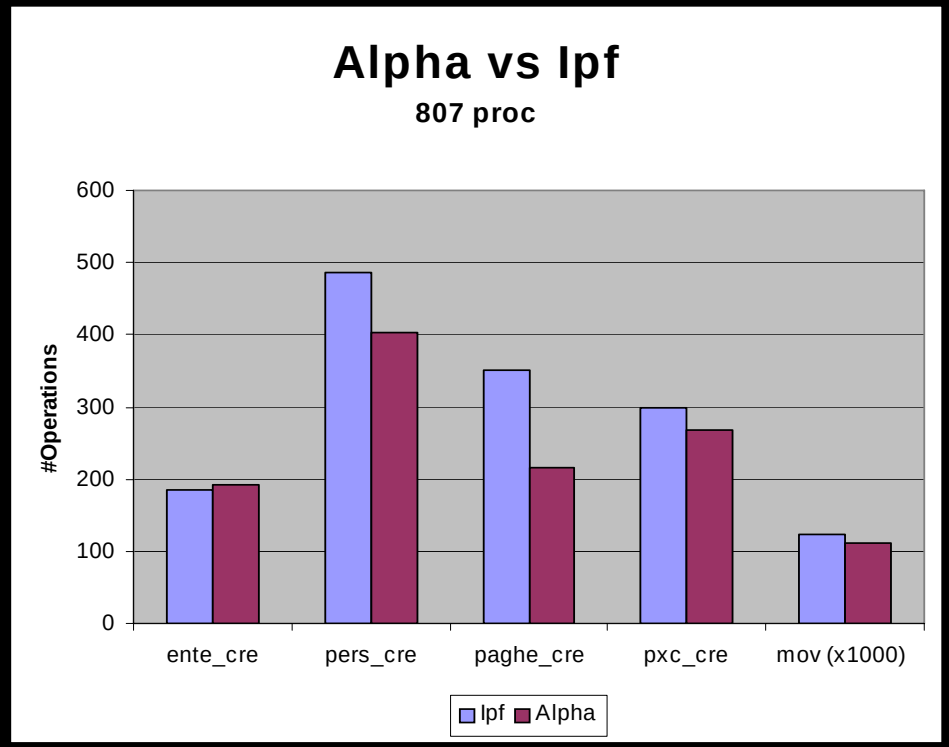
Create Large Database
8,151 Storage Areas

8,151 storage areas, 8,151 partitioned tables, 8,151 indexes = 32,663 logical areas
~28,900,000 IO

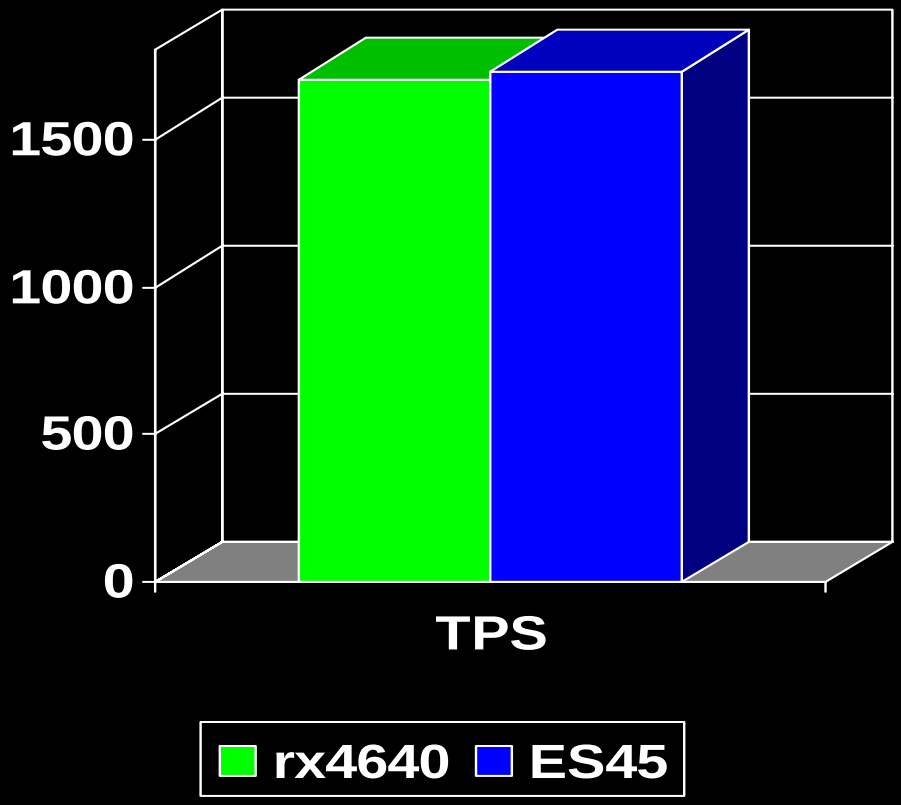


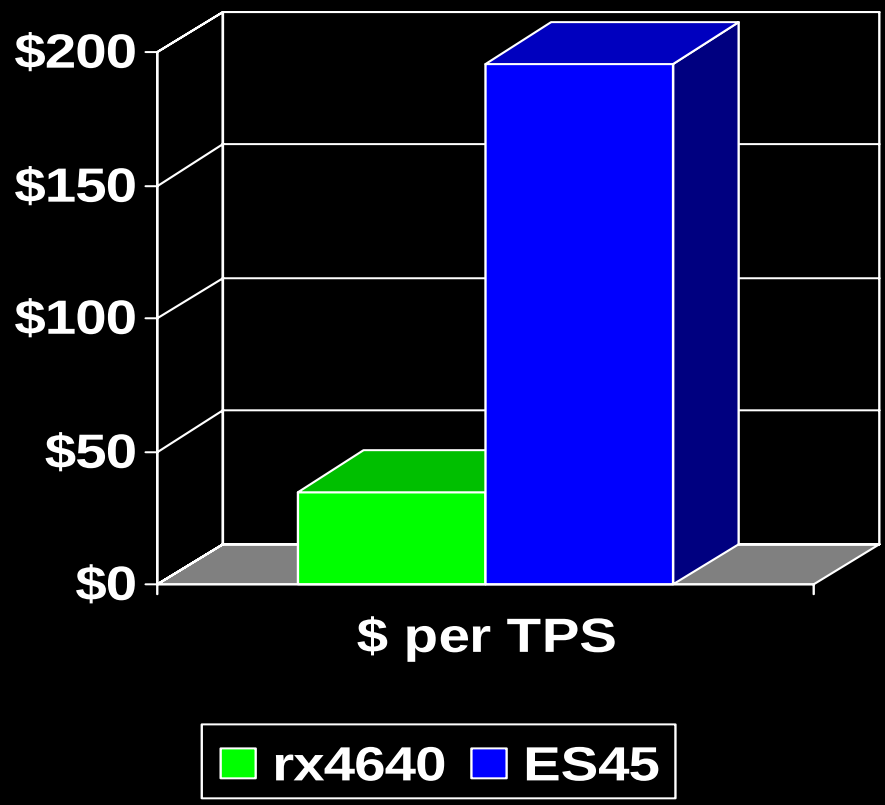
Customer's Application Testing





ES45 vs. rx4640
30 Process OLTP Workload





Rdb on I64 Summary

- Rdb on Alpha & I64 well tested & stable
- Migrating to Integrity is easy
- Alpha & I64 Clustering
- Rdb 7.2 performance improvements
- Performance & Cost/Performance on Integrity is excellent

Oracle Rdb Roadmap

Today

- V7.0.8.3 (VAX & Alpha)
- V7.1.4.5 (Alpha)
- V7.2.0.2 (Alpha & I64)

Q1CY07

- VMS V8.3 Certified
  - V7.0.9
  - V7.1.5
  - V7.2.1
- V7.2.1 - Features

Future

- V7.0 & V7.1 maintenance
- V7.2 maintenance & minor features
- V7.3 feature release

7.2.1 Feature Overview
(Scheduled Q1CY07)

- Compression for RMU/UNLOAD & LOAD
- Vastly improved compression for RMU/BACKUP
- Further improved IO behaviour for RMU/BACKUP, RMU/COPY & RMU/MOVE
- SQL Language enhancements
- Run-time durations captured more precisely
  - IO, lock & transaction durations

Future Project Areas Overview

Development driven by customer needs!

- Encryption in database
- ODBC
- JDBC
- .NET
- SQL Service/OCI Services HP/UX client
- SQL Enhancements including addition PL/SQL support
- Savepoints
- Lobs
- Performance

Rdb Lifetime Support Dates

	General Availability	Premier Support End Date	Extended Support End Date	Sustaining Support
Rdb V7.0	Oct 1996	Aug 2007	Aug 2009	Indefinite
Rdb V7.1	Jul 2001	Dec 2007	Dec 2010	Indefinite
Rdb V7.2	Jan 2006	Jan 2011	Jan 2014	Indefinite

Training Partner List

- **Europe, Asia, Middle East & Africa:**
  VX Company
  Laren, The Netherlands
  http://www.vxcompany.com/rdbtrainingcourses

- **Americas:**
  JCC Consulting, Inc.
  Granville, Ohio, United States
  http://www.jcc.com/ (choose Training)

- **Oracle CODASYL DBMS Training Worldwide:**
  Software Concepts International
  Nashua, New Hampshire, United States
  http://www.sciinc.com/training/index.htm

Summary

After more than 12 years with Oracle, Rdb development continues because Rdb business is healthy & valuable

Cooperation between Oracle & HP means better performance & manageability for our customers

Development strategy maximizes value of Rdb investment

"We are delighted that Oracle has strengthened its commitment to OpenVMS on HP Integrity servers. We are extremely pleased about our continued long-term relationship, delivering some of the industry's most robust, available and secure solutions to support the dynamic and critical needs of customers."

- Ann McQuaid, general manager, HP OpenVMS

Sign up for the Rdb mailing list!

http://www.oracle.com/pls/events/rdb.html