Two-day Storage Seminar for Database Administrators
with James Morle

May 17–18, 2011 • Register at **http://www.nocoug.org**

If you would like to gain a better understanding about the storage tier and be able to communicate well with your storage administration colleagues when there are problems, make sure to attend this two-day seminar by James Morle. The seminar is focused on the component of the database platform that is probably the least understood—the storage tier.

The storage tier is often shrouded in mystery, frequently managed by other teams, and more often than not performing very badly. This seminar aims to deconstruct the storage tier and demystify the operation of the myriad components within it. Starting with the moment Oracle determines a need to go to disk until that requirement is fulfilled, we look in detail at all the processes and technology that lie in between. You will also learn some vital theory topics to help you gain a better understanding of what you can expect, and specific nuts and bolts explanations of how an I/O request is requested and serviced in many different configurations. As well as static slides, we will look at some examples of Oracle doing I/O and show some diagnostic techniques so that you can find out what is happening in your specific case. The seminar will be relatively informal, with the emphasis on asking questions and gaining understanding.

Objectives

- Understand the theory and practice of I/O.
- Understand the components that interact to comprise and I/O.
- Learn to break open the black box and troubleshoot I/O performance problems.
- Be able to make informed decisions about designing storage systems for Oracle databases.

Day One

Unit 1 - Fundamentals: Memory hierarchy, latency, bandwidth

Unit 2 - Connectivity: Fibre Channel and Ethernet

Unit 3 - The physics of disk storage

Unit 4 - The anatomy of a storage array

Day Two

Unit 1 - The server view of I/O

Unit 2 - How Oracle does I/O—Part 1

Unit 3 - How Oracle does I/O—Part 2

Unit 4 - Flash disruption and the return of the memory hierarchy

Early-Bird Pricing (Until April 9)

$700 for members
$1050 for non-members

Regular Pricing

$800 for members
$1200 for non-members

James Morle is the founder of Scale Abilities Ltd. and an Oracle and systems architecture consultant with 18 years' experience in high-end Oracle implementations and over 25 years in professional computing. He is the author of the critically acclaimed book Scaling Oracle8i, *which is now available for free download from* **http://www.scaleabilities.co.uk**, *and one of the founders of the OakTable Network.*