



NYOUG Winter 2012 Training Session
Mastering Oracle Trace Data

with Cary Millsap, Method R Corporation

Date Tuesday January 17, 2012

Time 9:00 A.M. – 4:00 P.M.

Location Room 123 · St. John's University · 101 Murray Street · New York NY 10007

Schedule

8:30 A.M.	Lobby	Registration opens
9:00 A.M.	Room 123	Breakfast and informal discussion with Cary Millsap
10:00 A.M.	Room 123	Class begins
12:30 P.M.	Room 123	Lunch
1:30 P.M.	Room 123	Class resumes
4:00 P.M.	Room 123	Class dismissed

Cary Millsap is an entrepreneur, software technology advisor, software developer, and Oracle software performance specialist. His technical papers are quoted in many Oracle books, in Wikipedia, in blogs all over the world, and in dozens of conference presentations each month. His blog is read by thousands of people each month. He has presented at hundreds of public and private events around the world. He wrote the book *Optimizing Oracle Performance* (O'Reilly 2003), for which he and co-author Jeff Holt were named *Oracle Magazine's* 2004 Authors of the Year.

Mastering Oracle Trace Data

- 1 Thinking Clearly about Performance (1 hour)
 - What is performance?
 - How do you diagnose performance problems?
 - What is a profile, and how does it help measure performance?
 - What is skew? What problems does it cause? How do you find it?
 - How do you make a system more efficient?
 - What is load, and how does it affect performance?
 - How can you improve the quality of your performance testing?

- 2 Making Friends with the Oracle Database (45 minutes)
 - How can you use profiling and skew analysis to assess the efficiency of a typical Java program?
 - How can you predict the performance of a proposed remedy action?
 - How do you incorporate profiling into the software development process?

- 3 Oracle Extended SQL Trace Data (1 hour 45 minutes)
 - How do you control the trace?
 - How do you interpret the trace data?
 - What are the fields in the trace data?
 - How do the trace file lines interrelate to describe response time?
 - How does the Oracle Database kernel account for nested calls (“recursion”)?
 - What are some common problems with trace data, and how do you solve them?
 - How does the software that comes with the class relate to trace files?

- 4 What the Oracle Call Names Mean (30 minutes)
 - How can you use *strace* and Unix documentation to learn more about the Oracle call names than you can learn from Oracle documentation or even Google?
 - What do some of the incorrectly documented calls really mean?

- 5 Using Oracle Trace Data (1 hour)
 - How do you use the Method R Tools distributed with the course material?
 - Why is trace file time scoping so important?
 - How do you prevent performance problems early in the development lifecycle?
 - How do you solve performance problems late in production operation?
 - How do you deal with connection-pooled applications?
 - How do you work with trace data from Oracle Exadata systems?