

WORKLOAD REPOSITORY report for

DB Name	DB Id	Instance	Inst num	Startup Time	Release	RAC
PRIMA	2003897072	prima	1	16-Apr-13 08:04	11.2.0.3.0	NO

Host Name	Platform	CPUs	Cores	Sockets	Memory (GB)
uhesse1	Linux x86 64-bit	1	1	1	2.12

	Snap Id	Snap Time	Sessions	Cursors/Session
Begin Snap:	50	16-Apr-13 08:50:16	45	3.4
End Snap:	51	16-Apr-13 09:00:17	46	4.2
Elapsed:		10.01 (mins)		
DB Time:		1.78 (mins)		

Report Summary

Cache Sizes

	Begin	End		
Buffer Cache:	20M	16M	Std Block Size:	8K
Shared Pool Size:	140M	144M	Log Buffer:	4,636K

Load Profile

	Per Second	Per Transaction	Per Exec	Per Call
DB Time(s):	0.2	0.6	0.00	0.03
DB CPU(s):	0.2	0.5	0.00	0.03
Redo size:	3,617.1	11,140.9		
Logical reads:	1,551.7	4,779.2		
Block changes:	15.8	48.6		
Physical reads:	12.9	39.8		
Physical writes:	1.7	5.3		
User calls:	5.9	18.2		
Parses:	173.6	534.8		
Hard parses:	170.8	526.1		
W/A MB processed:	0.2	0.5		
Logons:	0.1	0.3		
Executes:	403.6	1,243.1		
Rollbacks:	0.0	0.0		
Transactions:	0.3			

Instance Efficiency Percentages (Target 100%)

Buffer Nowait %:	100.00	Redo NoWait %:	100.00
Buffer Hit %:	99.24	In-memory Sort %:	100.00
Library Hit %:	61.89	Soft Parse %:	1.62
Execute to Parse %:	56.98	Latch Hit %:	100.00
Parse CPU to Parse Elapsd %:	86.18	% Non-Parse CPU:	19.02

Shared Pool Statistics

	Begin	End
Memory Usage %:	74.79	74.77
% SQL with executions>1:	86.80	75.48
% Memory for SQL w/exec>1:	79.13	76.64

Top 5 Timed Foreground Events

Event	Waits	Time(s)	Avg wait (ms)	% DB time	Wait Class
DB CPU		90		84.08	
db file sequential read	5,135	1	0	1.13	User I/O
log file sync	49	0	8	0.37	Commit
direct path read	89	0	1	0.12	User I/O
latch: shared pool	96	0	1	0.08	Concurrency

Host CPU (CPUs: 1 Cores: 1 Sockets: 1)

Load Average Begin	Load Average End	%User	%System	%WIO	%Idle
0.40	0.00	18.9	2.7	0.4	78.3

Instance CPU

%Total CPU	%Busy CPU	%DB time waiting for CPU (Resource Manager)
15.6	71.9	0.0

Memory Statistics

	Begin	End
Host Mem (MB):	2,172.8	2,172.8
SGA use (MB):	180.0	180.0
PGA use (MB):	190.7	203.3
% Host Mem used for SGA+PGA:	17.06	17.64

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Time Model Statistics

- Total time in database user-calls (DB Time): 106.9s
- 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
sql execute elapsed time	101.11	94.56
DB CPU	89.91	84.08
parse time elapsed	88.99	83.22
hard parse elapsed time	72.00	67.33
PL/SQL execution elapsed time	4.39	4.11
hard parse (sharing criteria) elapsed time	2.07	1.94
hard parse (bind mismatch) elapsed time	1.76	1.64
PL/SQL compilation elapsed time	1.14	1.06
connection management call elapsed time	0.34	0.32
repeated bind elapsed time	0.07	0.06
sequence load elapsed time	0.03	0.03
DB time	106.93	
background elapsed time	9.17	
background cpu time	2.74	

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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	12,888	
IDLE_TIME	46,500	
IOWAIT_TIME	257	
NICE_TIME	0	
SYS_TIME	1,580	
USER_TIME	11,246	
PHYSICAL_MEMORY_BYTES	2,278,342,656	
NUM_CPUS	1	
NUM_CPU_CORES	1	
NUM_CPU_SOCKETS	1	
GLOBAL_RECEIVE_SIZE_MAX	4,194,304	
GLOBAL_SEND_SIZE_MAX	1,048,576	
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
16-Apr 08:50:16	0.40					
16-Apr 09:00:17	0.00	21.70	18.94	2.66	78.30	0.43

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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 85.9% of Total DB time 106.93 (s)
- Total FG Wait Time: 1.97 (s) DB CPU time: 89.91 (s)

Wait Class	Waits	%Time -outs	Total Wait Time (s)	Avg wait (ms)	%DB time
DB CPU			90		84.08
User I/O	5,302	0	1	0	1.26

Commit	49	0	0	8	0.37
Concurrency	151	0	0	1	0.14
Other	78	50	0	0	0.03
Network	2,817	0	0	0	0.03
Application	44	0	0	0	0.01
System I/O	631	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
db file sequential read	5,135	0	1	0	26.33	1.13
log file sync	49	0	0	8	0.25	0.37
direct path read	89	0	0	1	0.46	0.12
latch: shared pool	96	0	0	1	0.49	0.08
latch: row cache objects	47	0	0	1	0.24	0.05
ADR block file read	34	0	0	1	0.17	0.02
SQL*Net more data to client	48	0	0	0	0.25	0.02
SQL*Net message to client	2,739	0	0	0	14.05	0.01
SGA: allocation forcing component growth	1	0	0	7	0.01	0.01
SQL*Net break/reset to client	44	0	0	0	0.23	0.01
library cache: mutex X	3	0	0	2	0.02	0.00
control file sequential read	631	0	0	0	3.24	0.00
latch: call allocation	3	0	0	1	0.02	0.00
Disk file operations I/O	37	0	0	0	0.19	0.00
buffer busy waits	3	0	0	0	0.02	0.00
direct path sync	1	0	0	1	0.01	0.00
cursor: pin S	1	0	0	1	0.01	0.00
SQL*Net message from client	2,738	0	7,866	2873	14.04	
Streams AQ: waiting for messages in the queue	121	100	605	5001	0.62	
jobq slave wait	1,200	100	601	501	6.15	
wait for unread message on broadcast channel	609	98	600	985	3.12	

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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
db file sequential read	1,733	0	1	1	8.89	11.58
log file parallel write	232	0	1	4	1.19	9.06
os thread startup	26	0	1	26	0.13	7.27
db file async I/O submit	93	0	0	4	0.48	4.07
control file parallel write	201	0	0	1	1.03	1.81
cursor: pin S wait on X	3	0	0	15	0.02	0.49
latch: shared pool	14	0	0	1	0.07	0.15
direct path sync	1	0	0	8	0.01	0.09
log file sync	1	0	0	8	0.01	0.09
control file sequential read	657	0	0	0	3.37	0.07
latch free	2	0	0	3	0.01	0.07
latch: row cache objects	3	0	0	1	0.02	0.04
Disk file operations I/O	27	0	0	0	0.14	0.03
Parameter File I/O	16	0	0	0	0.08	0.03
latch: cache buffers lru chain	1	0	0	2	0.01	0.02
asynch descriptor resize	51	100	0	0	0.26	0.01
rdbms ipc message	3,175	93	9,004	2836	16.28	
Space Manager: slave idle wait	695	93	3,274	4711	3.56	
DIAG idle wait	1,200	100	1,201	1001	6.15	
smon timer	8	13	607	75853	0.04	
pmon timer	200	100	600	3001	1.03	
Streams AQ: qmn coordinator idle wait	42	50	588	14005	0.22	
Streams AQ: qmn slave idle wait	21	0	588	28009	0.11	
SQL*Net message from client	72	0	0	1	0.37	

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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)

Event	Total Waits	% of Waits							
		<1ms	<2ms	<4ms	<8ms	<16ms	<32ms	<=1s	>1s
ADR block file read	34	94.1	2.9				2.9		
Disk file operations I/O	59	98.3	1.7						
Parameter File I/O	16	100.0							
SGA: allocation forcing component growth	1				100.0				
SQL*Net break/reset to client	44	97.7	2.3						
SQL*Net message to client	2762	100.0	.0						

SQL*Net more data from client	31	100.0							
SQL*Net more data to client	49	89.8	2.0	4.1	4.1				
asynch descriptor resize	88	100.0							
buffer busy waits	3	100.0							
control file parallel write	200	89.5	9.5		.5	.5			
control file sequential read	1220	100.0							
cursor: pin S	1	100.0							
cursor: pin S wait on X	3					100.0			
db file async I/O submit	92	68.5	10.9	5.4	5.4	5.4	1.1	3.3	
db file parallel read	7	100.0							
db file scattered read	47	100.0							
db file sequential read	6801	98.0	.4	.2	.5	.4	.4	.1	
direct path read	89	89.9	1.1		1.1	4.5	3.4		
direct path sync	2		50.0			50.0			
direct path write	2	100.0							
direct path write temp	1	100.0							
latch free	3	33.3		66.7					
latch: cache buffers chains	1	100.0							
latch: cache buffers lru chain	1		100.0						
latch: call allocation	3	66.7	33.3						
latch: row cache objects	49	46.9	42.9	10.2					
latch: shared pool	104	56.7	40.4	2.9					
library cache: mutex X	3	33.3	33.3	33.3					
log file parallel write	231	69.7	15.2	1.7	2.2	1.3	8.7	1.3	
log file sync	49	53.1	12.2	4.1	4.1	2.0	20.4	4.1	
os thread startup	26					19.2	65.4	15.4	
DIAG idle wait	1199							100.0	
SQL*Net message from client	2778	74.5	6.6	3.8	2.0	.8	.3	3.1	9.0
Space Manager: slave idle wait	690	.1		.1		.6	.1	2.2	96.8
Streams AQ: qmn coordinator idle wait	42	47.6	2.4						50.0
Streams AQ: qmn slave idle wait	21								100.0
Streams AQ: waiting for messages in the queue	120								100.0
class slave wait	6	100.0							
jobq slave wait	1200							100.0	
pmon timer	200								100.0
rdbms ipc message	3169	1.1	.3	.3	.3	.7	.9	41.4	55.0
smon timer	7							42.9	57.1
wait for unread message on broadcast channel	608						.5	99.5	

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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
db file async I/O submit	3	96.7	3.3						
db file sequential read	9	99.9	.1	.0					
log file parallel write	3	98.7	1.3						
log file sync	2	95.9	4.1						
os thread startup	4	84.6	15.4						

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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)
SYS\$USERS	98	84	4	807
prima	9	6	2	81
SYS\$BACKGROUND	0	0	2	44

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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	User I/O	Concurecy	Concurecy	Admin	Admin	Network	Network
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	Total Wts	Wt Time	Total Wts	Wt Time	Total Wts	Wt Time	Total Wts	Wt Time
SYS\$USERS	3295	1	115	0	0	0	1206	0
prima	2007	0	36	0	0	0	1611	0
SYS\$BACKGROUND	1791	1	46	1	0	0	0	0

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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 19.6% of Total DB Time (s): 107
- Captured PL/SQL account for 81.7% of Total DB Time (s): 107

Elapse d Time (s)	Execution s	Elapse d Time per Exec (s)	%Tota l	%CP U	%I O	SQL Id	SQL Module	SQL Text
82.97	1	82.97	77.59	89.50	0.00	frvryd3rr8faq	SQL*Plus	begin for i in 1..100000 loop ...
11.04	100,000	0.00	10.32	81.98	0.00	48sb36jvxc8zi		SELECT /* OPT_DYN_SAMP */ /*+ ...
1.73	2	0.86	1.62	89.78	0.04	5r2nw00888cp c	OEM.SystemPo ol	SELECT UTC.COLUMN_NAME, UTC.DA...
1.38	6	0.23	1.29	67.72	0.95	6gvch1xu9ca3 g		DECLARE job BINARY_INTEGER := ...
0.98	48	0.02	0.92	75.19	0.00	d5xxfguffwpvh	Realtime Connection	select end_time, wait_class#, ...
0.86	20	0.04	0.81	58.41	0.25	2b064ybzkwf1 v	OEM.SystemPo ol	BEGIN EMD_NOTIFICATION.QUEUE_R...
0.72	240	0.00	0.67	52.48	0.15	6v7n0y2bq89n g	OEM.SystemPo ol	BEGIN EMDW_LOG.set_context(MGM...

0.64	2	0.32	0.59	55.53	0.02	fndjrj10u6q7d	Realtime Connection	select end_time, wait_class#, ...
0.47	120	0.00	0.44	53.50	0.72	5ms6rbzdng16t		select job, nv12(last_date, 1,...
0.45	9	0.05	0.42	57.45	1.05	3am9cfkvx7gg1		CALL MGMT_ADMIN_DATA.EVALUATE_ ...

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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 17.2% of Total CPU Time (s): 90
- Captured PL/SQL account for 85.5% of Total CPU Time (s): 90

CPU Time (s)	Execution s	CPU per Exec (s)	%Total	Elapsed Time (s)	%CPU	%IO	SQL Id	SQL Module	SQL Text
74.26	1	74.26	82.59	82.97	89.50	0.00	frvryd3rr8faq	SQL*Plus	begin for i in 1..100000 loop ...
9.05	100,000	0.00	10.06	11.04	81.98	0.00	48sb36jvxc8zi		SELECT /* OPT_DYN_SAMP */ /*+ ...
1.55	2	0.78	1.73	1.73	89.78	0.04	5r2nw00888cp	OEM.SystemPol	SELECT UTC.COLUMN_NAME, UTC.DA...
0.93	6	0.16	1.04	1.38	67.72	0.95	6gvch1xu9ca3g		DECLARE job BINARY_INTEGER := ...
0.74	48	0.02	0.82	0.98	75.19	0.00	d5xxfguffwp	Realtime Connection	select end_time, wait_class#, ...
0.50	20	0.03	0.56	0.86	58.41	0.25	2b064ybzkwf1y	OEM.SystemPol	BEGIN EMD_NOTIFICATION.QUEUE_R.. .
0.38	240	0.00	0.42	0.72	52.48	0.15	6v7n0y2bg89ng	OEM.SystemPol	BEGIN EMDW_LOG.set_context(MGM...
0.35	2	0.18	0.39	0.64	55.53	0.02	fndjrj10u6q7d	Realtime Connection	select end_time, wait_class#, ...
0.29	915	0.00	0.32	0.44	65.65	3.03	7nq34ruy5awxg		select i.obj#, i.ts#, i.file#,...
0.26	9	0.03	0.28	0.45	57.45	1.05	3am9cfkvx7gg1		CALL MGMT_ADMIN_DATA.EVALUATE_ ...

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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 31.1% of Total User I/O Wait Time (s): 2
- Captured PL/SQL account for 1.0% of Total User I/O Wait Time (s): 2

User I/O Time (s)	Executions	UIO per Exec (s)	%Total	Elapsed Time (s)	%CPU	%IO	SQL Id	SQL Module	SQL Text
0.24	619	0.00	9.98	0.34	24.28	71.20	cvn54b7yz0s8u		select /*+ index(idl_ub1\$ i_id...
0.14	619	0.00	5.79	0.23	22.42	61.30	39m4sx9k63ba2		select /*+ index(idl_ub2\$ i_id...
0.11	619	0.00	4.61	0.20	23.13	55.90	ga9j9xk5cy9s0		select /*+ index(idl_sb4\$ i_id...
0.11	1,544	0.00	4.61	0.26	31.34	42.99	32hbap2vtmf53		select position#, sequence#, l...
0.04	65	0.00	1.75	0.05	13.22	79.42	2xqubd6ayhyb1		select max(procedure#) from pr...
0.03	714	0.00	1.10	0.18	62.96	14.37	3ktacv9r56b51		select owner#, name, namespace...
0.01	619	0.00	0.61	0.08	59.18	18.18	c6awqs517jpi0		select /*+ index(idl_char\$ i_i...
0.01	915	0.00	0.55	0.44	65.65	3.03	7ng34ruy5awxg		select i.obj#, i.ts#, i.file#,...
0.01	6	0.00	0.54	1.38	67.72	0.95	6qvch1xu9ca3g		DECLARE job BINARY_INTEGER := ...
0.01	714	0.00	0.34	0.10	62.23	8.56	8swypbbr0m372		select order#, columns, types ...

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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: 931,944
- Captured SQL account for 52.2% of Total

Buffer Gets	Executions	Gets per Exec	%Total	Elapsed Time (s)	%CPU	%IO	SQL Id	SQL Module	SQL Text
700,033	1	700,033.00	75.12	82.97	89.5	0	frvryd3rr8fag	SQL*Plus	begin for i in 1..100000 loop ...
300,000	100,000	3.00	32.19	11.04	82	0	48sb36jvxc8zi		SELECT /* OPT_DYN_SAMP */ /*+ ...
25,611	6	4,268.50	2.75	1.38	67.7	.9	6qvch1xu9ca3g		DECLARE job BINARY_INTEGER := ...
20,222	7,323	2.76	2.17	0.36	59.6	1.6	96g93hntzjtr		select /*+ rule */ bucket_cnt,...
15,890	1,544	10.29	1.71	0.26	31.3	43	32hbap2vtmf53		select position#, sequence#, l...
14,639	3,314	4.42	1.57	0.13	74.6	.4	53saa2zkr6wc3		select intcol#, nvl(pos#, 0), ...
11,756	714	16.46	1.26	0.18	63	14.4	3ktacv9r56b51		select owner#, name,

									namespace...
11,464	240	47.77	1.23	0.72	52.5	.2	6v7n0y2bq89n8	OEM.SystemPool	BEGIN EMDW_LOG.set_context(MGM...
11,346	20	567.30	1.22	0.86	58.4	.2	2b064ybkwf1y	OEM.SystemPool	BEGIN EMD_NOTIFICATION.QUEUE_R...
11,304	714	15.83	1.21	0.10	62.2	8.6	8swypbbr0m372		select order#, columns, types...
9,329	1,548	6.03	1.00	0.10	58.7	1.4	5n1fs4m2n2y0r		select pos#, intcol#, col#, sp...

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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: 7,757
- Captured SQL account for 64.2% of Total

Physical Reads	Executions	Reads per Exec	%Total	Elapsed Time (s)	%CPU	%IO	SQL Id	SQL Module	SQL Text
1,266	619	2.05	16.32	0.34	24.28	71.20	cvn54b7yz0s8u		select /*+ index(idl_ub1\$ i_id...
791	6	131.83	10.20	1.38	67.72	0.95	6qvch1xu9ca3q		DECLARE job BINARY_INTEGER := ...
562	619	0.91	7.25	0.23	22.42	61.30	39m4sx9k63ba2		select /*+ index(idl_ub2\$ i_id...
419	714	0.59	5.40	0.18	62.96	14.37	3ktacv9r56b51		select owner#, name, namespace...
351	1,532	0.23	4.52	0.18	55.68	3.63	db78fxqxwxt7r		select /*+ rule */ bucket, end...
224	2,244	0.10	2.89	0.14	72.62	5.96	3nkd3g3ju5ph1		select obj#, type#, ctime, mti...
216	619	0.35	2.78	0.20	23.13	55.90	ga9i9xk5cy9s0		select /*+ index(idl_sb4\$ i_id...
211	714	0.30	2.72	0.10	62.23	8.56	8swypbbr0m372		select order#, columns, types ...
202	9	22.44	2.60	0.45	57.45	1.05	3am9cfkvx7gq1		CALL MGMT_ADMIN_DATA.EVALUA TE_...
202	7,323	0.03	2.60	0.36	59.61	1.58	96g93hnrzitr		select /*+ rule */ bucket_cnt,...
176	619	0.28	2.27	0.08	59.18	18.18	c6awqs517pi0		select /*+ index(idl_char\$ i_i...
167	6	27.83	2.15	0.19	84.65	0.83	8fx6pgqgbpra0s	OEM.DefaultPool	begin emd_database.getDBSiteMa...
166	20	8.30	2.14	0.86	58.41	0.25	2b064ybkwf1y	OEM.SystemPool	BEGIN EMD_NOTIFICATION.QUEUE_R...
146	526	0.28	1.88	0.07	42.74	2.72	1qu8t96d0bdmu		select t.ts#, t.file#, t.block...

138	1,544	0.09	1.78	0.26	31.34	42.99	32hbap2vtmf53		select position#, sequence#, l...
136	915	0.15	1.75	0.44	65.65	3.03	7ng34ruy5awxq		select i.obj#, i.ts#, i.file#,...
127	120	1.06	1.64	0.47	53.50	0.72	5ms6rbzdnq16t		select job, nvl2(last_date, 1,...
105	1,148	0.09	1.35	0.26	63.85	0.40	83taa7kaw59c1		select name, intcol#, segcol#,...
92	240	0.38	1.19	0.72	52.48	0.15	6v7n0y2bq89n8	OEM.SystemPool	BEGIN EMDW_LOG.set_context(MGM...
83	156	0.53	1.07	0.03	50.21	3.05	q3wrkmxkxzhf2		select cols, audit\$, textlengt...
80	10	8.00	1.03	0.07	94.50	2.07	4jrftrx4u6zcx		SELECT TASK_TGT.TARGET_GUID TA...

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SQL ordered by Physical Reads (UnOptimized)

- UnOptimized Read Reqs = Physical Read Reqs - 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: 7,016
- Captured SQL account for 65.3% of Total
- Total UnOptimized Read Requests: 7,016
- Captured SQL account for 65.3% of Total
- Total Optimized Read Requests: 1
- Captured SQL account for 0.0% of Total

UnOptimiz ed Read Reqs	Physic al Read Reqs	Executio ns	UnOptimiz ed Reqs per Exec	%O pt	%Tot al	SQL Id	SQL Module	SQL Text
1,080	1,080	619	1.74	0.00	15.39	cyn54b7yz0s8u		select /*+ index(idl_ub1\$ i_id...
701	701	6	116.83	0.00	9.99	6gvch1xu9ca3q		DECLARE job BINARY_INTEGER := ...
552	552	619	0.89	0.00	7.87	39m4sx9k63ba2		select /*+ index(idl_ub2\$ i_id...
398	398	714	0.56	0.00	5.67	3ktacv9r56b51		select owner#, name, namespace...
351	351	1,532	0.23	0.00	5.00	db78fxqxwxt7r		select /*+ rule */ bucket, end...
224	224	2,244	0.10	0.00	3.19	3nkd3g3ju5ph1		select obj#, type#, ctime, mti...
205	205	714	0.29	0.00	2.92	8swypbbr0m372		select order#, columns, types ...
202	202	7,323	0.03	0.00	2.88	96g93hnrzjtr		select /*+ rule */ bucket_cnt,...
200	200	619	0.32	0.00	2.85	ga9j9xk5cy9s0		select /*+ index(idl_sb4\$ i_id...
171	171	619	0.28	0.00	2.44	c6awqs517ipj0		select /*+ index(idl_char\$ i_i...

167	167	6	27.83	0.00	2.38	8fx6pgqbpra0s	OEM.DefaultPool	begin emd_database.getDBSiteMa...
160	160	20	8.00	0.00	2.28	2b064ybkwf1y	OEM.SystemPool	BEGIN EMD_NOTIFICATION.QUEUE_R...
146	146	526	0.28	0.00	2.08	1qu8t96d0bdmu		select t.ts#, t.file#, t.block...
136	136	915	0.15	0.00	1.94	7ng34ruy5awxq		select i.obj#, i.ts#, i.file#,...
127	127	120	1.06	0.00	1.81	5ms6rbzdnq16t		select job, nvl2(last_date, 1,...
120	120	9	13.33	0.00	1.71	3am9cfkvx7qg1		CALL MGMT_ADMIN_DATA.EVALUA TE_...
103	103	1,148	0.09	0.00	1.47	83taa7kaw59c1		select name, intcol#, segcol#,...
92	92	240	0.38	0.00	1.31	6v7n0y2bq89n8	OEM.SystemPool	BEGIN EMDW_LOG.set_context(MGM. ..
88	88	1,544	0.06	0.00	1.25	32hbap2vtmf53		select position#, sequence#, l...
80	80	10	8.00	0.00	1.14	4jfrtx4u6zcx		SELECT TASK_TGT.TARGET_GUID TA...

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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: 242,401
- Captured SQL account for 54.1% of Total

Executions	Rows Processed	Rows per Exec	Elapsed Time (s)	%CPU	%IO	SQL Id	SQL Module	SQL Text
100,000	100,000	1.00	11.04	82	0	48sb36jvxc8zi		SELECT /* OPT_DYN_SAMP */ /*+ ...
7,323	5,404	0.74	0.36	59.6	1.6	96g93hntzjtr		select /*+ rule */ bucket_cnt,...
3,314	3,997	1.21	0.13	74.6	.4	53saa2zkr6wc3		select intcol#, nvl(pos#, 0), ...
2,244	2,116	0.94	0.14	72.6	6	3nkd3g3ju5ph1		select obj#, type#, ctime, mti...
1,548	3,075	1.99	0.10	58.7	1.4	5n1fs4m2n2y0r		select pos#, intcol#, col#, sp...
1,544	6,282	4.07	0.26	31.3	43	32hbap2vtmf53		select position#, sequence#, l...
1,532	22,447	14.65	0.18	55.7	3.6	db78fxqxwxt7r		select /*+ rule */ bucket, end...
1,148	16,037	13.97	0.26	63.9	.4	83taa7kaw59c1		select name, intcol#, segcol#,...
915	1,548	1.69	0.44	65.7	3	7ng34ruy5awxq		select i.obj#, i.ts#, i.file#,...
873	213	0.24	0.04	63.5	.4	3w4gs0tbpmxr6		select con#, obj#, rcon#,

								enab...
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SQL ordered by Parse Calls

- Total Parse Calls: 104,288
- Captured SQL account for 1.1% of Total

Parse Calls	Executions	% Total Parses	SQL Id	SQL Module	SQL Text
35	3,314	0.03	53saa2zkr6wc3		select intcol#, nvl(pos#, 0), ...
35	220	0.03	6qz82dptj0qr7		select l.col#, l.intcol#, l.lo...
34	714	0.03	3ktacv9r56b51		select owner#, name, namespace...
34	873	0.03	3w4qs0tbpmxr6		select con#, obj#, rcon#, enab...
34	714	0.03	8swvypbbr0m372		select order#, columns, types ...
34	873	0.03	gx4mv66pvj3xz		select con#, type#, condlength...
33	1,532	0.03	db78fxqxwxt7r		select /*+ rule */ bucket, end...
33	533	0.03	grwydz59pu6mc		select text from view\$ where r...
32	220	0.03	0fr8zhn4ymu3v		select intcol#, type, flags, l...
32	804	0.03	2q93zsrvbdw48		select grantee#, privilege#, n...

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SQL ordered by Sharable Memory

No data exists for this section of the report.

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SQL ordered by Version Count

No data exists for this section of the report.

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Complete List of SQL Text

SQL Id	SQL Text
0fr8zhn4ymu3v	select intcol#, type, flags, lobcol, objcol, extracol, schemaoid, elemnum from opqtype\$ where obj# = :1 order by intcol# asc
1gu8t96d0bdmu	select t.ts#, t.file#, t.block#, nvl(t.bobj#, 0), nvl(t.tab#, 0), t.intcols, nvl(t.clucols, 0), t.audit\$, t.flags, t.pctfree\$, t.pctused\$, t.initrans, t.maxtrans, t.rowcnt, t.blkcnt, t.empcnt, t.avgspc, t.chncnt, t.avgrln, t.analyzetime, t.samplesize, t.cols, t.property, nvl(t.degree, 1), nvl(t.instances, 1), t.avgspc_flb, t.flbcnt, t.kernelcols, nvl(t.trigflag, 0), nvl(t.spare1, 0), nvl(t.spare2, 0), t.spare4, t.spare6, ts.cachedblk, ts.cachehit, ts.logicalread from tab\$ t, tab_stats\$ ts where t.obj# = :1 and t.obj# = ts.obj# (+)
2b064ybkwf1y	BEGIN EMD_NOTIFICATION.QUEUE_READY(:1, :2, :3); END;

2q93zsrbdw48	select grantee#, privilege#, nvl(col#, 0), max(mod(nvl(option\$, 0), 2))from objauth\$ where obj#=:1 group by grantee#, privilege#, nvl(col#, 0) order by grantee#
2xgubd6ayhyb1	select max(procedure#) from procedureplsqli\$ where obj#=:1
32hbp2vtmf53	select position#, sequence#, level#, argument, type#, charsetid, charsetform, properties, nvl(length, 0), nvl(precision#, 0), nvl(scale, 0), nvl(radix, 0), type_owner, type_name, type_subname, type_linkname, pls_type from argument\$ where obj#=:1 and procedure#=:2 order by sequence# desc
39m4sx9k63ba2	select /*+ index(idl_ub2\$ i_idl_ub21) */ piece#, length, piece from idl_ub2\$ where obj#=:1 and part=:2 and version=:3 order by piece#
3am9cfkvx7gq1	CALL MGMT_ADMIN_DATA.EVALUATE_MGMT_METRICS(:target_guid, :metric_guid, :metric_values)
3ktacv9r56b51	select owner#, name, namespace, remoteowner, linkname, p_timestamp, p_obj#, nvl(property, 0), subname, type#, d_attrs from dependency\$ d, obj\$ o where d_obj#=:1 and p_obj#=obj#(+) order by order#
3nkd3g3ju5ph1	select obj#, type#, ctime, mtime, stime, status, dataobj#, flags, oid\$, spare1, spare2 from obj\$ where owner#=:1 and name=:2 and namespace=:3 and remoteowner is null and linkname is null and subname is null
3w4qs0tbpmxr6	select con#, obj#, rcon#, enabled, nvl(defer, 0), spare2, spare3 from cdef\$ where robj#=:1
48sb36jvxc8zj	SELECT /* OPT_DYN_SAMP */ /*+ ALL_ROWS IGNORE_WHERE_CLAUSE NO_PARALLEL(SAMPLESUB) opt_param('parallel_execution_enabled', 'false') NO_PARALLEL_INDEX(SAMPLESUB) NO_SQL_TUNE */ NVL(SUM(C1), :SYS_B_0"), NVL(SUM(C2), :SYS_B_1") FROM (SELECT /*+ IGNORE_WHERE_CLAUSE NO_PARALLEL("T") FULL("T") NO_PARALLEL_INDEX("T") */ :SYS_B_2" AS C1, CASE WHEN TO_NUMBER("T"."DUMMY")=:SYS_B_3" THEN :SYS_B_4" ELSE :SYS_B_5" END AS C2 FROM "ADAM"."T") SAMPLESUB
4jrfrtx4u6zcx	SELECT TASK_TGT.TARGET_GUID TARGET_GUID, LEAD(TASK_TGT.TARGET_GUID, 1) OVER (ORDER BY TASK_TGT.TARGET_GUID, POLICY.POLICY_GUID, CFG.EVAL_ORDER) NEXT_TARGET_GUID, POLICY.POLICY_GUID POLICY_GUID, LEAD(POLICY.POLICY_GUID, 1) OVER (ORDER BY TASK_TGT.TARGET_GUID, POLICY.POLICY_GUID, CFG.EVAL_ORDER) NEXT_POLICY_GUID, POLICY.POLICY_NAME, POLICY.POLICY_TYPE, DECODE(POLICY.POLICY_TYPE, :B3, NVL(CFG.MESSAGE, POLICY.MESSAGE), :B9, CFG.MESSAGE, NULL) MESSAGE, DECODE(POLICY.POLICY_TYPE, :B3, NVL(CFG.MESSAGE_NLSID, POLICY.MESSAGE_NLSID), :B9, CFG.MESSAGE_NLSID, NULL) MESSAGE_NLSID, DECODE(POLICY.POLICY_TYPE, :B3, NVL(CFG.CLEAR_MESSAGE, POLICY.CLEAR_MESSAGE), :B9, CFG.CLEAR_MESSAGE, NULL) CLEAR_MESSAGE, DECODE(POLICY.POLICY_TYPE, :B3, NVL(CFG.CLEAR_MESSAGE_NLSID, POLICY.CLEAR_MESSAGE_NLSID), :B9, CFG.CLEAR_MESSAGE_NLSID, NULL) CLEAR_MESSAGE_NLSID, POLICY.REPO_TIMING_ENABLED, TASK_TGT.COLL_NAME, POLICY.VIOLATION_LEVEL, DECODE(POLICY.POLICY_TYPE, :B3, :B10, 0) VIOLATION_TYPE, POLICY.CONDITION_TYPE, POLICY.CONDITION, DECODE(POLICY.POLICY_TYPE, :B3, NVL(CFG.CONDITION_OPERATOR, POLICY.CONDITION_OPERATOR), :B9, CFG.CONDITION_OPERATOR, 0) CONDITION_OPERATOR, CFG.KEY_VALUE, CFG.KEY_OPERATOR, CFG.IS_EXCEPTION, CFG.NUM_OCCURRENCES, NULL EVALUATION_DATE, DECODE(CFG.IS_EXCEPTION, :B1, MGMT_POLICY_PARAM_VAL_ARRAY(), CAST(MULTISET(SELECT MGMT_POLICY_PARAM_VAL.NEW(PARAM_NAME, CRIT_THRESHOLD, WARN_THRESHOLD, INFO_THRESHOLD) FROM MGMT_POLICY_ASSOC_CFG_PARAMS PARAM WHERE PARAM.OBJECT_GUID = CFG.OBJECT_GUID AND PARAM.POLICY_GUID = CFG.POLICY_GUID AND PARAM.COLL_NAME = CFG.COLL_NAME AND PARAM.KEY_VALUE = CFG.KEY_VALUE AND PARAM.KEY_OPERATOR = CFG.KEY_OPERATOR) AS MGMT_POLICY_PARAM_VAL_ARRAY)) PARAMS, DECODE(POLICY.CONDITION_TYPE, :B8, CAST(MULTISET(SELECT MGMT_NAMEVALUE_OBJ.NEW(BIND_COLUMN_NAME, BIND_COLUMN_TYPE) FROM MGMT_POLICY_BIND_VARS BINDS WHERE BINDS.POLICY_GUID = POLICY.POLICY_GUID) AS MGMT_NAMEVALUE_ARRAY), MGMT_NAMEVALUE_ARRAY()) BINDS, DECODE(:B7, 0, MGMT_MEDIUM_STRING_ARRAY(), 1, MGMT_MEDIUM_STRING_ARRAY(CFG.KEY_VALUE), CAST((SELECT MGMT_MEDIUM_STRING_ARRAY(KEY_PART1_VALUE, KEY_PART2_VALUE, KEY_PART3_VALUE, KEY_PART4_VALUE, KEY_PART5_VALUE) FROM MGMT_METRICS_COMPOSITE_KEYS COMP_KEYS WHERE COMP_KEYS.COMPOSITE_KEY = CFG.KEY_VALUE AND COMP_KEYS.TARGET_GUID = CFG.OBJECT_GUID) AS MGMT_MEDIUM_STRING_ARRAY()) KEY_VALUES FROM MGMT_POLICIES POLICY, MGMT_POLICY_ASSOC ASSOC, MGMT_POLICY_ASSOC_CFG CFG, MGMT_COLLECTION_METRIC_TASKS TASK_TGT WHERE TASK_TGT.TASK_ID = :B6 AND POLICY.METRIC_GUID = :B5 AND ASSOC.OBJECT_GUID = TASK_TGT.TARGET_GUID AND POLICY.POLICY_TYPE != :B4 AND (POLICY.POLICY_TYPE = :B3 OR ASSOC.COLL_NAME = TASK_TGT.COLL_NAME) AND ASSOC.POLICY_GUID = POLICY.POLICY_GUID AND ASSOC.OBJECT_TYPE = :B2 AND ASSOC.IS_ENABLED = :B1 AND CFG.OBJECT_GUID = ASSOC.OBJECT_GUID AND CFG.COLL_NAME = ASSOC.COLL_NAME AND CFG.POLICY_GUID = ASSOC.POLICY_GUID ORDER BY TASK_TGT.TARGET_GUID, POLICY.POLICY_GUID, CFG.EVAL_ORDER, CFG.KEY_VALUE DESC
53saa2zkr6wc3	select intcol#, nvl(pos#, 0), col#, nvl(spare1, 0) from ccol\$ where con#=:1
5ms6rbzdnq16t	select job, nvl2(last_date, 1, 0) from sys.job\$ where (((:1 <= next_date) and (next_date <=:2)) or ((last_date is null) and (next_date < :3))) and (field1 = :4 or (field1 = 0 and 'Y' = :5)) and (this_date is null) and ((dbms_logstdby.db_is_logstdby = 0 and job < 1000000000) or (dbms_logstdby.db_is_logstdby = 1 and job >=

	1000000000)) order by next_date, job
5n1fs4m2n2yOr	select pos#, intcol#, col#, spare1, bo#, spare2, spare3 from icol\$ where obj#=:1
5r2nw00888cpc	SELECT UTC.COLUMN_NAME, UTC.DATA_TYPE, UCC.POSITION, UTC.DATA_DEFAULT FROM USER_TAB_COLUMNS UTC, USER_CONSTRAINTS UC, USER_CONS_COLUMNS UCC WHERE UTC.TABLE_NAME = UPPER(:B1) AND UC.TABLE_NAME = UTC.TABLE_NAME AND UC.CONSTRAINT_TYPE = 'P' AND UCC.TABLE_NAME = UTC.TABLE_NAME AND UCC.CONSTRAINT_NAME = UC.CONSTRAINT_NAME AND UCC.COLUMN_NAME = UTC.COLUMN_NAME ORDER BY UCC.POSITION
6gvch1xu9ca3g	DECLARE job BINARY_INTEGER := :job; next_date DATE := :mydate; broken BOOLEAN := FALSE; BEGIN EMD_MAINTENANCE.EXECUTE_EM_DBMS_JOB_PROCS(); :mydate := next_date; IF broken THEN :b := 1; ELSE :b := 0; END IF; END;
6qz82dptj0qr7	select l.col#, l.intcol#, l.lobj#, l.ind#, l.ts#, l.file#, l.block#, l.chunk, l.pctversion\$, l.flags, l.property, l.retention, l.freepools from lob\$l where l.obj# = :1 order by l.intcol# asc
6v7n0y2bq89n8	BEGIN EMDW_LOG.set_context(MGMT_JOB_ENGINE.MODULE_NAME, :1); MGMT_JOB_ENGINE.get_scheduled_steps(:2, :3, :4, :5); EMDW_LOG.set_context; END;
7ng34rui5awxq	select i.obj#, i.ts#, i.file#, i.block#, i.intcols, i.type#, i.flags, i.property, i.pctfree\$, i.initrans, i.maxtrans, i.blevel, i.leafcnt, i.distkey, i.blkkey, i.dbkkey, i.clufac, i.cols, i.analyzetime, i.samplesize, i.dataobj#, nvl(i.degree, 1), nvl(i.instances, 1), i.rowcnt, mod(i.pctthres\$, 256), i.indmethod#, i.truncnt, nvl(c.unicons, 0), nvl(c.deferrable#+c.valid#, 0), nvl(i.spare1, i.intcols), i.spare4, i.spare2, i.spare6, decode(i.pctthres\$, null, null, mod(trunc(i.pctthres\$/256), 256)), ist.cachedblk, ist.cachehit, ist.logicalread from ind\$i, ind_stats\$ ist, (select enabled, min(cols) unicons, min(to_number(bitand(defer, 1))) deferrable#, min(to_number(bitand(defer, 4))) valid# from cdef\$ where obj#=:1 and enabled > 1 group by enabled) c where i.obj#=c.enabled(+) and i.obj# = ist.obj#(+) and i.bo#=:1 order by i.obj#
83taa7kaw59c1	select name, intcol#, segcol#, type#, length, nvl(precision#, 0), decode(type#, 2, nvl(scale, -127/*MAXSB1MINAL*/), 178, scale, 179, scale, 180, scale, 181, scale, 182, scale, 183, scale, 231, scale, 0), null\$, fixedstorage, nvl(deflength, 0), default\$, rowid, col#, property, nvl(charsetid, 0), nvl(charsetform, 0), spare1, spare2, nvl(spare3, 0) from col\$ where obj#=:1 order by intcol#
8fx6pqqbpra0s	begin emd_database.getDBSiteMapInfo(:1, :2, :3); end;
8swypbbr0m372	select order#, columns, types from access\$ where d_obj#=:1
96g93hnrzjtr	select /*+ rule */ bucket_cnt, row_cnt, cache_cnt, null_cnt, timestamp#, sample_size, minimum, maximum, distcnt, lowval, hival, density, col#, spare1, spare2, avgcln from hist_head\$ where obj#=:1 and intcol#=:2
c6awqs517jpj0	select /*+ index(idl_char\$ i_idl_char1) */ piece#, length, piece from idl_char\$ where obj#=:1 and part=:2 and version=:3 order by piece#
cvn54b7yz0s8u	select /*+ index(idl_ub1\$ i_idl_ub11) */ piece#, length, piece from idl_ub1\$ where obj#=:1 and part=:2 and version=:3 order by piece#
d5xxfguffwpxh	select end_time, wait_class#, (time_waited_fg)/(intsize_csec/100), (time_waited)/(intsize_csec/100), 0 from v\$waitclassmetric union all select fg.end_time, -1, fg.value, bg.value, dbtime.value from v\$sysmetric fg, v\$sysmetric bg, v\$sysmetric dbtime where bg.metric_name = 'Background CPU Usage Per Sec' and bg.group_id = 2 and fg.metric_name = 'CPU Usage Per Sec' and fg.group_id = 2 and dbtime.metric_name = 'Average Active Sessions' and dbtime.group_id = 2 and bg.end_time = fg.end_time and fg.end_time = dbtime.end_time order by end_time, wait_class#
db78fxqxwxt7r	select /*+ rule */ bucket, endpoint, col#, epvalue from histgrm\$ where obj#=:1 and intcol#=:2 and row#=:3 order by bucket
fndjrj10u6q7d	select end_time, wait_class#, (time_waited_fg)/(intsize_csec/100), (time_waited)/(intsize_csec/100), 0 from v\$waitclassmetric_history union all select fg.end_time, -1, fg.value, bg.value, dbtime.value from v\$sysmetric_history fg, v\$sysmetric_history bg, v\$sysmetric_history dbtime where bg.metric_name = 'Background CPU Usage Per Sec' and bg.group_id = 2 and fg.metric_name = 'CPU Usage Per Sec' and fg.group_id = 2 and dbtime.metric_name = 'Average Active Sessions' and dbtime.group_id = 2 and bg.end_time = fg.end_time and fg.end_time = dbtime.end_time order by end_time, wait_class#
frvryd3rr8fag	begin for i in 1..100000 loop execute immediate 'delete from t where dummy= to_char(i); end loop; end;
g3wrkmxkxzhf2	select cols, audit\$, textlength, intcols, property, flags, rowid from view\$ where obj#=:1
ga9j9xk5cy9s0	select /*+ index(idl_sb4\$ i_idl_sb41) */ piece#, length, piece from idl_sb4\$ where obj#=:1 and part=:2 and version=:3 order by piece#
grwydz59pu6mc	select text from view\$ where rowid=:1
gx4mv66pvj3xz	select con#, type#, conlength, intcols, robj#, rcon#, match#, refact, nvl(enabled, 0), rowid, cols, nvl(defer, 0), mtime, nvl(spare1, 0), spare2, spare3 from cdef\$ where obj#=:1

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Instance Activity Statistics

- [Instance Activity Stats](#)
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- [Instance Activity Stats - Thread Activity](#)

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Instance Activity Stats

- Ordered by statistic name

Statistic	Total	per Second	per Trans
Batched IO (bound) vector count	6	0.01	0.03
Batched IO (full) vector count	0	0.00	0.00
Batched IO block miss count	89	0.15	0.46
Batched IO buffer defrag count	0	0.00	0.00
Batched IO double miss count	4	0.01	0.02
Batched IO same unit count	40	0.07	0.21
Batched IO single block count	3	0.00	0.02
Batched IO slow jump count	0	0.00	0.00
Batched IO vector block count	44	0.07	0.23
Batched IO vector read count	7	0.01	0.04
Block Cleanout Optim referenced	9	0.01	0.05
CCursor + sql area evicted	49	0.08	0.25
CPU used by this session	9,120	15.18	46.77
CPU used when call started	1,414	2.35	7.25
CR blocks created	24	0.04	0.12
Commit SCN cached	0	0.00	0.00
DB time	190,768	317.62	978.30
DBWR checkpoint buffers written	76	0.13	0.39
DBWR checkpoints	0	0.00	0.00
DBWR tablespace checkpoint buffers written	0	0.00	0.00
DBWR transaction table writes	18	0.03	0.09
DBWR undo block writes	170	0.28	0.87
HSC Heap Segment Block Changes	1,531	2.55	7.85
Heap Segment Array Inserts	121	0.20	0.62
Heap Segment Array Updates	65	0.11	0.33
IMU CR rollbacks	16	0.03	0.08
IMU Flushes	204	0.34	1.05
IMU Redo allocation size	401,448	668.40	2,058.71
IMU commits	142	0.24	0.73
IMU contention	5	0.01	0.03
IMU ktichg flush	0	0.00	0.00
IMU recursive-transaction flush	1	0.00	0.01
IMU undo allocation size	842,456	1,402.66	4,320.29
Number of read IOs issued	89	0.15	0.46

Requests to/from client	2,718	4.53	13.94
RowCR - row contention	0	0.00	0.00
RowCR attempts	224	0.37	1.15
RowCR hits	228	0.38	1.17
SQL*Net roundtrips to/from client	2,720	4.53	13.95
active txn count during cleanout	51	0.08	0.26
application wait time	1	0.00	0.01
background timeouts	2,934	4.89	15.05
buffer is not pinned count	215,982	359.60	1,107.60
buffer is pinned count	48,947	81.50	251.01
bytes received via SQL*Net from client	712,836	1,186.85	3,655.57
bytes sent via SQL*Net to client	731,979	1,218.72	3,753.74
calls to get snapshot scn: kcmgss	251,330	418.46	1,288.87
calls to kcmgas	358	0.60	1.84
calls to kcmgcs	501,134	834.37	2,569.92
cell physical IO interconnect bytes	98,729,984	164,382.58	506,307.61
change write time	13	0.02	0.07
cleanout - number of ktugct calls	61	0.10	0.31
cleanouts and rollbacks - consistent read gets	0	0.00	0.00
cleanouts only - consistent read gets	8	0.01	0.04
cluster key scan block gets	9,685	16.13	49.67
cluster key scans	7,329	12.20	37.58
commit batch performed	0	0.00	0.00
commit batch requested	0	0.00	0.00
commit batch/immediate performed	2	0.00	0.01
commit batch/immediate requested	2	0.00	0.01
commit cleanout failures: block lost	1	0.00	0.01
commit cleanout failures: callback failure	4	0.01	0.02
commit cleanout failures: cannot pin	0	0.00	0.00
commit cleanouts	1,185	1.97	6.08
commit cleanouts successfully completed	1,180	1.96	6.05
commit immediate performed	2	0.00	0.01
commit immediate requested	2	0.00	0.01
commit txn count during cleanout	30	0.05	0.15
concurrency wait time	88	0.15	0.45
consistent changes	41	0.07	0.21
consistent gets	923,437	1,537.50	4,735.57
consistent gets - examination	79,468	132.31	407.53
consistent gets direct	686	1.14	3.52
consistent gets from cache	922,751	1,536.35	4,732.06
consistent gets from cache (fastpath)	831,391	1,384.24	4,263.54
cursor authentications	689	1.15	3.53
data blocks consistent reads - undo records applied	26	0.04	0.13
db block changes	9,479	15.78	48.61
db block gets	8,507	14.16	43.63
db block gets direct	3	0.00	0.02
db block gets from cache	8,504	14.16	43.61

db block gets from cache (fastpath)	2,589	4.31	13.28
deferred (CURRENT) block cleanout applications	766	1.28	3.93
dirty buffers inspected	880	1.47	4.51
enqueue conversions	323	0.54	1.66
enqueue releases	109,153	181.74	559.76
enqueue requests	109,154	181.74	559.76
enqueue timeouts	0	0.00	0.00
enqueue waits	0	0.00	0.00
execute count	242,401	403.59	1,243.08
file io service time	12	0.02	0.06
file io wait time	2,420,603	4,030.23	12,413.35
frame signature mismatch	53	0.09	0.27
free buffer inspected	8,356	13.91	42.85
free buffer requested	7,367	12.27	37.78
heap block compress	1	0.00	0.01
hot buffers moved to head of LRU	3,508	5.84	17.99
immediate (CR) block cleanout applications	8	0.01	0.04
immediate (CURRENT) block cleanout applications	252	0.42	1.29
in call idle wait time	1,764,651	2,938.09	9,049.49
index crx upgrade (positioned)	920	1.53	4.72
index fast full scans (full)	10	0.02	0.05
index fetch by key	26,892	44.77	137.91
index scans kdixs1	43,652	72.68	223.86
leaf node 90-10 splits	13	0.02	0.07
leaf node splits	22	0.04	0.11
lob writes	40	0.07	0.21
lob writes unaligned	40	0.07	0.21
logical read bytes from cache	7,628,840,960	12,701,800.27	39,122,261.33
logons cumulative	54	0.09	0.28
max cf enq hold time	0	0.00	0.00
messages received	1,357	2.26	6.96
messages sent	1,357	2.26	6.96
min active SCN optimization applied on CR	270	0.45	1.38
no buffer to keep pinned count	59	0.10	0.30
no work - consistent read gets	336,312	559.95	1,724.68
non-idle wait count	12,133	20.20	62.22
non-idle wait time	493	0.82	2.53
opened cursors cumulative	237,447	395.34	1,217.68
parse count (describe)	12	0.02	0.06
parse count (failures)	33	0.05	0.17
parse count (hard)	102,594	170.82	526.12
parse count (total)	104,288	173.64	534.81
parse time cpu	7,281	12.12	37.34
parse time elapsed	8,449	14.07	43.33
physical read IO requests	7,016	11.68	35.98
physical read bytes	63,545,344	105,801.17	325,873.56
physical read total IO requests	8,310	13.84	42.62

physical read total bytes	84,620,288	140,890.34	433,950.19
physical read total multi block requests	0	0.00	0.00
physical reads	7,757	12.92	39.78
physical reads cache	7,071	11.77	36.26
physical reads cache prefetch	181	0.30	0.93
physical reads direct	686	1.14	3.52
physical reads direct temporary tablespace	0	0.00	0.00
physical reads prefetch warmup	0	0.00	0.00
physical write IO requests	829	1.38	4.25
physical write bytes	8,478,720	14,116.82	43,480.62
physical write total IO requests	1,271	2.12	6.52
physical write total bytes	14,109,696	23,492.24	72,357.42
physical write total multi block requests	4	0.01	0.02
physical writes	1,035	1.72	5.31
physical writes direct	3	0.00	0.02
physical writes direct (lob)	2	0.00	0.01
physical writes direct temporary tablespace	1	0.00	0.01
physical writes from cache	1,032	1.72	5.29
physical writes non checkpoint	947	1.58	4.86
pinned buffers inspected	4	0.01	0.02
pinned cursors current	2	0.00	0.01
prefetch warmup blocks aged out before use	0	0.00	0.00
process last non-idle time	475	0.79	2.44
recursive calls	881,860	1,468.27	4,522.36
recursive cpu usage	8,420	14.02	43.18
redo blocks checksummed by FG (exclusive)	2,246	3.74	11.52
redo blocks written	4,582	7.63	23.50
redo entries	3,757	6.26	19.27
redo size	2,172,480	3,617.12	11,140.92
redo size for direct writes	16,456	27.40	84.39
redo synch long waits	3	0.00	0.02
redo synch time	40	0.07	0.21
redo synch time (usec)	408,013	679.33	2,092.37
redo synch writes	89	0.15	0.46
redo wastage	63,168	105.17	323.94
redo write time	83	0.14	0.43
redo writes	232	0.39	1.19
rollback changes - undo records applied	4	0.01	0.02
rollbacks only - consistent read gets	24	0.04	0.12
rows fetched via callback	13,662	22.75	70.06
session connect time	0	0.00	0.00
session cursor cache hits	73,734	122.76	378.12
session logical reads	931,944	1,551.66	4,779.20
shared hash latch upgrades - no wait	7,190	11.97	36.87
sorts (memory)	10,552	17.57	54.11
sorts (rows)	66,380	110.52	340.41
sql area evicted	101,956	169.75	522.85

sql area purged	34	0.06	0.17
summed dirty queue length	948	1.58	4.86
switch current to new buffer	35	0.06	0.18
table fetch by rowid	84,676	140.98	434.24
table fetch continued row	2,339	3.89	11.99
table scan blocks gotten	202,673	337.44	1,039.35
table scan rows gotten	309,591	515.46	1,587.65
table scans (direct read)	4	0.01	0.02
table scans (long tables)	3	0.00	0.02
table scans (short tables)	200,587	333.97	1,028.65
total cf enq hold time	0	0.00	0.00
total number of cf enq holders	17	0.03	0.09
total number of times SMON posted	7	0.01	0.04
transaction rollbacks	2	0.00	0.01
undo change vector size	722,872	1,203.56	3,707.04
user I/O wait time	220	0.37	1.13
user calls	3,541	5.90	18.16
user commits	193	0.32	0.99
user rollbacks	2	0.00	0.01
workarea executions - onepass	0	0.00	0.00
workarea executions - optimal	6,998	11.65	35.89
write clones created in foreground	1	0.00	0.01

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Instance Activity Stats - Absolute Values

- Statistics with absolute values (should not be diffed)

Statistic	Begin Value	End Value
session pga memory max	433,686,872	482,231,752
session cursor cache count	3,949	5,143
session uga memory	167,555,763,784	210,510,982,360
opened cursors current	155	195
session pga memory	310,396,600	353,501,992
logons current	45	46
session uga memory max	233,006,760	296,255,240

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Instance Activity Stats - Thread Activity

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

Statistic	Total	per Hour
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log switches (derived)	0	0.00
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IO Stats

- [IOStat by Function summary](#)
- [IOStat by Filetype summary](#)
- [IOStat by Function/Filetype summary](#)
- [Tablespace IO Stats](#)
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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)
Buffer Cache Reads	54M	11.45	.089908	0M	0.00	0M	6844	0.23
Others	19M	2.04	.031634	3M	0.35	.004994	1633	0.04
DBWR	0M	0.00	0M	6M	1.18	.009989	92	3.01
Direct Reads	5M	0.15	.008324	0M	0.00	0M	89	1.39
LGWR	0M	0.00	0M	2M	0.38	.003329	462	2.99
Streams AQ	1M	0.02	.001664	0M	0.00	0M	12	0.00
Direct Writes	0M	0.00	0M	0M	0.00	0M	3	0.00
TOTAL:	79M	13.65	.131532	11M	1.92	.018314	9135	0.38

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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
Data File	60M	11.61	.099898	9M	1.19	.014984	0.24	
Control File	19M	2.02	.031634	3M	0.33	.004994	0.00	
Log File	0M	0.00	0M	2M	0.38	.003329		
Other	0M	0.01	0M	0M	0.02	0M	0.00	
Temp File	0M	0.00	0M	0M	0.00	0M	0.00	

TOTAL:	79M	13.65	.131532	14M	1.92	.023309	0.21	
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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)
Buffer Cache Reads	55M	11.43	.091573	0M	0.00	0M	6818	0.21
Buffer Cache Reads (Data File)	55M	11.43	.091573	0M	0.00	0M	6818	0.21
Others	19M	1.99	.031634	3M	0.33	.004994	1197	0.00
Others (Control File)	19M	1.99	.031634	3M	0.33	.004994	1193	0.00
Others (Data File)	0M	0.01	0M	0M	0.00	0M	4	0.00
DBWR	0M	0.00	0M	6M	1.18	.009989	0	
DBWR (Data File)	0M	0.00	0M	6M	1.18	.009989	0	
Direct Reads	5M	0.15	.008324	0M	0.00	0M	0	
Direct Reads (Data File)	5M	0.15	.008324	0M	0.00	0M	0	
LGWR	0M	0.00	0M	2M	0.38	.003329	0	
LGWR (Log File)	0M	0.00	0M	2M	0.38	.003329	0	
Streams AQ	1M	0.02	.001664	0M	0.00	0M	12	0.00
Streams AQ (Data File)	1M	0.02	.001664	0M	0.00	0M	12	0.00
Direct Writes	0M	0.00	0M	0M	0.00	0M	0	
Direct Writes (Data File)	0M	0.00	0M	0M	0.00	0M	0	
TOTAL:	80M	13.59	.133197	11M	1.91	.018314	8027	0.18

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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)
SYSTEM	5,442	9	0.18	1.09	48	0	0	0.00
SYSAUX	1,570	3	0.89	1.15	674	1	3	0.00
UNDOTBS1	19	0	0.00	1.00	106	0	0	0.00
USERS	6	0	0.00	1.00	0	0	0	0.00
TEMP	3	0	0.00	1.00	1	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)
SYSAUX	/home/oracle/prima/sysaux01.dbf	1,570	3	0.89	1.15	674	1	3	0.00
SYSTEM	/home/oracle/prima/system01.dbf	5,442	9	0.18	1.09	48	0	0	0.00
TEMP	/home/oracle/prima/temp01.dbt	3	0	0.00	1.00	1	0	0	
UNDOTBS1	/home/oracle/prima/undotbs01.dbf	19	0	0.00	1.00	106	0	0	0.00
USERS	/home/oracle/prima/users01.dbf	6	0	0.00	1.00	0	0	0	0.00

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Buffer Pool Statistics

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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	1,964	99	931,691	7,088	1,032	0	0	3

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Checkpoint Activity

- Total Physical Writes: 1,035

MTTR Writes	Log Size Writes	Log Ckpt Writes	Other Settings Writes	Autotune Ckpt Writes	Thread Ckpt Writes
0	0	0	0	76	0

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Advisory Statistics

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Instance Recovery Stats

- B: Begin Snapshot, E: End Snapshot

	Target 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	19	331	3224	44933	165888	44933			
E	0	19	265	1065	46243	165888	46243			

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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	4	0.20	0	1.76	69	1	158.00
D	8	0.40	1	1.45	57	1	123.00
D	12	0.60	1	1.22	48	1	99.00
D	16	0.80	2	1.09	43	1	84.00
D	20	1.00	2	1.00	39	1	74.00
D	24	1.20	3	0.94	37	1	67.00
D	28	1.40	3	0.89	35	1	62.00
D	32	1.60	4	0.84	33	1	57.00
D	36	1.80	4	0.81	32	1	53.00
D	40	2.00	5	0.71	28	1	43.00

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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	93	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	6,906	6,906	0	0
64K	128K	24	24	0	0
256K	512K	2	2	0	0
512K	1024K	82	82	0	0
1M	2M	1	1	0	0
4M	8M	2	2	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
15	0.13	502.01	71.68	88.00	6	79,726
30	0.25	502.01	71.68	88.00	6	79,726
60	0.50	502.01	71.68	88.00	6	79,726
90	0.75	502.01	71.68	88.00	6	79,726
120	1.00	502.01	13.58	97.00	5	71,651
144	1.20	502.01	13.58	97.00	2	71,651

168	1.40	502.01	0.00	100.00	0	69,764
192	1.60	502.01	0.00	100.00	0	69,764
216	1.80	502.01	0.00	100.00	0	69,764
240	2.00	502.01	0.00	100.00	0	69,764
360	3.00	502.01	0.00	100.00	0	69,764
480	4.00	502.01	0.00	100.00	0	69,764
720	6.00	502.01	0.00	100.00	0	69,764
960	8.00	502.01	0.00	100.00	0	69,764

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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)
128	0.89	13	1,006	4,010	0.83	979	6.44	220
132	0.92	17	1,221	4,256	0.88	733	4.82	285
136	0.94	20	1,504	4,511	0.93	478	3.14	359
140	0.97	23	1,673	4,730	0.98	259	1.70	436
144	1.00	26	1,886	4,837	1.00	152	1.00	560
148	1.03	29	2,059	4,838	1.00	151	0.99	561
152	1.06	32	2,220	4,839	1.00	150	0.99	561
156	1.08	35	2,381	4,841	1.00	148	0.97	561
160	1.11	38	2,576	4,842	1.00	147	0.97	562
164	1.14	41	2,854	4,842	1.00	147	0.97	562
168	1.17	45	3,095	4,844	1.00	145	0.95	562
172	1.19	48	3,427	4,845	1.00	144	0.95	562
176	1.22	52	3,819	4,846	1.00	143	0.94	562
180	1.25	56	4,211	4,847	1.00	142	0.93	562
192	1.33	68	5,386	4,848	1.00	141	0.93	563
208	1.44	84	6,944	4,854	1.00	135	0.89	563
224	1.56	100	8,497	4,856	1.00	133	0.88	563
240	1.67	115	10,052	4,857	1.00	132	0.87	563
256	1.78	131	11,609	4,859	1.00	130	0.86	564
272	1.89	147	13,166	4,860	1.00	129	0.85	564
288	2.00	162	14,728	4,861	1.01	128	0.84	564

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SGA Target Advisory

SGA Target Size (M)	SGA Size Factor	Est DB Time (s)	Est Physical Reads
180	1.00	268	38,588
225	1.25	241	27,745
270	1.50	234	27,745
315	1.75	230	27,745
360	2.00	229	27,745

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Streams Pool Advisory

Size for Est (MB)	Size Factor	Est Spill Count	Est Spill Time (s)	Est Unspill Count	Est Unspill Time (s)
4	1.00	0	0	0	0
8	2.00	0	0	0	0
12	3.00	0	0	0	0
16	4.00	0	0	0	0
20	5.00	0	0	0	0
24	6.00	0	0	0	0
28	7.00	0	0	0	0
32	8.00	0	0	0	0
36	9.00	0	0	0	0
40	10.00	0	0	0	0
44	11.00	0	0	0	0
48	12.00	0	0	0	0
52	13.00	0	0	0	0
56	14.00	0	0	0	0
60	15.00	0	0	0	0
64	16.00	0	0	0	0
68	17.00	0	0	0	0
72	18.00	0	0	0	0
76	19.00	0	0	0	0
80	20.00	0	0	0	0

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Java Pool Advisory

No data exists for this section of the report.

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Wait Statistics

- [Buffer Wait Statistics](#)
- [Enqueue Activity](#)

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Buffer Wait Statistics

- ordered by wait time desc, waits desc

Class	Waits	Total Wait Time (s)	Avg Time (ms)
data block	3	0	0

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Enqueue Activity

No data exists for this section of the report.

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Undo Statistics

- [Undo Segment Summary](#)
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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 Concurrency	Min/Max TR (mins)	STO/OOS	uS/uR/uU/eS/eR/eU
2	0.15	894	940	3	29.7/29.7	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
16-Apr 08:55	153	894	940	3	30	0/0	0/0/0/0/0/0

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Latch Statistics

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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	1	0.00		0	0	
AQ dequeue txn counter latch	524	0.00		0	0	
ASM db client latch	402	0.00		0	0	
ASM map operation hash table	1	0.00		0	0	
ASM network state latch	9	0.00		0	0	
AWR Alerted Metric Element list	4,429	0.00		0	0	
Change Notification Hash table latch	201	0.00		0	0	
Consistent RBA	232	0.00		0	0	
DML lock allocation	3,321	0.00		0	0	
Event Group Locks	99	0.00		0	0	
FAL Queue	16	0.00		0	0	
FIB s.o chain latch	4	0.00		0	0	
FOB s.o list latch	113	0.00		0	0	
File State Object Pool Parent Latch	1	0.00		0	0	
I/O Staticstics latch	1	0.00		0	0	
IPC stats buffer allocation latch	1	0.00		0	0	
In memory undo latch	3,082	0.00		0	479	0.00
JS Sh mem access	3	33.33	1.00	0	0	
JS queue access latch	1	0.00		0	0	
JS queue state obj latch	3,630	0.00		0	0	
JS slv state obj latch	41	0.00		0	0	
KFC FX Hash Latch	1	0.00		0	0	
KFC Hash Latch	1	0.00		0	0	
KFCL LE Freelist	1	0.00		0	0	
KG NFS-NFS:SHM structure	1	0.00		0	0	
KG NFS-NFS:SVR LIST	1	0.00		0	0	
KJC message pool free list	1	0.00		0	0	

KJCT flow control latch	1	0.00		0	0	
KMG MMAN ready and startup request latch	1,234	0.00		0	0	
KMG resize request state object freelist	2	0.00		0	0	
KTF sga latch	3	0.00		0	170	0.00
KWQMN job cache list latch	8	0.00		0	0	
KWQP Prop Status	2	0.00		0	0	
KWQS pqsubs latch	5	0.00		0	0	
KWQS pqueue ctx latch	24	0.00		0	0	
Locator state objects pool parent latch	1	0.00		0	0	
Lsod array latch	1	0.00		0	0	
MQL Tracking Latch	0			0	12	0.00
Memory Management Latch	1,076	0.00		0	1,233	0.00
Memory Queue	1	0.00		0	0	
Memory Queue Message Subscriber #1	1	0.00		0	0	
Memory Queue Message Subscriber #2	1	0.00		0	0	
Memory Queue Message Subscriber #3	1	0.00		0	0	
Memory Queue Message Subscriber #4	1	0.00		0	0	
Memory Queue Subscriber	1	0.00		0	0	
MinActiveScn Latch	8	0.00		0	0	
Mutex	1	0.00		0	0	
Mutex Stats	1	0.00		0	0	
NLS data objects	2	0.00		0	0	
OS process	304	0.00		0	0	
OS process allocation	1,387	0.00		0	0	
OS process: request allocation	87	0.00		0	0	
PL/SQL warning settings	544	0.00		0	0	
PX hash array latch	1	0.00		0	0	
QMT	1	0.00		0	0	
Real-time plan statistics latch	39	0.00		0	0	
SGA IO buffer pool latch	64	0.00		0	64	0.00
SGA blob parent	1	0.00		0	0	
SGA bucket locks	1	0.00		0	0	
SGA heap locks	1	0.00		0	0	
SGA pool locks	1	0.00		0	0	
SQL memory manager latch	21	0.00		0	201	0.00
SQL memory manager workarea list latch	16,431	0.00		0	0	
Shared B-Tree	81	0.00		0	0	
Streams Generic	1	0.00		0	0	
Testing	1	0.00		0	0	
Token Manager	1	0.00		0	0	
WCR: sync	1	0.00		0	0	
Write State Object Pool Parent Latch	1	0.00		0	0	
X\$KSFQP	1	0.00		0	0	
XDB NFS Security Latch	1	0.00		0	0	
XDB unused session pool	1	0.00		0	0	

XDB used session pool	1	0.00		0	0	
active checkpoint queue latch	296	0.00		0	0	
active service list	6,456	0.00		0	690	0.00
archive control	165	0.00		0	0	
archive process latch	48	0.00		0	0	
begin backup scn array	2	0.00		0	0	
buffer pool	3	0.00		0	0	
business card	1	0.00		0	0	
cache buffer handles	628	0.00		0	0	
cache buffers chains	1,815,394	0.00	0.50	0	23,578	0.00
cache buffers lru chain	9,611	0.01	1.00	0	1,936	0.00
cache table scan latch	47	0.00		0	47	0.00
call allocation	204,416	0.00	1.00	0	0	
cas latch	1	0.00		0	0	
change notification client cache latch	1	0.00		0	0	
channel handle pool latch	90	0.00		0	0	
channel operations parent latch	4,200	0.00		0	0	
checkpoint queue latch	5,420	0.00		0	1,240	0.00
client/application info	622	0.00		0	0	
compile environment latch	54	0.00		0	0	
corrupted undo seg latch	14	0.00		0	0	
cp cmon/server latch	1	0.00		0	0	
cp pool latch	1	0.00		0	0	
cp server hash latch	1	0.00		0	0	
cp sga latch	9	0.00		0	0	
cvmap freelist lock	1	0.00		0	0	
deferred cleanup latch	9	0.00		0	0	
dml lock allocation	9	0.00		0	0	
done queue latch	1	0.00		0	0	
dummy allocation	108	0.00		0	0	
enqueue freelist latch	1	0.00		0	214,471	0.00
enqueue hash chains	218,699	0.00		0	0	
enqueues	27	0.00		0	0	
fifth spare latch	1	0.00		0	0	
file cache latch	31	0.00		0	0	
flashback copy	1	0.00		0	0	
fourth Audit Vault latch	1	0.00		0	0	
gc element	1	0.00		0	0	
gcs commit scn state	1	0.00		0	0	
gcs partitioned table hash	1	0.00		0	0	
gcs pcm hashed value bucket hash	1	0.00		0	0	
gcs resource freelist	1	0.00		0	0	
gcs resource hash	1	0.00		0	0	
gcs resource scan list	1	0.00		0	0	
gcs shadows freelist	1	0.00		0	0	
ges domain table	1	0.00		0	0	
ges enqueue table freelist	1	0.00		0	0	

ges group table	1	0.00		0	0	
ges process hash list	1	0.00		0	0	
ges process parent latch	1	0.00		0	0	
ges resource hash list	1	0.00		0	0	
ges resource scan list	1	0.00		0	0	
ges resource table freelist	1	0.00		0	0	
ges value block free list	1	0.00		0	0	
global KZLD latch for mem in SGA	18	0.00		0	0	
global ctx hash table latch	2	0.00		0	0	
global tx hash mapping	1	0.00		0	0	
granule operation	1	0.00		0	0	
hash table column usage latch	0			0	749,600	0.00
hash table modification latch	17	0.00		0	0	
heartbeat check	1	0.00		0	0	
internal temp table object number allocation latch	8	0.00		0	0	
intra txn parallel recovery	1	0.00		0	0	
io pool granule metadata list	1	0.00		0	0	
job workq parent latch	11	0.00		0	10	0.00
job_queue_processes free list latch	20	0.00		0	0	
job_queue_processes parameter latch	141	0.00		0	0	
k2q lock allocation	1	0.00		0	0	
kdlx hb parent latch	1	0.00		0	0	
kgb parent	1	0.00		0	0	
kgnfs mount latch	1	0.00		0	0	
kokc descriptor allocation latch	338	0.00		0	0	
krbmrosl	5	0.00		0	0	
ksfv messages	1	0.00		0	0	
ksim group membership cache	1	0.00		0	0	
kss move lock	13	0.00		0	0	
ksuosstats global area	69	0.00		0	0	
ksv allocation latch	33	0.00		0	0	
ksv class latch	25	0.00		0	0	
ksv msg queue latch	1	0.00		0	0	
ksz_so allocation latch	87	0.00		0	0	
ktm global data	36	0.00		0	0	
kwqbsn:qsga	31	0.00		0	0	
lgwr LWN SCN	339	0.00		0	0	
list of block allocation	62	0.00		0	0	
loader state object freelist	18	0.00		0	0	
lob segment dispenser latch	1	0.00		0	0	
lob segment hash table latch	3	0.00		0	0	
lob segment query latch	1	0.00		0	0	
lock DBA buffer during media recovery	1	0.00		0	0	
logical standby cache	1	0.00		0	0	
logminer context allocation	2	0.00		0	0	
logminer work area	1	0.00		0	0	

longop free list parent	1	0.00		0	0	
managed standby latch	16	0.00		0	0	
mapped buffers lru chain	1	0.00		0	0	
message pool operations parent latch	23	0.00		0	0	
messages	8,884	0.00		0	0	
mostly latch-free SCN	339	0.00		0	0	
msg queue latch	1	0.00		0	0	
multiblock read objects	146	0.00		0	0	
name-service namespace bucket	1	0.00		0	0	
ncodef allocation latch	9	0.00		0	0	
object queue header heap	877	0.00		0	643	0.00
object queue header operation	18,722	0.00		0	477	0.00
object stats modification	251	0.00		0	0	
parallel query alloc buffer	77	0.00		0	0	
parallel query stats	1	0.00		0	0	
parameter list	11	0.00		0	0	
parameter table management	275	0.00		0	0	
peshm	1	0.00		0	0	
pesom_free_list	1	0.00		0	0	
pesom_hash_node	1	0.00		0	0	
post/wait queue	989	0.00		0	939	0.00
process allocation	113	0.00		0	44	0.00
process group creation	87	0.00		0	0	
process queue	1	0.00		0	0	
process queue reference	1	0.00		0	0	
qmn task queue latch	87	0.00		0	0	
query server freelists	1	0.00		0	0	
queued dump request	2	0.00		0	0	
queuing load statistics	1	0.00		0	0	
recovery domain hash list	1	0.00		0	0	
redo allocation	1,523	0.00		0	3,820	0.00
redo copy	1	0.00		0	3,820	0.00
redo writing	1,423	0.00		0	0	
resmgr group change latch	38	0.00		0	0	
resmgr:active threads	110	0.00		0	0	
resmgr:actses change group	35	0.00		0	0	
resmgr:actses change state	1	0.00		0	0	
resmgr:free threads list	107	0.00		0	0	
resmgr:plan CPU method	1	0.00		0	0	
resmgr:resource group CPU method	1	0.00		0	0	
resmgr:schema config	3	0.00		0	0	
resmgr:session queuing	1	0.00		0	0	
rm cas latch	1	0.00		0	0	
row cache objects	4,067,658	0.00	1.02	0	5,379	0.02
rules engine rule set statistics	100	0.00		0	0	
second Audit Vault latch	1	0.00		0	0	
second spare latch	1	0.00		0	0	

sequence cache	123	0.00		0	0	
session allocation	2,547	0.00		0	0	
session idle bit	8,305	0.00		0	0	
session queue latch	1	0.00		0	0	
session state list latch	92	0.00		0	0	
session switching	53	0.00		0	0	
session timer	200	0.00		0	0	
shared pool	5,915,828	0.00	1.06	0	0	
shared pool sim alloc	884	0.11	1.00	0	0	
shared pool simulator	414,212	0.00	1.00	0	0	
sim partition latch	1	0.00		0	0	
simulator hash latch	14,925	0.00		0	0	
simulator lru latch	410	0.00		0	13,965	0.01
sort extent pool	36	0.00		0	0	
space background state object latch	2	0.00		0	0	
space background task latch	1,818	0.00		0	408	0.00
state object free list	2	0.00		0	0	
statistics aggregation	336	0.00		0	0	
tablespace key chain	1	0.00		0	0	
temp lob duration state obj allocation	2	0.00		0	0	
temporary table state object allocation	1	0.00		0	0	
test excl. parent l0	1	0.00		0	0	
test excl. parent2 l0	1	0.00		0	0	
third spare latch	1	0.00		0	0	
threshold alerts latch	20	0.00		0	0	
trace latch	2	0.00		0	0	
transaction allocation	838	0.00		0	0	
undo global data	1,388	0.00		0	0	
virtual circuit buffers	1	0.00		0	0	
virtual circuit holder	1	0.00		0	0	
virtual circuit queues	1	0.00		0	0	

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Latch Sleep Breakdown

- ordered by misses desc

Latch Name	Get Requests	Misses	Sleeps	Spin Gets
shared pool	5,915,828	110	117	0
row cache objects	4,067,658	51	52	1
call allocation	204,416	3	3	0
cache buffers chains	1,815,394	2	1	1
JS Sh mem access	3	1	1	0
cache buffers lru chain	9,611	1	1	0
shared pool sim alloc	884	1	1	0

shared pool simulator	414,212	1	1	0
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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
JS Sh mem access	jsksGetShMemLatch	0	1	1
cache buffers chains	kcbgcur_2	0	1	0
cache buffers lru chain	kcbzgws_1	0	1	1
call allocation	ksudlc : rec call	0	2	2
call allocation	ksuprc	0	1	2
row cache objects	kqreqd: reget	0	46	0
row cache objects	kqrpre: find obj	0	4	49
row cache objects	kqrpre: init complete	0	1	3
row cache objects	kqrso	0	1	0
shared pool	kghalo	0	65	39
shared pool	kghalp	0	27	34
shared pool	kghupr1	0	21	34
shared pool	kghfre	0	3	0
shared pool	kghasp	0	1	0
shared pool sim alloc	kglsim_chk_heaplist: alloc	0	1	1
shared pool simulator	kglsim_upd_newhp	0	1	0

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Mutex Sleep Summary

- ordered by number of sleeps desc

Mutex Type	Location	Sleeps	Wait Time (ms)
Cursor Pin	kksfbc [KKSCHLFSP2]	19	0
Cursor Pin	kkslce [KKSCHLPIN2]	3	0
Library Cache	kgllkd1 85	2	0
Library Cache	kgldgh1 64	1	0
Cursor Pin	kksfbc [KKSCHLPIN1]	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

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Segments by Logical Reads

- Total Logical Reads: 931,944
- Captured Segments account for 93.3% of Total

Owner	Tablespace Name	Object Name	Subobject Name	Obj. Type	Logical Reads	%Total
ADAM	USERS	T		TABLE	700,000	75.11
SYS	SYSTEM	I_HH_OBJ#_INTCOL#		INDEX	14,976	1.61
SYS	SYSTEM	ICOL\$		TABLE	10,304	1.11
SYS	SYSTEM	I_ARGUMENT2		INDEX	9,408	1.01
SYS	SYSTEM	SYS_C00643		INDEX	9,168	0.98

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Segments by Physical Reads

- Total Physical Reads: 7,757
- Captured Segments account for 58.7% of Total

Owner	Tablespace Name	Object Name	Subobject Name	Obj. Type	Physical Reads	%Total
SYS	SYSTEM	IDL_UB1\$		TABLE	1,213	15.64
SYS	SYSTEM	OBJ\$		TABLE	589	7.59
SYS	SYSTEM	IDL_UB2\$		TABLE	540	6.96
SYS	SYSTEM	ICOL\$		TABLE	363	4.68
SYSMAN	SYSAUX	MGMT_METRICS		TABLE	250	3.22

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Segments by Physical Read Requests

- Total Physical Read Requests: 7,016
- Captured Segments account for 57.1% of Total

Owner	Tablespace Name	Object Name	Subobject Name	Obj. Type	Phys Read Requests	%Total
SYS	SYSTEM	IDL_UB1\$		TABLE	1,213	17.29
SYS	SYSTEM	IDL_UB2\$		TABLE	540	7.70
SYS	SYSTEM	ICOL\$		TABLE	363	5.17
SYS	SYSTEM	OBJ\$		TABLE	237	3.38
SYS	SYSTEM	I_OBJ2		INDEX	193	2.75

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Segments by UnOptimized Reads

- Total UnOptimized Read Requests: 7,016
- Captured Segments account for 57.1% of Total

Owner	Tablespace Name	Object Name	Subobject Name	Obj. Type	UnOptimized Reads	%Total
SYS	SYSTEM	IDL_UB1\$		TABLE	1,213	17.29
SYS	SYSTEM	IDL_UB2\$		TABLE	540	7.70
SYS	SYSTEM	ICOL\$		TABLE	363	5.17
SYS	SYSTEM	OBJ\$		TABLE	237	3.38
SYS	SYSTEM	I_OBJ2		INDEX	193	2.75

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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

- Total Direct Physical Reads: 686
- Captured Segments account for 87.8% of Total

Owner	Tablespace Name	Object Name	Subobject Name	Obj. Type	Direct Reads	%Total
SYS	SYSTEM	OBJ\$		TABLE	404	58.89
SYSMAN	SYSAUX	MGMT_METRICS		TABLE	198	28.86

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Segments by Physical Writes

- Total Physical Writes: 1,035
- Captured Segments account for 25.8% of Total

Owner	Tablespace Name	Object Name	Subobject Name	Obj. Type	Physical Writes	%Total
SYS	SYSAUX	WRH\$_SQL_PLAN		TABLE	38	3.67
SYS	SYSAUX	WRH\$_SYSSTAT_PK	WRH\$_SYSSTA_2003897072_0	INDEX PARTITION	35	3.38
SYS	SYSAUX	WRH\$_SQL_PLAN_PK		INDEX	22	2.13
SYS	SYSAUX	WRH\$_LATCH	WRH\$_LATCH_2003897072_0	TABLE PARTITION	20	1.93
SYSMAN	SYSAUX	MGMT_DB_INIT_PARAMS_ECM_PK		INDEX	13	1.26

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Segments by Physical Write Requests

- Total Physical Write Requestss: 829
- Captured Segments account for 24.4% of Total

Owner	Tablespace Name	Object Name	Subobject Name	Obj. Type	Phys Write Requests	%Total
SYS	SYSAUX	WRH\$_SQL_PLAN_PK		INDEX	21	2.53
SYS	SYSAUX	WRH\$_SYSSTAT_PK	WRH\$_SYSSTA_2003897072_0	INDEX PARTITION	21	2.53
SYS	SYSAUX	WRH\$_LATCH	WRH\$_LATCH_2003897072_0	TABLE PARTITION	20	2.41
SYS	SYSAUX	WRH\$_SQL_PLAN		TABLE	16	1.93
SYS	SYSAUX	WRH\$_LATCH_PK	WRH\$_LATCH_2003897072_0	INDEX PARTITION	13	1.57

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Segments by Direct Physical Writes

- Total Direct Physical Writes: 3

- Captured Segments account for 66.7% of Total

Owner	Tablespace Name	Object Name	Subobject Name	Obj. Type	Direct Writes	%Total
SYS	SYSAUX	SYS_LOB0000006324C00038\$\$		LOB	2	66.67

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Segments by Table Scans

- Total Table Scans: 13
- Captured Segments account for 30.8% of Total

Owner	Tablespace Name	Object Name	Subobject Name	Obj. Type	Table Scans	%Total
SYS	SYSTEM	I_OBJ1		INDEX	1	7.69
SYS	SYSTEM	I_OBJ2		INDEX	1	7.69
SYSMAN	SYSAUX	MGMT_METRICS		TABLE	1	7.69
SYS	SYSTEM	OBJ\$		TABLE	1	7.69

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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
SYS	SYSAUX	WRH\$_SQL_PLAN		TABLE	464	29.59
SYS	SYSAUX	WRH\$_SQL_PLAN_PK		INDEX	400	25.51
SYSMAN	SYSAUX	MGMT_DB_INIT_PARAMS_ECM_PK		INDEX	128	8.16
SYS	SYSAUX	WRM\$_SNAPSHOT_DETAILS		TABLE	96	6.12
SYS	SYSAUX	WRH\$_SYSSTAT_PK	WRH\$_SYSSTA_2003897072_0	INDEX PARTITION	64	4.08

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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
SYSMAN	SYSAUX	MGMT_JOB_EXEC_IDX04		INDEX	2	66.67
SYSMAN	SYSAUX	MGMT_JOB_EXECUTION		TABLE	1	33.33

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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	13	0.00	0		2	1
dc_files	8	50.00	0		0	0
dc_global_oids	1,537	7.09	0		0	44
dc_histogram_data	13,397	11.69	0		0	337
dc_histogram_defs	181,962	4.11	0		2	1,573
dc_object_grants	259	12.36	0		0	29
dc_objects	341,759	0.69	0		3	1,027
dc_profiles	28	14.29	0		0	1
dc_rollback_segments	82	0.00	0		0	12
dc_segments	407,787	0.21	0		12	262
dc_sequences	12	100.00	0		12	0
dc_tablespaces	151,389	0.01	0		0	5
dc_users	263,091	0.03	0		0	39
global database name	437	0.23	0		0	1
outstanding_alerts	3	100.00	0		0	0

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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	36	16.67	0		0	0
APP CONTEXT	1	0.00	385	0.26	1	0
BODY	232	16.81	1,889	6.72	83	0
CLUSTER	417	1.92	429	1.86	0	0
DBLINK	36	16.67	0		0	0
EDITION	33	21.21	61	22.95	0	0
INDEX	27	85.19	27	85.19	0	0
OBJECT ID	1	100.00	0		0	0
QUEUE	13	0.00	1,728	0.46	7	0
SCHEMA	2,172	0.28	0		0	0
SQL AREA	308,063	66.55	455,480	67.16	1,440	34
SQL AREA BUILD	102,527	99.38	0		0	0
SQL AREA STATS	101,494	99.90	101,494	99.90	0	0
SUBSCRIPTION	1	0.00	1	100.00	1	0
TABLE/PROCEDURE	112,073	1.63	522,187	1.05	2,261	0
TRIGGER	17	11.76	76	22.37	15	0

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Memory Statistics

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- [Memory Resize Operations Summary](#)
- [Memory Resize Ops](#)
- [Process Memory Summary](#)
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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	0.00	0.00	0.00	0.00	0	STA/

cache						
DEFAULT buffer cache	20.00	16.00	16.00	20.00	1	SHR/IMM
KEEP buffer cache	0.00	0.00	0.00	0.00	0	STA/
PGA Target	120.00	120.00	120.00	120.00	0	STA/
RECYCLE buffer cache	0.00	0.00	0.00	0.00	0	STA/
SGA Target	180.00	180.00	180.00	180.00	0	STA/
Shared IO Pool	0.00	0.00	0.00	0.00	0	STA/
java pool	4.00	4.00	4.00	4.00	0	STA/
large pool	4.00	4.00	4.00	4.00	0	STA/
shared pool	140.00	144.00	140.00	144.00	1	GRO/IMM
streams pool	4.00	4.00	4.00	4.00	0	STA/

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Memory Resize Operations Summary

- Resizes, Grows, Shrinks - Operations captured by AWR if there are operations on the same component for the same operation_type, target_size, and with the same start_time only one operation is captured
- ordered by Component

Component	Min Size (Mb)	Max Size (Mb)	Avg Size (Mb)	Re- Sizes	Grows	Shrinks
DEFAULT buffer cache	16.00	16.00	16.00	1	0	1
shared pool	144.00	144.00	144.00	1	1	0

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Memory Resize Ops

- Oper Types/Modes: INitializing,GROw,SHRink,STAtic/IMMediate,DEFerred Delta : change in size of the component Target Delta: displayed only if final size <> target_size
- Status: COMplete/CANcelled/INActive/PENding/ERRor
- ordered by start_time desc,component

Start	Ela (s)	Component	Oper Typ/Mod	Init Size (M)	Delta	Target Delta	Final (M)	Sta
04/16 08:52:45	0	bufcache	SHR/IMM	20	-4		16	COM
04/16 08:52:45	0	shared	GRO/IMM	140	4		144	COM

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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	155.66		3.46	4.90	18	19	45	45
B	PL/SQL	16.70	14.71	0.37	0.68	2	3	45	45
B	Freeable	16.31	0.00	0.82	0.98	4		20	20
B	SQL	2.38	0.27	0.09	0.06	0	22	28	26
E	Other	160.03		3.48	4.94	18	18	46	46
E	Freeable	23.19	0.00	1.05	0.98	5		22	22
E	PL/SQL	17.70	15.39	0.38	0.68	2	3	46	46
E	SQL	2.39	0.17	0.08	0.05	0	22	30	28

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SGA Memory Summary

SGA regions	Begin Size (Bytes)	End Size (Bytes) (if different)
Database Buffers	20,971,520	16,777,216
Fixed Size	2,227,944	
Redo Buffers	4,747,264	
Variable Size	285,212,952	289,407,256

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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	4.00	4.00	0.00
large	PX msg pool	0.47	0.47	0.00
large	free memory	3.53	3.53	0.00
shared	ASH buffers	2.00	2.00	0.00
shared	KCB Table Scan Buffer	3.80	3.80	0.00
shared	KGLH0	14.70	14.80	0.66
shared	KGLHD	3.54	3.61	2.00
shared	KGLS	2.59	2.44	-5.68
shared	KGLSG	5.02	5.02	0.00
shared	KKSSP	2.71	2.85	4.90
shared	KSFD SGA I/O b	3.79	3.79	0.00
shared	PLMCD	2.85	3.22	12.92
shared	SQLA	8.59	6.61	-23.01
shared	dbktb: trace buffer	1.56	1.56	0.00
shared	event statistics per sess	2.15	2.15	0.00
shared	free memory	35.30	36.33	2.91
shared	kglsim hash table bkts	4.00	4.00	0.00

shared	kglsim heap		1.73	
shared	kglsim object batch		2.95	
shared	ksunfy : SSO free list	2.00	2.00	0.00
shared	obj stats allocation chun	2.46	2.46	0.00
shared	private strands	2.34	2.34	0.00
shared	row cache	7.24	7.24	0.00
streams	KTG hash buckets	1.26	1.26	0.00
streams	free memory	2.74	2.74	0.00
	buffer_cache	20.00	16.00	-20.00
	fixed_sga	2.12	2.12	0.00
	log_buffer	4.53	4.53	0.00

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Streams Statistics

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Streams CPU/IO Usage

- Streams processes ordered by CPU Time, descending

Session Type	First Logon	CPU time(s)	User IO Wait time(s)	SYS IO Wait time(s)
QMON Slaves	0416 08:15:31	0.02	0.00	0.00
QMON Coordinator	0416 08:15:21	0.01	0.00	0.00

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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

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Buffered Queues

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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

- Ordered by Queue Name
- * indicates queue (re)started between Begin/End snaps
- %Exp Msgs - % of msgs enqueued with expiry
- %Delay Msgs - % of msgs enqueued with delay
- %Trasf Time - % of Enqueue time spent in transformation
- %Eval Time - % of Enqueue time spent in rule evaluation

Queue Name	Enq Msgs	Deq Msgs	%Exp Msgs	%Delay Msgs	Enq Time(s)	Deq Time(s)	%Transf Time	%Eval Time
SYS.ALERT_QUE(12718)	0	0			0.00	0.00		
SYSMAN.MGMT_NOTIFY_Q(13906)	0	0			0.00	0.00		
SYSMAN.MGMT_TASK_Q(13576)	11	11	0.00	0.00	0.04	0.08	0.00	0.00

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Persistent Queues Rate

- Ordered by Queue Name
- * indicates queue (re)started between Begin/End snaps

Queue Name	Enqueue Msgs/sec	Dequeue Msgs/sec	Avg Enqueue sec / msg	Avg Dequeue sec / msg
SYS.ALERT_QUE(12718)	0.00	0.00		
SYSMAN.MGMT_NOTIFY_Q(13906)	0.00	0.00		
SYSMAN.MGMT_TASK_Q(13576)	0.02	0.02	0.00	0.01

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Persistent Queue Subscribers

- Ordered by Queue Name, Subscriber Name
- * indicates Subscriber activity (re)started between Begin/End snaps

Subscriber/Queue	Enqueue Msgs	Dequeue Msgs	Expire Msgs	Enqueue Msgs/sec	Dequeue Msgs/sec	Expire Msgs/sec
HAE_SUB(1)/SYS.ALERT_QUE	0	0	0			
UHESSE1_LOCAL_3938_PRIMA(41)/SYS.ALERT_QUE	0	0	0	0.00	0.00	0.00

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Resource Limit Stats

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Shared Server Statistics

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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	0	0	0	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

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Shared Servers Common Queue

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Shared Servers Dispatchers

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init.ora Parameters

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init.ora Parameters

Parameter Name	Begin value	End value (if different)
compatible	11.2.0.3	
control_files	/home/oracle/prima/control01.ctl	
db_block_size	8192	
db_domain		
db_name	prima	
db_recovery_file_dest	/home/oracle/flashback	
db_recovery_file_dest_size	5368709120	
diagnostic_dest	/home/oracle/prima	
memory_target	314572800	
parallel_degree_policy	MANUAL	
processes	100	
remote_login_passwordfile	EXCLUSIVE	
standby_file_management	auto	
undo_management	AUTO	
undo_tablespace	undotbs1	

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init.ora Multi-Valued Parameters

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Dynamic Remastering Stats

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End of Report