

Re: What does "koh-kghu call " mean?

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Source:

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- *From:* Connor McDonald <connor_mcdonald@xxxxxxxx>
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Jonathan Lewis wrote:

"Connor McDonald" <connor_mcdonald@xxxxxxxx> wrote in message news:442681C3.6D75@xxxxxxxxxxxx

Jonathan Lewis wrote:

In the SGA management, there are 255 lists, of which the first 200 or so are each for a very specific chunk size (change by four bytes as you go from list to list) then about 50 with size ranges. This lets Oracle find free memory very rapidly for SGA management – possibly the same code has been applied for the PGA with fewer items in the list, therefore a greater need to standard the use of chunk sizes and minimize the possible chunk count. One strategy for this would be to 'predict' the need for large chunks than the actual code call demanded. If you change my test from 4K strings to 16K strings, I think the allocation jumped to chunks of 64K.

Can't remember where I read it, and certainly haven't tried to verify it, but from 10.2, the 255 lists apparently have been raised to 4096.

Just did a quick check.

It hasn't changed from 255, but the free memory for the reserved pool has been split from a single free list to a set of 14 free lists with the following lower limits:

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Reserved bucket 0 size=16
Reserved bucket 1 size=4400
Reserved bucket 2 size=8204
Reserved bucket 3 size=8460
Reserved bucket 4 size=8464
Reserved bucket 5 size=8468
Reserved bucket 6 size=8472
Reserved bucket 7 size=9296
Reserved bucket 8 size=9300
Reserved bucket 9 size=12320
Reserved bucket 10 size=12324
Reserved bucket 11 size=16396
Reserved bucket 12 size=32780
Reserved bucket 13 size=65548

I believe there was a paper at Oracle World this year that said that they were trying to increase the use of standard size chunks of 1K and 4K in the shared pool. Perhaps that's where your memory of 4096 came from.

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Regards

Jonathan Lewis

http://www.oracle.com/technology/community/oracle_ace/ace1.html#lewis

The Co-operative Oracle Users' FAQ

http://www.jlcomp.demon.co.uk/faq/ind_faq.html

Cost Based Oracle: Fundamentals

http://www.jlcomp.demon.co.uk/cbo_book/ind_book.html

ah, that's jogged the memory. I was scanning through the slides from JB's OOW presentation and read "4096 chunk sizes" from the slides. A more careful check through the accompanying white paper gave a better clarification.

Cheers
Connor

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Connor McDonald

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"Semper in excremento, sole profundum qui variat."
