

DIE AUSWIRKUNGEN DER ANNOUNCEMENTS VON ORACLE UND SAP FÜR KUNDEN AUF HP-UX-PLATTFORM

HP/SAP Competence Center,
Walldorf July 2011

Disclaimer: HP confidential,
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WHAT DID ORACLE DO?

- 3/22/2011 - announced that they have decided to discontinue all software **development** on the Intel Itanium microprocessor.



„After multiple conversations with Intel senior management Oracle has decided to discontinue all software development on the Intel Itanium microprocessor. Intel management made it clear that their strategic focus is on their x86 microprocessor and that Itanium was nearing the end of its life“

- This is relevant:
 - In an SAP context for the Oracle Database 12.2,
 - but even for eApps, Siebel, Rdb, ...
- Tried to justify their decision based on: “Intel management made it clear that their strategic focus is on their x86 microprocessor and that Itanium was nearing the end of its life.” **Not true.**

HOW DID INTEL RESPOND?

- 3/23/2011 - Intel Reaffirms Commitment to Itanium.
- Paul Otellini, president and CEO of Intel Corporation “**Intel’s work on Intel Itanium processors and platforms continues unabated with multiple generations of chips currently in development and on schedule.** We remain firmly committed to delivering a competitive, multi-generational roadmap for HP-UX and other operating system customers that run the Itanium architecture.”
- **Re-confirmed roadmap**
 - Tukwila (quad-core) released in 2010
 - Poulson (8-core) on track to ship in 2012
 - Kittson planning & design underway
- FYI -- Oracle & IBM both have a published roadmap with only ONE future microprocessor. Intel shows MORE than both of them.

HP'S RESPONSE?

- 3/23/2011 - HP Supports Customers Despite Oracle's Anti-customer Actions
- **HP and Oracle have 140,000 common customers.** An estimated 45% of Oracle licenses reside on an HP platform. HP is fully committed to support these customers.
- Reiterated that it will **continue the development and innovation** of Itanium®-based Integrity server platforms with its HP-UX operating system using a roadmap that extends more than 10 years.
- HP will continue to support customers running existing versions of Oracle software on Itanium-based Integrity servers, both existing and future platforms, during the same timeframe.
- According to IDC HP has **27% share of the total Worldwide UNIX market** according to IDC (2nd position) – so this is not about a small niche market with few customers
- One week prior to Oracle's announcement HP briefed 120 industry analysts on the future of HP's Integrity product line. **Oracle's announcement and its assessment of Itanium is 180 degrees different from the message that the industry analysts gave a very positive reception to just a week earlier.**

THE HP RESPONSE



News Release

HP Supports Customers Despite Oracle's Anti-customer Actions

Amid plummeting SPARC server market share, Oracle seeks to force customers to buy their servers

PALO ALTO, Calif., March 23, 2011 – HP today reiterated that it will continue the development and innovation of Itanium®-based Integrity server platforms with its HP-UX operating system using a roadmap that extends more than 10 years.

In addition, HP will continue to support customers running existing versions of Oracle software on Itanium-based Integrity servers, both existing and future platforms, during the same timeframe. Last year, [HP launched](#) the industry's most modern mission-critical architecture in more than a decade. This constitutes the longest published roadmap of any UNIX vendor in the industry.

"Oracle continues to show a pattern of anti-customer behavior as they move to shore up their failing Sun server business," said [Dave Donatelli](#), executive vice president and general manager, Enterprise Servers, Storage and Networking, HP. "HP believes in fair and honest competition. Competition is good for customers, innovation and the marketplace. We are shocked that Oracle would put enterprises and governments at risk while costing them hundreds of millions of dollars in lost productivity in a shameless gambit to limit fair competition."

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HP SENDS LEGAL LETTER TO ORACLE OVER CHIPS DISPUTE

www.reuters.com

SAN FRANCISCO, June 8 (Reuters) –

Hewlett-Packard Co ([HPQ.N](#)) said on Tuesday it has sent a **legal letter** to Oracle ([ORCL.O](#)) asking the company to **reverse its decision** to discontinue all software development on Intel's ([INTC.O](#)) Itanium microprocessor.

... "We are going to take whatever means are necessary to get Oracle to meet the legal commitments they have made to support HP platforms."

www.Techworld.com

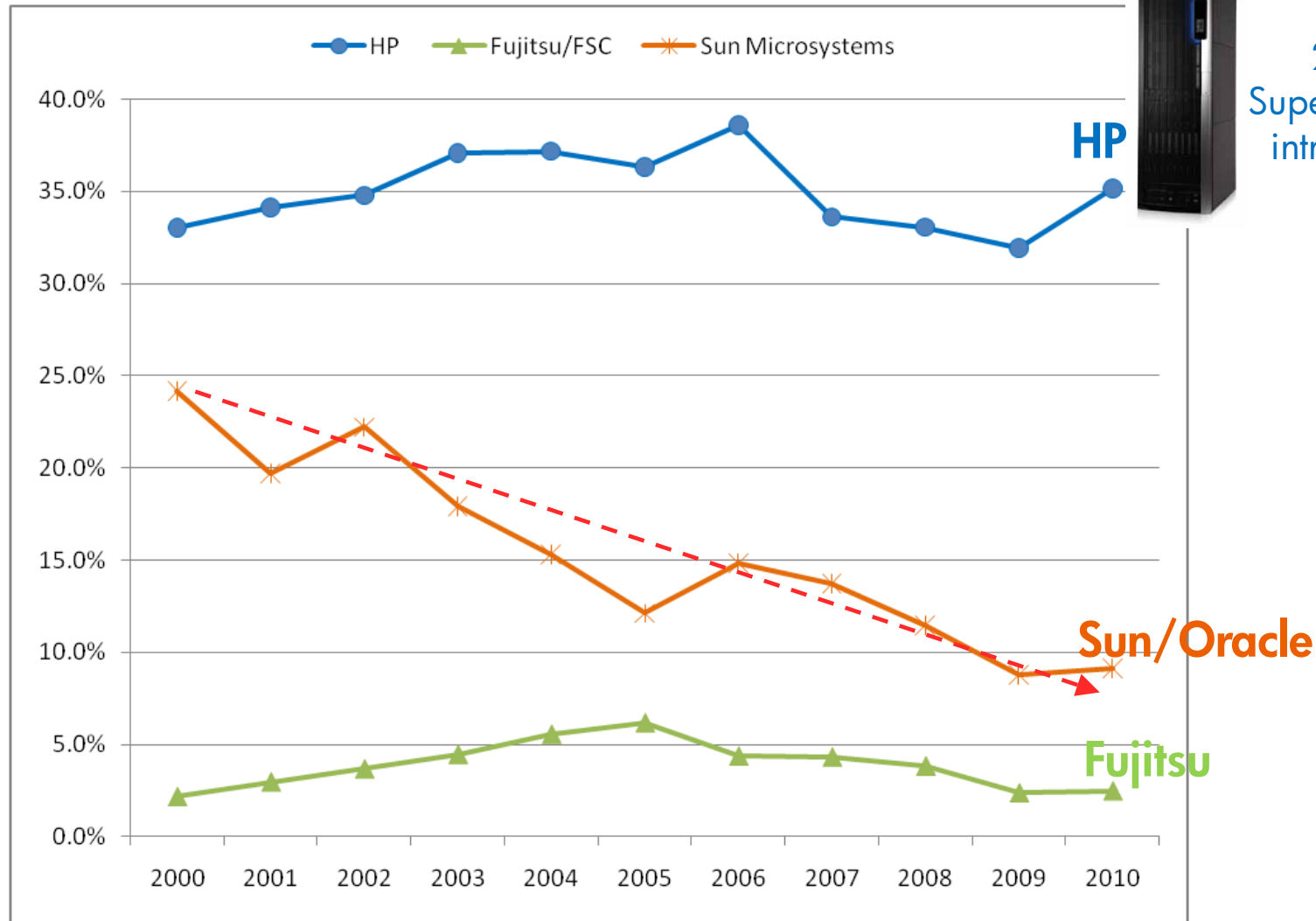
HP: Oracle is legally bound to reverse Itanium decision

Hewlett-Packard has sent Oracle a legal demand letter, which could be a precursor to a lawsuit.

"HP believes that Oracle is legally obligated to continue to offer its software product suite on the Itanium platform and we will take whatever legal actions are available to us necessary to protect our customers' best interests and the significant investments they have made"

"Oracle's decision represents an illegal attempt to force customers running Itanium-based HP servers over to its own hardware platforms"

High-end RISC+EPIC server market share by revenue, IDC 3CQ10 worldwide server tracker



ORACLE VERSIONS SUPPORTED BY SAP

	Oracle 7.3	Oracle 8.0.4	Oracle 8.0.5	Oracle 8.1.6	Oracle 8.1.7	Oracle 9.2.0	Oracle 10.2.0	Oracle 11.2.0	Oracle 12.2.0
1997	x								
1998	x	X							
1999		X	x						
2000		x	x	x					
2001				x	x				
2002						x			
2003						x			
2004						x			
2005						x			
2006						x	x		
2007						x	x		
2008						o	x		
2009						o	x		
7/2010							o	x	
7/2011							o	x	
2012							o	x	
2013							o	x	
2014								x	
1/2015								x	
2016								o	x
2017								o	x
1/2018								o	x
2019									x

SAP'S OFFICIAL RECOMMENDATION: „DON'T PANIC“

SAP SAP Note 1575609 - Future HPUX support for SAP on Oracle databases

Note Language: English Version: 1 Validity: Valid Since 04.04.2011

Summary

Symptom

This note provides information about restrictions for future support of the Oracle database on the HPUX operating system.

Other terms

Itanium, Oracle 12g

Reason and Prerequisites

On March 22, 2011, Oracle Corp. announced in a press release that they will discontinue software development on the Itanium processor. This affects the HPUX on Itanium platform in particular. The relevant Oracle press release is located at:
<http://www.oracle.com/us/corporate/press/346696>.

Solution

Oracle made the following statements about future support of the Oracle database on the HPUX on Itanium platform:

- o Versions 10.2.0.4 and 10.2.0.5 are available. Support as part of the Oracle Lifetime Support Policy remains unchanged (that is, Extended Support that is subject to charge from August 01, 2011 to July 31, 2013). The Sustaining Support Phase then follows.
- o Version 11.2.0.2 is available on HPUX and continues to be supported.
- o Support from Oracle for Oracle Version 11.2.0.X (X = 3 or higher) is planned on HPUX. These Oracle 11.2 patch sets are supported on HPUX Version 11.31. According to Oracle's Lifetime Support Policy, new HPUX versions are certified as long as they were generally released up to and including the Oracle Extended Support period. An explicit release of new versions of the Itanium processor from Oracle is not necessary as long as this is released for HPUX versions that support the Oracle database.
- o Oracle is not planning to support Oracle Version 12g on HPUX.

This Oracle road map for future support of the Oracle database on HPUX is explained in the Oracle Metalink note with the document ID 1307745.1. If changes are made to the HPUX road map in the future and these are relevant for SAP customers, we will use this SAP note to inform you.

Based on the current information that is available, no urgent action has been identified for SAP customers on Oracle with HPUX. In the last year, we have released Oracle Version 11.2 for SAP products (see Note 1398634). Oracle Standard Support is provided for Version 11.2 up to the end of January 2015. From January 2015 until January 2018, Extended Support is provided by Oracle. The Sustaining Support Phase that has no time

04.04.2011

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Extract from SAP OSS Note 1575609:

“Based on the current information that is available, **no urgent action has been identified for SAP customers on Oracle with HPUX.** In the last year, we have released Oracle Version 11.2 for SAP products (see Note 1398634). Oracle Standard Support is provided for Version 11.2 up to the end of January 2015. From January 2015 **until January 2018**, Extended Support is provided by Oracle. The Sustaining Support Phase that has no time restrictions then follows. **Therefore, based on Oracle Version 11.2, full support for HPUX in the SAP environment is guaranteed for many years.**”

HP confidential



Gartner Client Guidance Based on Oracle Itanium Announcement

- **DON'T PANIC!!!**
- **Be on latest Oracle software builds**
- **Push other ISVs to demonstrate solidarity**
- **Consider Oracle alternatives (DB2, Sybase, Websphere)**
- **If on NewGen Itanium – RELAX (at least for five years)**
- **If on early Itanium – Upgrade SW; evaluate HW ROI model. Consider DL980 if Unix cost model not obvious.**
- **If on PA-RISC – ditto (but even more so)**
- **If pen poised on Superdome2 upgrade – do you really want to spend 2011 executing major DBMS/OS/processor transition?**
- **If joint AIX/HP-UX or Solaris/HP-UX shop – consider non-Oracle to HP-UX and Oracle to AIX/Solaris**
- **In all cases – Accelerate web & app tier deployment on x86; evaluate readiness of x86 for DBMS**
- **Prepare for the domino effect across Unix market and beyond**
- **DON'T PANIC!!!**

IBM SOFTWARE COMMIT TO PORT THE NEXT RELEASE OF DB2 ON HP-UX ITANIUM

From Inhi Suh, Vice President of IBM Information Management Product Strategy:

„ While Oracle abandons Itanium, IBM DB2 continues to treat HP-UX on Itanium as a tier one platform, providing customers with investment protection into the next decade. Oracle has announced that it has stopped any further development of its database software on Itanium. Meanwhile in the IBM Toronto Lab, **the DB2 development organization continues to build the next release of DB2 in support of the HP-UX on Itanium platform and has no plans for any change in that platform’s tier one status.** In fact, if you look at the history of DB2 support for Itanium, IBM has demonstrated a long track record of consistent support, delivering HP-UX Itanium support on the same day that we have delivered new releases on AIX, Windows, Solaris, and Linux. Unlike Oracle who has staggered its release dates leaving HP-UX customers running on Itanium behind”.



POSSIBLE GAME CHANGING EVENTS (FORWARD LOOKING SPECULATION)

- SAP will support Sybase (announced May 17th, 2011)
- SAP will deliver BI solutions based on HANA/IMDB
- SAP will deliver IMDB (In Memory DB) as a basis for OLAP and OLTP (expected 2013/14)
- Oracle's HW business will further decline independent of this announcement
- Online DB Migrations will become a standard
- More and more customers will define their IT strategy based on open system standards



A NEW KID ON THE BLOCK

<http://www.sap.com/corporate-en/press/newsroom/press.epx?pressID=15191>

SAP AND SYBASE UNVEIL PLANS FOR COMBINED ERP, DATA MANAGEMENT SOLUTION

SAP® ERP Application to Run on the High-Performance Sybase Adaptive Server Enterprise (ASE);

**Combined Solution to Maximize Value With Greater Efficiency,
Instant Access to Critical Business Information and Lower Cost for SAP Customers**

ORLANDO, Fla. - May 17, 2011 -

[SAP AG](#) (NYSE: SAP) and Sybase, Inc., an SAP company and industry leader in enterprise and mobile software, today announced plans to make the enterprise resource planning (ERP) application [SAP® ERP](#) the first [SAP® Business Suite](#) application running on Sybase Adaptive Server Enterprise (ASE) – the same high-performance relational database management system (DBMS) that powers Wall Street. In combining SAP applications with Sybase technology, along with harmonized customer services and support, the companies aim to offer organizations worldwide a new database option for running SAP applications and accessing critical information, powering significant efficiency gains and cost reductions. The announcement was made at [SAPPHIRE@NOW](#), being held in Orlando, Florida, May 15-18, 2011, where pilot customers will be showcasing how they are using SAP ERP on Sybase ASE.

Today's enterprises require instant and guaranteed access to their enterprise applications and data at affordable costs. Sybase ASE is an integral part of the SAP solution stack. The companies' plans foresee SAP ERP releases being certified out-of-the-box with the latest Sybase ASE in-market releases, and the life cycle of Sybase ASE being fully synchronized with SAP maintenance policies to simplify release and deployment planning for customers. Additionally, with the tight integration between SAP and Sybase, customers will be able to engage with a single partner focused on efficient business operations and on providing attractive licensing and maintenance terms and conditions. Ramp up and general availability of the combined solution is planned for later this year.

"Clients have clearly articulated their desire to migrate to other database and application platforms," said Martin Fink, senior vice president and general manager, Business Critical Systems, HP. "SAP and HP have reinforced their commitment to customers in support of open solutions with long-term committed roadmaps for SAP business applications and Sybase ASE for the HP-UX operating environment. For clients looking to migrate, we offer a powerful open alternative based on HP, SAP and Sybase solutions that provide better TCO, increased agility and longevity."

"SAP solutions enable enterprises to execute and optimize business and IT strategies by delivering a platform that runs essential, industry-specific and business-support processes," said Sanjay Poonen, president, Global Solutions, SAP. "With more than 30,000 customers, Sybase ASE is a proven leader in enterprise database management. Sybase ASE is a great alternative database for the large base of SAP customers looking for options to improve operational efficiency and reduce overall costs."

"In order to thrive in today's business environment, mission-critical data management systems have to meet tough challenges in performance, operational risk and efficiency, while maintaining low operational costs – all challenges that Sybase ASE addresses," said Dr. Raj Nathan, executive vice president and chief marketing officer, Sybase. "Now, through working closely together, SAP and Sybase aim to deliver Sybase ASE with SAP applications to easily deliver business and industry-specific functionality. This co-innovation will help advance SAP's place in the market by supplying users with a reliable, secure database server that is perfectly tailored for, and greatly maximizes, the value of, SAP

SAP ANNOUNCES SYBASE SUPPORT (1)

SAP and Sybase Unveil Plans for Combined ERP, Data Management Solution

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HP and Red Hat quoted in this press release, but no other HW or OS vendor



SAP ANNOUNCES SYBASE SUPPORT (2)

SAP and Sybase Unveil Plans for Combined ERP, Data Management Solution

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From the SAP press release:

With this release, SAP and Sybase will continue to build a foundation for long-term growth of Sybase ASE, investing in technology innovations and certifying Sybase ASE with key SAP Business Suite applications. **Further planned development efforts will extend the certification to additional SAP applications, including the most recent releases and enhancement packages of the SAP® Customer Relationship Management, SAP® Supplier Relationship Management, SAP® Product Lifecycle Management and SAP® Supply Chain Management applications, as well as the SAP NetWeaver® Portal component, the SAP NetWeaver® Process Integration offering and the SAP NetWeaver® Business Warehouse component.**

SAP and Sybase are currently piloting a program of SAP ERP running on Sybase ASE with select customers. General availability is planned for later this year.



SYBASE/SAP HISTORY

- Sybase SQL Server, developed in 1987/88 (Unix, VMS)
- Co-development with Microsoft until 1993 (OS/2, Windows)
- In 1995 Sybase renamed database to Sybase ASE
- In 1996 first MSFT SQL Server 6.0 independent from Sybase code base
- In 1999 first SAP SD benchmark based on SQL Server 7.0
- In 2010 SAP acquired Sybase
- In 2011 multiple SAP solutions based on Sybase mobility technologies
- Sapphire 2011 announcement for Sybase ASE support
- Sybase will release a new ASE version for SAP, Sybase ASE 15.7. Also known as the SAP release. You can expect many Oracle type enhancements to natively support SAP.

SAP - Sybase ASE - ECC

- SAP and Sybase, an SAP company, have been working together to perfectly tailor Sybase Adaptive Server Enterprise for SAP applications.



- SAP ERP on ASE is in Pilot Phase on Linux and Windows now
- SAP on ASE Ramp-Up begins June
- General availability of SAP on ASE on HP-UX Nov./Dec 2011

FEATURE COMPARISON SYBASE/ORACLE IN A SAP ENVIRONMENT

<http://psoug.org/reference/sybase.html>

http://www.rocket99.com/sybase/syb_vs_ora.html

Sybase ASE	Oracle	Impact on
Sybase ASE Cluster Edition (CE)	Oracle Real Application Cluster (RAC)	scale out, rolling upgrade
Index		
no equivalent	Bitmap	size of index space
no equivalent	Compressed	size of index space
Materialized Views		
no equivalent	Materialized Views of any type	external apps only
Tables		
no equivalent	Compressed Table	size of table space
Data Types		
VARCHAR (8K), NVARCHAR (8K), VARCHAR (8K)	NCHAR (32K), NVARCHAR2 (32K), NVARCHAR2 (32K)	SAP Cluster Tables
no equivalent	LONG (2GB), CLOB (128 TB)	any large object
UTF16 encoding	UTF8 encoding	database space
Transaction consistency		
Reads block writes, writes block reads	Reads do not block writes, writes do not block reads	Performance, but not sure if any impact on SAP
no equivalent	undo segments	Manageability
logging required	logging optional	mass load performance
page locking	record locking	Contention
no equivalent	Flashback	Manageability
Instance model		
single process, each connection upto 60kB	multiple processes, each connection 1MB	footprint
devices, configuration files	data, control, log, archive, configuration files	Manageability
Program area, data cache, stored poc cache	SGA, shared pool, redo log buffer, DB buffer	Performance
2 processes (data server, backup server)	6 processes (PMON, SMON, DBWn, LOGWR, ARCn, CKPT),	Performance

RECOMMENDATION TO CUSTOMERS

- There is no urgency to change anything, see SAP OSS note 1575609 – everything is safe until at least 2018
- The market is very dynamic right now, so any possible migration target may turn out to be the wrong one after 3 years from now
- As there is no urgency to change anything today and there is no certainty about the future of ANY migration target, wait 1-2 years until the market has settled again and then make an informed decision what to do
- At the end, there is only one platform neutral DB vendor left: SAP!



Q&A

