**WORKLOAD REPOSITORY report for**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **DB Name** | **DB Id** | **Instance** | **Inst num** | **Startup Time** | **Release** | **RAC** |
| ORCL | 1364861270 | orcl | 1 | 06-5月 -14 15:05 | 11.2.0.3.0 | NO |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Host Name** | **Platform** | **CPUs** | **Cores** | **Sockets** | **Memory (GB)** |
| ora820lnx | Linux x86 64-bit | 64 | 32 | 4 | 126.10 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Snap Id** | **Snap Time** | **Sessions** | **Cursors/Session** |
| Begin Snap: | 3360 | 06-6月 -14 11:00:43 | 83 | 5.0 |
| End Snap: | 3365 | 06-6月 -14 16:00:18 | 78 | 4.7 |
| Elapsed: |  | 299.58 (mins) |  |  |
| DB Time: |  | 3.97 (mins) |  |  |

**Report Summary**

**Cache Sizes**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Begin** | **End** |  |  |
| Buffer Cache: | 18,816M | 18,816M | Std Block Size: | 8K |
| Shared Pool Size: | 5,376M | 5,376M | Log Buffer: | 154,616K |

**Load Profile**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Per Second** | **Per Transaction** | **Per Exec** | **Per Call** |
| DB Time(s): | 0.0 | 0.0 | 0.00 | 0.00 |
| DB CPU(s): | 0.0 | 0.0 | 0.00 | 0.00 |
| Redo size: | 10,547.5 | 1,097.0 |  |  |
| Logical reads: | 526.2 | 54.7 |  |  |
| Block changes: | 64.9 | 6.8 |  |  |
| Physical reads: | 0.1 | 0.0 |  |  |
| Physical writes: | 1.6 | 0.2 |  |  |
| User calls: | 43.1 | 4.5 |  |  |
| Parses: | 9.8 | 1.0 |  |  |
| Hard parses: | 1.7 | 0.2 |  |  |
| W/A MB processed: | 0.1 | 0.0 |  |  |
| Logons: | 0.1 | 0.0 |  |  |
| Executes: | 30.4 | 3.2 |  |  |
| Rollbacks: | 0.0 | 0.0 |  |  |
| Transactions: | 9.6 |  |  |  |

**Instance Efficiency Percentages (Target 100%)**

|  |  |  |  |
| --- | --- | --- | --- |
| Buffer Nowait %: | 100.00 | Redo NoWait %: | 99.99 |
| Buffer Hit %: | 99.99 | In-memory Sort %: | 100.00 |
| Library Hit %: | 89.07 | Soft Parse %: | 82.56 |
| Execute to Parse %: | 67.97 | Latch Hit %: | 99.95 |
| Parse CPU to Parse Elapsd %: | 88.37 | % Non-Parse CPU: | 84.68 |

**Shared Pool Statistics**

|  |  |  |
| --- | --- | --- |
|  | **Begin** | **End** |
| Memory Usage %: | 78.12 | 78.63 |
| % SQL with executions>1: | 97.01 | 97.11 |
| % Memory for SQL w/exec>1: | 95.67 | 93.70 |

**Top 5 Timed Foreground Events**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Event** | **Waits** | **Time(s)** | **Avg wait (ms)** | **% DB time** | **Wait Class** |
| DB CPU |  | 212 |  | 89.04 |  |
| log file sync | 173,439 | 42 | 0 | 17.69 | Commit |
| SQL\*Net message from dblink | 1,170 | 6 | 5 | 2.67 | Network |
| SQL\*Net more data from dblink | 222 | 3 | 13 | 1.23 | Network |
| SQL\*Net message to client | 637,990 | 1 | 0 | 0.44 | Network |

**Host CPU (CPUs: 64 Cores: 32 Sockets: 4)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Load Average Begin** | **Load Average End** | **%User** | **%System** | **%WIO** | **%Idle** |
| 0.09 | 0.02 | 0.0 | 0.0 | 0.0 | 100.0 |

**Instance CPU**

|  |  |  |
| --- | --- | --- |
| **%Total CPU** | **%Busy CPU** | **%DB time waiting for CPU (Resource Manager)** |
| 0.0 | 70.6 | 0.0 |

**Memory Statistics**

|  |  |  |
| --- | --- | --- |
|  | **Begin** | **End** |
| Host Mem (MB): | 129,127.1 | 129,127.1 |
| SGA use (MB): | 25,600.0 | 25,600.0 |
| PGA use (MB): | 188.9 | 188.6 |
| % Host Mem used for SGA+PGA: | 19.97 | 19.97 |

**Main Report**

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* [**Wait Events Statistics**](about:blank#21)
* [**SQL Statistics**](about:blank#22)
* [**Instance Activity Statistics**](about:blank#23)
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**Wait Events Statistics**

* [**Time Model Statistics**](about:blank#1500)
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* [**Operating System Statistics - Detail**](about:blank#1610)
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* [**Service Statistics**](about:blank#5800)
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**Time Model Statistics**

* Total time in database user-calls (DB Time): 238.3s
* Statistics including the word "background" measure background process time, and so do not contribute to the DB time statistic
* Ordered by % or DB time desc, Statistic name

|  |  |  |
| --- | --- | --- |
| **Statistic Name** | **Time (s)** | **% of DB Time** |
| DB CPU | 212.14 | 89.04 |
| sql execute elapsed time | 118.89 | 49.90 |
| parse time elapsed | 37.99 | 15.95 |
| hard parse elapsed time | 23.14 | 9.71 |
| connection management call elapsed time | 3.75 | 1.58 |
| PL/SQL execution elapsed time | 2.55 | 1.07 |
| hard parse (sharing criteria) elapsed time | 1.88 | 0.79 |
| sequence load elapsed time | 0.60 | 0.25 |
| PL/SQL compilation elapsed time | 0.22 | 0.09 |
| repeated bind elapsed time | 0.01 | 0.00 |
| failed parse elapsed time | 0.00 | 0.00 |
| DB time | 238.25 |  |
| background elapsed time | 197.56 |  |
| background cpu time | 134.23 |  |

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**Operating System Statistics**

* \*TIME statistic values are diffed. All others display actual values. End Value is displayed if different
* ordered by statistic type (CPU Use, Virtual Memory, Hardware Config), Name

|  |  |  |
| --- | --- | --- |
| **Statistic** | **Value** | **End Value** |
| BUSY\_TIME | 49,061 |  |
| IDLE\_TIME | 115,001,256 |  |
| IOWAIT\_TIME | 1,280 |  |
| NICE\_TIME | 3 |  |
| SYS\_TIME | 16,631 |  |
| USER\_TIME | 31,663 |  |
| LOAD | 0 | 0 |
| RSRC\_MGR\_CPU\_WAIT\_TIME | 1 |  |
| PHYSICAL\_MEMORY\_BYTES | 135,399,542,784 |  |
| NUM\_CPUS | 64 |  |
| NUM\_CPU\_CORES | 32 |  |
| NUM\_CPU\_SOCKETS | 4 |  |
| GLOBAL\_RECEIVE\_SIZE\_MAX | 4,194,304 |  |
| GLOBAL\_SEND\_SIZE\_MAX | 1,048,586 |  |
| TCP\_RECEIVE\_SIZE\_DEFAULT | 87,380 |  |
| TCP\_RECEIVE\_SIZE\_MAX | 4,194,304 |  |
| TCP\_RECEIVE\_SIZE\_MIN | 4,096 |  |
| TCP\_SEND\_SIZE\_DEFAULT | 16,384 |  |
| TCP\_SEND\_SIZE\_MAX | 4,194,304 |  |
| TCP\_SEND\_SIZE\_MIN | 4,096 |  |

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**Operating System Statistics - Detail**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Snap Time** | **Load** | **%busy** | **%user** | **%sys** | **%idle** | **%iowait** |
| 06-6月 11:00:43 | 0.09 |  |  |  |  |  |
| 06-6月 12:00:50 | 0.19 | 0.04 | 0.03 | 0.01 | 99.96 | 0.00 |
| 06-6月 13:00:57 | 0.01 | 0.05 | 0.03 | 0.01 | 99.95 | 0.00 |
| 06-6月 14:00:04 | 0.04 | 0.04 | 0.02 | 0.01 | 99.96 | 0.00 |
| 06-6月 15:00:11 | 0.11 | 0.04 | 0.03 | 0.01 | 99.96 | 0.00 |
| 06-6月 16:00:18 | 0.02 | 0.05 | 0.03 | 0.01 | 99.95 | 0.00 |

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**Foreground Wait Class**

* s - second, ms - millisecond - 1000th of a second
* ordered by wait time desc, waits desc
* %Timeouts: value of 0 indicates value was < .5%. Value of null is truly 0
* Captured Time accounts for 111.8% of Total DB time 238.25 (s)
* Total FG Wait Time: 54.30 (s) DB CPU time: 212.14 (s)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Wait Class** | **Waits** | **%Time -outs** | **Total Wait Time (s)** | **Avg wait (ms)** | **%DB time** |
| DB CPU |  |  | 212 |  | 89.04 |
| Commit | 173,439 | 0 | 42 | 0 | 17.69 |
| Network | 640,519 | 0 | 10 | 0 | 4.34 |
| User I/O | 2,624 | 0 | 1 | 0 | 0.43 |
| Application | 312 | 0 | 0 | 1 | 0.16 |
| Configuration | 45 | 20 | 0 | 7 | 0.13 |
| Other | 588 | 28 | 0 | 0 | 0.04 |
| Concurrency | 9 | 0 | 0 | 1 | 0.00 |
| System I/O | 7 | 0 | 0 | 0 | 0.00 |

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**Foreground Wait Events**

* s - second, ms - millisecond - 1000th of a second
* Only events with Total Wait Time (s) >= .001 are shown
* ordered by wait time desc, waits desc (idle events last)
* %Timeouts: value of 0 indicates value was < .5%. Value of null is truly 0

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Event** | **Waits** | **%Time -outs** | **Total Wait Time (s)** | **Avg wait (ms)** | **Waits /txn** | **% DB time** |
| log file sync | 173,439 | 0 | 42 | 0 | 1.00 | 17.69 |
| SQL\*Net message from dblink | 1,170 | 0 | 6 | 5 | 0.01 | 2.67 |
| SQL\*Net more data from dblink | 222 | 0 | 3 | 13 | 0.00 | 1.23 |
| SQL\*Net message to client | 637,990 | 0 | 1 | 0 | 3.69 | 0.44 |
| local write wait | 465 | 0 | 1 | 2 | 0.00 | 0.30 |
| enq: RO - fast object reuse | 308 | 0 | 0 | 1 | 0.00 | 0.16 |
| db file sequential read | 1,044 | 0 | 0 | 0 | 0.01 | 0.08 |
| log file switch completion | 35 | 0 | 0 | 5 | 0.00 | 0.08 |
| undo segment extension | 10 | 90 | 0 | 12 | 0.00 | 0.05 |
| reliable message | 425 | 0 | 0 | 0 | 0.00 | 0.04 |
| direct path read | 592 | 0 | 0 | 0 | 0.00 | 0.03 |
| Disk file operations I/O | 521 | 0 | 0 | 0 | 0.00 | 0.02 |
| db file scattered read | 2 | 0 | 0 | 7 | 0.00 | 0.01 |
| library cache: mutex X | 2 | 0 | 0 | 6 | 0.00 | 0.00 |
| SQL\*Net break/reset to client | 4 | 0 | 0 | 1 | 0.00 | 0.00 |
| SQL\*Net more data to client | 27 | 0 | 0 | 0 | 0.00 | 0.00 |
| SQL\*Net message to dblink | 1,110 | 0 | 0 | 0 | 0.01 | 0.00 |
| SQL\*Net message from client | 637,995 | 0 | 806,581 | 1264 | 3.69 |  |
| jobq slave wait | 5,420 | 100 | 2,715 | 501 | 0.03 |  |
| single-task message | 60 | 0 | 2 | 27 | 0.00 |  |

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**Background Wait Events**

* ordered by wait time desc, waits desc (idle events last)
* Only events with Total Wait Time (s) >= .001 are shown
* %Timeouts: value of 0 indicates value was < .5%. Value of null is truly 0

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Event** | **Waits** | **%Time -outs** | **Total Wait Time (s)** | **Avg wait (ms)** | **Waits /txn** | **% bg time** |
| log file parallel write | 179,351 | 0 | 22 | 0 | 1.04 | 11.18 |
| os thread startup | 207 | 0 | 4 | 20 | 0.00 | 2.09 |
| db file async I/O submit | 16,310 | 0 | 3 | 0 | 0.09 | 1.50 |
| control file parallel write | 6,719 | 0 | 2 | 0 | 0.04 | 1.15 |
| reliable message | 51 | 0 | 0 | 9 | 0.00 | 0.24 |
| latch: cache buffers chains | 336 | 0 | 0 | 1 | 0.00 | 0.10 |
| control file sequential read | 36,405 | 0 | 0 | 0 | 0.21 | 0.08 |
| ADR block file read | 75 | 0 | 0 | 0 | 0.00 | 0.02 |
| db file sequential read | 401 | 0 | 0 | 0 | 0.00 | 0.02 |
| db file single write | 300 | 0 | 0 | 0 | 0.00 | 0.02 |
| direct path sync | 2 | 0 | 0 | 12 | 0.00 | 0.01 |
| Disk file operations I/O | 634 | 0 | 0 | 0 | 0.00 | 0.01 |
| SQL\*Net break/reset to client | 4 | 0 | 0 | 3 | 0.00 | 0.01 |
| log file switch completion | 2 | 0 | 0 | 5 | 0.00 | 0.01 |
| asynch descriptor resize | 1,050 | 100 | 0 | 0 | 0.01 | 0.00 |
| buffer busy waits | 14 | 0 | 0 | 0 | 0.00 | 0.00 |
| log file single write | 38 | 0 | 0 | 0 | 0.00 | 0.00 |
| latch free | 36 | 0 | 0 | 0 | 0.00 | 0.00 |
| LGWR wait for redo copy | 66 | 0 | 0 | 0 | 0.00 | 0.00 |
| ADR block file write | 25 | 0 | 0 | 0 | 0.00 | 0.00 |
| latch: call allocation | 14 | 0 | 0 | 0 | 0.00 | 0.00 |
| log file sync | 5 | 0 | 0 | 0 | 0.00 | 0.00 |
| rdbms ipc reply | 1 | 0 | 0 | 1 | 0.00 | 0.00 |
| SQL\*Net message to client | 2,262 | 0 | 0 | 0 | 0.01 | 0.00 |
| latch: messages | 17 | 0 | 0 | 0 | 0.00 | 0.00 |
| rdbms ipc message | 319,148 | 40 | 341,393 | 1070 | 1.85 |  |
| Space Manager: slave idle wait | 11,126 | 95 | 53,802 | 4836 | 0.06 |  |
| DIAG idle wait | 35,908 | 100 | 35,942 | 1001 | 0.21 |  |
| smon timer | 111 | 3 | 18,149 | 163500 | 0.00 |  |
| Streams AQ: qmn slave idle wait | 642 | 0 | 17,982 | 28009 | 0.00 |  |
| Streams AQ: qmn coordinator idle wait | 1,284 | 50 | 17,982 | 14004 | 0.01 |  |
| shared server idle wait | 599 | 100 | 17,976 | 30010 | 0.00 |  |
| pmon timer | 5,985 | 100 | 17,973 | 3003 | 0.03 |  |
| dispatcher timer | 299 | 100 | 17,943 | 60011 | 0.00 |  |
| VKRM Idle | 1 | 0 | 14,400 | 14399975 | 0.00 |  |
| SQL\*Net message from client | 3,042 | 0 | 24 | 8 | 0.02 |  |
| class slave wait | 115 | 0 | 0 | 0 | 0.00 |  |

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**Wait Event Histogram**

* Units for Total Waits column: K is 1000, M is 1000000, G is 1000000000
* % of Waits: value of .0 indicates value was <.05%; value of null is truly 0
* % of Waits: column heading of <=1s is truly <1024ms, >1s is truly >=1024ms
* Ordered by Event (idle events last)

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **% of Waits** | | | | | | | |
| **Event** | **Total Waits** | **<1ms** | **<2ms** | **<4ms** | **<8ms** | **<16ms** | **<32ms** | **<=1s** | **>1s** |
| ADR block file read | 75 | 97.3 |  |  |  | 1.3 | 1.3 |  |  |
| ADR block file write | 25 | 100.0 |  |  |  |  |  |  |  |
| ADR file lock | 30 | 100.0 |  |  |  |  |  |  |  |
| Disk file operations I/O | 1155 | 100.0 |  |  |  |  |  |  |  |
| LGWR wait for redo copy | 66 | 100.0 |  |  |  |  |  |  |  |
| SQL\*Net break/reset to client | 8 | 62.5 | 12.5 | 12.5 |  | 12.5 |  |  |  |
| SQL\*Net message from dblink | 1170 | 48.0 | 20.6 | .9 | 15.3 | 10.0 | .2 | 5.0 |  |
| SQL\*Net message to client | 640.3K | 100.0 |  |  |  |  |  |  |  |
| SQL\*Net message to dblink | 1110 | 100.0 |  |  |  |  |  |  |  |
| SQL\*Net more data from dblink | 222 | 56.3 | 7.2 | 2.7 | 4.1 | 3.2 | .9 | 25.7 |  |
| SQL\*Net more data to client | 27 | 100.0 |  |  |  |  |  |  |  |
| asynch descriptor resize | 1212 | 100.0 |  |  |  |  |  |  |  |
| buffer busy waits | 19 | 94.7 | 5.3 |  |  |  |  |  |  |
| control file parallel write | 6719 | 99.7 | .1 | .1 | .1 | .0 |  |  |  |
| control file sequential read | 36.4K | 100.0 |  |  |  |  |  |  |  |
| cursor: pin S | 1 | 100.0 |  |  |  |  |  |  |  |
| db file async I/O submit | 16.3K | 99.8 | .1 | .0 | .1 | .0 |  |  |  |
| db file scattered read | 2 |  |  | 50.0 |  | 50.0 |  |  |  |
| db file sequential read | 1444 | 97.9 | .1 | .3 | 1.2 | .5 |  |  |  |
| db file single write | 300 | 100.0 |  |  |  |  |  |  |  |
| direct path read | 592 | 98.3 | .2 | .5 | .8 | .2 |  |  |  |
| direct path sync | 2 |  |  |  |  | 100.0 |  |  |  |
| direct path write | 55 | 100.0 |  |  |  |  |  |  |  |
| enq: RO - fast object reuse | 308 | 54.5 | 19.8 | 24.7 | .6 | .3 |  |  |  |
| latch free | 37 | 100.0 |  |  |  |  |  |  |  |
| latch: cache buffers chains | 336 | 83.6 | 16.4 |  |  |  |  |  |  |
| latch: call allocation | 14 | 100.0 |  |  |  |  |  |  |  |
| latch: messages | 17 | 100.0 |  |  |  |  |  |  |  |
| latch: redo writing | 3 | 100.0 |  |  |  |  |  |  |  |
| latch: shared pool | 2 | 100.0 |  |  |  |  |  |  |  |
| library cache: mutex X | 4 | 75.0 |  |  |  | 25.0 |  |  |  |
| local write wait | 465 | 25.6 | 54.8 | 18.9 | .6 |  |  |  |  |
| log file parallel write | 179.4K | 99.7 | .1 | .1 | .1 | .0 | .0 |  |  |
| log file sequential read | 38 | 100.0 |  |  |  |  |  |  |  |
| log file single write | 38 | 100.0 |  |  |  |  |  |  |  |
| log file switch completion | 37 | 21.6 | 27.0 |  |  | 51.4 |  |  |  |
| log file sync | 173.5K | 99.7 | .1 | .1 | .1 | .0 | .0 |  |  |
| os thread startup | 207 |  |  |  |  | 4.3 | 95.7 |  |  |
| rdbms ipc reply | 1 |  | 100.0 |  |  |  |  |  |  |
| reliable message | 476 | 87.2 | 2.3 | .8 | 3.6 | 5.0 | 1.1 |  |  |
| undo segment extension | 10 | 40.0 |  |  |  | 20.0 | 30.0 | 10.0 |  |
| DIAG idle wait | 35.9K |  |  |  |  |  |  | 100.0 | .0 |
| SQL\*Net message from client | 641.1K | 1.9 | .8 | 3.9 | 86.8 | 1.3 | 5.1 | .1 | .2 |
| Space Manager: slave idle wait | 11.1K | .1 | .0 | .1 | .1 | .0 | .1 | 1.8 | 97.7 |
| Streams AQ: qmn coordinator idle wait | 1284 | 50.0 |  |  |  |  |  |  | 50.0 |
| Streams AQ: qmn slave idle wait | 642 |  |  |  |  |  |  |  | 100.0 |
| VKRM Idle | 1 |  |  |  |  |  |  |  | 100.0 |
| class slave wait | 115 | 100.0 |  |  |  |  |  |  |  |
| dispatcher timer | 299 |  |  |  |  |  |  |  | 100.0 |
| jobq slave wait | 5420 |  |  |  |  |  |  | 100.0 |  |
| pmon timer | 5984 |  |  |  |  |  |  |  | 100.0 |
| rdbms ipc message | 318.5K | 3.2 | .5 | 1.0 | 1.0 | 4.4 | 44.8 | 16.1 | 29.0 |
| shared server idle wait | 599 |  |  |  |  |  |  |  | 100.0 |
| single-task message | 60 |  |  |  |  | 1.7 | 98.3 |  |  |
| smon timer | 110 | .9 | .9 | .9 | .9 | .9 | .9 | 8.2 | 86.4 |

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**Wait Event Histogram Detail (64 msec to 2 sec)**

* Units for Total Waits column: K is 1000, M is 1000000, G is 1000000000
* Units for % of Total Waits: ms is milliseconds s is 1024 milliseconds (approximately 1 second)
* % of Total Waits: total waits for all wait classes, including Idle
* % of Total Waits: value of .0 indicates value was <.05%; value of null is truly 0
* Ordered by Event (only non-idle events are displayed)

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **% of Total Waits** | | | | | | | |
| **Event** | **Waits 64ms to 2s** | **<32ms** | **<64ms** | **<1/8s** | **<1/4s** | **<1/2s** | **<1s** | **<2s** | **>=2s** |
| SQL\*Net message from dblink | 58 | 95.0 | 4.9 | .1 |  |  |  |  |  |
| SQL\*Net more data from dblink | 57 | 74.3 | 25.7 |  |  |  |  |  |  |
| undo segment extension | 1 | 90.0 | 10.0 |  |  |  |  |  |  |

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**Wait Event Histogram Detail (4 sec to 2 min)**

**No data exists for this section of the report.**

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**Wait Event Histogram Detail (4 min to 1 hr)**

**No data exists for this section of the report.**

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**Service Statistics**

* ordered by DB Time

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Service Name** | **DB Time (s)** | **DB CPU (s)** | **Physical Reads (K)** | **Logical Reads (K)** |
| orcl | 233 | 205 | 1 | 9,294 |
| SYS$USERS | 6 | 7 | 1 | 46 |
| SYS$BACKGROUND | 0 | 0 | 0 | 120 |
| orclXDB | 0 | 0 | 0 | 0 |

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**Service Wait Class Stats**

* Wait Class info for services in the Service Statistics section.
* Total Waits and Time Waited displayed for the following wait classes: User I/O, Concurrency, Administrative, Network
* Time Waited (Wt Time) in seconds

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Service Name** | **User I/O Total Wts** | **User I/O Wt Time** | **Concurcy Total Wts** | **Concurcy Wt Time** | **Admin Total Wts** | **Admin Wt Time** | **Network Total Wts** | **Network Wt Time** |
| orcl | 1910 | 1 | 9 | 0 | 0 | 0 | 640269 | 10 |
| SYS$USERS | 714 | 0 | 0 | 0 | 0 | 0 | 251 | 0 |
| SYS$BACKGROUND | 1392 | 0 | 562 | 4 | 0 | 0 | 0 | 0 |

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**SQL Statistics**

* [**SQL ordered by Elapsed Time**](about:blank#400)
* [**SQL ordered by CPU Time**](about:blank#500)
* [**SQL ordered by User I/O Wait Time**](about:blank#550)
* [**SQL ordered by Gets**](about:blank#600)
* [**SQL ordered by Reads**](about:blank#700)
* [**SQL ordered by Physical Reads (UnOptimized)**](about:blank#740)
* [**SQL ordered by Executions**](about:blank#800)
* [**SQL ordered by Parse Calls**](about:blank#900)
* [**SQL ordered by Sharable Memory**](about:blank#1000)
* [**SQL ordered by Version Count**](about:blank#1100)
* [**Complete List of SQL Text**](about:blank#99997)

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**SQL ordered by Elapsed Time**

* Resources reported for PL/SQL code includes the resources used by all SQL statements called by the code.
* % Total DB Time is the Elapsed Time of the SQL statement divided into the Total Database Time multiplied by 100
* %Total - Elapsed Time as a percentage of Total DB time
* %CPU - CPU Time as a percentage of Elapsed Time
* %IO - User I/O Time as a percentage of Elapsed Time
* Captured SQL account for 40.4% of Total DB Time (s): 238
* Captured PL/SQL account for 15.4% of Total DB Time (s): 238

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Elapsed Time (s)** | **Executions** | **Elapsed Time per Exec (s)** | **%Total** | **%CPU** | **%IO** | **SQL Id** | **SQL Module** | **SQL Text** |
| 30.48 | 5 | 6.10 | 12.79 | 99.98 | 0.00 | [**dqcn94drph4dw**](about:blank#dqcn94drph4dw) | w3wp.exe | SELECT "VPLU\_WATER\_DATA"."DATA... |
| 26.61 | 598 | 0.04 | 11.17 | 99.52 | 0.00 | [**772s25v1y0x8k**](about:blank#772s25v1y0x8k) |  | select shared\_pool\_size\_for\_es... |
| 8.28 | 30 | 0.28 | 3.47 | 99.99 | 0.00 | [**294nx6hs1bhnn**](about:blank#294nx6hs1bhnn) |  | Begin InsertDQData.pro\_InsertA... |
| 6.47 | 30 | 0.22 | 2.72 | 99.94 | 0.00 | [**bsx7s330syczq**](about:blank#bsx7s330syczq) |  | Begin InsertDQData.pro\_InsertI... |
| 4.12 | 60 | 0.07 | 1.73 | 99.89 | 0.00 | [**6uj3hnghcvm58**](about:blank#6uj3hnghcvm58) |  | Begin InsertWRYData.InsertExce... |
| 4.05 | 207,396 | 0.00 | 1.70 | 97.18 | 0.00 | [**brd7cvpx0sd2c**](about:blank#brd7cvpx0sd2c) |  | Select 'x' from dual |
| 4.05 | 6,516 | 0.00 | 1.70 | 97.03 | 0.10 | [**dh9f2089aupyk**](about:blank#dh9f2089aupyk) |  | Begin InsertNRData.InsertAtq(:... |
| 3.68 | 6,516 | 0.00 | 1.54 | 98.95 | 0.08 | [**50fc4wayaja1a**](about:blank#50fc4wayaja1a) |  | Begin InsertNRData.InsertRss(:... |
| 2.44 | 5 | 0.49 | 1.02 | 100.15 | 0.00 | [**41sas0sfych8g**](about:blank#41sas0sfych8g) | w3wp.exe | SELECT "VPLU\_WATER\_FLUX"."STAT... |
| 2.28 | 6,516 | 0.00 | 0.96 | 96.56 | 0.05 | [**d8gfund9ykafp**](about:blank#d8gfund9ykafp) |  | Begin InsertNRData.InsertDry(:... |

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**SQL ordered by CPU Time**

* Resources reported for PL/SQL code includes the resources used by all SQL statements called by the code.
* %Total - CPU Time as a percentage of Total DB CPU
* %CPU - CPU Time as a percentage of Elapsed Time
* %IO - User I/O Time as a percentage of Elapsed Time
* Captured SQL account for 43.7% of Total CPU Time (s): 212
* Captured PL/SQL account for 17.1% of Total CPU Time (s): 212

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **CPU Time (s)** | **Executions** | **CPU per Exec (s)** | **%Total** | **Elapsed Time (s)** | **%CPU** | **%IO** | **SQL Id** | **SQL Module** | **SQL Text** |
| 30.47 | 5 | 6.09 | 14.36 | 30.48 | 99.98 | 0.00 | [**dqcn94drph4dw**](about:blank#dqcn94drph4dw) | w3wp.exe | SELECT "VPLU\_WATER\_DATA"."DATA... |
| 26.48 | 598 | 0.04 | 12.48 | 26.61 | 99.52 | 0.00 | [**772s25v1y0x8k**](about:blank#772s25v1y0x8k) |  | select shared\_pool\_size\_for\_es... |
| 8.28 | 30 | 0.28 | 3.90 | 8.28 | 99.99 | 0.00 | [**294nx6hs1bhnn**](about:blank#294nx6hs1bhnn) |  | Begin InsertDQData.pro\_InsertA... |
| 6.47 | 30 | 0.22 | 3.05 | 6.47 | 99.94 | 0.00 | [**bsx7s330syczq**](about:blank#bsx7s330syczq) |  | Begin InsertDQData.pro\_InsertI... |
| 4.11 | 60 | 0.07 | 1.94 | 4.12 | 99.89 | 0.00 | [**6uj3hnghcvm58**](about:blank#6uj3hnghcvm58) |  | Begin InsertWRYData.InsertExce... |
| 3.94 | 207,396 | 0.00 | 1.86 | 4.05 | 97.18 | 0.00 | [**brd7cvpx0sd2c**](about:blank#brd7cvpx0sd2c) |  | Select 'x' from dual |
| 3.93 | 6,516 | 0.00 | 1.85 | 4.05 | 97.03 | 0.10 | [**dh9f2089aupyk**](about:blank#dh9f2089aupyk) |  | Begin InsertNRData.InsertAtq(:... |
| 3.64 | 6,516 | 0.00 | 1.72 | 3.68 | 98.95 | 0.08 | [**50fc4wayaja1a**](about:blank#50fc4wayaja1a) |  | Begin InsertNRData.InsertRss(:... |
| 2.44 | 5 | 0.49 | 1.15 | 2.44 | 100.15 | 0.00 | [**41sas0sfych8g**](about:blank#41sas0sfych8g) | w3wp.exe | SELECT "VPLU\_WATER\_FLUX"."STAT... |
| 2.24 | 5 | 0.45 | 1.06 | 2.24 | 100.02 | 0.00 | [**bunssq950snhf**](about:blank#bunssq950snhf) |  | insert into wrh$\_sga\_target\_ad... |
| 2.24 | 5 | 0.45 | 1.06 | 2.24 | 100.03 | 0.00 | [**dayq182sk41ks**](about:blank#dayq182sk41ks) |  | insert into wrh$\_memory\_target... |
| 2.23 | 5 | 0.45 | 1.05 | 2.23 | 99.97 | 0.00 | [**bm2pwrpcr8ru6**](about:blank#bm2pwrpcr8ru6) |  | select sga\_size s, sga\_size\_fa... |
| 2.20 | 6,516 | 0.00 | 1.04 | 2.28 | 96.56 | 0.05 | [**d8gfund9ykafp**](about:blank#d8gfund9ykafp) |  | Begin InsertNRData.InsertDry(:... |

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**SQL ordered by User I/O Wait Time**

* Resources reported for PL/SQL code includes the resources used by all SQL statements called by the code.
* %Total - User I/O Time as a percentage of Total User I/O Wait time
* %CPU - CPU Time as a percentage of Elapsed Time
* %IO - User I/O Time as a percentage of Elapsed Time
* Captured SQL account for 27.9% of Total User I/O Wait Time (s): 1
* Captured PL/SQL account for 0.9% of Total User I/O Wait Time (s): 1

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **User I/O Time (s)** | **Executions** | **UIO per Exec (s)** | **%Total** | **Elapsed Time (s)** | **%CPU** | **%IO** | **SQL Id** | **SQL Module** | **SQL Text** |
| 0.19 | 2 | 0.10 | 17.17 | 2.06 | 90.85 | 9.42 | [**30yb6b8zqjgtq**](about:blank#30yb6b8zqjgtq) | SQL Developer | select DBMS\_METADATA.GET\_DDL('... |
| 0.10 | 2 | 0.05 | 8.68 | 1.45 | 93.39 | 6.74 | [**9hgyjgac1kxq1**](about:blank#9hgyjgac1kxq1) | SQL Developer | SELECT /\*+all\_rows\*/ SYS\_XMLGE... |
| 0.00 | 2 | 0.00 | 0.43 | 0.35 | 98.49 | 1.39 | [**96ux18zx7r57t**](about:blank#96ux18zx7r57t) | SQL Developer | select \* from ( SELECT o.OBJE... |
| 0.00 | 6,516 | 0.00 | 0.38 | 4.05 | 97.03 | 0.10 | [**dh9f2089aupyk**](about:blank#dh9f2089aupyk) |  | Begin InsertNRData.InsertAtq(:... |
| 0.00 | 6,516 | 0.00 | 0.26 | 3.68 | 98.95 | 0.08 | [**50fc4wayaja1a**](about:blank#50fc4wayaja1a) |  | Begin InsertNRData.InsertRss(:... |
| 0.00 | 6,516 | 0.00 | 0.24 | 1.90 | 96.49 | 0.14 | [**avarc9bagp14p**](about:blank#avarc9bagp14p) |  | DELETE FROM NR\_ATQ WHERE EXIST... |
| 0.00 | 9 | 0.00 | 0.21 | 0.45 | 99.42 | 0.52 | [**58kz178ugwm87**](about:blank#58kz178ugwm87) | SQL Developer | SELECT /\*OracleDictionaryQueri... |
| 0.00 | 6,516 | 0.00 | 0.17 | 1.20 | 99.16 | 0.16 | [**99sndy8bgrgbx**](about:blank#99sndy8bgrgbx) |  | INSERT INTO NR\_DATA\_RSS (RSS\_D... |
| 0.00 | 6,516 | 0.00 | 0.14 | 1.34 | 93.58 | 0.12 | [**2qcw2qzt3x0j5**](about:blank#2qcw2qzt3x0j5) |  | INSERT INTO NR\_DATA\_ATMOSPHERE... |
| 0.00 | 6,516 | 0.00 | 0.10 | 2.28 | 96.56 | 0.05 | [**d8gfund9ykafp**](about:blank#d8gfund9ykafp) |  | Begin InsertNRData.InsertDry(:... |

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**SQL ordered by Gets**

* Resources reported for PL/SQL code includes the resources used by all SQL statements called by the code.
* %Total - Buffer Gets as a percentage of Total Buffer Gets
* %CPU - CPU Time as a percentage of Elapsed Time
* %IO - User I/O Time as a percentage of Elapsed Time
* Total Buffer Gets: 9,458,585
* Captured SQL account for 49.4% of Total

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Buffer Gets** | **Executions** | **Gets per Exec** | **%Total** | **Elapsed Time (s)** | **%CPU** | **%IO** | **SQL Id** | **SQL Module** | **SQL Text** |
| 3,040,429 | 5 | 608,085.80 | 32.14 | 30.48 | 100 | 0 | [**dqcn94drph4dw**](about:blank#dqcn94drph4dw) | w3wp.exe | SELECT "VPLU\_WATER\_DATA"."DATA... |
| 2,018,579 | 30 | 67,285.97 | 21.34 | 8.28 | 100 | 0 | [**294nx6hs1bhnn**](about:blank#294nx6hs1bhnn) |  | Begin InsertDQData.pro\_InsertA... |
| 1,124,206 | 30 | 37,473.53 | 11.89 | 6.47 | 99.9 | 0 | [**bsx7s330syczq**](about:blank#bsx7s330syczq) |  | Begin InsertDQData.pro\_InsertI... |
| 562,711 | 60 | 9,378.52 | 5.95 | 4.12 | 99.9 | 0 | [**6uj3hnghcvm58**](about:blank#6uj3hnghcvm58) |  | Begin InsertWRYData.InsertExce... |
| 258,395 | 6,516 | 39.66 | 2.73 | 4.05 | 97 | .1 | [**dh9f2089aupyk**](about:blank#dh9f2089aupyk) |  | Begin InsertNRData.InsertAtq(:... |
| 257,819 | 6,516 | 39.57 | 2.73 | 3.68 | 99 | .1 | [**50fc4wayaja1a**](about:blank#50fc4wayaja1a) |  | Begin InsertNRData.InsertRss(:... |
| 222,430 | 5 | 44,486.00 | 2.35 | 0.94 | 100.2 | 0 | [**gcdbhhqtycywc**](about:blank#gcdbhhqtycywc) |  | DELETE FROM AQIDATAPUBLISHHIST... |
| 171,981 | 6,516 | 26.39 | 1.82 | 1.90 | 96.5 | .1 | [**avarc9bagp14p**](about:blank#avarc9bagp14p) |  | DELETE FROM NR\_ATQ WHERE EXIST... |
| 171,333 | 6,516 | 26.29 | 1.81 | 1.70 | 100 | .1 | [**gjuu6yhxtrv5j**](about:blank#gjuu6yhxtrv5j) |  | DELETE FROM NR\_RSS WHERE EXIST... |
| 145,516 | 6,516 | 22.33 | 1.54 | 2.28 | 96.6 | .1 | [**d8gfund9ykafp**](about:blank#d8gfund9ykafp) |  | Begin InsertNRData.InsertDry(:... |
| 132,194 | 5 | 26,438.80 | 1.40 | 2.44 | 100.1 | 0 | [**41sas0sfych8g**](about:blank#41sas0sfych8g) | w3wp.exe | SELECT "VPLU\_WATER\_FLUX"."STAT... |
| 98,462 | 4 | 24,615.50 | 1.04 | 0.58 | 100.2 | 0 | [**8uqz5p0ht31dt**](about:blank#8uqz5p0ht31dt) |  | DELETE FROM IAQIDATAPUBLISHHIS... |
| 95,323 | 6,528 | 14.60 | 1.01 | 1.63 | 96.4 | 0 | [**5zk6kdh80rtfp**](about:blank#5zk6kdh80rtfp) |  | Begin InsertNRData.InsertSop(:... |

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**SQL ordered by Reads**

* %Total - Physical Reads as a percentage of Total Disk Reads
* %CPU - CPU Time as a percentage of Elapsed Time
* %IO - User I/O Time as a percentage of Elapsed Time
* Total Disk Reads: 1,777
* Captured SQL account for 53.1% of Total

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Physical Reads** | **Executions** | **Reads per Exec** | **%Total** | **Elapsed Time (s)** | **%CPU** | **%IO** | **SQL Id** | **SQL Module** | **SQL Text** |
| 805 | 2 | 402.50 | 45.30 | 2.06 | 90.85 | 9.42 | [**30yb6b8zqjgtq**](about:blank#30yb6b8zqjgtq) | SQL Developer | select DBMS\_METADATA.GET\_DDL('... |
| 95 | 2 | 47.50 | 5.35 | 1.45 | 93.39 | 6.74 | [**9hgyjgac1kxq1**](about:blank#9hgyjgac1kxq1) | SQL Developer | SELECT /\*+all\_rows\*/ SYS\_XMLGE... |
| 2 | 1 | 2.00 | 0.11 | 0.17 | 21.59 | 0.08 | [**0abq2xgs93y5s**](about:blank#0abq2xgs93y5s) |  | insert into E\_DATA\_VALUE selec... |
| 2 | 1 | 2.00 | 0.11 | 0.17 | 22.39 | 0.08 | [**122r104zh1kvr**](about:blank#122r104zh1kvr) |  | insert into E\_DATA\_VALUE selec... |
| 2 | 1 | 2.00 | 0.11 | 0.17 | 24.14 | 0.09 | [**1a22wyyf47xr4**](about:blank#1a22wyyf47xr4) |  | insert into E\_DATA\_VALUE selec... |
| 2 | 1 | 2.00 | 0.11 | 0.16 | 22.09 | 0.08 | [**28fpw2urgrnqv**](about:blank#28fpw2urgrnqv) |  | insert into E\_DATA\_VALUE selec... |
| 2 | 1 | 2.00 | 0.11 | 0.17 | 22.10 | 0.09 | [**2ddvmvruyhact**](about:blank#2ddvmvruyhact) |  | insert into E\_DATA\_VALUE selec... |
| 2 | 1 | 2.00 | 0.11 | 0.16 | 25.71 | 0.08 | [**2fy0ar5f50atj**](about:blank#2fy0ar5f50atj) |  | insert into E\_DATA\_VALUE selec... |
| 2 | 1 | 2.00 | 0.11 | 0.16 | 20.99 | 0.08 | [**2qw5bdrpupq6m**](about:blank#2qw5bdrpupq6m) |  | insert into E\_DATA\_VALUE selec... |
| 2 | 1 | 2.00 | 0.11 | 0.17 | 24.01 | 0.09 | [**4pdm4jcgms3hm**](about:blank#4pdm4jcgms3hm) |  | insert into E\_DATA\_VALUE selec... |

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**SQL ordered by Physical Reads (UnOptimized)**

* UnOptimized Read Reqs = Physical Read Reqts - Optimized Read Reqs
* %Opt - Optimized Reads as percentage of SQL Read Requests
* %Total - UnOptimized Read Reqs as a percentage of Total UnOptimized Read Reqs
* Total Physical Read Requests: 1,663
* Captured SQL account for 56.5% of Total
* Total UnOptimized Read Requests: 1,663
* Captured SQL account for 56.5% of Total
* Total Optimized Read Requests: 1
* Captured SQL account for 0.0% of Total

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **UnOptimized Read Reqs** | **Physical Read Reqs** | **Executions** | **UnOptimized Reqs per Exec** | **%Opt** | **%Total** | **SQL Id** | **SQL Module** | **SQL Text** |
| 693 | 693 | 2 | 346.50 | 0.00 | 41.67 | [**30yb6b8zqjgtq**](about:blank#30yb6b8zqjgtq) | SQL Developer | select DBMS\_METADATA.GET\_DDL('... |
| 95 | 95 | 2 | 47.50 | 0.00 | 5.71 | [**9hgyjgac1kxq1**](about:blank#9hgyjgac1kxq1) | SQL Developer | SELECT /\*+all\_rows\*/ SYS\_XMLGE... |
| 90 | 90 | 11 | 8.18 | 0.00 | 5.41 | [**9dhn1b8d88dpf**](about:blank#9dhn1b8d88dpf) |  | select OBJOID, CLSOID, RUNTIME... |
| 18 | 18 | 2 | 9.00 | 0.00 | 1.08 | [**3wrrjm9qtr2my**](about:blank#3wrrjm9qtr2my) | MMON\_SLAVE | SELECT T.CLIENT\_ID, T.OPERATIO... |
| 2 | 2 | 1 | 2.00 | 0.00 | 0.12 | [**0abq2xgs93y5s**](about:blank#0abq2xgs93y5s) |  | insert into E\_DATA\_VALUE selec... |
| 2 | 2 | 1 | 2.00 | 0.00 | 0.12 | [**122r104zh1kvr**](about:blank#122r104zh1kvr) |  | insert into E\_DATA\_VALUE selec... |
| 2 | 2 | 1 | 2.00 | 0.00 | 0.12 | [**1a22wyyf47xr4**](about:blank#1a22wyyf47xr4) |  | insert into E\_DATA\_VALUE selec... |
| 2 | 2 | 1 | 2.00 | 0.00 | 0.12 | [**28fpw2urgrnqv**](about:blank#28fpw2urgrnqv) |  | insert into E\_DATA\_VALUE selec... |
| 2 | 2 | 1 | 2.00 | 0.00 | 0.12 | [**2ddvmvruyhact**](about:blank#2ddvmvruyhact) |  | insert into E\_DATA\_VALUE selec... |
| 2 | 2 | 1 | 2.00 | 0.00 | 0.12 | [**2fy0ar5f50atj**](about:blank#2fy0ar5f50atj) |  | insert into E\_DATA\_VALUE selec... |

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**SQL ordered by Executions**

* %CPU - CPU Time as a percentage of Elapsed Time
* %IO - User I/O Time as a percentage of Elapsed Time
* Total Executions: 547,105
* Captured SQL account for 56.0% of Total

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Executions** | **Rows Processed** | **Rows per Exec** | **Elapsed Time (s)** | **%CPU** | **%IO** | **SQL Id** | **SQL Module** | **SQL Text** |
| 207,396 | 207,397 | 1.00 | 4.05 | 97.2 | 0 | [**brd7cvpx0sd2c**](about:blank#brd7cvpx0sd2c) |  | Select 'x' from dual |
| 6,528 | 7 | 0.00 | 0.38 | 97.8 | 0 | [**2nyyfy7k6qz2d**](about:blank#2nyyfy7k6qz2d) |  | DELETE FROM NR\_SOL WHERE EXIST... |
| 6,528 | 3,779 | 0.58 | 0.51 | 97.5 | .1 | [**2r5ztvq3r3x9u**](about:blank#2r5ztvq3r3x9u) |  | DELETE FROM NR\_SOP WHERE EXIST... |
| 6,528 | 6,528 | 1.00 | 1.63 | 96.4 | 0 | [**5zk6kdh80rtfp**](about:blank#5zk6kdh80rtfp) |  | Begin InsertNRData.InsertSop(:... |
| 6,528 | 540 | 0.08 | 0.38 | 91.2 | 0 | [**97rs8b767yrka**](about:blank#97rs8b767yrka) |  | INSERT INTO NR\_DATA\_AEROSOLSUP... |
| 6,528 | 1 | 0.00 | 0.29 | 99.7 | 0 | [**b4k9wbuxpgsh6**](about:blank#b4k9wbuxpgsh6) |  | INSERT INTO NR\_DATA\_AEROSOL ( ... |
| 6,528 | 6,528 | 1.00 | 1.39 | 97.7 | 0 | [**cq42hf7st5yvh**](about:blank#cq42hf7st5yvh) |  | Begin InsertNRData.InsertSol(:... |
| 6,516 | 2,158 | 0.33 | 0.64 | 97.2 | .1 | [**0q77v5hgbtw71**](about:blank#0q77v5hgbtw71) |  | INSERT INTO NR\_DATA\_DRY(DRY\_DA... |
| 6,516 | 5,921 | 0.91 | 1.34 | 93.6 | .1 | [**2qcw2qzt3x0j5**](about:blank#2qcw2qzt3x0j5) |  | INSERT INTO NR\_DATA\_ATMOSPHERE... |
| 6,516 | 6,516 | 1.00 | 3.68 | 99 | .1 | [**50fc4wayaja1a**](about:blank#50fc4wayaja1a) |  | Begin InsertNRData.InsertRss(:... |
| 6,516 | 5,926 | 0.91 | 1.20 | 99.2 | .2 | [**99sndy8bgrgbx**](about:blank#99sndy8bgrgbx) |  | INSERT INTO NR\_DATA\_RSS (RSS\_D... |
| 6,516 | 41,440 | 6.36 | 1.90 | 96.5 | .1 | [**avarc9bagp14p**](about:blank#avarc9bagp14p) |  | DELETE FROM NR\_ATQ WHERE EXIST... |
| 6,516 | 6,516 | 1.00 | 2.28 | 96.6 | .1 | [**d8gfund9ykafp**](about:blank#d8gfund9ykafp) |  | Begin InsertNRData.InsertDry(:... |
| 6,516 | 15,103 | 2.32 | 0.89 | 95.4 | 0 | [**dfxu2zzh3y2vm**](about:blank#dfxu2zzh3y2vm) |  | DELETE FROM NR\_DRY WHERE EXIST... |
| 6,516 | 6,516 | 1.00 | 4.05 | 97 | .1 | [**dh9f2089aupyk**](about:blank#dh9f2089aupyk) |  | Begin InsertNRData.InsertAtq(:... |
| 6,516 | 41,460 | 6.36 | 1.70 | 100 | .1 | [**gjuu6yhxtrv5j**](about:blank#gjuu6yhxtrv5j) |  | DELETE FROM NR\_RSS WHERE EXIST... |
| 6,104 | 6,104 | 1.00 | 0.27 | 97.4 | 0 | [**43sc3chkx42dw**](about:blank#43sc3chkx42dw) |  | SELECT COUNT(1) FROM EPM\_EXTRA... |
| 6,104 | 6,104 | 1.00 | 1.94 | 99.1 | 0 | [**d1wszskms1p53**](about:blank#d1wszskms1p53) |  | Begin EPM\_EXTRACTRECORDOPER.PR... |

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**SQL ordered by Parse Calls**

* Total Parse Calls: 175,265
* Captured SQL account for 10.1% of Total

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Parse Calls** | **Executions** | **% Total Parses** | **SQL Id** | **SQL Module** | **SQL Text** |
| 1,064 | 3,052 | 0.61 | [**a6farn94x6dq3**](about:blank#a6farn94x6dq3) |  | INSERT INTO EPM\_EXTRACTRECORD ... |
| 1,064 | 3,052 | 0.61 | [**d0ad1jmkzbvdr**](about:blank#d0ad1jmkzbvdr) |  | UPDATE EPM\_EXTRACTRECORD SET S... |
| 1,052 | 6,104 | 0.60 | [**43sc3chkx42dw**](about:blank#43sc3chkx42dw) |  | SELECT COUNT(1) FROM EPM\_EXTRA... |
| 820 | 2,375 | 0.47 | [**cm5vu20fhtnq1**](about:blank#cm5vu20fhtnq1) |  | select /\*+ connect\_by\_filterin... |
| 804 | 804 | 0.46 | [**0k8522rmdzg4k**](about:blank#0k8522rmdzg4k) |  | select privilege# from sysauth... |
| 793 | 1,123 | 0.45 | [**4m7m0t6fjcs5x**](about:blank#4m7m0t6fjcs5x) |  | update seq$ set increment$=:2,... |
| 779 | 779 | 0.44 | [**0ws7ahf1d78qa**](about:blank#0ws7ahf1d78qa) |  | select SYS\_CONTEXT('USERENV', ... |
| 779 | 779 | 0.44 | [**459f3z9u4fb3u**](about:blank#459f3z9u4fb3u) |  | select value$ from props$ wher... |
| 779 | 779 | 0.44 | [**4vs91dcv7u1p6**](about:blank#4vs91dcv7u1p6) | 环保污染源Windows服务.exe | insert into sys.aud$( sessioni... |
| 779 | 779 | 0.44 | [**5ur69atw3vfhj**](about:blank#5ur69atw3vfhj) |  | select decode(failover\_method,... |

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**SQL ordered by Sharable Memory**

* Only Statements with Sharable Memory greater than 1048576 are displayed

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sharable Mem (b)** | **Executions** | **% Total** | **SQL Id** | **SQL Module** | **SQL Text** |
| 6,678,721 | 2 | 0.12 | [**9hgyjgac1kxq1**](about:blank#9hgyjgac1kxq1) | SQL Developer | SELECT /\*+all\_rows\*/ SYS\_XMLGE... |
| 1,838,735 | 9 | 0.03 | [**58kz178ugwm87**](about:blank#58kz178ugwm87) | SQL Developer | SELECT /\*OracleDictionaryQueri... |

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**SQL ordered by Version Count**

* Only Statements with Version Count greater than 20 are displayed

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Version Count** | **Executions** | **SQL Id** | **SQL Module** | **SQL Text** |
| 36 | 14 | [**5rygsj4dbw6jt**](about:blank#5rygsj4dbw6jt) |  | insert into sys.mon\_mods$ (obj... |
| 30 | 5 | [**apfrybhnh11yh**](about:blank#apfrybhnh11yh) |  | insert into PLU\_runtime\_data s... |
| 28 | 5 | [**058n4xak1nazw**](about:blank#058n4xak1nazw) |  | SELECT plu\_code , plu\_name , r... |
| 26 | 1 | [**256y3mbyf066f**](about:blank#256y3mbyf066f) |  | SELECT plu\_code , plu\_name , r... |
| 26 | 1 | [**4xvrndaxt0b1k**](about:blank#4xvrndaxt0b1k) |  | SELECT plu\_code , plu\_name , r... |
| 26 | 5 | [**6wm3n4d7bnddg**](about:blank#6wm3n4d7bnddg) |  | SELECT source, (case when tim... |
| 26 | 1 | [**9vy7a44z4c5c7**](about:blank#9vy7a44z4c5c7) |  | SELECT plu\_code , plu\_name , r... |
| 24 | 2 | [**2760qcau845bj**](about:blank#2760qcau845bj) |  | SELECT plu\_code , plu\_name , r... |
| 24 | 5 | [**8k6sskyaq89rv**](about:blank#8k6sskyaq89rv) |  | SELECT plu\_code , plu\_name , r... |
| 24 | 2 | [**gjb45ssq30a05**](about:blank#gjb45ssq30a05) |  | SELECT plu\_code , plu\_name , r... |
| 24 | 1 | [**gjdas6dh482n7**](about:blank#gjdas6dh482n7) |  | SELECT plu\_code , plu\_name , r... |
| 22 | 3 | [**39qj4nru3h5gb**](about:blank#39qj4nru3h5gb) |  | SELECT plu\_code , plu\_name , r... |
| 22 | 5 | [**akmd5v09ws1dt**](about:blank#akmd5v09ws1dt) |  | SELECT plu\_code , plu\_name , r... |
| 22 | 1 | [**c2vabnfa3h5fy**](about:blank#c2vabnfa3h5fy) |  | SELECT plu\_code , plu\_name , r... |

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**Complete List of SQL Text**

|  |  |
| --- | --- |
| **SQL Id** | **SQL Text** |
| 058n4xak1nazw | SELECT plu\_code , plu\_name , round(sysdate-measure\_time, 2) AS time FROM PLU\_RUNTIME\_DATA WHERE eqp\_id=3456 AND (sysdate-measure\_time)\*24>3 |
| 0abq2xgs93y5s | insert into E\_DATA\_VALUE select \* from E\_DATA\_VALUE@WRYLink t where t.measure\_time BETWEEN to\_date('2014/6/6 13:07:25', 'yyyy-MM-dd HH24:mi:ss') AND to\_date('2014/6/6 13:12:25', 'yyyy-MM-dd HH24:mi:ss') |
| 0k8522rmdzg4k | select privilege# from sysauth$ where (grantee#=:1 or grantee#=1) and privilege#>0 |
| 0q77v5hgbtw71 | INSERT INTO NR\_DATA\_DRY(DRY\_DATA\_ID, STATION\_ID, DEVICE\_ID, MEASURE\_TIME, "TYPE", RAINFLAG, BUCKETSTATE, RAINTIME) SELECT SEQ\_NR\_DRY.NEXTVAL, STATION\_ID, DEVICE\_ID, MEASURE\_TIME, "TYPE", RAINFLAG, BUCKETSTATE, RAINTIME FROM NR\_DRY WHERE TYPE=:B1 |
| 0ws7ahf1d78qa | select SYS\_CONTEXT('USERENV', 'SERVER\_HOST'), SYS\_CONTEXT('USERENV', 'DB\_UNIQUE\_NAME'), SYS\_CONTEXT('USERENV', 'INSTANCE\_NAME'), SYS\_CONTEXT('USERENV', 'SERVICE\_NAME'), INSTANCE\_NUMBER, STARTUP\_TIME, SYS\_CONTEXT('USERENV', 'DB\_DOMAIN') from v$instance where INSTANCE\_NAME=SYS\_CONTEXT('USERENV', 'INSTANCE\_NAME') |
| 122r104zh1kvr | insert into E\_DATA\_VALUE select \* from E\_DATA\_VALUE@WRYLink t where t.measure\_time BETWEEN to\_date('2014/6/6 13:02:25', 'yyyy-MM-dd HH24:mi:ss') AND to\_date('2014/6/6 13:07:25', 'yyyy-MM-dd HH24:mi:ss') |
| 1a22wyyf47xr4 | insert into E\_DATA\_VALUE select \* from E\_DATA\_VALUE@WRYLink t where t.measure\_time BETWEEN to\_date('2014/6/6 11:52:25', 'yyyy-MM-dd HH24:mi:ss') AND to\_date('2014/6/6 11:57:25', 'yyyy-MM-dd HH24:mi:ss') |
| 256y3mbyf066f | SELECT plu\_code , plu\_name , round(sysdate-measure\_time, 2) AS time FROM PLU\_RUNTIME\_DATA WHERE eqp\_id=8876 AND (sysdate-measure\_time)\*24>3 |
| 2760qcau845bj | SELECT plu\_code , plu\_name , round(sysdate-measure\_time, 2) AS time FROM PLU\_RUNTIME\_DATA WHERE eqp\_id=932095 AND (sysdate-measure\_time)\*24>3 |
| 28fpw2urgrnqv | insert into E\_DATA\_VALUE select \* from E\_DATA\_VALUE@WRYLink t where t.measure\_time BETWEEN to\_date('2014/6/6 12:42:25', 'yyyy-MM-dd HH24:mi:ss') AND to\_date('2014/6/6 12:47:25', 'yyyy-MM-dd HH24:mi:ss') |
| 294nx6hs1bhnn | Begin InsertDQData.pro\_InsertAQI(:v0); End; |
| 2ddvmvruyhact | insert into E\_DATA\_VALUE select \* from E\_DATA\_VALUE@WRYLink t where t.measure\_time BETWEEN to\_date('2014/6/6 13:32:25', 'yyyy-MM-dd HH24:mi:ss') AND to\_date('2014/6/6 13:37:25', 'yyyy-MM-dd HH24:mi:ss') |
| 2fy0ar5f50atj | insert into E\_DATA\_VALUE select \* from E\_DATA\_VALUE@WRYLink t where t.measure\_time BETWEEN to\_date('2014/6/6 12:47:25', 'yyyy-MM-dd HH24:mi:ss') AND to\_date('2014/6/6 12:52:25', 'yyyy-MM-dd HH24:mi:ss') |
| 2nyyfy7k6qz2d | DELETE FROM NR\_SOL WHERE EXISTS(SELECT 1 FROM NR\_DATA\_AEROSOL WHERE NR\_DATA\_AEROSOL.MEASURE\_TIME=NR\_SOL.MEASURE\_TIME AND NR\_DATA\_AEROSOL.STATION\_ID=NR\_SOL.STATION\_ID AND NR\_DATA\_AEROSOL.TYPE=NR\_SOL.TYPE AND NR\_SOL.TYPE=:B1 ) |
| 2qcw2qzt3x0j5 | INSERT INTO NR\_DATA\_ATMOSPHERE(ATMOSPHERE\_DATA\_ID, STATION\_ID, MEASURE\_TIME, TYPE, METEORICTEMP, RELATIVEHUMIDITY, AIRPRESSURE, DEWPOINTTEMP, RAINFALL, SRAIN, AVGWINDDIRECTION, AVGWINDSPEED, POWER, FLAGDOOR, FLAGCHECK) SELECT SEQ\_NR\_ATQ.NEXTVAL, STATION\_ID, MEASURE\_TIME, TYPE, METEORICTEMP, RELATIVEHUMIDITY, AIRPRESSURE, DEWPOINTTEMP, RAINFALL, SRAIN, AVGWINDDIRECTION, AVGWINDSPEED, POWER, FLAGDOOR, FLAGCHECK FROM NR\_ATQ WHERE TYPE=:B1 |
| 2qw5bdrpupq6m | insert into E\_DATA\_VALUE select \* from E\_DATA\_VALUE@WRYLink t where t.measure\_time BETWEEN to\_date('2014/6/6 12:52:25', 'yyyy-MM-dd HH24:mi:ss') AND to\_date('2014/6/6 12:57:25', 'yyyy-MM-dd HH24:mi:ss') |
| 2r5ztvq3r3x9u | DELETE FROM NR\_SOP WHERE EXISTS(SELECT 1 FROM NR\_DATA\_AEROSOLSUPER WHERE NR\_DATA\_AEROSOLSUPER.MEASURE\_TIME=NR\_SOP.MEASURE\_TIME AND NR\_DATA\_AEROSOLSUPER.STATION\_ID=NR\_SOP.STATION\_ID AND NR\_DATA\_AEROSOLSUPER.TYPE=NR\_SOP.TYPE AND NR\_SOP.TYPE=:B1 ) |
| 30yb6b8zqjgtq | select DBMS\_METADATA.GET\_DDL('TABLE', OBJECT\_NAME, OWNER) FROM Dba\_objects where owner = :OWNER and object\_name = :NAME and object\_type = 'TABLE' union all select dbms\_metadata.GET\_DEPENDENT\_DDL ('COMMENT', TABLE\_NAME, OWNER ) FROM (select table\_name, owner from Dba\_col\_comments where owner = :OWNER and table\_name = :NAME and comments is not null union select table\_name, owner from sys.Dba\_TAB\_comments where owner = :OWNER and table\_name = :NAME and comments is not null) union all select DBMS\_METADATA.GET\_DDL('INDEX', INDEX\_NAME, OWNER) FROM (select index\_name, owner from sys.Dba\_indexes where table\_owner = :OWNER and table\_name = :NAME and generated = 'N' minus select index\_name, owner from sys.Dba\_constraints where owner = :OWNER and table\_name = :NAME) union all select dbms\_metadata.GET\_DDL ('TRIGGER', trigger\_name , owner ) from Dba\_triggers where table\_owner = :OWNER and table\_name = :NAME |
| 39qj4nru3h5gb | SELECT plu\_code , plu\_name , round(sysdate-measure\_time, 2) AS time FROM PLU\_RUNTIME\_DATA WHERE eqp\_id=7938 AND (sysdate-measure\_time)\*24>3 |
| 3wrrjm9qtr2my | SELECT T.CLIENT\_ID, T.OPERATION\_ID, T.TARGET\_TYPE, T.TARGET\_NAME, T.CURR\_JOB\_NAME, TO\_NUMBER(BITAND(T.ATTRIBUTES, 131072)), CASE NVL((SELECT J.STATE FROM DBA\_SCHEDULER\_JOBS J WHERE T.CURR\_JOB\_NAME = J.JOB\_NAME), 'MISSING') WHEN 'MISSING' THEN 4 WHEN 'RUNNING' THEN 1 WHEN 'DISABLED' THEN 2 WHEN 'SCHEDULED' THEN 3 WHEN 'RETRY SCHEDULED' THEN 99 WHEN 'COMPLETED' THEN 99 WHEN 'BROKEN' THEN 99 WHEN 'FAILED' THEN 99 WHEN 'REMOTE' THEN 99 WHEN 'SUCCEEDED' THEN 99 WHEN 'STOPPED' THEN 99 WHEN 'CHAIN\_STALLED' THEN 99 ELSE 99 END AS CONSOLIDATED\_STATE, CASE NVL(JRD.STATUS, 'MISSING') WHEN 'MISSING' THEN 4 WHEN 'SUCCEEDED' THEN 10 WHEN 'FAILED' THEN 11 WHEN 'STOPPED' THEN CASE WHEN JRD.ADDITIONAL\_INFO LIKE '%called by user%' THEN 12 WHEN JRD.ADDITIONAL\_INFO LIKE '%window was closed%' THEN 13 WHEN JRD.ADDITIONAL\_INFO LIKE 'ORA-01014%' THEN 14 ELSE 15 END ELSE 99 END AS STATUS, NVL(JRD.RUN\_DURATION, INTERVAL '0' SECOND), NVL(JRD.CPU\_USED, INTERVAL '0' SECOND), NVL(JRD.ERROR#, 0), NVL(JRD.STATUS, 'NO LOG ENTRY') || '(jrd)' AS DBG\_STATUS, NVL((SELECT J.STATE FROM DBA\_SCHEDULER\_JOBS J WHERE T.CURR\_JOB\_NAME = J.JOB\_NAME), 'MISSING') ||'(jobs)' AS DBG\_STATE, NVL(JRD.LOG\_DATE, TIMESTAMP '2001-01-01 01:01:01.01 +01:01'), NVL(JRD.LOG\_ID, 0) FROM KET$\_CLIENT\_TASKS T, DBA\_SCHEDULER\_JOB\_RUN\_DETAILS JRD WHERE T.CURR\_JOB\_NAME IS NOT NULL AND T.CURR\_JOB\_NAME = JRD.JOB\_NAME(+) AND 'SYS' = JRD.OWNER(+) |
| 41sas0sfych8g | SELECT "VPLU\_WATER\_FLUX"."STATION\_ID" AS "字段1", "VPLU\_WATER\_FLUX"."FLUX\_VALUE" AS "字段2", "VPLU\_WATER\_FLUX"."FLUX\_SUM" AS "字段3", "VPLU\_WATER\_FLUX"."MEASURE\_TIME" AS "字段4", "VPLU\_WATER\_FLUX"."CREATETIME" AS "字段5" FROM "VPLU\_WATER\_FLUX" WHERE ( "VPLU\_WATER\_FLUX"."CREATETIME" > :param0 ) AND ( "VPLU\_WATER\_FLUX"."CREATETIME" <= :param1 ) |
| 43sc3chkx42dw | SELECT COUNT(1) FROM EPM\_EXTRACTRECORD WHERE CATEGORIES=:B3 AND OBJECT\_EN=:B2 AND LOGTIME=:B1 |
| 459f3z9u4fb3u | select value$ from props$ where name = 'GLOBAL\_DB\_NAME' |
| 4m7m0t6fjcs5x | update seq$ set increment$=:2, minvalue=:3, maxvalue=:4, cycle#=:5, order$=:6, cache=:7, highwater=:8, audit$=:9, flags=:10 where obj#=:1 |
| 4pdm4jcgms3hm | insert into E\_DATA\_VALUE select \* from E\_DATA\_VALUE@WRYLink t where t.measure\_time BETWEEN to\_date('2014/6/6 11:47:25', 'yyyy-MM-dd HH24:mi:ss') AND to\_date('2014/6/6 11:52:25', 'yyyy-MM-dd HH24:mi:ss') |
| 4vs91dcv7u1p6 | insert into sys.aud$( sessionid, entryid, statement, ntimestamp#, userid, userhost, terminal, action#, returncode, obj$creator, obj$name, auth$privileges, auth$grantee, new$owner, new$name, ses$actions, ses$tid, logoff$pread, logoff$lwrite, logoff$dead, comment$text, spare1, spare2, priv$used, clientid, sessioncpu, proxy$sid, user$guid, instance#, process#, xid, scn, auditid, sqlbind, sqltext, obj$edition, dbid) values(:1, :2, :3, SYS\_EXTRACT\_UTC(SYSTIMESTAMP), :4, :5, :6, :7, :8, :9, :10, :11, :12, :13, :14, :15, :16, :17, :18, :19, :20, :21, :22, :23, :24, :25, :26, :27, :28, :29, :30, :31, :32, :33, :34, :35, :36) |
| 4xvrndaxt0b1k | SELECT plu\_code , plu\_name , round(sysdate-measure\_time, 2) AS time FROM PLU\_RUNTIME\_DATA WHERE eqp\_id=7931 AND (sysdate-measure\_time)\*24>3 |
| 50fc4wayaja1a | Begin InsertNRData.InsertRss(:v0, :v1); End; |
| 58kz178ugwm87 | SELECT /\*OracleDictionaryQueries.ALL\_TABLE\_ORACLE\_QUERY\*/ X.TABLE\_NAME , 'TABLE' OBJECT\_TYPE , (SELECT O.OBJECT\_ID FROM ALL\_OBJECTS O WHERE O.OWNER = X.OWNER AND O.OBJECT\_TYPE = 'TABLE' AND O.OBJECT\_NAME = X.TABLE\_NAME) OBJECT\_ID FROM ( SELECT T.TABLE\_NAME, T.OWNER FROM ALL\_TABLES T WHERE T.OWNER = :1 AND T.NESTED = 'NO' AND T.TABLE\_NAME LIKE :2 AND T.IOT\_NAME IS NULL AND T.SECONDARY = 'N' AND T.DROPPED = 'NO' MINUS SELECT QT.QUEUE\_TABLE, QT.OWNER FROM ALL\_QUEUE\_TABLES QT WHERE QT.OWNER = :3 AND QT.QUEUE\_TABLE LIKE :4 MINUS SELECT MV.MVIEW\_NAME, MV.OWNER FROM ALL\_MVIEWS MV WHERE MV.OWNER = :5 AND MV.MVIEW\_NAME LIKE :6 MINUS SELECT MVL.LOG\_TABLE, MVL.LOG\_OWNER FROM ALL\_SNAPSHOT\_LOGS MVL WHERE MVL.LOG\_OWNER = :7 AND MVL.LOG\_TABLE LIKE :8 MINUS SELECT RU.TABLE\_NAME, RU.OWNER FROM ALL\_TABLES RU WHERE RU.TABLE\_NAME LIKE 'RUPD%' AND RU.TEMPORARY = 'Y' AND RU.OWNER = :9 AND EXISTS (SELECT 1 FROM ALL\_TAB\_COLUMNS ATC WHERE ATC.OWNER = RU.OWNER AND ATC.TABLE\_NAME = RU.TABLE\_NAME AND ATC.COLUMN\_NAME = 'CHANGE\_VECTOR$$') ) X UNION ALL SELECT T.TABLE\_NAME , 'TABLE' OBJECT\_TYPE , (SELECT O.OBJECT\_ID FROM ALL\_OBJECTS O WHERE O.OWNER = T.OWNER AND O.OBJECT\_TYPE = 'TABLE' AND O.OBJECT\_NAME = T.TABLE\_NAME) OBJECT\_ID FROM ALL\_OBJECT\_TABLES T WHERE T.OWNER = :10 AND T.TABLE\_NAME LIKE :11 AND T.IOT\_NAME IS NULL AND T.NESTED = 'NO' AND T.SECONDARY = 'N' AND T.DROPPED = 'NO' |
| 5rygsj4dbw6jt | insert into sys.mon\_mods$ (obj#, inserts, updates, deletes, timestamp, flags, drop\_segments) values (:1, :2, :3, :4, :5, :6, :7) |
| 5ur69atw3vfhj | select decode(failover\_method, NULL, 0 , 'BASIC', 1, 'PRECONNECT', 2 , 'PREPARSE', 4 , 0), decode(failover\_type, NULL, 1 , 'NONE', 1 , 'SESSION', 2, 'SELECT', 4, 1), failover\_retries, failover\_delay, flags from service$ where name = :1 |
| 5zk6kdh80rtfp | Begin InsertNRData.InsertSop(:v0, :v1); End; |
| 6uj3hnghcvm58 | Begin InsertWRYData.InsertException(); End; |
| 6wm3n4d7bnddg | SELECT source, (case when time\_secs < 1 then 1 else time\_secs end) as time\_secs, operation FROM ( SELECT 1 as source, trunc((sysdate - cast(ll.log\_date as date)) \* 86400) as time\_secs, decode(ll.operation, 'OPEN', 0 , 1 ) as operation, ll.log\_id as log\_id FROM DBA\_SCHEDULER\_WINDOW\_LOG ll , ( SELECT max(l.log\_id) as max\_log\_id FROM DBA\_SCHEDULER\_WINDOW\_LOG l , DBA\_SCHEDULER\_WINGROUP\_MEMBERS m WHERE l.window\_name = m.window\_name AND m.window\_group\_name = 'MAINTENANCE\_WINDOW\_GROUP' AND l.operation in ('OPEN', 'CLOSE') AND CAST(l.log\_date AS DATE) < ( SELECT cast(min(end\_interval\_time) as date) as btime FROM WRM$\_SNAPSHOT bsi WHERE bsi.dbid = :dbid AND bsi.instance\_number = :inst AND bsi.snap\_id = :bid ) ) max\_log WHERE ll.log\_id = max\_log.max\_log\_id UNION ALL SELECT 2 as source, trunc((sysdate - cast(l.log\_date as date)) \* 86400) as time\_secs, decode(l.operation, 'OPEN', 0 , 1 ) as operation, l.log\_id as log\_id FROM DBA\_SCHEDULER\_WINDOW\_LOG l , DBA\_SCHEDULER\_WINGROUP\_MEMBERS m WHERE l.window\_name = m.window\_name AND m.window\_group\_name = 'MAINTENANCE\_WINDOW\_GROUP' AND l.operation in ('OPEN', 'CLOSE') AND CAST(l.log\_date AS DATE) <= ( SELECT cast(max(end\_interval\_time) as date) as etime FROM WRM$\_SNAPSHOT esi WHERE esi.dbid = :dbid AND esi.instance\_number = :inst AND esi.snap\_id = :eid ) AND CAST(l.log\_date AS DATE) >= ( SELECT cast(min(end\_interval\_time) as date) as btime FROM WRM$\_SNAPSHOT bsi WHERE bsi.dbid = :dbid AND bsi.instance\_number = :inst AND bsi.snap\_id = :bid ) UNION ALL SELECT 0 as source, trunc((sysdate - et.etime) \* 86400) as time\_secs, 3 as operation, 0 as log\_id FROM ( SELECT cast(max(end\_interval\_time) as date) as etime FROM WRM$\_SNAPSHOT esi WHERE esi.dbid = :dbid AND esi.instance\_number = :inst AND esi.snap\_id = :eid ) et UNION ALL SELECT 0 as source, trunc((sysdate - bt.btime) \* 86400) as time\_secs, 2 as operation, 0 as log\_id FROM ( SELECT cast(min(end\_interval\_time) as date) as btime FROM WRM$\_SNAPSHOT bsi WHERE bsi.dbid = :dbid AND bsi.instance\_number = :inst AND bsi.snap\_id = :bid ) bt ) WHERE time\_secs >= 0 ORDER BY source ASC, time\_secs DESC, log\_id ASC |
| 772s25v1y0x8k | select shared\_pool\_size\_for\_estimate s, shared\_pool\_size\_factor \* 100 f, estd\_lc\_load\_time l, 0 from v$shared\_pool\_advice |
| 8k6sskyaq89rv | SELECT plu\_code , plu\_name , round(sysdate-measure\_time, 2) AS time FROM PLU\_RUNTIME\_DATA WHERE eqp\_id=932834 AND (sysdate-measure\_time)\*24>3 |
| 8uqz5p0ht31dt | DELETE FROM IAQIDATAPUBLISHHISTORY WHERE EXISTS (SELECT 1 FROM AIR\_IAQI\_LIVE\_DATA WHERE IAQIDATAPUBLISHHISTORY.MEASURE\_TIME=AIR\_IAQI\_LIVE\_DATA.MEASURE\_TIME AND IAQIDATAPUBLISHHISTORY.STATIONCODE=AIR\_IAQI\_LIVE\_DATA.STATIONCODE ) |
| 96ux18zx7r57t | select \* from ( SELECT o.OBJECT\_NAME, o.OBJECT\_ID , '' short\_name, decode(bitand(t.property, 32), 32, 'YES', 'NO') partitioned, decode(bitand(t.property, 64), 64, 'IOT', decode(bitand(t.property, 512), 512, 'IOT\_OVERFLOW', decode(bitand(t.flags, 536870912), 536870912, 'IOT\_MAPPING', null))) iot\_type, o.OWNER OBJECT\_OWNER, o.CREATED, o.LAST\_DDL\_TIME, O.GENERATED, O.TEMPORARY, case when xt.obj# is null then 'N' else 'Y' end EXTERNAL FROM SYS.Dba\_OBJECTS O , sys.tab$ t, sys.external\_tab$ xt WHERE O.OWNER = :SCHEMA and o.object\_id = t.obj#(+) and o.object\_id = xt.obj#(+) AND O.OBJECT\_TYPE = 'TABLE' union all SELECT OBJECT\_NAME, OBJECT\_ID , syn.SYNONYM\_NAME short\_NAME, decode(bitand(t.property, 32), 32, 'YES', 'NO') partitioned, decode(bitand(t.property, 64), 64, 'IOT', decode(bitand(t.property, 512), 512, 'IOT\_OVERFLOW', decode(bitand(t.flags, 536870912), 536870912, 'IOT\_MAPPING', null))) iot\_type, SYN.TABLE\_OWNER OBJECT\_OWNER, o.CREATED, o.LAST\_DDL\_TIME, O.GENERATED, O.TEMPORARY, case when xt.obj# is null then 'N' else 'Y' end EXTERNAL FROM SYS.Dba\_OBJECTS O, sys.user\_synonyms syn, sys.tab$ t, sys.external\_tab$ xt WHERE syn.table\_owner = o.owner and syn.TABLE\_NAME = o.object\_NAME and o.object\_id = t.obj# and o.object\_id = xt.obj#(+) and o.object\_type = 'TABLE' and :INCLUDE\_SYNS = 1 ) WHERE /\*\*/OBJECT\_NAME NOT IN (SELECT OBJECT\_NAME FROM RECYCLEBIN) AND not object\_name like 'BIN$%' |
| 97rs8b767yrka | INSERT INTO NR\_DATA\_AEROSOLSUPER( AEROSOLSUPER\_DATA\_ID, STATION\_ID, DEVICE\_ID, MEASURE\_TIME, "TYPE", PRESSURE, FLOWSPEED, SUMFLOW, SUMTIME, "FORCE", STDV ) SELECT SEQ\_NR\_SOP.NEXTVAL, STATION\_ID, DEVICE\_ID, MEASURE\_TIME, "TYPE", PRESSURE, FLOWSPEED, SUMFLOW, SUMTIME, "FORCE", STDV FROM NR\_SOP WHERE TYPE=:B1 |
| 99sndy8bgrgbx | INSERT INTO NR\_DATA\_RSS (RSS\_DATA\_ID, STATION\_ID, DEVICE\_ID, MEASURE\_TIME, "TYPE", HPIC, HIVT, BTVT, TEMP) SELECT SEQ\_NR\_RSS.NEXTVAL, STATION\_ID, DEVICE\_ID, MEASURE\_TIME, "TYPE", HPIC, HIVT, BTVT, TEMP FROM NR\_RSS WHERE TYPE=:B1 |
| 9dhn1b8d88dpf | select OBJOID, CLSOID, RUNTIME, PRI, JOBTYPE, SCHLIM, WT, INST, RUNNOW, ENQ\_SCHLIM from ( select a.obj# OBJOID, a.class\_oid CLSOID, decode(bitand(a.flags, 16384), 0, a.next\_run\_date, a.last\_enabled\_time) RUNTIME, (2\*a.priority + decode(bitand(a.job\_status, 4), 0, 0, decode(a.running\_instance, :1, -1, 1))) PRI, 1 JOBTYPE, decode(a.schedule\_limit, NULL, decode(bitand(a.flags, 4194304), 4194304, p.schedule\_limit, NULL), a.schedule\_limit) SCHLIM, a.job\_weight WT, decode(a.running\_instance, NULL, 0, a.running\_instance) INST, decode(bitand(a.flags, 16384), 0, 0, 1) RUNNOW, decode(bitand(a.job\_status, 8388608), 0, 0, 1) ENQ\_SCHLIM from sys.scheduler$\_job a, sys.scheduler$\_program p, v$database v, v$instance i where a.program\_oid = p.obj#(+) and bitand(a.job\_status, 515) = 1 and bitand(a.flags, 1048576) = 0 and ((bitand(a.flags, 134217728 + 268435456) = 0) or (bitand(a.job\_status, 1024) <> 0)) and bitand(a.flags, 4096) = 0 and (a.next\_run\_date <= :2 or bitand(a.flags, 16384) <> 0) and a.instance\_id is null and (a.class\_oid is null or (a.class\_oid is not null and a.class\_oid in (select b.obj# from sys.scheduler$\_class b where b.affinity is null))) and (a.database\_role = v.database\_role or (a.database\_role is null and v.database\_role = 'PRIMARY')) and ( i.logins = 'ALLOWED' or bitand(a.flags, 17179869184) <> 0 ) union all select l.obj#, l.class\_oid, decode(bitand(l.flags, 16384), 0, l.next\_run\_date, l.last\_enabled\_time), (2\*decode(bitand(l.flags, 8589934592), 0, q.priority, pj.priority) + decode(bitand(l.job\_status, 4), 0, 0, decode(l.running\_instance, :3, -1, 1))), 1, decode(bitand(l.flags, 8589934592), 0, q.schedule\_limit, decode(pj.schedule\_limit, NULL, q.schedule\_limit, pj.schedule\_limit)), decode(bitand(l.flags, 8589934592), 0, q.job\_weight, pj.job\_weight), decode(l.running\_instance, NULL, 0, l.running\_instance), decode(bitand(l.flags, 16384), 0, 0, 1), decode(bitand(l.job\_status, 8388608), 0, 0, 1) from sys.scheduler$\_lightweight\_job l, sys.scheduler$\_program q, (select sl.obj# obj#, decode(bitand(sl.flags, 8589934592), 0, sl.program\_oid, spj.program\_oid) program\_oid, decode(bitand(sl.flags, 8589934592), 0, NULL, spj.priority) priority, decode(bitand(sl.flags, 8589934592), 0, NULL, spj.job\_weight) job\_weight, decode(bitand(sl.flags, 8589934592), 0, NULL, spj.schedule\_limit) schedule\_limit from sys.scheduler$\_lightweight\_job sl, scheduler$\_job spj where sl.program\_oid = spj.obj#(+)) pj , v$instance i where pj.obj# = l.obj# and pj.program\_oid = q.obj#(+) and (:4 = 0 or l.running\_instance = :5) and bitand(l.job\_status, 515) = 1 and ((bitand(l.flags, 134217728 + 268435456) = 0) or (bitand(l.job\_status, 1024) <> 0)) and bitand(l.flags, 4096) = 0 and (l.next\_run\_date <= :6 or bitand(l.flags, 16384) <> 0) and l.instance\_id is null and (l.class\_oid is null or (l.class\_oid is not null and l.class\_oid in (select w.obj# from sys.scheduler$\_class w where w.affinity is null))) and ( i.logins = 'ALLOWED' or bitand(l.flags, 17179869184) <> 0 ) union all select c.obj#, 0, c.next\_start\_date, 0, 2, c.duration, 1, 0, 0, 0 from sys.scheduler$\_window c , v$instance i where bitand(c.flags, 1) <> 0 and bitand(c.flags, 2) = 0 and bitand(c.flags, 64) = 0 and c.next\_start\_date <= :7 and i.logins = 'ALLOWED' union all select d.obj#, 0, d.next\_start\_date + d.duration, 0, 4, numtodsinterval(0, 'minute'), 1, 0, 0, 0 from sys.scheduler$\_window d , v$instance i where bitand(d.flags, 1) <> 0 and bitand(d.flags, 2) = 0 and bitand(d.flags, 64) = 0 and d.next\_start\_date <= :8 and i.logins = 'ALLOWED' union all select f.obj#, 0, e.attr\_tstamp, 0, decode(bitand(e.flags, 131072), 0, 2, 3), e.attr\_intv, 1, 0, 0, 0 from sys.scheduler$\_global\_attribute e, sys.obj$ f, sys.obj$ g, v$instance i where e.obj# = g.obj# and g.owner# = 0 and g.name = 'CURRENT\_OPEN\_WINDOW' and e.value = f.name and f.type# = 69 and e.attr\_tstamp is not null and e.attr\_intv is not null and i.logins = 'ALLOWED' union all select i.obj#, 0, h.attr\_tstamp + h.attr\_intv, 0, decode(bitand(h.flags, 131072), 0, 4, 5), numtodsinterval(0, 'minute'), 1, 0, 0, 0 from sys.scheduler$\_global\_attribute h, sys.obj$ i, sys.obj$ j, v$instance ik where h.obj# = j.obj# and j.owner# = 0 and j.name = 'CURRENT\_OPEN\_WINDOW' and h.value = i.name and i.type# = 69 and h.attr\_tstamp is not null and h.attr\_intv is not null and ik.logins = 'ALLOWED') order by RUNTIME, JOBTYPE, CLSOID, PRI, WT DESC, OBJOID |
| 9hgyjgac1kxq1 | SELECT /\*+all\_rows\*/ SYS\_XMLGEN(VALUE(KU$), XMLFORMAT.createFormat2('TABLE\_T', '7')), KU$.OBJ\_NUM FROM SYS.KU$\_PHTABLE\_VIEW KU$ WHERE NOT (BITAND (KU$.PROPERTY, 8192)=8192) AND NOT BITAND(KU$.SCHEMA\_OBJ.FLAGS, 128)!=0 AND KU$.SCHEMA\_OBJ.NAME=:NAME1 AND KU$.SCHEMA\_OBJ.OWNER\_NAME=:SCHEMA2 |
| 9vy7a44z4c5c7 | SELECT plu\_code , plu\_name , round(sysdate-measure\_time, 2) AS time FROM PLU\_RUNTIME\_DATA WHERE eqp\_id=3122 AND (sysdate-measure\_time)\*24>3 |
| a6farn94x6dq3 | INSERT INTO EPM\_EXTRACTRECORD ( ID, CATEGORIES, OBJECT\_EN, OBJECT\_CN, LOGTIME, GETCOUNT ) VALUES ( SEQ\_EPM\_EXTRACTRECORD\_ID.NEXTVAL, :B5 , :B4 , :B3 , :B2 , :B1 ) |
| akmd5v09ws1dt | SELECT plu\_code , plu\_name , round(sysdate-measure\_time, 2) AS time FROM PLU\_RUNTIME\_DATA WHERE eqp\_id=7777 AND (sysdate-measure\_time)\*24>3 |
| apfrybhnh11yh | insert into PLU\_runtime\_data select \* from e\_runtime\_data@WRYLink |
| avarc9bagp14p | DELETE FROM NR\_ATQ WHERE EXISTS(SELECT 1 FROM NR\_DATA\_ATMOSPHERE WHERE NR\_DATA\_ATMOSPHERE.MEASURE\_TIME=NR\_ATQ.MEASURE\_TIME AND NR\_DATA\_ATMOSPHERE.STATION\_ID=NR\_ATQ.STATION\_ID AND NR\_DATA\_ATMOSPHERE.TYPE=NR\_ATQ.TYPE AND NR\_ATQ.TYPE=:B1 ) |
| b4k9wbuxpgsh6 | INSERT INTO NR\_DATA\_AEROSOL ( AEROSOL\_DATA\_ID, STATION\_ID, DEVICE\_ID, MEASURE\_TIME, PRESSURE, FLOWSPEED, SUMFLOW, SUMTIME, "TYPE", "FORCE", STDV ) SELECT SEQ\_NR\_SOL.NEXTVAL, STATION\_ID, DEVICE\_ID, MEASURE\_TIME, PRESSURE, FLOWSPEED, SUMFLOW, SUMTIME, "TYPE", "FORCE", STDV FROM NR\_SOL WHERE TYPE=:B1 |
| bm2pwrpcr8ru6 | select sga\_size s, sga\_size\_factor \* 100 f, estd\_db\_time t, estd\_physical\_reads p from v$sga\_target\_advice order by sga\_size |
| brd7cvpx0sd2c | Select 'x' from dual |
| bsx7s330syczq | Begin InsertDQData.pro\_InsertIAQI(:v0); End; |
| bunssq950snhf | insert into wrh$\_sga\_target\_advice (snap\_id, dbid, instance\_number, SGA\_SIZE, SGA\_SIZE\_FACTOR, ESTD\_DB\_TIME, ESTD\_PHYSICAL\_READS) select :snap\_id, :dbid, :instance\_number, SGA\_SIZE, SGA\_SIZE\_FACTOR, ESTD\_DB\_TIME, ESTD\_PHYSICAL\_READS from v$sga\_target\_advice |
| c2vabnfa3h5fy | SELECT plu\_code , plu\_name , round(sysdate-measure\_time, 2) AS time FROM PLU\_RUNTIME\_DATA WHERE eqp\_id=3202 AND (sysdate-measure\_time)\*24>3 |
| cm5vu20fhtnq1 | select /\*+ connect\_by\_filtering \*/ privilege#, level from sysauth$ connect by grantee#=prior privilege# and privilege#>0 start with grantee#=:1 and privilege#>0 |
| cq42hf7st5yvh | Begin InsertNRData.InsertSol(:v0, :v1); End; |
| d0ad1jmkzbvdr | UPDATE EPM\_EXTRACTRECORD SET STORAGECOUNT =:B4 WHERE CATEGORIES=:B3 AND OBJECT\_EN=:B2 AND LOGTIME=:B1 |
| d1wszskms1p53 | Begin EPM\_EXTRACTRECORDOPER.PRO\_AddRecord(:v0, :v1, :v2, :v3, :v4, :v5); End; |
| d8gfund9ykafp | Begin InsertNRData.InsertDry(:v0, :v1); End; |
| dayq182sk41ks | insert into wrh$\_memory\_target\_advice (snap\_id, dbid, instance\_number, memory\_size, memory\_size\_factor, estd\_db\_time, estd\_db\_time\_factor, version) select :snap\_id, :dbid, :instance\_number, memory\_size, memory\_size\_factor, estd\_db\_time, estd\_db\_time\_factor, version from v$memory\_target\_advice |
| dfxu2zzh3y2vm | DELETE FROM NR\_DRY WHERE EXISTS(SELECT 1 FROM NR\_DATA\_DRY WHERE NR\_DATA\_DRY.MEASURE\_TIME=NR\_DRY.MEASURE\_TIME AND NR\_DATA\_DRY.STATION\_ID=NR\_DRY.STATION\_ID AND NR\_DATA\_DRY.TYPE=NR\_DRY.TYPE AND NR\_DRY.TYPE=:B1 ) |
| dh9f2089aupyk | Begin InsertNRData.InsertAtq(:v0, :v1); End; |
| dqcn94drph4dw | SELECT "VPLU\_WATER\_DATA"."DATAVALUE" AS "字段1", "VPLU\_WATER\_DATA"."PARAMCODE" AS "字段2", "VPLU\_WATER\_DATA"."STATION\_ID" AS "字段3", "VPLU\_WATER\_DATA"."MEASURE\_TIME" AS "字段4", "VPLU\_WATER\_DATA"."CREATETIME" AS "字段5" FROM "VPLU\_WATER\_DATA" WHERE ( "VPLU\_WATER\_DATA"."CREATETIME" > :param0 ) AND ( "VPLU\_WATER\_DATA"."CREATETIME" <= :param1 ) |
| gcdbhhqtycywc | DELETE FROM AQIDATAPUBLISHHISTORY WHERE EXISTS (SELECT 1 FROM AIR\_AQI\_LIVE\_DATA WHERE AQIDATAPUBLISHHISTORY.MEASURE\_TIME=AIR\_AQI\_LIVE\_DATA.MEASURE\_TIME AND AQIDATAPUBLISHHISTORY.STATIONCODE=AIR\_AQI\_LIVE\_DATA.STATIONCODE ) |
| gjb45ssq30a05 | SELECT plu\_code , plu\_name , round(sysdate-measure\_time, 2) AS time FROM PLU\_RUNTIME\_DATA WHERE eqp\_id=1819 AND (sysdate-measure\_time)\*24>3 |
| gjdas6dh482n7 | SELECT plu\_code , plu\_name , round(sysdate-measure\_time, 2) AS time FROM PLU\_RUNTIME\_DATA WHERE eqp\_id=8867 AND (sysdate-measure\_time)\*24>3 |
| gjuu6yhxtrv5j | DELETE FROM NR\_RSS WHERE EXISTS(SELECT 1 FROM NR\_DATA\_RSS WHERE NR\_DATA\_RSS.MEASURE\_TIME=NR\_RSS.MEASURE\_TIME AND NR\_DATA\_RSS.STATION\_ID=NR\_RSS.STATION\_ID AND NR\_DATA\_RSS.TYPE=NR\_RSS.TYPE AND NR\_RSS.TYPE=:B1 ) |

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**Instance Activity Statistics**

* [**Instance Activity Stats**](about:blank#1200)
* [**Instance Activity Stats - Absolute Values**](about:blank#1300)
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**Instance Activity Stats**

* Ordered by statistic name

|  |  |  |  |
| --- | --- | --- | --- |
| **Statistic** | **Total** | **per Second** | **per Trans** |
| Batched IO (bound) vector count | 0 | 0.00 | 0.00 |
| Batched IO (full) vector count | 0 | 0.00 | 0.00 |
| Batched IO block miss count | 0 | 0.00 | 0.00 |
| Batched IO buffer defrag count | 0 | 0.00 | 0.00 |
| Batched IO double miss count | 0 | 0.00 | 0.00 |
| Batched IO same unit count | 0 | 0.00 | 0.00 |
| Batched IO single block count | 0 | 0.00 | 0.00 |
| Batched IO vector block count | 0 | 0.00 | 0.00 |
| Batched IO vector read count | 0 | 0.00 | 0.00 |
| Block Cleanout Optim referenced | 193 | 0.01 | 0.00 |
| CCursor + sql area evicted | 31 | 0.00 | 0.00 |
| CPU used by this session | 24,406 | 1.36 | 0.14 |
| CPU used when call started | 18,642 | 1.04 | 0.11 |
| CR blocks created | 3 | 0.00 | 0.00 |
| Cached Commit SCN referenced | 0 | 0.00 | 0.00 |
| Commit SCN cached | 330 | 0.02 | 0.00 |
| DB time | 298,388 | 16.60 | 1.73 |
| DBWR checkpoint buffers written | 26,671 | 1.48 | 0.15 |
| DBWR checkpoints | 329 | 0.02 | 0.00 |
| DBWR object drop buffers written | 1,754 | 0.10 | 0.01 |
| DBWR revisited being-written buffer | 0 | 0.00 | 0.00 |
| DBWR thread checkpoint buffers written | 0 | 0.00 | 0.00 |
| DBWR transaction table writes | 564 | 0.03 | 0.00 |
| DBWR undo block writes | 8,769 | 0.49 | 0.05 |
| HSC Heap Segment Block Changes | 323,594 | 18.00 | 1.87 |
| Heap Segment Array Inserts | 16,824 | 0.94 | 0.10 |
| Heap Segment Array Updates | 428 | 0.02 | 0.00 |
| IMU pool not allocated | 214,417 | 11.93 | 1.24 |
| IMU- failed to get a private strand | 214,417 | 11.93 | 1.24 |
| LOB table id lookup cache misses | 0 | 0.00 | 0.00 |
| Number of read IOs issued | 592 | 0.03 | 0.00 |
| PX local messages recv'd | 0 | 0.00 | 0.00 |
| PX local messages sent | 0 | 0.00 | 0.00 |
| Requests to/from client | 637,923 | 35.49 | 3.69 |
| RowCR - row contention | 0 | 0.00 | 0.00 |
| RowCR attempts | 0 | 0.00 | 0.00 |
| RowCR hits | 0 | 0.00 | 0.00 |
| SMON posted for undo segment shrink | 19 | 0.00 | 0.00 |
| SQL\*Net roundtrips to/from client | 638,002 | 35.49 | 3.69 |
| SQL\*Net roundtrips to/from dblink | 1,110 | 0.06 | 0.01 |
| TBS Extension: bytes extended | 0 | 0.00 | 0.00 |
| TBS Extension: files extended | 0 | 0.00 | 0.00 |
| TBS Extension: tasks created | 0 | 0.00 | 0.00 |
| TBS Extension: tasks executed | 0 | 0.00 | 0.00 |
| active txn count during cleanout | 839 | 0.05 | 0.00 |
| application wait time | 39 | 0.00 | 0.00 |
| auto extends on undo tablespace | 0 | 0.00 | 0.00 |
| background checkpoints completed | 20 | 0.00 | 0.00 |
| background checkpoints started | 19 | 0.00 | 0.00 |
| background timeouts | 129,306 | 7.19 | 0.75 |
| branch node splits | 0 | 0.00 | 0.00 |
| buffer is not pinned count | 662,884 | 36.88 | 3.84 |
| buffer is pinned count | 2,879,040 | 160.17 | 16.66 |
| bytes received via SQL\*Net from client | 123,670,274 | 6,880.09 | 715.57 |
| bytes received via SQL\*Net from dblink | 2,713,075 | 150.94 | 15.70 |
| bytes sent via SQL\*Net to client | 48,273,814 | 2,685.59 | 279.32 |
| bytes sent via SQL\*Net to dblink | 359,069 | 19.98 | 2.08 |
| calls to get snapshot scn: kcmgss | 554,220 | 30.83 | 3.21 |
| calls to kcmgas | 219,868 | 12.23 | 1.27 |
| calls to kcmgcs | 295,402 | 16.43 | 1.71 |
| cell physical IO interconnect bytes | 1,337,358,848 | 74,400.65 | 7,738.09 |
| change write time | 749 | 0.04 | 0.00 |
| cleanout - number of ktugct calls | 1,150 | 0.06 | 0.01 |
| cleanouts and rollbacks - consistent read gets | 1 | 0.00 | 0.00 |
| cleanouts only - consistent read gets | 172 | 0.01 | 0.00 |
| cluster key scan block gets | 3,373 | 0.19 | 0.02 |
| cluster key scans | 2,458 | 0.14 | 0.01 |
| commit batch/immediate performed | 57 | 0.00 | 0.00 |
| commit batch/immediate requested | 57 | 0.00 | 0.00 |
| commit cleanout failures: block lost | 0 | 0.00 | 0.00 |
| commit cleanout failures: buffer being written | 0 | 0.00 | 0.00 |
| commit cleanout failures: callback failure | 28 | 0.00 | 0.00 |
| commit cleanout failures: cannot pin | 4 | 0.00 | 0.00 |
| commit cleanouts | 239,620 | 13.33 | 1.39 |
| commit cleanouts successfully completed | 239,588 | 13.33 | 1.39 |
| commit immediate performed | 57 | 0.00 | 0.00 |
| commit immediate requested | 57 | 0.00 | 0.00 |
| commit txn count during cleanout | 2,451 | 0.14 | 0.01 |
| concurrency wait time | 435 | 0.02 | 0.00 |
| consistent changes | 121 | 0.01 | 0.00 |
| consistent gets | 8,274,994 | 460.36 | 47.88 |
| consistent gets - examination | 303,414 | 16.88 | 1.76 |
| consistent gets direct | 727 | 0.04 | 0.00 |
| consistent gets from cache | 8,274,267 | 460.32 | 47.88 |
| consistent gets from cache (fastpath) | 7,917,608 | 440.48 | 45.81 |
| cursor authentications | 16,621 | 0.92 | 0.10 |
| data blocks consistent reads - undo records applied | 3 | 0.00 | 0.00 |
| db block changes | 1,165,885 | 64.86 | 6.75 |
| db block gets | 1,183,591 | 65.85 | 6.85 |
| db block gets direct | 55 | 0.00 | 0.00 |
| db block gets from cache | 1,183,536 | 65.84 | 6.85 |
| db block gets from cache (fastpath) | 350,553 | 19.50 | 2.03 |
| deferred (CURRENT) block cleanout applications | 191,100 | 10.63 | 1.11 |
| enqueue conversions | 7,176 | 0.40 | 0.04 |
| enqueue releases | 635,817 | 35.37 | 3.68 |
| enqueue requests | 635,813 | 35.37 | 3.68 |
| enqueue timeouts | 0 | 0.00 | 0.00 |
| enqueue waits | 308 | 0.02 | 0.00 |
| exchange deadlocks | 0 | 0.00 | 0.00 |
| execute count | 547,105 | 30.44 | 3.17 |
| failed probes on index block reclamation | 0 | 0.00 | 0.00 |
| file io service time | 591 | 0.03 | 0.00 |
| file io wait time | 3,123,436 | 173.76 | 18.07 |
| free buffer inspected | 0 | 0.00 | 0.00 |
| free buffer requested | 41,553 | 2.31 | 0.24 |
| heap block compress | 1,167 | 0.06 | 0.01 |
| immediate (CR) block cleanout applications | 173 | 0.01 | 0.00 |
| immediate (CURRENT) block cleanout applications | 1,435 | 0.08 | 0.01 |
| in call idle wait time | 52,015,286 | 2,893.74 | 300.97 |
| index crx upgrade (positioned) | 194 | 0.01 | 0.00 |
| index crx upgrade (prefetch) | 0 | 0.00 | 0.00 |
| index fast full scans (full) | 101 | 0.01 | 0.00 |
| index fetch by key | 157,681 | 8.77 | 0.91 |
| index scans kdiixs1 | 122,780 | 6.83 | 0.71 |
| leaf node 90-10 splits | 165 | 0.01 | 0.00 |
| leaf node splits | 387 | 0.02 | 0.00 |
| lob reads | 759 | 0.04 | 0.00 |
| lob writes | 110 | 0.01 | 0.00 |
| lob writes unaligned | 110 | 0.01 | 0.00 |
| logical read bytes from cache | 77,478,322,176 | 4,310,314.79 | 448,297.28 |
| logons cumulative | 1,039 | 0.06 | 0.01 |
| max cf enq hold time | 0 | 0.00 | 0.00 |
| messages received | 234,555 | 13.05 | 1.36 |
| messages sent | 234,555 | 13.05 | 1.36 |
| min active SCN optimization applied on CR | 403 | 0.02 | 0.00 |
| no work - consistent read gets | 7,672,559 | 426.84 | 44.39 |
| non-idle wait count | 1,234,048 | 68.65 | 7.14 |
| non-idle wait time | 8,677 | 0.48 | 0.05 |
| opened cursors cumulative | 266,717 | 14.84 | 1.54 |
| parse count (describe) | 2 | 0.00 | 0.00 |
| parse count (failures) | 0 | 0.00 | 0.00 |
| parse count (hard) | 30,563 | 1.70 | 0.18 |
| parse count (total) | 175,265 | 9.75 | 1.01 |
| parse time cpu | 3,251 | 0.18 | 0.02 |
| parse time elapsed | 3,679 | 0.20 | 0.02 |
| physical read IO requests | 1,663 | 0.09 | 0.01 |
| physical read bytes | 14,557,184 | 809.85 | 84.23 |
| physical read total IO requests | 38,489 | 2.14 | 0.22 |
| physical read total bytes | 614,223,360 | 34,170.80 | 3,553.96 |
| physical read total multi block requests | 0 | 0.00 | 0.00 |
| physical reads | 1,777 | 0.10 | 0.01 |
| physical reads cache | 1,050 | 0.06 | 0.01 |
| physical reads cache prefetch | 2 | 0.00 | 0.00 |
| physical reads direct | 727 | 0.04 | 0.00 |
| physical reads direct (lob) | 704 | 0.04 | 0.00 |
| physical reads direct temporary tablespace | 0 | 0.00 | 0.00 |
| physical reads prefetch warmup | 0 | 0.00 | 0.00 |
| physical write IO requests | 16,370 | 0.91 | 0.09 |
| physical write bytes | 236,814,336 | 13,174.58 | 1,370.23 |
| physical write total IO requests | 209,598 | 11.66 | 1.21 |
| physical write total bytes | 723,135,488 | 40,229.85 | 4,184.13 |
| physical write total multi block requests | 535 | 0.03 | 0.00 |
| physical writes | 28,908 | 1.61 | 0.17 |
| physical writes direct | 55 | 0.00 | 0.00 |
| physical writes direct (lob) | 55 | 0.00 | 0.00 |
| physical writes direct temporary tablespace | 0 | 0.00 | 0.00 |
| physical writes from cache | 28,853 | 1.61 | 0.17 |
| physical writes non checkpoint | 9,640 | 0.54 | 0.06 |
| pinned buffers inspected | 0 | 0.00 | 0.00 |
| pinned cursors current | 5 | 0.00 | 0.00 |
| prefetch clients - default | 0 | 0.00 | 0.00 |
| prefetch warmup blocks flushed out before use | 0 | 0.00 | 0.00 |
| process last non-idle time | 17,941 | 1.00 | 0.10 |
| recovery blocks read | 0 | 0.00 | 0.00 |
| recursive calls | 468,611 | 26.07 | 2.71 |
| recursive cpu usage | 7,680 | 0.43 | 0.04 |
| redo KB read | 0 | 0.00 | 0.00 |
| redo blocks checksummed by FG (exclusive) | 27,368 | 1.52 | 0.16 |
| redo blocks read for recovery | 0 | 0.00 | 0.00 |
| redo blocks written | 514,992 | 28.65 | 2.98 |
| redo buffer allocation retries | 38 | 0.00 | 0.00 |
| redo entries | 603,906 | 33.60 | 3.49 |
| redo k-bytes read for recovery | 0 | 0.00 | 0.00 |
| redo log space requests | 38 | 0.00 | 0.00 |
| redo log space wait time | 19 | 0.00 | 0.00 |
| redo ordering marks | 8,347 | 0.46 | 0.05 |
| redo size | 189,592,680 | 10,547.52 | 1,097.00 |
| redo size for direct writes | 2,904 | 0.16 | 0.02 |
| redo subscn max counts | 13,444 | 0.75 | 0.08 |
| redo synch long waits | 8 | 0.00 | 0.00 |
| redo synch time | 4,512 | 0.25 | 0.03 |
| redo synch time (usec) | 45,821,388 | 2,549.16 | 265.13 |
| redo synch writes | 174,411 | 9.70 | 1.01 |
| redo wastage | 65,549,412 | 3,646.68 | 379.28 |
| redo write time | 2,291 | 0.13 | 0.01 |
| redo writes | 179,356 | 9.98 | 1.04 |
| rollback changes - undo records applied | 9 | 0.00 | 0.00 |
| rollbacks only - consistent read gets | 2 | 0.00 | 0.00 |
| root node splits | 0 | 0.00 | 0.00 |
| rows fetched via callback | 7,818 | 0.43 | 0.05 |
| session connect time | 16,704 | 0.93 | 0.10 |
| session cursor cache hits | 91,903 | 5.11 | 0.53 |
| session logical reads | 9,458,585 | 526.20 | 54.73 |
| shared hash latch upgrades - no wait | 6,243 | 0.35 | 0.04 |
| shared hash latch upgrades - wait | 0 | 0.00 | 0.00 |
| sorts (memory) | 18,827 | 1.05 | 0.11 |
| sorts (rows) | 268,963 | 14.96 | 1.56 |
| sql area evicted | 19,423 | 1.08 | 0.11 |
| sql area purged | 155 | 0.01 | 0.00 |
| switch current to new buffer | 31,738 | 1.77 | 0.18 |
| table fetch by rowid | 1,522,341 | 84.69 | 8.81 |
| table fetch continued row | 400 | 0.02 | 0.00 |
| table scan blocks gotten | 6,934,194 | 385.77 | 40.12 |
| table scan rows gotten | 571,041,866 | 31,768.50 | 3,304.11 |
| table scans (long tables) | 0 | 0.00 | 0.00 |
| table scans (short tables) | 116,898 | 6.50 | 0.68 |
| temp space allocated (bytes) | 0 | 0.00 | 0.00 |
| total cf enq hold time | 320 | 0.02 | 0.00 |
| total number of cf enq holders | 229 | 0.01 | 0.00 |
| total number of times SMON posted | 107 | 0.01 | 0.00 |
| transaction rollbacks | 57 | 0.00 | 0.00 |
| transaction tables consistent read rollbacks | 0 | 0.00 | 0.00 |
| transaction tables consistent reads - undo records applied | 0 | 0.00 | 0.00 |
| undo change vector size | 61,410,380 | 3,416.41 | 355.33 |
| user I/O wait time | 112 | 0.01 | 0.00 |
| user calls | 774,853 | 43.11 | 4.48 |
| user commits | 172,828 | 9.61 | 1.00 |
| workarea executions - onepass | 0 | 0.00 | 0.00 |
| workarea executions - optimal | 12,753 | 0.71 | 0.07 |
| write clones created in background | 465 | 0.03 | 0.00 |
| write clones created in foreground | 1 | 0.00 | 0.00 |

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**Instance Activity Stats - Absolute Values**

* Statistics with absolute values (should not be diffed)

|  |  |  |
| --- | --- | --- |
| **Statistic** | **Begin Value** | **End Value** |
| opened cursors current | 415 | 365 |
| logons current | 83 | 78 |
| session uga memory max | 127,765,314,408 | 128,640,845,464 |
| session pga memory | 12,168,586,800 | 12,232,895,952 |
| session pga memory max | 18,276,493,520 | 18,429,997,168 |
| session cursor cache count | 3,100,321 | 3,119,432 |
| session uga memory | 33,942,528,172,824 | 34,161,631,228,680 |

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**Instance Activity Stats - Thread Activity**

* Statistics identified by '(derived)' come from sources other than SYSSTAT

|  |  |  |
| --- | --- | --- |
| **Statistic** | **Total** | **per Hour** |
| log switches (derived) | 19 | 3.81 |

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**IO Stats**

* [**IOStat by Function summary**](about:blank#8760)
* [**IOStat by Filetype summary**](about:blank#8770)
* [**IOStat by Function/Filetype summary**](about:blank#8780)
* [**Tablespace IO Stats**](about:blank#1700)
* [**File IO Stats**](about:blank#1800)

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**IOStat by Function summary**

* 'Data' columns suffixed with M,G,T,P are in multiples of 1024 other columns suffixed with K,M,G,T,P are in multiples of 1000
* ordered by (Data Read + Write) desc

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Function Name** | **Reads: Data** | **Reqs per sec** | **Data per sec** | **Writes: Data** | **Reqs per sec** | **Data per sec** | **Waits: Count** | **Avg Tm(ms)** |
| Others | 568M | 2.03 | .031599 | 206M | 0.74 | .011460 | 49.9K | 0.01 |
| LGWR | 4M | 0.02 | .000222 | 258M | 10.01 | .014353 | 359.5K | 0.01 |
| DBWR | 0M | 0.00 | 0M | 225M | 0.91 | .012517 | 16.3K | 0.01 |
| Buffer Cache Reads | 8M | 0.06 | .000445 | 0M | 0.00 | 0M | 1048 | 0.15 |
| Direct Reads | 5M | 0.03 | .000278 | 0M | 0.00 | 0M | 592 | 0.08 |
| Direct Writes | 0M | 0.00 | 0M | 1M | 0.00 | .000055 | 55 | 0.00 |
| TOTAL: | 585M | 2.14 | .032545 | 690M | 11.66 | .038386 | 427.4K | 0.01 |

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**IOStat by Filetype summary**

* 'Data' columns suffixed with M,G,T,P are in multiples of 1024 other columns suffixed with K,M,G,T,P are in multiples of 1000
* Small Read and Large Read are average service times, in milliseconds
* Ordered by (Data Read + Write) desc

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Filetype Name** | **Reads: Data** | **Reqs per sec** | **Data per sec** | **Writes: Data** | **Reqs per sec** | **Data per sec** | **Small Read** | **Large Read** |
| Control File | 569M | 2.03 | .031654 | 210M | 0.75 | .011682 | 0.00 |  |
| Log File | 0M | 0.00 | 0M | 252M | 9.99 | .014019 | 0.00 |  |
| Data File | 22M | 0.11 | .001223 | 229M | 0.93 | .012739 | 0.11 |  |
| TOTAL: | 591M | 2.14 | .032878 | 691M | 11.66 | .038442 | 0.01 |  |

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**IOStat by Function/Filetype summary**

* 'Data' columns suffixed with M,G,T,P are in multiples of 1024 other columns suffixed with K,M,G,T,P are in multiples of 1000
* Ordered by (Data Read + Write) desc for each function

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Function/File Name** | **Reads: Data** | **Reqs per sec** | **Data per sec** | **Writes: Data** | **Reqs per sec** | **Data per sec** | **Waits: Count** | **Avg Tm(ms)** |
| Others | 567M | 2.03 | .031543 | 206M | 0.74 | .011460 | 36.8K | 0.00 |
| Others (Control File) | 564M | 2.01 | .031376 | 204M | 0.73 | .011349 | 36.1K | 0.00 |
| Others (Data File) | 3M | 0.02 | .000166 | 2M | 0.02 | .000111 | 698 | 0.04 |
| LGWR | 4M | 0.02 | .000222 | 258M | 10.01 | .014353 | 342 | 0.00 |
| LGWR (Log File) | 0M | 0.00 | 0M | 252M | 9.99 | .014019 | 76 | 0.00 |
| LGWR (Control File) | 4M | 0.01 | .000222 | 6M | 0.02 | .000333 | 266 | 0.00 |
| DBWR | 0M | 0.00 | 0M | 225M | 0.91 | .012517 | 0 |  |
| DBWR (Data File) | 0M | 0.00 | 0M | 225M | 0.91 | .012517 | 0 |  |
| Buffer Cache Reads | 8M | 0.06 | .000445 | 0M | 0.00 | 0M | 1048 | 0.15 |
| Buffer Cache Reads (Data File) | 8M | 0.06 | .000445 | 0M | 0.00 | 0M | 1048 | 0.15 |
| Direct Reads | 5M | 0.03 | .000278 | 0M | 0.00 | 0M | 0 |  |
| Direct Reads (Data File) | 5M | 0.03 | .000278 | 0M | 0.00 | 0M | 0 |  |
| Direct Writes | 0M | 0.00 | 0M | 1M | 0.00 | .000055 | 0 |  |
| Direct Writes (Data File) | 0M | 0.00 | 0M | 1M | 0.00 | .000055 | 0 |  |
| TOTAL: | 584M | 2.14 | .032489 | 690M | 11.66 | .038386 | 38.2K | 0.00 |

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**Tablespace IO Stats**

* ordered by IOs (Reads + Writes) desc

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tablespace** | **Reads** | **Av Reads/s** | **Av Rd(ms)** | **Av Blks/Rd** | **Writes** | **Av Writes/s** | **Buffer Waits** | **Av Buf Wt(ms)** |
| EPM | 1 | 0 | 0.00 | 1.00 | 9,204 | 1 | 0 | 0.00 |
| EGSS | 932 | 0 | 0.01 | 1.00 | 1,796 | 0 | 0 | 0.00 |
| SYSAUX | 28 | 0 | 1.79 | 1.07 | 1,789 | 0 | 0 | 0.00 |
| UNDOTBS1 | 0 | 0 | 0.00 | 0.00 | 1,639 | 0 | 19 | 0.53 |
| SYSTEM | 703 | 0 | 0.23 | 1.16 | 651 | 0 | 1 | 0.00 |
| EPM\_NR\_DATA2014 | 0 | 0 | 0.00 | 0.00 | 650 | 0 | 0 | 0.00 |
| EPM\_EXREACT2014\_1 | 0 | 0 | 0.00 | 0.00 | 228 | 0 | 0 | 0.00 |
| EPM\_PLU\_WATER\_DATA2014 | 0 | 0 | 0.00 | 0.00 | 157 | 0 | 0 | 0.00 |
| EPM\_PLU\_GAS\_DATA2014 | 0 | 0 | 0.00 | 0.00 | 108 | 0 | 0 | 0.00 |
| SIGNON | 0 | 0 | 0.00 | 0.00 | 94 | 0 | 0 | 0.00 |
| EPM\_AIR\_DATA2014 | 0 | 0 | 0.00 | 0.00 | 41 | 0 | 0 | 0.00 |
| EPM\_SFWATER\_DATA2014 | 0 | 0 | 0.00 | 0.00 | 13 | 0 | 0 | 0.00 |

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**File IO Stats**

* ordered by Tablespace, File

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tablespace** | **Filename** | **Reads** | **Av Reads/s** | **Av Rd(ms)** | **Av Blks/Rd** | **Writes** | **Av Writes/s** | **Buffer Waits** | **Av Buf Wt(ms)** |
| EGSS | /data/orcl/EGSS | 932 | 0 | 0.01 | 1.00 | 1,796 | 0 | 0 | 0.00 |
| EPM | /data/orcl/EPM | 1 | 0 | 0.00 | 1.00 | 9,204 | 1 | 0 | 0.00 |
| EPM\_AIR\_DATA2014 | /data/orcl/EPM\_AIR\_DATA2014 | 0 | 0 |  |  | 41 | 0 | 0 | 0.00 |
| EPM\_EXREACT2014\_1 | /data/orcl/EPM\_EXREACT2014\_1 | 0 | 0 |  |  | 228 | 0 | 0 | 0.00 |
| EPM\_NR\_DATA2014 | /data/orcl/EPM\_NR\_DATA2014 | 0 | 0 |  |  | 650 | 0 | 0 | 0.00 |
| EPM\_PLU\_GAS\_DATA2014 | /data/orcl/EPM\_PLU\_GAS\_DATA2014 | 0 | 0 |  |  | 108 | 0 | 0 | 0.00 |
| EPM\_PLU\_WATER\_DATA2014 | /data/orcl/EPM\_PLU\_WATER\_DATA2014 | 0 | 0 |  |  | 157 | 0 | 0 | 0.00 |
| EPM\_SFWATER\_DATA2014 | /data/orcl/EPM\_SFWATER\_DATA2014 | 0 | 0 |  |  | 13 | 0 | 0 | 0.00 |
| SIGNON | /data/orcl/SIGNON | 0 | 0 |  |  | 94 | 0 | 0 | 0.00 |
| SYSAUX | /data/orcl/sysaux01.dbf | 28 | 0 | 1.79 | 1.07 | 1,789 | 0 | 0 | 0.00 |
| SYSTEM | /data/orcl/system01.dbf | 703 | 0 | 0.23 | 1.16 | 651 | 0 | 1 | 0.00 |
| UNDOTBS1 | /data/orcl/undotbs01.dbf | 0 | 0 |  |  | 1,639 | 0 | 19 | 0.53 |

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**Buffer Pool Statistics**

* [**Buffer Pool Statistics**](about:blank#1900)
* [**Checkpoint Activity**](about:blank#1910)

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**Buffer Pool Statistics**

* Standard block size Pools D: default, K: keep, R: recycle
* Default Pools for other block sizes: 2k, 4k, 8k, 16k, 32k

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **P** | **Number of Buffers** | **Pool Hit%** | **Buffer Gets** | **Physical Reads** | **Physical Writes** | **Free Buff Wait** | **Writ Comp Wait** | **Buffer Busy Waits** |
| D | 2,319,954 | 100 | 9,457,873 | 1,050 | 28,853 | 0 | 0 | 20 |

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**Checkpoint Activity**

* Total Physical Writes: 28,908

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **MTTR Writes** | **Log Size Writes** | **Log Ckpt Writes** | **Other Settings Writes** | **Autotune Ckpt Writes** | **Thread Ckpt Writes** |
| 0 | 0 | 0 | 0 | 26,669 | 0 |

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**Advisory Statistics**

* [**Instance Recovery Stats**](about:blank#2000)
* [**MTTR Advisory**](about:blank#2010)
* [**Buffer Pool Advisory**](about:blank#2100)
* [**PGA Aggr Summary**](about:blank#2400)
* [**PGA Aggr Target Stats**](about:blank#2600)
* [**PGA Aggr Target Histogram**](about:blank#2700)
* [**PGA Memory Advisory**](about:blank#2800)
* [**Shared Pool Advisory**](about:blank#5500)
* [**SGA Target Advisory**](about:blank#6900)
* [**Streams Pool Advisory**](about:blank#7100)
* [**Java Pool Advisory**](about:blank#5700)

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**Instance Recovery Stats**

* B: Begin Snapshot, E: End Snapshot

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Targt MTTR (s)** | **Estd MTTR (s)** | **Recovery Estd IOs** | **Actual RedoBlks** | **Target RedoBlks** | **Log Sz RedoBlks** | **Log Ckpt Timeout RedoBlks** | **Log Ckpt Interval RedoBlks** | **Opt Log Sz(M)** | **Estd RAC Avail Time** |
| B | 0 | 15 | 559 | 12208 | 49392 | 165888 | 49392 |  |  |  |
| E | 0 | 15 | 730 | 12411 | 49207 | 165888 | 49207 |  |  |  |

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**MTTR Advisory**

**No data exists for this section of the report.**

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**Buffer Pool Advisory**

* Only rows with estimated physical reads >0 are displayed
* ordered by Block Size, Buffers For Estimate

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **P** | **Size for Est (M)** | **Size Factor** | **Buffers (thousands)** | **Est Phys Read Factor** | **Estimated Phys Reads (thousands)** | **Est Phys Read Time** | **Est %DBtime for Rds** |
| D | 1,792 | 0.10 | 221 | 3.64 | 2,417 | 1 | 358.00 |
| D | 3,584 | 0.19 | 442 | 1.15 | 766 | 1 | 94.00 |
| D | 5,376 | 0.29 | 663 | 1.03 | 683 | 1 | 81.00 |
| D | 7,168 | 0.38 | 884 | 1.02 | 674 | 1 | 79.00 |
| D | 8,960 | 0.48 | 1,105 | 1.01 | 670 | 1 | 79.00 |
| D | 10,752 | 0.57 | 1,326 | 1.01 | 667 | 1 | 78.00 |
| D | 12,544 | 0.67 | 1,547 | 1.00 | 666 | 1 | 78.00 |
| D | 14,336 | 0.76 | 1,768 | 1.00 | 665 | 1 | 78.00 |
| D | 16,128 | 0.86 | 1,989 | 1.00 | 664 | 1 | 78.00 |
| D | 17,920 | 0.95 | 2,209 | 1.00 | 664 | 1 | 78.00 |
| D | 18,816 | 1.00 | 2,320 | 1.00 | 664 | 1 | 78.00 |
| D | 19,712 | 1.05 | 2,430 | 1.00 | 663 | 1 | 77.00 |
| D | 21,504 | 1.14 | 2,651 | 1.00 | 663 | 1 | 77.00 |
| D | 23,296 | 1.24 | 2,872 | 1.00 | 662 | 1 | 77.00 |
| D | 25,088 | 1.33 | 3,093 | 1.00 | 662 | 1 | 77.00 |
| D | 26,880 | 1.43 | 3,314 | 1.00 | 662 | 1 | 77.00 |
| D | 28,672 | 1.52 | 3,535 | 1.00 | 662 | 1 | 77.00 |
| D | 30,464 | 1.62 | 3,756 | 1.00 | 662 | 1 | 77.00 |
| D | 32,256 | 1.71 | 3,977 | 1.00 | 662 | 1 | 77.00 |
| D | 34,048 | 1.81 | 4,198 | 1.00 | 662 | 1 | 77.00 |
| D | 35,840 | 1.90 | 4,419 | 0.95 | 627 | 1 | 72.00 |

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**PGA Aggr Summary**

* PGA cache hit % - percentage of W/A (WorkArea) data processed only in-memory

|  |  |  |
| --- | --- | --- |
| **PGA Cache Hit %** | **W/A MB Processed** | **Extra W/A MB Read/Written** |
| 100.00 | 939 | 0 |

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**PGA Aggr Target Stats**

**No data exists for this section of the report.**

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**PGA Aggr Target Histogram**

* Optimal Executions are purely in-memory operations

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Low Optimal** | **High Optimal** | **Total Execs** | **Optimal Execs** | **1-Pass Execs** | **M-Pass Execs** |
| 2K | 4K | 11,887 | 11,887 | 0 | 0 |
| 64K | 128K | 107 | 107 | 0 | 0 |
| 128K | 256K | 2 | 2 | 0 | 0 |
| 512K | 1024K | 132 | 132 | 0 | 0 |
| 1M | 2M | 614 | 614 | 0 | 0 |
| 2M | 4M | 1 | 1 | 0 | 0 |
| 4M | 8M | 10 | 10 | 0 | 0 |

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**PGA Memory Advisory**

* When using Auto Memory Mgmt, minimally choose a pga\_aggregate\_target value where Estd PGA Overalloc Count is 0

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **PGA Target Est (MB)** | **Size Factr** | **W/A MB Processed** | **Estd Extra W/A MB Read/ Written to Disk** | **Estd PGA Cache Hit %** | **Estd PGA Overalloc Count** | **Estd Time** |
| 3,264 | 0.13 | 163,898.37 | 0.00 | 100.00 | 0 | 3,350,473 |
| 6,528 | 0.25 | 163,898.37 | 0.00 | 100.00 | 0 | 3,350,473 |
| 13,056 | 0.50 | 163,898.37 | 0.00 | 100.00 | 0 | 3,350,473 |
| 19,584 | 0.75 | 163,898.37 | 0.00 | 100.00 | 0 | 3,350,473 |
| 26,112 | 1.00 | 163,898.37 | 0.00 | 100.00 | 0 | 3,350,473 |
| 31,334 | 1.20 | 163,898.37 | 0.00 | 100.00 | 0 | 3,350,473 |
| 36,557 | 1.40 | 163,898.37 | 0.00 | 100.00 | 0 | 3,350,473 |
| 41,779 | 1.60 | 163,898.37 | 0.00 | 100.00 | 0 | 3,350,473 |
| 47,002 | 1.80 | 163,898.37 | 0.00 | 100.00 | 0 | 3,350,473 |
| 52,224 | 2.00 | 163,898.37 | 0.00 | 100.00 | 0 | 3,350,473 |
| 78,336 | 3.00 | 163,898.37 | 0.00 | 100.00 | 0 | 3,350,473 |
| 104,448 | 4.00 | 163,898.37 | 0.00 | 100.00 | 0 | 3,350,473 |
| 156,672 | 6.00 | 163,898.37 | 0.00 | 100.00 | 0 | 3,350,473 |
| 208,896 | 8.00 | 163,898.37 | 0.00 | 100.00 | 0 | 3,350,473 |

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**Shared Pool Advisory**

* SP: Shared Pool Est LC: Estimated Library Cache Factr: Factor
* Note there is often a 1:Many correlation between a single logical object in the Library Cache, and the physical number of memory objects associated with it. Therefore comparing the number of Lib Cache objects (e.g. in v$librarycache), with the number of Lib Cache Memory Objects is invalid.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Shared Pool Size(M)** | **SP Size Factr** | **Est LC Size (M)** | **Est LC Mem Obj** | **Est LC Time Saved (s)** | **Est LC Time Saved Factr** | **Est LC Load Time (s)** | **Est LC Load Time Factr** | **Est LC Mem Obj Hits (K)** |
| 3,456 | 0.64 | 193 | 67,368 | 310,444 | 0.78 | 90,843 | 18.82 | 73,766 |
| 4,096 | 0.76 | 830 | 110,786 | 343,373 | 0.87 | 57,914 | 12.00 | 79,883 |
| 4,224 | 0.79 | 958 | 119,804 | 349,450 | 0.88 | 51,837 | 10.74 | 80,935 |
| 4,352 | 0.81 | 1,086 | 128,520 | 355,548 | 0.90 | 45,739 | 9.48 | 81,976 |
| 4,480 | 0.83 | 1,214 | 137,659 | 361,671 | 0.91 | 39,616 | 8.21 | 83,023 |
| 4,608 | 0.86 | 1,342 | 146,709 | 367,885 | 0.93 | 33,402 | 6.92 | 84,081 |
| 4,736 | 0.88 | 1,470 | 156,095 | 374,089 | 0.94 | 27,198 | 5.64 | 85,149 |
| 4,864 | 0.90 | 1,598 | 165,313 | 380,182 | 0.96 | 21,105 | 4.37 | 86,211 |
| 4,992 | 0.93 | 1,726 | 174,270 | 385,825 | 0.97 | 15,462 | 3.20 | 87,211 |
| 5,120 | 0.95 | 1,854 | 183,181 | 391,142 | 0.99 | 10,145 | 2.10 | 88,153 |
| 5,248 | 0.98 | 1,982 | 192,243 | 396,313 | 1.00 | 4,974 | 1.03 | 89,085 |
| 5,376 | 1.00 | 2,110 | 201,140 | 396,461 | 1.00 | 4,826 | 1.00 | 89,138 |
| 5,504 | 1.02 | 2,237 | 210,489 | 396,464 | 1.00 | 4,823 | 1.00 | 89,141 |
| 5,632 | 1.05 | 2,365 | 219,378 | 396,471 | 1.00 | 4,816 | 1.00 | 89,142 |
| 5,760 | 1.07 | 2,493 | 228,293 | 396,478 | 1.00 | 4,809 | 1.00 | 89,145 |
| 5,888 | 1.10 | 2,621 | 237,345 | 396,485 | 1.00 | 4,802 | 1.00 | 89,147 |
| 6,016 | 1.12 | 2,749 | 246,455 | 396,496 | 1.00 | 4,791 | 0.99 | 89,150 |
| 6,144 | 1.14 | 2,876 | 255,485 | 396,500 | 1.00 | 4,787 | 0.99 | 89,153 |
| 6,272 | 1.17 | 3,004 | 264,675 | 396,503 | 1.00 | 4,784 | 0.99 | 89,155 |
| 6,400 | 1.19 | 3,132 | 273,849 | 396,505 | 1.00 | 4,782 | 0.99 | 89,157 |
| 6,528 | 1.21 | 3,260 | 282,921 | 396,513 | 1.00 | 4,774 | 0.99 | 89,158 |
| 6,656 | 1.24 | 3,388 | 291,993 | 396,515 | 1.00 | 4,772 | 0.99 | 89,160 |
| 7,296 | 1.36 | 4,028 | 337,194 | 396,542 | 1.00 | 4,745 | 0.98 | 89,174 |
| 7,936 | 1.48 | 4,668 | 382,164 | 396,550 | 1.00 | 4,737 | 0.98 | 89,180 |
| 8,576 | 1.60 | 5,308 | 426,408 | 396,560 | 1.00 | 4,727 | 0.98 | 89,186 |
| 9,216 | 1.71 | 5,947 | 470,789 | 396,568 | 1.00 | 4,719 | 0.98 | 89,192 |
| 9,856 | 1.83 | 6,587 | 515,530 | 396,576 | 1.00 | 4,711 | 0.98 | 89,198 |
| 10,496 | 1.95 | 7,227 | 560,168 | 396,589 | 1.00 | 4,698 | 0.97 | 89,203 |
| 11,136 | 2.07 | 7,867 | 604,264 | 396,600 | 1.00 | 4,687 | 0.97 | 89,207 |

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**SGA Target Advisory**

|  |  |  |  |
| --- | --- | --- | --- |
| **SGA Target Size (M)** | **SGA Size Factor** | **Est DB Time (s)** | **Est Physical Reads** |
| 6,400 | 0.25 | 122,646 | 2,410,559 |
| 9,600 | 0.38 | 36,029 | 763,618 |
| 12,800 | 0.50 | 35,932 | 763,618 |
| 16,000 | 0.63 | 35,889 | 763,618 |
| 19,200 | 0.75 | 35,875 | 672,114 |
| 22,400 | 0.88 | 35,875 | 665,677 |
| 25,600 | 1.00 | 35,875 | 663,554 |
| 28,800 | 1.13 | 35,875 | 662,758 |
| 32,000 | 1.25 | 35,875 | 661,563 |
| 35,200 | 1.38 | 35,875 | 660,568 |
| 38,400 | 1.50 | 35,875 | 660,502 |
| 41,600 | 1.63 | 35,875 | 660,369 |
| 44,800 | 1.75 | 35,875 | 660,303 |
| 48,000 | 1.88 | 35,868 | 625,665 |
| 51,200 | 2.00 | 35,868 | 625,665 |

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**Streams Pool Advisory**

**No data exists for this section of the report.**

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**Java Pool Advisory**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Java Pool Size(M)** | **JP Size Factr** | **Est LC Size (M)** | **Est LC Mem Obj** | **Est LC Time Saved (s)** | **Est LC Time Saved Factr** | **Est LC Load Time (s)** | **Est LC Load Time Factr** | **Est LC Mem Obj Hits** |
| 128 | 0.14 | 4 | 100 | 2 | 1.00 | 4,826 | 1.00 | 69 |
| 256 | 0.29 | 4 | 100 | 2 | 1.00 | 4,826 | 1.00 | 69 |
| 384 | 0.43 | 4 | 100 | 2 | 1.00 | 4,826 | 1.00 | 69 |
| 512 | 0.57 | 4 | 100 | 2 | 1.00 | 4,826 | 1.00 | 69 |
| 640 | 0.71 | 4 | 100 | 2 | 1.00 | 4,826 | 1.00 | 69 |
| 768 | 0.86 | 4 | 100 | 2 | 1.00 | 4,826 | 1.00 | 69 |
| 896 | 1.00 | 4 | 100 | 2 | 1.00 | 4,826 | 1.00 | 69 |
| 1,024 | 1.14 | 4 | 100 | 2 | 1.00 | 4,826 | 1.00 | 69 |
| 1,152 | 1.29 | 4 | 100 | 2 | 1.00 | 4,826 | 1.00 | 69 |
| 1,280 | 1.43 | 4 | 100 | 2 | 1.00 | 4,826 | 1.00 | 69 |
| 1,408 | 1.57 | 4 | 100 | 2 | 1.00 | 4,826 | 1.00 | 69 |
| 1,536 | 1.71 | 4 | 100 | 2 | 1.00 | 4,826 | 1.00 | 69 |
| 1,664 | 1.86 | 4 | 100 | 2 | 1.00 | 4,826 | 1.00 | 69 |
| 1,792 | 2.00 | 4 | 100 | 2 | 1.00 | 4,826 | 1.00 | 69 |
| 1,920 | 2.14 | 4 | 100 | 2 | 1.00 | 4,826 | 1.00 | 69 |
| 2,048 | 2.29 | 4 | 100 | 2 | 1.00 | 4,826 | 1.00 | 69 |

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**Wait Statistics**

* [**Buffer Wait Statistics**](about:blank#2300)
* [**Enqueue Activity**](about:blank#3000)

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**Buffer Wait Statistics**

* ordered by wait time desc, waits desc

|  |  |  |  |
| --- | --- | --- | --- |
| **Class** | **Waits** | **Total Wait Time (s)** | **Avg Time (ms)** |
| undo header | 19 | 0 | 1 |
| data block | 1 | 0 | 0 |

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**Enqueue Activity**

* only enqueues with waits are shown
* Enqueue stats gathered prior to 10g should not be compared with 10g data
* ordered by Wait Time desc, Waits desc

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Enqueue Type (Request Reason)** | **Requests** | **Succ Gets** | **Failed Gets** | **Waits** | **Wt Time (s)** | **Av Wt Time(ms)** |
| RO-Multiple Object Reuse (fast object reuse) | 3,100 | 3,100 | 0 | 308 | 0 | 1.53 |

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**Undo Statistics**

* [**Undo Segment Summary**](about:blank#3300)
* [**Undo Segment Stats**](about:blank#3400)

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**Undo Segment Summary**

* Min/Max TR (mins) - Min and Max Tuned Retention (minutes)
* STO - Snapshot Too Old count, OOS - Out of Space count
* Undo segment block stats:
* uS - unexpired Stolen, uR - unexpired Released, uU - unexpired reUsed
* eS - expired Stolen, eR - expired Released, eU - expired reUsed

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Undo TS#** | **Num Undo Blocks (K)** | **Number of Transactions** | **Max Qry Len (s)** | **Max Tx Concurcy** | **Min/Max TR (mins)** | **STO/ OOS** | **uS/uR/uU/ eS/eR/eU** |
| 2 | 8.15 | 177,862 | 942 | 4 | 17/28.7 | 0/0 | 0/0/0/0/0/0 |

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**Undo Segment Stats**

* Most recent 35 Undostat rows, ordered by Time desc

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **End Time** | **Num Undo Blocks** | **Number of Transactions** | **Max Qry Len (s)** | **Max Tx Concy** | **Tun Ret (mins)** | **STO/ OOS** | **uS/uR/uU/ eS/eR/eU** |
| 06-6月 15:57 | 227 | 5,908 | 901 | 2 | 27 | 0/0 | 0/0/0/0/0/0 |
| 06-6月 15:47 | 231 | 5,755 | 300 | 2 | 17 | 0/0 | 0/0/0/0/0/0 |
| 06-6月 15:37 | 241 | 5,685 | 905 | 3 | 27 | 0/0 | 0/0/0/0/0/0 |
| 06-6月 15:27 | 225 | 5,556 | 303 | 2 | 17 | 0/0 | 0/0/0/0/0/0 |
| 06-6月 15:17 | 360 | 6,318 | 908 | 2 | 27 | 0/0 | 0/0/0/0/0/0 |
| 06-6月 15:07 | 279 | 4,953 | 308 | 4 | 17 | 0/0 | 0/0/0/0/0/0 |
| 06-6月 14:57 | 266 | 6,792 | 909 | 2 | 28 | 0/0 | 0/0/0/0/0/0 |
| 06-6月 14:47 | 237 | 5,740 | 309 | 2 | 18 | 0/0 | 0/0/0/0/0/0 |
| 06-6月 14:37 | 232 | 5,684 | 913 | 2 | 28 | 0/0 | 0/0/0/0/0/0 |
| 06-6月 14:27 | 217 | 5,355 | 312 | 2 | 18 | 0/0 | 0/0/0/0/0/0 |
| 06-6月 14:17 | 380 | 6,358 | 917 | 3 | 28 | 0/0 | 0/0/0/0/0/0 |
| 06-6月 14:07 | 296 | 5,622 | 315 | 3 | 18 | 0/0 | 0/0/0/0/0/0 |
| 06-6月 13:57 | 274 | 6,879 | 918 | 2 | 28 | 0/0 | 0/0/0/0/0/0 |
| 06-6月 13:47 | 229 | 5,800 | 317 | 2 | 18 | 0/0 | 0/0/0/0/0/0 |
| 06-6月 13:37 | 233 | 5,637 | 921 | 2 | 28 | 0/0 | 0/0/0/0/0/0 |
| 06-6月 13:27 | 225 | 5,712 | 321 | 2 | 18 | 0/0 | 0/0/0/0/0/0 |
| 06-6月 13:17 | 363 | 6,188 | 925 | 2 | 28 | 0/0 | 0/0/0/0/0/0 |
| 06-6月 13:07 | 317 | 5,828 | 324 | 3 | 18 | 0/0 | 0/0/0/0/0/0 |
| 06-6月 12:57 | 275 | 6,844 | 928 | 2 | 28 | 0/0 | 0/0/0/0/0/0 |
| 06-6月 12:47 | 230 | 5,807 | 327 | 2 | 18 | 0/0 | 0/0/0/0/0/0 |
| 06-6月 12:37 | 228 | 5,690 | 930 | 2 | 29 | 0/0 | 0/0/0/0/0/0 |
| 06-6月 12:27 | 230 | 5,667 | 329 | 2 | 19 | 0/0 | 0/0/0/0/0/0 |
| 06-6月 12:17 | 366 | 6,384 | 933 | 3 | 29 | 0/0 | 0/0/0/0/0/0 |
| 06-6月 12:07 | 307 | 5,640 | 333 | 3 | 19 | 0/0 | 0/0/0/0/0/0 |
| 06-6月 11:57 | 264 | 6,856 | 936 | 2 | 29 | 0/0 | 0/0/0/0/0/0 |
| 06-6月 11:47 | 233 | 5,746 | 335 | 2 | 19 | 0/0 | 0/0/0/0/0/0 |
| 06-6月 11:37 | 234 | 5,682 | 940 | 3 | 29 | 0/0 | 0/0/0/0/0/0 |
| 06-6月 11:27 | 239 | 5,704 | 338 | 3 | 19 | 0/0 | 0/0/0/0/0/0 |
| 06-6月 11:17 | 358 | 6,159 | 942 | 2 | 29 | 0/0 | 0/0/0/0/0/0 |
| 06-6月 11:07 | 357 | 5,913 | 341 | 3 | 19 | 0/0 | 0/0/0/0/0/0 |

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**Latch Statistics**

* [**Latch Activity**](about:blank#3500)
* [**Latch Sleep Breakdown**](about:blank#3600)
* [**Latch Miss Sources**](about:blank#3700)
* [**Mutex Sleep Summary**](about:blank#7500)
* [**Parent Latch Statistics**](about:blank#3800)
* [**Child Latch Statistics**](about:blank#3900)

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**Latch Activity**

* "Get Requests", "Pct Get Miss" and "Avg Slps/Miss" are statistics for willing-to-wait latch get requests
* "NoWait Requests", "Pct NoWait Miss" are for no-wait latch get requests
* "Pct Misses" for both should be very close to 0.0

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Latch Name** | **Get Requests** | **Pct Get Miss** | **Avg Slps /Miss** | **Wait Time (s)** | **NoWait Requests** | **Pct NoWait Miss** |
| AQ deq hash table latch | 5 | 0.00 |  | 0 | 0 |  |
| ASM db client latch | 12,665 | 0.00 |  | 0 | 0 |  |
| ASM map operation hash table | 5 | 0.00 |  | 0 | 0 |  |
| ASM network state latch | 285 | 0.00 |  | 0 | 0 |  |
| AWR Alerted Metric Element list | 141,253 | 0.00 |  | 0 | 0 |  |
| Change Notification Hash table latch | 5,980 | 0.00 |  | 0 | 0 |  |
| Consistent RBA | 179,370 | 0.00 |  | 0 | 0 |  |
| DML lock allocation | 546,510 | 0.00 |  | 0 | 0 |  |
| Event Group Locks | 2,031 | 0.00 |  | 0 | 0 |  |
| FIB s.o chain latch | 2 | 0.00 |  | 0 | 0 |  |
| FOB s.o list latch | 2,351 | 0.00 |  | 0 | 0 |  |
| File State Object Pool Parent Latch | 5 | 0.00 |  | 0 | 0 |  |
| I/O Staticstics latch | 5 | 0.00 |  | 0 | 0 |  |
| IPC stats buffer allocation latch | 5 | 0.00 |  | 0 | 0 |  |
| In memory undo latch | 5 | 0.00 |  | 0 | 214,412 | 0.00 |
| JS Sh mem access | 37 | 0.00 |  | 0 | 0 |  |
| JS broadcast autostart latch | 30 | 0.00 |  | 0 | 0 |  |
| JS mem alloc latch | 60 | 0.00 |  | 0 | 0 |  |
| JS queue access latch | 65 | 0.00 |  | 0 | 0 |  |
| JS queue state obj latch | 130,542 | 0.00 |  | 0 | 0 |  |
| JS slv state obj latch | 1,213 | 0.00 |  | 0 | 0 |  |
| KFC FX Hash Latch | 5 | 0.00 |  | 0 | 0 |  |
| KFC Hash Latch | 5 | 0.00 |  | 0 | 0 |  |
| KFCL LE Freelist | 5 | 0.00 |  | 0 | 0 |  |
| KGNFS-NFS:SHM structure | 5 | 0.00 |  | 0 | 0 |  |
| KGNFS-NFS:SVR LIST | 5 | 0.00 |  | 0 | 0 |  |
| KJC message pool free list | 5 | 0.00 |  | 0 | 0 |  |
| KJCT flow control latch | 5 | 0.00 |  | 0 | 0 |  |
| KMG MMAN ready and startup request latch | 5,990 | 0.00 |  | 0 | 0 |  |
| KTF sga latch | 98 | 0.00 |  | 0 | 5,376 | 0.00 |
| Locator state objects pool parent latch | 5 | 0.00 |  | 0 | 0 |  |
| Lsod array latch | 5 | 0.00 |  | 0 | 0 |  |
| MQL Tracking Latch | 0 |  |  | 0 | 358 | 0.00 |
| Memory Management Latch | 5 | 0.00 |  | 0 | 5,990 | 0.00 |
| Memory Queue | 5 | 0.00 |  | 0 | 0 |  |
| Memory Queue Message Subscriber #1 | 5 | 0.00 |  | 0 | 0 |  |
| Memory Queue Message Subscriber #2 | 5 | 0.00 |  | 0 | 0 |  |
| Memory Queue Message Subscriber #3 | 5 | 0.00 |  | 0 | 0 |  |
| Memory Queue Message Subscriber #4 | 5 | 0.00 |  | 0 | 0 |  |
| Memory Queue Subscriber | 5 | 0.00 |  | 0 | 0 |  |
| MinActiveScn Latch | 200 | 0.00 |  | 0 | 0 |  |
| Mutex | 5 | 0.00 |  | 0 | 0 |  |
| Mutex Stats | 5 | 0.00 |  | 0 | 0 |  |
| OS process | 5,003 | 0.00 |  | 0 | 0 |  |
| OS process allocation | 38,577 | 0.00 | 0.00 | 0 | 0 |  |
| OS process: request allocation | 1,979 | 0.00 |  | 0 | 0 |  |
| PL/SQL warning settings | 8,262 | 0.00 |  | 0 | 0 |  |
| PX hash array latch | 5 | 0.00 |  | 0 | 0 |  |
| QMT | 5 | 0.00 |  | 0 | 0 |  |
| Real-time plan statistics latch | 20,967 | 0.00 |  | 0 | 0 |  |
| SGA blob parent | 5 | 0.00 |  | 0 | 0 |  |
| SGA bucket locks | 5 | 0.00 |  | 0 | 0 |  |
| SGA heap locks | 5 | 0.00 |  | 0 | 0 |  |
| SGA pool locks | 5 | 0.00 |  | 0 | 0 |  |
| SQL memory manager latch | 603 | 0.00 |  | 0 | 5,989 | 0.00 |
| SQL memory manager workarea list latch | 412,287 | 0.00 |  | 0 | 0 |  |
| Shared B-Tree | 647 | 0.00 |  | 0 | 0 |  |
| Streams Generic | 5 | 0.00 |  | 0 | 0 |  |
| Testing | 5 | 0.00 |  | 0 | 0 |  |
| Token Manager | 5 | 0.00 |  | 0 | 0 |  |
| WCR: sync | 5 | 0.00 |  | 0 | 0 |  |
| Write State Object Pool Parent Latch | 5 | 0.00 |  | 0 | 0 |  |
| X$KSFQP | 5 | 0.00 |  | 0 | 0 |  |
| XDB NFS Security Latch | 5 | 0.00 |  | 0 | 0 |  |
| XDB unused session pool | 5 | 0.00 |  | 0 | 0 |  |
| XDB used session pool | 5 | 0.00 |  | 0 | 0 |  |
| active checkpoint queue latch | 105,103 | 3.96 | 0.00 | 0 | 0 |  |
| active service list | 43,077 | 0.01 | 0.00 | 0 | 13,099 | 0.01 |
| begin backup scn array | 55 | 0.00 |  | 0 | 0 |  |
| buffer pool | 5 | 0.00 |  | 0 | 0 |  |
| business card | 5 | 0.00 |  | 0 | 0 |  |
| cache buffer handles | 968 | 0.00 |  | 0 | 0 |  |
| cache buffers chains | 20,742,234 | 0.00 | 0.57 | 0 | 11,280 | 0.00 |
| cache buffers lru chain | 97,463 | 0.00 |  | 0 | 76,535 | 0.00 |
| cache table scan latch | 2 | 0.00 |  | 0 | 2 | 0.00 |
| call allocation | 5,370 | 0.32 | 0.82 | 0 | 0 |  |
| cas latch | 5 | 0.00 |  | 0 | 0 |  |
| change notification client cache latch | 5 | 0.00 |  | 0 | 0 |  |
| channel handle pool latch | 2,184 | 0.05 | 0.00 | 0 | 0 |  |
| channel operations parent latch | 92,586 | 0.00 | 0.00 | 0 | 0 |  |
| checkpoint queue latch | 9,405,467 | 0.00 | 0.00 | 0 | 29,022 | 0.00 |
| client/application info | 834,517 | 0.00 |  | 0 | 0 |  |
| compile environment latch | 1,039 | 0.00 |  | 0 | 0 |  |
| corrupted undo seg latch | 84 | 0.00 |  | 0 | 0 |  |
| cp cmon/server latch | 5 | 0.00 |  | 0 | 0 |  |
| cp pool latch | 5 | 0.00 |  | 0 | 0 |  |
| cp server hash latch | 5 | 0.00 |  | 0 | 0 |  |
| cp sga latch | 285 | 0.00 |  | 0 | 0 |  |
| cvmap freelist lock | 5 | 0.00 |  | 0 | 0 |  |
| database property service latch | 6 | 0.00 |  | 0 | 0 |  |
| deferred cleanup latch | 285 | 0.00 |  | 0 | 0 |  |
| dml lock allocation | 285 | 0.00 |  | 0 | 0 |  |
| done queue latch | 5 | 0.00 |  | 0 | 0 |  |
| dummy allocation | 2,088 | 0.10 | 0.00 | 0 | 0 |  |
| enqueue freelist latch | 5 | 0.00 |  | 0 | 365,414 | 0.00 |
| enqueue hash chains | 1,279,445 | 0.00 | 0.00 | 0 | 0 |  |
| fifth spare latch | 5 | 0.00 |  | 0 | 0 |  |
| file cache latch | 1,868 | 0.00 |  | 0 | 0 |  |
| flashback copy | 5 | 0.00 |  | 0 | 0 |  |
| fourth Audit Vault latch | 5 | 0.00 |  | 0 | 0 |  |
| gc element | 5 | 0.00 |  | 0 | 0 |  |
| gcs commit scn state | 5 | 0.00 |  | 0 | 0 |  |
| gcs partitioned table hash | 5 | 0.00 |  | 0 | 0 |  |
| gcs pcm hashed value bucket hash | 5 | 0.00 |  | 0 | 0 |  |
| gcs resource freelist | 5 | 0.00 |  | 0 | 0 |  |
| gcs resource hash | 5 | 0.00 |  | 0 | 0 |  |
| gcs resource scan list | 5 | 0.00 |  | 0 | 0 |  |
| gcs shadows freelist | 5 | 0.00 |  | 0 | 0 |  |
| ges domain table | 5 | 0.00 |  | 0 | 0 |  |
| ges enqueue table freelist | 5 | 0.00 |  | 0 | 0 |  |
| ges group table | 5 | 0.00 |  | 0 | 0 |  |
| ges process hash list | 5 | 0.00 |  | 0 | 0 |  |
| ges process parent latch | 5 | 0.00 |  | 0 | 0 |  |
| ges resource hash list | 5 | 0.00 |  | 0 | 0 |  |
| ges resource scan list | 5 | 0.00 |  | 0 | 0 |  |
| ges resource table freelist | 5 | 0.00 |  | 0 | 0 |  |
| ges value block free list | 5 | 0.00 |  | 0 | 0 |  |
| global KZLD latch for mem in SGA | 782 | 0.00 |  | 0 | 0 |  |
| global tx hash mapping | 501 | 0.00 |  | 0 | 0 |  |
| granule operation | 5 | 0.00 |  | 0 | 0 |  |
| hash table column usage latch | 1,266 | 0.00 |  | 0 | 487,236 | 0.00 |
| hash table modification latch | 453 | 0.00 |  | 0 | 0 |  |
| heartbeat check | 5 | 0.00 |  | 0 | 0 |  |
| interrupt manipulation | 1 | 0.00 |  | 0 | 0 |  |
| intra txn parallel recovery | 5 | 0.00 |  | 0 | 0 |  |
| io pool granule metadata list | 5 | 0.00 |  | 0 | 0 |  |
| job workq parent latch | 56 | 0.00 |  | 0 | 51 | 0.00 |
| job\_queue\_processes free list latch | 122 | 0.00 |  | 0 | 0 |  |
| job\_queue\_processes parameter latch | 3,963 | 0.00 |  | 0 | 0 |  |
| k2q lock allocation | 5 | 0.00 |  | 0 | 0 |  |
| kcbtsemkid latch | 19 | 0.00 |  | 0 | 0 |  |
| kdlx hb parent latch | 5 | 0.00 |  | 0 | 0 |  |
| kgb parent | 5 | 0.00 |  | 0 | 0 |  |
| kgnfs mount latch | 5 | 0.00 |  | 0 | 0 |  |
| kmcptab latch | 3 | 0.00 |  | 0 | 0 |  |
| kmcpvec latch | 0 |  |  | 0 | 1 | 0.00 |
| kokc descriptor allocation latch | 45,798 | 0.00 |  | 0 | 0 |  |
| ksfv messages | 5 | 0.00 |  | 0 | 0 |  |
| ksim group membership cache | 5 | 0.00 |  | 0 | 0 |  |
| kss move lock | 235 | 0.00 |  | 0 | 0 |  |
| ksuosstats global area | 1,812 | 0.00 |  | 0 | 0 |  |
| ksv allocation latch | 745 | 0.00 |  | 0 | 0 |  |
| ksv class latch | 465 | 0.00 |  | 0 | 0 |  |
| ksv msg queue latch | 5 | 0.00 |  | 0 | 0 |  |
| ksz\_so allocation latch | 1,979 | 0.05 | 0.00 | 0 | 0 |  |
| ktm global data | 501 | 0.00 |  | 0 | 0 |  |
| kwqbsn:qsga | 642 | 0.00 |  | 0 | 0 |  |
| lgwr LWN SCN | 182,101 | 0.00 | 0.00 | 0 | 0 |  |
| list of block allocation | 2,799 | 0.00 |  | 0 | 0 |  |
| loader state object freelist | 1,070 | 0.00 |  | 0 | 0 |  |
| lob segment dispenser latch | 5 | 0.00 |  | 0 | 0 |  |
| lob segment hash table latch | 65 | 0.00 |  | 0 | 0 |  |
| lob segment query latch | 5 | 0.00 |  | 0 | 0 |  |
| lock DBA buffer during media recovery | 5 | 0.00 |  | 0 | 0 |  |
| logical standby cache | 5 | 0.00 |  | 0 | 0 |  |
| logminer context allocation | 5 | 0.00 |  | 0 | 0 |  |
| logminer work area | 5 | 0.00 |  | 0 | 0 |  |
| longop free list parent | 5 | 0.00 |  | 0 | 0 |  |
| mapped buffers lru chain | 5 | 0.00 |  | 0 | 0 |  |
| message pool operations parent latch | 1,149 | 0.00 |  | 0 | 0 |  |
| messages | 923,140 | 1.51 | 0.00 | 0 | 0 |  |
| mostly latch-free SCN | 182,292 | 0.06 | 0.00 | 0 | 0 |  |
| msg queue latch | 5 | 0.00 |  | 0 | 0 |  |
| multiblock read objects | 4 | 0.00 |  | 0 | 0 |  |
| name-service namespace bucket | 5 | 0.00 |  | 0 | 0 |  |
| ncodef allocation latch | 285 | 0.00 |  | 0 | 0 |  |
| object queue header heap | 831,877 | 0.00 | 0.00 | 0 | 2,187 | 0.27 |
| object queue header operation | 1,284,201 | 0.01 | 0.00 | 0 | 0 |  |
| object stats modification | 1,222 | 0.08 | 0.00 | 0 | 0 |  |
| parallel query alloc buffer | 8,757 | 0.00 |  | 0 | 0 |  |
| parallel query stats | 5 | 0.00 |  | 0 | 0 |  |
| parameter list | 8,846 | 0.00 |  | 0 | 0 |  |
| parameter table management | 14,212 | 0.00 |  | 0 | 0 |  |
| peshm | 5 | 0.00 |  | 0 | 0 |  |
| pesom\_free\_list | 5 | 0.00 |  | 0 | 0 |  |
| pesom\_hash\_node | 5 | 0.00 |  | 0 | 0 |  |
| post/wait queue | 275,230 | 0.12 | 0.00 | 0 | 187,019 | 0.13 |
| process allocation | 2,186 | 0.05 | 0.00 | 0 | 987 | 0.00 |
| process group creation | 1,979 | 0.05 | 0.00 | 0 | 0 |  |
| process queue | 5 | 0.00 |  | 0 | 0 |  |
| process queue reference | 5 | 0.00 |  | 0 | 0 |  |
| qmn task queue latch | 2,610 | 0.00 |  | 0 | 0 |  |
| query server freelists | 5 | 0.00 |  | 0 | 0 |  |
| queued dump request | 60 | 0.00 |  | 0 | 0 |  |
| queuing load statistics | 5 | 0.00 |  | 0 | 0 |  |
| recovery domain hash list | 5 | 0.00 |  | 0 | 0 |  |
| redo allocation | 910,360 | 0.01 | 0.00 | 0 | 603,907 | 0.03 |
| redo copy | 5 | 0.00 |  | 0 | 603,998 | 0.02 |
| redo writing | 654,543 | 0.48 | 0.00 | 0 | 0 |  |
| resmgr group change latch | 98,434 | 0.00 |  | 0 | 0 |  |
| resmgr:active threads | 4,451 | 0.00 |  | 0 | 5,374 | 0.00 |
| resmgr:actses change group | 1,079 | 0.00 |  | 0 | 0 |  |
| resmgr:actses change state | 232 | 0.00 |  | 0 | 0 |  |
| resmgr:free threads list | 2,169 | 0.18 | 0.00 | 0 | 0 |  |
| resmgr:method mem alloc latch | 4 | 0.00 |  | 0 | 0 |  |
| resmgr:plan CPU method | 5 | 0.00 |  | 0 | 0 |  |
| resmgr:schema config | 100,076 | 0.01 | 0.17 | 0 | 179 | 0.00 |
| resmgr:session queuing | 5 | 0.00 |  | 0 | 0 |  |
| rm cas latch | 5 | 0.00 |  | 0 | 0 |  |
| row cache objects | 2,194,495 | 0.00 | 0.00 | 0 | 320 | 0.00 |
| second Audit Vault latch | 5 | 0.00 |  | 0 | 0 |  |
| second spare latch | 5 | 0.00 |  | 0 | 0 |  |
| sequence cache | 72,157 | 0.00 |  | 0 | 0 |  |
| session allocation | 5,779 | 0.00 |  | 0 | 3,787 | 0.00 |
| session idle bit | 1,552,428 | 0.00 |  | 0 | 0 |  |
| session queue latch | 5 | 0.00 |  | 0 | 0 |  |
| session state list latch | 825 | 0.00 |  | 0 | 0 |  |
| session switching | 1,282 | 0.00 |  | 0 | 0 |  |
| session timer | 5,985 | 0.00 |  | 0 | 0 |  |
| shared pool | 1,595,075 | 0.01 | 0.02 | 0 | 0 |  |
| shared pool sim alloc | 5 | 0.00 |  | 0 | 0 |  |
| shared pool simulator | 98,076 | 0.00 |  | 0 | 0 |  |
| sim partition latch | 5 | 0.00 |  | 0 | 0 |  |
| simulator hash latch | 573,311 | 0.00 |  | 0 | 0 |  |
| simulator lru latch | 14,047 | 0.00 |  | 0 | 558,834 | 0.00 |
| sort extent pool | 522 | 0.00 |  | 0 | 0 |  |
| space background state object latch | 76 | 0.00 |  | 0 | 0 |  |
| space background task latch | 34,589 | 1.33 | 0.08 | 0 | 12,048 | 0.16 |
| state object free list | 10 | 0.00 |  | 0 | 0 |  |
| statistics aggregation | 2,800 | 0.00 |  | 0 | 0 |  |
| tablespace key chain | 5 | 0.00 |  | 0 | 0 |  |
| temp lob duration state obj allocation | 12 | 0.00 |  | 0 | 0 |  |
| test excl. parent l0 | 5 | 0.00 |  | 0 | 0 |  |
| test excl. parent2 l0 | 5 | 0.00 |  | 0 | 0 |  |
| third spare latch | 5 | 0.00 |  | 0 | 0 |  |
| threshold alerts latch | 1,253 | 0.00 |  | 0 | 0 |  |
| transaction allocation | 4,238 | 0.00 |  | 0 | 0 |  |
| transaction branch allocation | 6,235 | 0.00 |  | 0 | 0 |  |
| undo global data | 554,893 | 0.00 | 0.00 | 0 | 0 |  |
| virtual circuit buffers | 5 | 0.00 |  | 0 | 0 |  |
| virtual circuit holder | 5 | 0.00 |  | 0 | 0 |  |
| virtual circuit queues | 5 | 0.00 |  | 0 | 0 |  |

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**Latch Sleep Breakdown**

* ordered by misses desc

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Latch Name** | **Get Requests** | **Misses** | **Sleeps** | **Spin Gets** |
| messages | 923,140 | 13,983 | 17 | 13,966 |
| active checkpoint queue latch | 105,103 | 4,163 | 1 | 4,162 |
| redo writing | 654,543 | 3,116 | 3 | 3,113 |
| cache buffers chains | 20,742,234 | 591 | 336 | 255 |
| space background task latch | 34,589 | 459 | 35 | 424 |
| shared pool | 1,595,075 | 88 | 2 | 86 |
| call allocation | 5,370 | 17 | 14 | 3 |
| resmgr:schema config | 100,076 | 6 | 1 | 5 |

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**Latch Miss Sources**

* only latches with sleeps are shown
* ordered by name, sleeps desc

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Latch Name** | **Where** | **NoWait Misses** | **Sleeps** | **Waiter Sleeps** |
| PC and Classifier lists for WLM | No latch | 0 | 5 | 0 |
| active checkpoint queue latch | kcbbacq: scan active checkpoints | 0 | 1 | 1 |
| cache buffers chains | kcbbxsv | 0 | 262 | 59 |
| cache buffers chains | kcbbic1 | 0 | 74 | 10 |
| cache buffers chains | kcbgtcr: fast path (cr pin) | 0 | 1 | 0 |
| call allocation | ksuxds | 0 | 12 | 9 |
| call allocation | ksudlp: top call | 0 | 2 | 4 |
| messages | ksarcv | 0 | 13 | 8 |
| messages | ksaamb: after wakeup | 0 | 3 | 6 |
| messages | ksarcv: after wait | 0 | 1 | 3 |
| redo writing | kcrfwcr | 0 | 2 | 3 |
| redo writing | kcrfw\_post: rba scn pair | 0 | 1 | 0 |
| resmgr:schema config | kgskgasi1 | 0 | 1 | 0 |
| shared pool | kghalo | 0 | 2 | 1 |
| space background task latch | ktsj\_grab\_task | 0 | 30 | 35 |

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**Mutex Sleep Summary**

* ordered by number of sleeps desc

|  |  |  |  |
| --- | --- | --- | --- |
| **Mutex Type** | **Location** | **Sleeps** | **Wait Time (ms)** |
| Library Cache | kglget1 1 | 3 | 0 |
| Library Cache | kglget2 2 | 1 | 0 |
| Library Cache | kgllkc1 57 | 1 | 0 |
| Library Cache | kgllkdl1 85 | 1 | 0 |
| Cursor Pin | kksfbc [KKSCHLFSP2] | 1 | 0 |

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**Parent Latch Statistics**

**No data exists for this section of the report.**

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**Child Latch Statistics**

**No data exists for this section of the report.**

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**Segment Statistics**

* [**Segments by Logical Reads**](about:blank#4000)
* [**Segments by Physical Reads**](about:blank#4100)
* [**Segments by Physical Read Requests**](about:blank#4104)
* [**Segments by UnOptimized Reads**](about:blank#4108)
* [**Segments by Optimized Reads**](about:blank#4106)
* [**Segments by Direct Physical Reads**](about:blank#4110)
* [**Segments by Physical Writes**](about:blank#4120)
* [**Segments by Physical Write Requests**](about:blank#4124)
* [**Segments by Direct Physical Writes**](about:blank#4130)
* [**Segments by Table Scans**](about:blank#4140)
* [**Segments by DB Blocks Changes**](about:blank#4150)
* [**Segments by Row Lock Waits**](about:blank#4200)
* [**Segments by ITL Waits**](about:blank#4300)
* [**Segments by Buffer Busy Waits**](about:blank#4400)

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**Segments by Logical Reads**

* Total Logical Reads: 9,458,585
* Captured Segments account for 93.6% of Total

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Owner** | **Tablespace Name** | **Object Name** | **Subobject Name** | **Obj. Type** | **Logical Reads** | **%Total** |
| EPM | EPM\_PLU\_WATER\_DATA2014 | PLU\_WATER\_DATA | PLU\_WATER\_DATA\_PART2014 | TABLE PARTITION | 3,172,928 | 33.55 |
| EPM | EPM\_AIR\_DATA2014 | AIR\_AQI\_LIVE\_DATA | AIR\_DATA\_PART2014 | TABLE PARTITION | 2,016,320 | 21.32 |
| EPM | EPM\_AIR\_DATA2014 | AIR\_IAQI\_LIVE\_DATA | AIR\_DATA\_PART2014 | TABLE PARTITION | 1,122,160 | 11.86 |
| EPM | EPM\_PLU\_WATER\_DATA2014 | PLU\_EXCESSIVE\_DATA | PLU\_WATER\_DATA\_PART2014 | TABLE PARTITION | 492,976 | 5.21 |
| EGSS | EGSS | NR\_RSS |  | TABLE | 354,432 | 3.75 |

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**Segments by Physical Reads**

* Total Physical Reads: 1,777
* Captured Segments account for 16.5% of Total

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Owner** | **Tablespace Name** | **Object Name** | **Subobject Name** | **Obj. Type** | **Physical Reads** | **%Total** |
| EGSS | EGSS | E\_DATA\_VALUE |  | TABLE | 5 | 0.28 |
| EGSS | EGSS | E\_DATA\_VALUE |  | TABLE | 5 | 0.28 |
| EGSS | EGSS | E\_DATA\_VALUE |  | TABLE | 5 | 0.28 |
| EGSS | EGSS | E\_DATA\_VALUE |  | TABLE | 5 | 0.28 |
| EGSS | EGSS | E\_DATA\_VALUE |  | TABLE | 5 | 0.28 |

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**Segments by Physical Read Requests**

* Total Physical Read Requests: 1,663
* Captured Segments account for 17.6% of Total

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Owner** | **Tablespace Name** | **Object Name** | **Subobject Name** | **Obj. Type** | **Phys Read Requests** | **%Total** |
| EGSS | EGSS | E\_DATA\_VALUE |  | TABLE | 5 | 0.30 |
| EGSS | EGSS | E\_DATA\_VALUE |  | TABLE | 5 | 0.30 |
| EGSS | EGSS | E\_DATA\_VALUE |  | TABLE | 5 | 0.30 |
| EGSS | EGSS | E\_DATA\_VALUE |  | TABLE | 5 | 0.30 |
| EGSS | EGSS | E\_DATA\_VALUE |  | TABLE | 5 | 0.30 |

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**Segments by UnOptimized Reads**

* Total UnOptimized Read Requests: 1,663
* Captured Segments account for 17.6% of Total

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Owner** | **Tablespace Name** | **Object Name** | **Subobject Name** | **Obj. Type** | **UnOptimized Reads** | **%Total** |
| EGSS | EGSS | E\_DATA\_VALUE |  | TABLE | 5 | 0.30 |
| EGSS | EGSS | E\_DATA\_VALUE |  | TABLE | 5 | 0.30 |
| EGSS | EGSS | E\_DATA\_VALUE |  | TABLE | 5 | 0.30 |
| EGSS | EGSS | E\_DATA\_VALUE |  | TABLE | 5 | 0.30 |
| EGSS | EGSS | E\_DATA\_VALUE |  | TABLE | 5 | 0.30 |

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**Segments by Optimized Reads**

**No data exists for this section of the report.**

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**Segments by Direct Physical Reads**

**No data exists for this section of the report.**

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**Segments by Physical Writes**

* Total Physical Writes: 28,908
* Captured Segments account for 46.0% of Total

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Owner** | **Tablespace Name** | **Object Name** | **Subobject Name** | **Obj. Type** | **Physical Writes** | **%Total** |
| EPM | EPM | IDX\_PLU\_WATER\_IDTIME |  | INDEX | 2,277 | 7.88 |
| EPM | EPM | IDX\_PLU\_GAS\_IDTIME |  | INDEX | 2,163 | 7.48 |
| EPM | EPM | IDX\_NR\_DATA\_ATMOSPHERE |  | INDEX | 1,998 | 6.91 |
| EPM | EPM | IDX\_NR\_DATA\_RSS |  | INDEX | 1,989 | 6.88 |
| EPM | EPM | IDX\_NR\_DATA\_DRY |  | INDEX | 791 | 2.74 |

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**Segments by Physical Write Requests**

* Total Physical Write Requestss: 16,370
* Captured Segments account for 65.0% of Total

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Owner** | **Tablespace Name** | **Object Name** | **Subobject Name** | **Obj. Type** | **Phys Write Requests** | **%Total** |
| EPM | EPM | IDX\_PLU\_GAS\_IDTIME |  | INDEX | 2,021 | 12.35 |
| EPM | EPM | IDX\_PLU\_WATER\_IDTIME |  | INDEX | 1,917 | 11.71 |
| EPM | EPM | IDX\_NR\_DATA\_RSS |  | INDEX | 1,661 | 10.15 |
| EPM | EPM | IDX\_NR\_DATA\_ATMOSPHERE |  | INDEX | 1,611 | 9.84 |
| EPM | EPM | IDX\_NR\_DATA\_DRY |  | INDEX | 592 | 3.62 |

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**Segments by Direct Physical Writes**

* Total Direct Physical Writes: 55
* Captured Segments account for 76.4% of Total

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Owner** | **Tablespace Name** | **Object Name** | **Subobject Name** | **Obj. Type** | **Direct Writes** | **%Total** |
| SYS | SYSAUX | SYS\_LOB0000006339C00038$$ |  | LOB | 42 | 76.36 |

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**Segments by Table Scans**

* Total Table Scans: 101
* Captured Segments account for 21.8% of Total

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Owner** | **Tablespace Name** | **Object Name** | **Subobject Name** | **Obj. Type** | **Table Scans** | **%Total** |
| SYS | SYSTEM | I\_OBJ2 |  | INDEX | 22 | 21.78 |

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**Segments by DB Blocks Changes**

* % of Capture shows % of DB Block Changes for each top segment compared
* with total DB Block Changes for all segments captured by the Snapshot

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Owner** | **Tablespace Name** | **Object Name** | **Subobject Name** | **Obj. Type** | **DB Block Changes** | **% of Capture** |
| EGSS | EGSS | NR\_ATQ |  | TABLE | 96,512 | 26.15 |
| EGSS | EGSS | NR\_RSS |  | TABLE | 96,304 | 26.10 |
| EGSS | EGSS | NR\_DRY |  | TABLE | 36,880 | 9.99 |
| EPM | EPM | IDX\_PLU\_RUNTIME\_EQPID |  | INDEX | 21,136 | 5.73 |
| EPM | EPM | PLU\_RUNTIME\_DATA |  | TABLE | 17,696 | 4.80 |

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**Segments by Row Lock Waits**

**No data exists for this section of the report.**

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**Segments by ITL Waits**

**No data exists for this section of the report.**

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**Segments by Buffer Busy Waits**

* % of Capture shows % of Buffer Busy Waits for each top segment compared
* with total Buffer Busy Waits for all segments captured by the Snapshot

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Owner** | **Tablespace Name** | **Object Name** | **Subobject Name** | **Obj. Type** | **Buffer Busy Waits** | **% of Capture** |
| SYS | SYSTEM | AUD$ |  | TABLE | 1 | 100.00 |

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**Dictionary Cache Stats**

* "Pct Misses" should be very low (< 2% in most cases)
* "Final Usage" is the number of cache entries being used

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Cache** | **Get Requests** | **Pct Miss** | **Scan Reqs** | **Pct Miss** | **Mod Reqs** | **Final Usage** |
| dc\_awr\_control | 324 | 0.00 | 0 |  | 10 | 1 |
| dc\_global\_oids | 23,100 | 0.35 | 0 |  | 0 | 124 |
| dc\_histogram\_data | 64,262 | 0.26 | 0 |  | 0 | 5,497 |
| dc\_histogram\_defs | 151,037 | 0.98 | 0 |  | 0 | 4,833 |
| dc\_object\_grants | 57 | 73.68 | 0 |  | 0 | 250 |
| dc\_objects | 159,176 | 0.30 | 0 |  | 211 | 2,407 |
| dc\_profiles | 840 | 0.00 | 0 |  | 0 | 1 |
| dc\_rollback\_segments | 4,265 | 0.00 | 0 |  | 0 | 22 |
| dc\_segments | 102,907 | 0.03 | 0 |  | 343 | 1,015 |
| dc\_sequences | 1,124 | 0.00 | 0 |  | 1,124 | 21 |
| dc\_tablespaces | 69,446 | 0.00 | 0 |  | 0 | 18 |
| dc\_users | 196,236 | 0.00 | 0 |  | 0 | 167 |
| global database name | 12,912 | 0.00 | 0 |  | 0 | 1 |
| outstanding\_alerts | 420 | 0.00 | 0 |  | 0 | 14 |
| sch\_lj\_oids | 25 | 0.00 | 0 |  | 0 | 12 |

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**Library Cache Activity**

* "Pct Misses" should be very low

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Namespace** | **Get Requests** | **Pct Miss** | **Pin Requests** | **Pct Miss** | **Reloads** | **Invali- dations** |
| ACCOUNT\_STATUS | 1,558 | 0.00 | 0 |  | 0 | 0 |
| BODY | 4,594 | 0.02 | 47,035 | 0.00 | 0 | 0 |
| CLUSTER | 177 | 0.00 | 177 | 0.00 | 0 | 0 |
| DBLINK | 3,046 | 0.00 | 0 |  | 0 | 0 |
| EDITION | 907 | 0.00 | 1,737 | 0.00 | 0 | 0 |
| INDEX | 22 | 4.55 | 22 | 77.27 | 16 | 0 |
| SCHEMA | 1,275 | 0.08 | 0 |  | 0 | 0 |
| SQL AREA | 164,069 | 10.19 | 627,641 | 14.19 | 13,801 | 12,579 |
| SQL AREA BUILD | 30,396 | 61.57 | 0 |  | 0 | 0 |
| SQL AREA STATS | 30,536 | 62.08 | 30,536 | 62.08 | 0 | 0 |
| TABLE/PROCEDURE | 61,466 | 0.35 | 291,060 | 0.38 | 272 | 0 |
| TRIGGER | 930 | 0.00 | 930 | 0.00 | 0 | 0 |

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**Memory Statistics**

* [**Memory Dynamic Components**](about:blank#8500)
* [**Memory Resize Operations Summary**](about:blank#8600)
* [**Memory Resize Ops**](about:blank#8650)
* [**Process Memory Summary**](about:blank#7300)
* [**SGA Memory Summary**](about:blank#5900)
* [**SGA breakdown difference**](about:blank#6100)

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**Memory Dynamic Components**

* Min/Max sizes since instance startup
* Oper Types/Modes: INItializing,GROw,SHRink,STAtic/IMMediate,DEFerred
* ordered by Component

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Component** | **Begin Snap Size (Mb)** | **Current Size (Mb)** | **Min Size (Mb)** | **Max Size (Mb)** | **Oper Count** | **Last Op Typ/Mod** |
| ASM Buffer Cache | 0.00 | 0.00 | 0.00 | 0.00 | 0 | STA/ |
| DEFAULT 16K buffer cache | 0.00 | 0.00 | 0.00 | 0.00 | 0 | STA/ |
| DEFAULT 2K buffer cache | 0.00 | 0.00 | 0.00 | 0.00 | 0 | STA/ |
| DEFAULT 32K buffer cache | 0.00 | 0.00 | 0.00 | 0.00 | 0 | STA/ |
| DEFAULT 4K buffer cache | 0.00 | 0.00 | 0.00 | 0.00 | 0 | STA/ |
| DEFAULT 8K buffer cache | 0.00 | 0.00 | 0.00 | 0.00 | 0 | STA/ |
| DEFAULT buffer cache | 18,816.00 | 18,816.00 | 18,816.00 | 19,456.00 | 0 | SHR/DEF |
| KEEP buffer cache | 0.00 | 0.00 | 0.00 | 0.00 | 0 | STA/ |
| PGA Target | 26,112.00 | 26,112.00 | 26,112.00 | 26,112.00 | 0 | STA/ |
| RECYCLE buffer cache | 0.00 | 0.00 | 0.00 | 0.00 | 0 | STA/ |
| SGA Target | 25,600.00 | 25,600.00 | 25,600.00 | 25,600.00 | 0 | STA/ |
| Shared IO Pool | 0.00 | 0.00 | 0.00 | 0.00 | 0 | STA/ |
| java pool | 896.00 | 896.00 | 896.00 | 896.00 | 0 | STA/ |
| large pool | 128.00 | 128.00 | 128.00 | 128.00 | 0 | STA/ |
| shared pool | 5,376.00 | 5,376.00 | 4,736.00 | 5,376.00 | 0 | GRO/DEF |
| streams pool | 0.00 | 0.00 | 0.00 | 0.00 | 0 | STA/ |

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**Memory Resize Operations Summary**

**No data exists for this section of the report.**

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**Memory Resize Ops**

**No data exists for this section of the report.**

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**Process Memory Summary**

* B: Begin Snap E: End Snap
* All rows below contain absolute values (i.e. not diffed over the interval)
* Max Alloc is Maximum PGA Allocation size at snapshot time
* Hist Max Alloc is the Historical Max Allocation for still-connected processes
* ordered by Begin/End snapshot, Alloc (MB) desc

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Category** | **Alloc (MB)** | **Used (MB)** | **Avg Alloc (MB)** | **Std Dev Alloc (MB)** | **Max Alloc (MB)** | **Hist Max Alloc (MB)** | **Num Proc** | **Num Alloc** |
| B | Other | 155.87 |  | 1.83 | 2.30 | 16 | 16 | 85 | 85 |
| B | Freeable | 27.00 | 0.00 | 1.17 | 1.94 | 9 |  | 23 | 23 |
| B | PL/SQL | 4.07 | 3.73 | 0.05 | 0.28 | 3 | 3 | 83 | 83 |
| B | SQL | 2.06 | 0.64 | 0.03 | 0.03 | 0 | 6 | 62 | 57 |
| E | Other | 157.60 |  | 1.97 | 2.52 | 16 | 74 | 80 | 80 |
| E | Freeable | 25.13 | 0.00 | 1.32 | 2.10 | 9 |  | 19 | 19 |
| E | PL/SQL | 4.17 | 3.82 | 0.05 | 0.30 | 3 | 3 | 78 | 78 |
| E | SQL | 1.78 | 0.56 | 0.03 | 0.04 | 0 | 17 | 58 | 53 |

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**SGA Memory Summary**

|  |  |  |
| --- | --- | --- |
| **SGA regions** | **Begin Size (Bytes)** | **End Size (Bytes) (if different)** |
| Database Buffers | 19,730,006,016 |  |
| Fixed Size | 2,241,144 |  |
| Redo Buffers | 158,326,784 |  |
| Variable Size | 34,091,306,376 |  |

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**SGA breakdown difference**

* ordered by Pool, Name
* N/A value for Begin MB or End MB indicates the size of that Pool/Name was insignificant, or zero in that snapshot

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Pool** | **Name** | **Begin MB** | **End MB** | **% Diff** |
| java | free memory | 887.14 | 887.14 | 0.00 |
| large | PX msg pool | 7.81 | 7.81 | 0.00 |
| large | free memory | 120.19 | 120.19 | 0.00 |
| shared | ASH buffers | 128.00 | 128.00 | 0.00 |
| shared | KGLDA | 78.95 | 79.67 | 0.90 |
| shared | KGLH0 | 1,516.59 | 1,531.48 | 0.98 |
| shared | KGLHD | 234.33 | 234.05 | -0.12 |
| shared | SQLA | 1,527.83 | 1,538.34 | 0.69 |
| shared | db\_block\_hash\_buckets | 178.00 | 178.00 | 0.00 |
| shared | free memory | 1,176.18 | 1,148.98 | -2.31 |
| shared | kglsim heap | 103.59 | 103.59 | 0.00 |
| shared | kglsim object batch | 176.99 | 176.99 | 0.00 |
|  | buffer\_cache | 18,816.00 | 18,816.00 | 0.00 |
|  | fixed\_sga | 2.14 | 2.14 | 0.00 |
|  | log\_buffer | 150.99 | 150.99 | 0.00 |

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**Streams Statistics**

* [**Streams CPU/IO Usage**](about:blank#6150)
* [**Streams Capture**](about:blank#6200)
* [**Streams Capture Rate**](about:blank#6210)
* [**Streams Apply**](about:blank#6300)
* [**Streams Apply Rate**](about:blank#6310)
* [**Buffered Queues**](about:blank#6400)
* [**Buffered Queue Subscribers**](about:blank#6500)
* [**Rule Set**](about:blank#6600)
* [**Persistent Queues**](about:blank#7600)
* [**Persistent Queues Rate**](about:blank#7610)
* [**Persistent Queue Subscribers**](about:blank#7700)

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**Streams CPU/IO Usage**

**No data exists for this section of the report.**

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**Streams Capture**

**No data exists for this section of the report.**

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**Streams Capture Rate**

**No data exists for this section of the report.**

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**Streams Apply**

**No data exists for this section of the report.**

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**Streams Apply Rate**

**No data exists for this section of the report.**

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**Buffered Queues**

**No data exists for this section of the report.**

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**Buffered Queue Subscribers**

**No data exists for this section of the report.**

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**Rule Set**

**No data exists for this section of the report.**

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**Persistent Queues**

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**Persistent Queues Rate**

**No data exists for this section of the report.**

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**Persistent Queue Subscribers**

**No data exists for this section of the report.**

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**Resource Limit Stats**

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**Shared Server Statistics**

* [**Shared Servers Activity**](about:blank#8710)
* [**Shared Servers Rates**](about:blank#8720)
* [**Shared Servers Utilization**](about:blank#8730)
* [**Shared Servers Common Queue**](about:blank#8740)
* [**Shared Servers Dispatchers**](about:blank#8750)

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**Shared Servers Activity**

* Values represent averages for all samples

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Avg Total Connections** | **Avg Active Connections** | **Avg Total Shared Srvrs** | **Avg Active Shared Srvrs** | **Avg Total Dispatchers** | **Avg Active Dispatchers** |
| 0 | 0 | 1 | 0 | 1 | 0 |

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**Shared Servers Rates**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Common Queue Per Sec** | **Disp Queue Per Sec** | **Server Msgs/Sec** | **Server KB/Sec** | **Common Queue Total** | **Disp Queue Total** | **Server Total Msgs** | **Server Total(KB)** |
| 0 | 0 | 0 | 0.00 | 0 | 0 | 0 | 0 |

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**Shared Servers Utilization**

* Statistics are combined for all servers
* Incoming and Outgoing Net % are included in %Busy

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Total Server Time (s)** | **%Busy** | **%Idle** | **Incoming Net %** | **Outgoing Net %** |
| 17,972 | 0.00 | 100.00 | 0.00 | 0.00 |

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**Shared Servers Common Queue**

**No data exists for this section of the report.**

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**Shared Servers Dispatchers**

* Ordered by %Busy, descending
* Total Queued, Total Queue Wait and Avg Queue Wait are for dispatcher queue
* Name suffixes: "(N)" - dispatcher started between begin and end snapshots "(R)" - dispatcher re-started between begin and end snapshots

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Avg Conns** | **Total Disp Time (s)** | **%Busy** | **%Idle** | **Total Queued** | **Total Queue Wait (s)** | **Avg Queue Wait (ms)** |
| D000 | 0.00 | 17,972 | 0.00 | 100.00 | 0 | 0 |  |

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**init.ora Parameters**

* [**init.ora Parameters**](about:blank#6800)
* [**init.ora Multi-Valued Parameters**](about:blank#6850)

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**init.ora Parameters**

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Begin value** | **End value (if different)** |
| audit\_file\_dest | /u01/app/oracle/admin/orcl/adump |  |
| audit\_trail | DB |  |
| compatible | 11.2.0.0.0 |  |
| control\_files | /data/orcl/control01.ctl, /u01/app/oracle/fast\_recovery\_area/orcl/control02.ctl |  |
| db\_block\_size | 8192 |  |
| db\_domain |  |  |
| db\_name | orcl |  |
| db\_recovery\_file\_dest | /u01/app/oracle/fast\_recovery\_area |  |
| db\_recovery\_file\_dest\_size | 4322230272 |  |
| diagnostic\_dest | /u01/app/oracle |  |
| dispatchers | (PROTOCOL=TCP) (SERVICE=orclXDB) |  |
| local\_listener | LISTENER\_ORCL |  |
| memory\_target | 54223962112 |  |
| nls\_language | TRADITIONAL CHINESE |  |
| nls\_territory | CHINA |  |
| open\_cursors | 300 |  |
| processes | 300 |  |
| remote\_login\_passwordfile | EXCLUSIVE |  |
| resource\_manager\_plan | SCHEDULER[0x318D]:DEFAULT\_MAINTENANCE\_PLAN |  |
| undo\_tablespace | UNDOTBS1 |  |

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**init.ora Multi-Valued Parameters**

* This section only displays parameters that have more one value
* '(NULL)' indicates a missing parameter value
* A blank in the End Snapshot indicates the same value as the BeginSnapshot

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Begin value** | **End value (if different)** |
| control\_files | /data/orcl/control01.ctl |  |
| control\_files | /u01/app/oracle/fast\_recovery\_area/orcl/control02.ctl |  |

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**Dynamic Remastering Stats**

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**End of Report**