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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:

1. 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 `ipcs -bm` command and it's there (The size of shared segment should match `sga_max_size` in `log` or `memory_max_target` in `llg`).

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

JL Elias



How Oracle Uses Memory On Aix Part 1 Processes:

Oracle SQL Recipes Grant Allen,Bob Bryla,Darl Kuhn,Chris Allen,2010-01-08 Have you ever been faced with a new type of query to write or been asked to create an unfamiliar database object In such situations you have probably wanted a good solid example upon which to build and instead have been forced into the drudgery of parsing railroad style syntax diagrams in Oracle s manual set This book frees you from that drudgery by providing tested and working examples of SQL used to solve common problems faced by developers and database administrators on a daily basis When you re under pressure to get results fast Oracle SQL Recipes is there at your side Example based providing quality solutions to everyday problems Respects your time by putting solutions first and keeping discussions short Solves the most commonly encountered SQL problems

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Linux Recipes for Oracle DBAs Darl Kuhn,Bernard Lopuz,Charles Kim,2008-11-21 Linux Recipes for Oracle DBAs is an example based book on managing Oracle Database in a Linux environment Covering commonly used distributions such as Red Hat Enterprise Linux and Oracle Enterprise Linux the book is written for database administrators who need to get work done and lack the luxury of curling up fireside with a stack of Linux documentation The book is task oriented Look up the task to perform See the solution Read up on the details Get the job done Takes you directly from problem to solution Covers the right mix of Linux user and administration tasks for database administrators Respects your time by being succinct and to the point What you ll learn Execute Linux commands applicable to Oracle Database administration Write shell scripts to automate critical DBA tasks Monitor tune and optimize a Linux server to run Oracle Database Perform Linux system administration tasks relevant to Oracle Database Implement Oracle real application clusters on Linux Implement Oracle automatic storage management on Linux Remotely and securely manage Oracle on Linux Who this book is for Linux Recipes for Oracle DBAs is a book for Oracle database administrators who want to expertly operate Oracle databases on the Linux operating system If you re new to Linux or are migrating from a Unix platform or just want detailed solutions for tasks that

Oracle DBAs perform on Linux servers this book is for you *RMAN Recipes for Oracle Database 11g* Sam Alapati,Darl Kuhn,Arup Nanda,2007-09-01 In this book Oracle experts Darl Kuhn Sam Alapati and Arup Nanda show you the power of Recovery Manager or RMAN which is Oracle s backup and recovery tool of choice Oracle RMAN Recipes helps you take advantage of all that RMAN has to offer This handy guide demystifies the steps required to protect your business data It provides ready made and example based solutions to common and some not so common backup and recovery operations

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