**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 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

**Robert R. Redfield**

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web es handelt sich meiner meinung nach um eine empfehlenswerte biographie über den schriftsteller eric blair alias george orwell hintergründe zu seinen einstellungen und gedanken sowie eine lebhafte darstellung seines lebens erklären die hochinteressante einzigartige art seiner werke

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web die veröffentlichung seines meisterwerks überlebt er nur um einige wenige monate der 46 jährige schriftsteller stirbt am 21 januar 1950 in london nur ein jahr nach seiner heirat mit sonia mary brownell george orwell gehört zu den großen verfassern und kritischen denkern und humanisten des 20 jahrhunderts

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web apr 2 2014 best known for painter and muralist diego rivera sought to make art that reflected the lives of the working class and native peoples of mexico industries art painting

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web diego maría de la concepción juan nepomuceno estanislao de la rivera y barrientos acosta y rodríguez known as diego rivera spanish pronunciation ˈdjeɣo riˈβeɾa december 8 1886 november 24 1957 was a prominent mexican painter

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web diego rivera mexican painter whose bold large scale murals stimulated a revival of fresco painting in latin america a

government scholarship enabled rivera to study art at the academy of san carlos in mexico city from age 10 and a grant from the governor of veracruz enabled him to continue his