Kernels of Wisdom from

COLLABORATE09

Technology and Applications Forum for the Oracle Community

or:

What I Learned from Spending a Week with 8000 of my Closest Friends...

-Troy Ligon

What's a Collaborate?

Independent Oracle Users Group

Oracle Applications Users Group

PeopleSoft, JDEdwards, Siebel Users Group

2009 STATISTICS

Attendees = 8000+

Keynotes = 2

Vendor Booths = 250+

IOUG Presentations = 365
Total Presentations = 1045

Miles Walked = ????

ATTENDEES = 8000+

Note to Self:
Arrive early before the check-in lines get too long.

KEYNOTES = 2

What did the IBM Senior Vice President have to say?

What did the Oracle President have to say?

IBM VicePresident

Al Smith

IBM VicePresident

Who?

ORACLE President

Charles Phillips

Applications Unlimited
Delivering Innovation with New Product Releases
JD Edwards World A9.1
5 New Products
291 Enhancements
Siebel CRM 8.1.1
113 New Features
72 Enhancements
JD Edwards E1 9.0
Tools 8.98
1 New Product
437 Enhancements
PeopleSoft Enterprise 9.0
2 New Products
1478 Enhancements
Siebel CRM 8.0
10 New Products
366 Enhancements
CRM On Demand 16
CRM On Demand 15
CRM On Demand 14
G-Log OTM 6.0
JD Edwards E1 8.12
5 New Products
291 Enhancements
Demantra 7.2
CRM On Demand 13
Agile PLM 9.2.2.4
Agile PLM for Process 5.2
CRM On Demand 12
E-Business Suite 12
18 New Products
2443 Enhancements
2006
2007
2008
2009
ORACLE

- Oracle continues to enhance it’s strategic investments and acquisitions
- Oracle continues to deliver strategic advantage through enabling new technologies
- Oracle is making it easier for customers to take advantage of new capabilities and technologies that deliver business value

ORACLE
Sun

Extended Support Announcement

(1) Waive Fee for First Year of Extended Support

	End Date Premier Support	Period Of Extended Support Waiver
• Oracle EBS 11i/10	Nov 2010	Dec 2010 – Nov 2011
• JD Edwards EnterpriseOne 8.11	Dec 2009	Jan 2010 – Dec 2010
• Siebel CRM 7.8	May 2010	June 2010 – May 2011
• Oracle Database 10gR2	Jul 2010	Aug 2010 – Jul 2011

(2) Waive Extended Support Fee through June 2011

	End Date Premier Support	Period Of Extended Support Waiver
• PeopleSoft Enterprise 8.9	Jun 2009 thru Feb 2011	Jul 2009 thru Jun 2011

(3) Continue to Provide S1 Support & 1099 year-end update for an additional year during Sustaining Support

	End Date of Current S1 Support	Period for Additional S1 Support
• Oracle EBS 11i9	Jun 2009	Jul 2009 – Jun 2010

ORACLE

VENDOR Booths = 250+

They are all vying for your Attention

Some hand out cool trinkets...

Some have drawings for more valuable prizes...(wii's and iPod Touch's were popular)

I won this cool Brookstone Tower Stereo System for iPod from our friends at Symantec

Others are a bit more creative

Others are a bit more creative

Others are a bit more creative

Others are a bit more creative

IOUG got into the act with a night at Universal Studios

VENDOR BOOTHS

The IOUG BOOK STORE

A great opportunity to flip through any of those Oracle books you've been considering...

ORACLE BOOKS
Oracle Database 11g
SQL
New Features
A Beginner's Guide

RFID Sourcebook
Agile Database Techniques
Java
SQL
MySQL
CSS
C# 3.0
XML
Windows Vista

The Complete Reference
Oracle Wait Event Tuning
Oracle Data Mining
Easy Oracle PL/SQL Programming

Oracle Database 11g
New Features
TEAM

THE EXPERT'S VOICE® IN ORACLE
OakTable PRESS
Oracle Insights
Tales of the Oak Table
Eleven leading authorities on Oracle's database engine share their unique insights on how best to exploit the software.
Mogens Nørgaard, Dave Ensor, Tim Gorman,
Kyle Hailey, Anjo Kolk, Jonathan Lewis, Connor McDonald,
Cary Millsap, James Morle, David Ruthven,
and Gaja Krishna Vaidyanatha
Foreword by Andrew Holdsworth,
Director of Real World Performance, Oracle Corporation
Apress®

Presentations

This Event is
for Users
by Users

The Usual Suspects

ORACLE
Effective Oracle by Design
EXPERT
THOMAS KYTE
Oracle Press

The Usual Suspects

The Oak Table Network was well represented...

Jonathan's Hints

Rules of hinting

- Don't
  - Unless you really have to
- If you do hint, stick to the 'strategic' hints
  - and assume you've got it wrong
- Test hinted SQL on every patch or upgrade
- Test it after every piece of associated DDL

Jonathan's Hints

Dangers of hints

- Oracle MUST obey your hints
  - Unless you've got the syntax wrong
  - Or you've got the spelling wrong
  - Or you've got the context wrong
  - Or the hint is illegal
  - Or you have contradictory hints in one statement
- The hints are very badly documented !
  - There are 236 hints in 11.1.0.6 (how many are documented ?)
  - select * from v$sql_hint

THE EXPERT'S VOICE® IN ORACLE
Cost-Based
Oracle
Fundamentals
"The insights that Jonathan provides into the workings of the cost-based optimizer will make a DBA a better designer and a developer a better SQL coder. Both groups will become better troubleshooters."
—Thomas Kyte
Jonathan Lewis
Foreword by Thomas Kyte
Vice President (Public Sector), Oracle Corporation
Apress®

The Usual Suspects

The Oak Table Network was well represented...

Is "142,517 rows" re
Can you make the networ
Can you get the same answ

Is "142,517 rows" really sensible
Can you make the network I/O any cheaper
Can you get the same answer with less CPU?
What's with the negative durations?

Is "142,517 rows" really sensible?
Can you make the network I/O any cheaper?
Can you get the same answer with less CPU?
What's with the negative durations?

Cary's Tuning Advice

You should always measure response time before you optimize anything.

The beauty of profiling...

Cary's Tuning Advice

Profiling shows you exactly where to focus your attention.

And you can forget about everything else.

Cary's Tuning Advice

But Troy, what is profiling and how do I do it?

Cary's Tuning Advice

But Troy, what is profiling and how do I do it?

```
alter session set events='10046 trace name
context forever, level 12';
```

This produces a *.trc file in user_dump_dest

Cary's Tuning Advice

Sample Excerpt from Tracefile:

```
PARSING IN CURSOR #1 len=21 dep=0 uid=55 oct=3 lid=55 tim=1198860497738418 hv=3808180571 ad='2d45e9d0'
select * from sla_run
END OF STMT
PARSE #1:c=0,e=251,p=0,cr=0,cu=0,mis=0,r=0,dep=0,og=1,tim=1198860497738414
BINDS #1:
EXEC #1:c=0,e=84,p=0,cr=0,cu=0,mis=0,r=0,dep=0,og=1,tim=1198860497738645
WAIT #1: nam='SQL*Net message to client' ela= 2 driver id=1952673792 #bytes=1 p3=0 obj#=-1 tim=1198860497738727
WAIT #1: nam='SQL*Net message from client' ela= 25227 driver id=1952673792 #bytes=1 p3=0 obj#=-1 tim=1198860497764024
WAIT #1: nam='SQL*Net message to client' ela= 24 driver id=1952673792 #bytes=1 p3=0 obj#=-1 tim=1198860497764438
FETCH #1:c=0,e=355,p=0,cr=4,cu=0,mis=0,r=10,dep=0,og=1,tim=1198860497764514
WAIT #1: nam='SQL*Net message from client' ela= 7851 driver id=1952673792 #bytes=1 p3=0 obj#=-1 tim=1198860497772417
```

Cary's Tuning Advice

How to read the DB call lines…

FETCH #1:c=0,e=355,p=0,cr=4,cu=0,mis=0,r=10,dep=0,og=1,tim=1198860497764514

- FETCH — a fetch call (not a PARSE or EXEC)
- #1 — Oracle cursor id 1
- c=0 — consumed 0 ± 10,000 microseconds of CPU time
- e=355 — consumed 355 ± 1 microsecond of elapsed time
- p=0 — 0 Oracle blocks obtained by OS read calls
- cr=4 — 4 "consistent mode" accesses upon the Oracle database buffer cache
- cu=0 — 0 "current mode" accesses upon the Oracle database buffer cache
- mis=0 — 0 misses upon the Oracle library cache
- r=10 — 10 rows returned
- dep=0 — 0 levels "above" this call in the DB call stack
- og=1 — Oracle optimizer goal is "ALL" (ALL, FIRST, RULE, CHOOSE)
- tim=n — call completed at time *n* ± 1 (in microseconds)

Cary's Tuning Advice

How to read the OS call lines…

WAIT #2: nam='SQL*Net message from client' ela= 985 driver id=1952673792 #bytes=1 p3=0 obj#=-1 tim=1198860497738097

- WAIT — an OS call (not a DB call)
- #2 — Oracle cursor id 2
- nam='s' — call name is *SQL*Net message from client*
- ela=985 — consumed 985 ± 1 microsecond of elapsed time
- driver id, … — each has 3 parameters that make sense for that type of call
- obj#=-1 — this call had no database object id upon which it operated
- tim=n — call completed at time *n* ± 1 (in microseconds)

Cary's Tuning Advice

The Usual Suspects

Richard Niemiec

President of TUSC

Past IOUG President

How Oracle Came to Rule

Some interesting trivia about the early days of Oracle Corp.

How Oracle Came to Rule

Some interesting trivia about the early days of Oracle Corp.

When was Oracle formed?

How Oracle Came to Rule

June 16, 1977
Systems Development Laboratories (SDL) was incorporated

How Oracle Came to Rule

Some interesting trivia about the early days of Oracle Corp.

Where did SCOTT/TIGER come from?

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Some interesting trivia about the early days of Oracle Corp.

Where did SCOTT/TIGER come from?

Bruce SCOTT was one of the founding Software Engineers of Oracle.

How Oracle Came to Rule

Some interesting trivia about the early days of Oracle Corp.

Where did SCOTT/TIGER come from?

Bruce SCOTT was one of the founding Software Engineers of Oracle.

TIGER was Bruce's daughter's cat.

How Oracle Came to Rule

Some interesting trivia about the early days of Oracle Corp.

Who were the orignal 3 Oracle employees?

How Oracle Came to Rule

Some interesting trivia about the early days of Oracle Corp.

Who were the orignal 3 Oracle employees?

Bob Miner – President
Bruce Scott & Ed Oates – Software Engineers

How Oracle Came to Rule

What? Where was Larry?

How Oracle Came to Rule

What? Where was Larry?

Larry knew Bob from when they worked together at Ampex on a CIA project codenamed "ORACLE". While Larry was one of the original investors who provided SDL with it's $2k of startup capital, he was actually working for Precision Instruments at the time. PI was looking for a vendor for a two-year, $400k consulting project. Larry landed the deal for SDL. SDL was able to complete 90% of the work in the first year, essentially banking a $200k profit.

How Oracle Came to Rule

But Troy, that still doesn't explain how SDL became Oracle.

How Oracle Came to Rule

In 1969, an IBM Systems Engineer, E.F.Codd, wrote an internal paper describing a relational database that he called System/R with a Structured Query Language that he called SEQUEL/2. IBM ignored it so Codd publicly published it in 1970.

How Oracle Came to Rule

Larry brought Codd's paper to his partners at SDL and asked if they could build it using the extra year and $200k from the PI deal. Larry wanted to change the company from a consulting company to a product company.

So they left Ed to finish the remaining 10% of the work on the PI deal while Bob and Bruce set to work coding "ORACLE".

How Oracle Came to Rule

In the early days, an interviewer asked:
"Does anyone ever ask for their money back?"

Larry's reply:
"No, but they used to ask us for their DATA back."

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CEO of TUSC and Oracle Certified Master
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Wednesday, May 6, 2009	W221AB	W221CD	W222A	W222B	W224A	W224B	W224C
07:15 AM							
07:30 AM							
07:45 AM							
08:00 AM							
08:15 AM							
08:30 AM	533 - ADF On Ramp: What You Need to Know to use the ADF Fusion Technology Stack	534 - Oracle11g New Features for Developers	234 - Leveraging the Smart View VBA toolkit	359 - Oracle Critical Patch Updates: Insight and Understanding	151 - Realize the True Linux Opportunity with Oracle Unbreakable Linux	361 - But I Don't do Windows - Oracle on Windows for UNIX folks and Newbies	799 - Building a Portal in 45 Minutes with WebLogic Portal
08:45 AM							
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09:30 AM							
09:45 AM		365 - Flashback Features in Oracle 11g	121 - Troubleshooting Oracle Clusterware	135 - Virtualizing the Oracle Database on VMware Infrastructure	368 - De-Mystifying "X" - Oracle Exadata /Database Platform		V7 - R12 Implementation
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Event Information

Troubleshooting Oracle Clusterware

Session ID	121
Day	Wednesday, May 6, 2009
Time	9:45 AM - 10:45 AM
Room	W222A
Event Type	Technical Session (1 Hour)
Speakers	Dan Norris (DanNorris.com)
Track	Architecture and Infrastructure
Sub-Category	High Availability and Clustering
Presentation Type	Technical Session (1 hour)
Objective 1	Attendees should leave this session better prepared to deal with clusterware issues.
Objective 2	Attendees will have more knowledge of tools used to evaluate clusterware symptoms.
Objective 3	Attendees should better understand Clusterware's role in a RAC cluster.
Abstract	Oracle Clusterware is present in all Oracle RAC configurations, but it is often overlooked as a managed piece of software. Since it isn't a database, many DBAs aren't familiar with its function or techniques for troubleshooting its behaviors. To better understand and be ready for troubleshooting this relatively new software, we start by examining its components and their purposes. An understanding of how each piece fits together will better enable DBAs to quickly identify the most likely source of problems in the stack. Familiarity with the proper operating system and Oracle tools enables DBAs to reveal the right information at the right times to debug the Clusterware components and processes. Finally, adding a troubleshooting process to the sometimes overwhelming stack of software that makes up a RAC cluster can be the key to combining knowledge of Clusterware architecture and processes with the proper tools to quickly identify the right resolution to most issues. Clusterware has ability to reboot servers without warning and sometimes the reasons for its actions are not easily identified. With so much power to affect overall availability, the Clusterware is a critical component and it is important to understand its troubleshooting just as thoroughly as the database layer troubleshooting.
Moderator	Vinod Haval

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IOUG OAUG Quest

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Moderator Vinod Haval

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Moderator Vinod Haval

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What Does all this Cost?

$2075 Full Price

What Does all this Cost?

$2075	Full Price
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What Does all this Cost?

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COLLABORATE 10

April 18 - April 22, 2010

Mandalay Bay Convention Center
Las Vegas, Nevada

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COMING UP

SOUG: July23
- Sentrigo – Hedgehog Intrusion Detection/Prevention

CFOUG: July27
- Bert Scalzo – Quest – Engineering Beter PL/SQL

Tuesday, August 11, 2009 9:30 a.m. – 3:15 p.m.
Tom Kyte – **Respond Faster to Changing Business Conditions with Oracle Database 11*g*.**
Register at **1.800.820.5592 ext 6449.**
Disney's Grand Floridian Resort & Spa
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JOB LINE

I have an opportunity based in the UK for an experienced OBIEE consultant - ideally we would like a senior-level resource with full implementation experience. The resource must be able to travel to the UK. The need is immediate, so please send any references right away.

Thank you,

Tracey M. Forgue
email: hellotmf@yahoo.com

JOB LINE

Hey Troy!
It was a pleasure speaking with you today! The position I am working on is a perm Oracle DBA in Melbourne. They are looking for someone who is not afraid to do development in T-SQL and SQL, and who has both **Oracle** and **Sybase** experience. They need to have strong **replication** experience. The salary range is $80-$100k. Thanks Troy, I look forwarded to hearing from you!
Sincerely,
Ryan Adams
Sourcing Recruiter
ryana@consultis.com
605 Crescent Executive Drive, Suite 132, Lake Mary, FL 32746
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