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HOW ORACLE Uses Memory on AIX. Part 1: Processes

In this post I am going to talk about how ORACLE allocates and uses memory when running on AIX, but I will also talk about the power of approximation and how it can sometimes be misused for ill purposes

On the outset, ORACLE/AIX memory "deal" seems simple enough — obviously, ORACLE will use memory when it runs and many AIX commands (such as **vmstat** or **ps**) will show memory usage both system wide and specific to particular process. But, as always, the devil is in the details and the effect of those "details" may be far from subtle.

So, why don't we go ahead and find that devil, shall we?

The straightforward (but naive) approach

Let's say that we have an ORACLE instance running on one of our AIX servers. How do we find out how much memory it is using?

First of all, let's consider what ORACLE memory consists of Here we actually have 2 separate parts:

- Memory used by System Global Area or SGA, that is implemented in AIX as a shared memory segment.
- 2. Total memory used by ORACLE processes that represent the instance.

Next, let's determine how much memory is used by each part.

Fortunately, SGA size is readily available -> just run ipes -bm command and it's there (The size of shared segment should match sga_max_size in 10g or memory_max_target in 11g).

Calculating "process" memory is a bit more involved as we need to sum memory used by ALL instance processes, but it is not very difficult either. ps -l command will show individual process memory size and a simple awk script can sum all of them up, such as:

AIX> ps -elf | egrep " oracle\${ORACLE_SID} | ora_.*_\${ORACLE_SID} " | grep -v egrep | awk '{sum += \$10} END {print sum/1024}'

The sum of SGA size and process size will obviously represent total memory usage by ORACLE instance and you can see the entire calculation in the slide below.

How Oracle Uses Memory On Aix Part 1 Processes

Randal Michael

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Table of Contents How Oracle Uses Memory On Aix Part 1 Processes

- 1. Understanding the eBook How Oracle Uses Memory On Aix Part 1 Processes
 - The Rise of Digital Reading How Oracle Uses Memory On Aix Part 1 Processes
 - o Advantages of eBooks Over Traditional Books
- 2. Identifying How Oracle Uses Memory On Aix Part 1 Processes
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an How Oracle Uses Memory On Aix Part 1 Processes
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from How Oracle Uses Memory On Aix Part 1 Processes

- Personalized Recommendations
- How Oracle Uses Memory On Aix Part 1 Processes User Reviews and Ratings
- How Oracle Uses Memory On Aix Part 1 Processes and Bestseller Lists
- 5. Accessing How Oracle Uses Memory On Aix Part 1 Processes Free and Paid eBooks
 - How Oracle Uses Memory On Aix Part 1 Processes Public Domain eBooks
 - How Oracle Uses Memory On Aix Part 1 Processes eBook Subscription Services
 - How Oracle Uses Memory On Aix Part 1 Processes Budget-Friendly Options
- 6. Navigating How Oracle Uses Memory On Aix Part 1 Processes eBook Formats
 - o ePub, PDF, MOBI, and More
 - How Oracle Uses Memory On Aix Part 1 Processes Compatibility with Devices
 - How Oracle Uses Memory On Aix Part 1 Processes Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of How Oracle Uses Memory On Aix Part 1 Processes
 - Highlighting and Note-Taking How Oracle Uses Memory On Aix Part 1 Processes
 - Interactive Elements How Oracle Uses Memory On Aix Part 1 Processes
- 8. Staying Engaged with How Oracle Uses Memory On Aix Part 1 Processes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - \circ Following Authors and Publishers How Oracle Uses Memory On Aix Part 1 Processes
- 9. Balancing eBooks and Physical Books How Oracle Uses Memory On Aix Part 1 Processes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection How Oracle Uses Memory On Aix Part 1 Processes
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine How Oracle Uses Memory On Aix Part 1 Processes
 - Setting Reading Goals How Oracle Uses Memory On Aix Part 1 Processes
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of How Oracle Uses Memory On Aix Part 1 Processes

- Fact-Checking eBook Content of How Oracle Uses Memory On Aix Part 1 Processes
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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