

System Statistics

V\$SYSSTAT

- statistic#
- name
- class ←
- value
- stat_id

V\$SYSTEM_WAIT_CLASS

- wait_class_id
- wait_class#
- wait_class
- total_waits
- time_waited

V\$SGASTAT

- pool
- name
- bytes

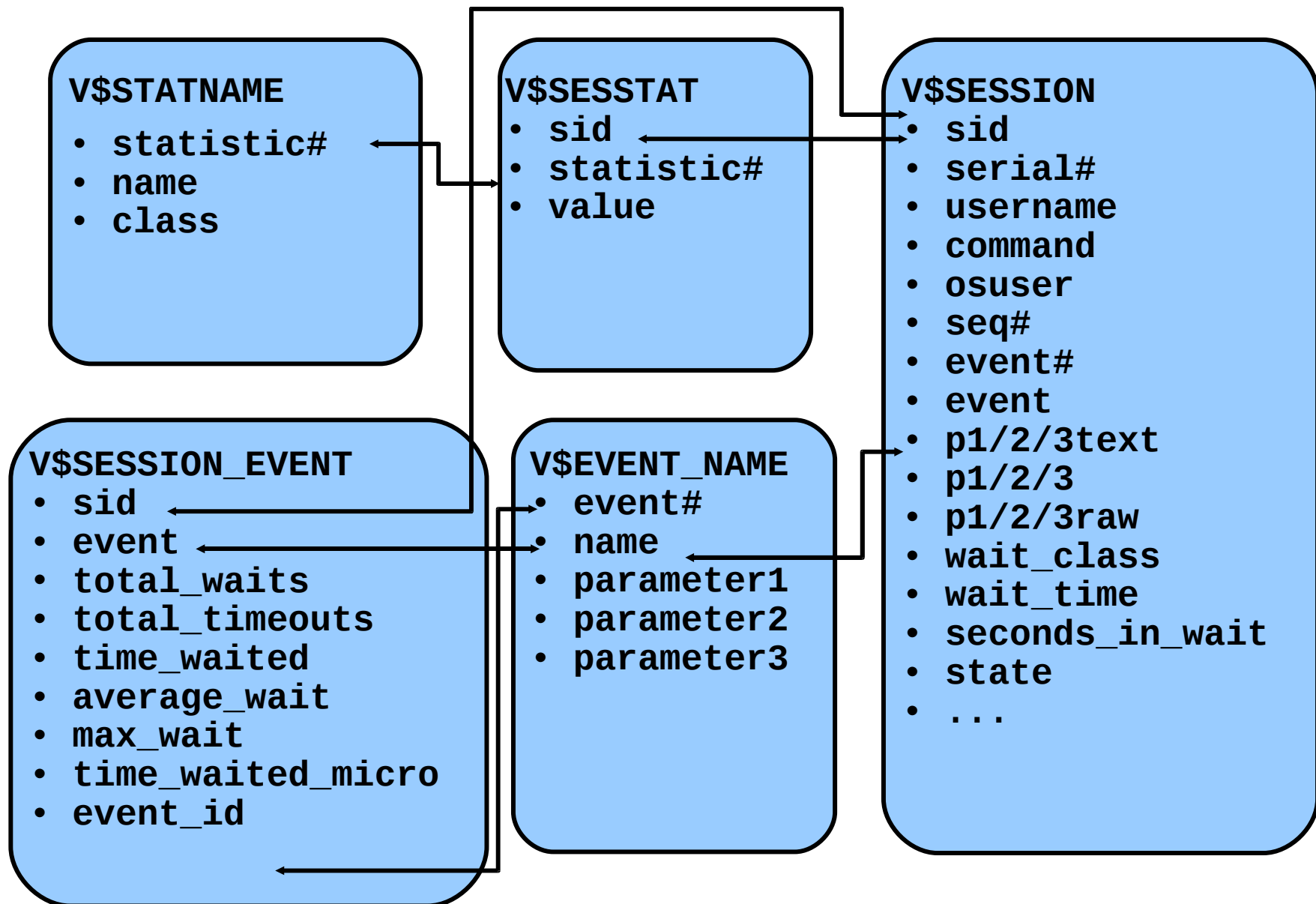
V\$EVENT_NAME

- event_number
- event_id
- name ←
- parameter1
- parameter2
- parameter3
- wait_class

V\$SYSTEM_EVENT

- event
- total_waits
- total_timeouts
- time_waited
- average_wait
- time_waited_micro

Displaying Session-Related Statistics



Troubleshooting and Tuning Views

Instance/Database

V\$DATABASE
V\$INSTANCE
V\$PARAMETER
V\$SPPARAMETER
V\$SYSTEM_PARAMETER
V\$PROCESS
V\$BGPROCESS
V\$PX_PROCESS_SYSSTAT
V\$SYSTEM_EVENT

Disk

V\$DATAFILE
V\$FILESTAT
V\$LOG
V\$LOG_HISTORY
V\$DBFILE
V\$TEMPFILE
V\$TEMPSEG_USAGE
V\$SEGMENT_STATISTICS

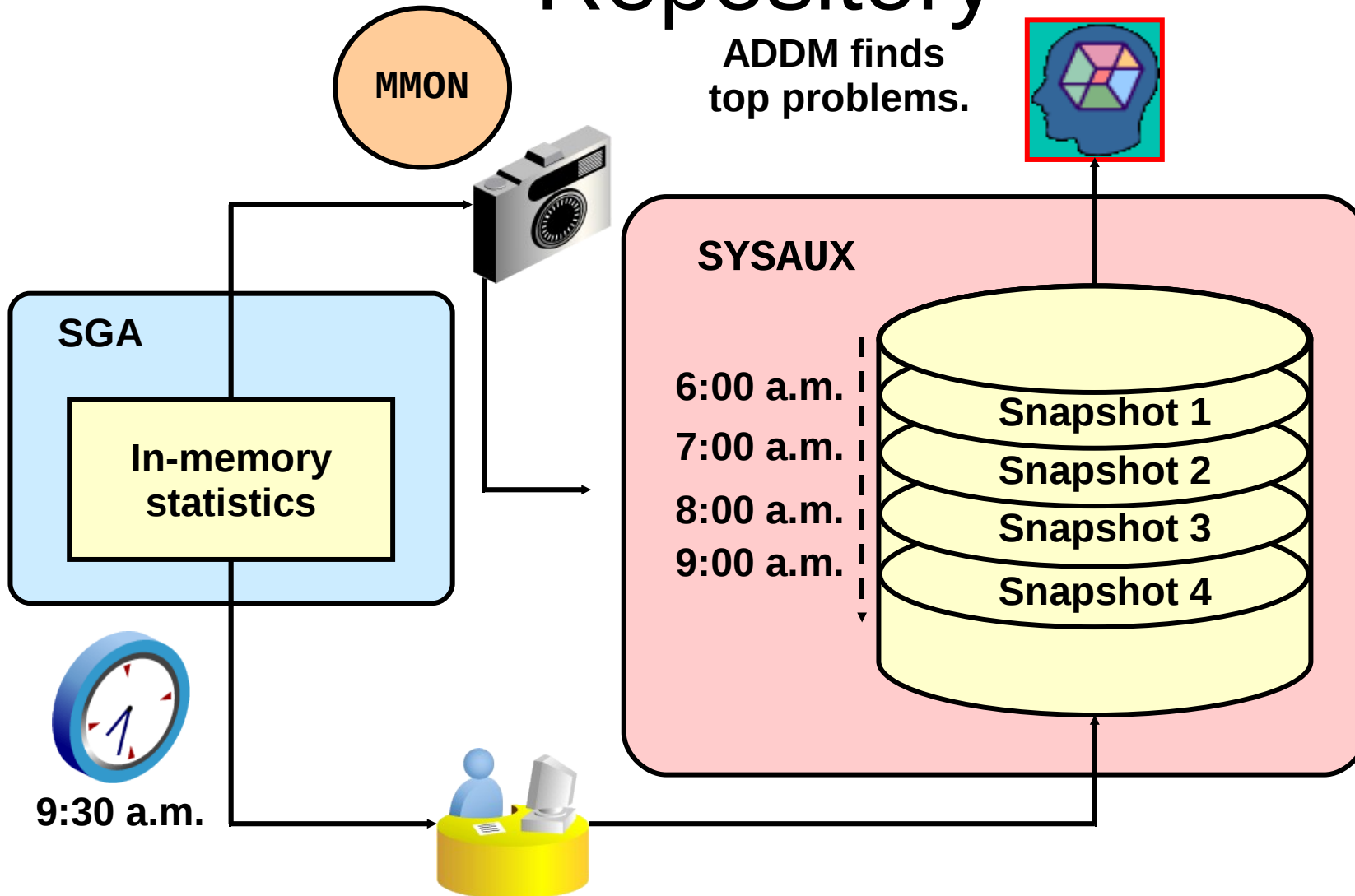
Memory

V\$BUFFER_POOL_STATISTICS
V\$LIBRARYCACHE
V\$SGAINFO
V\$PGASTAT

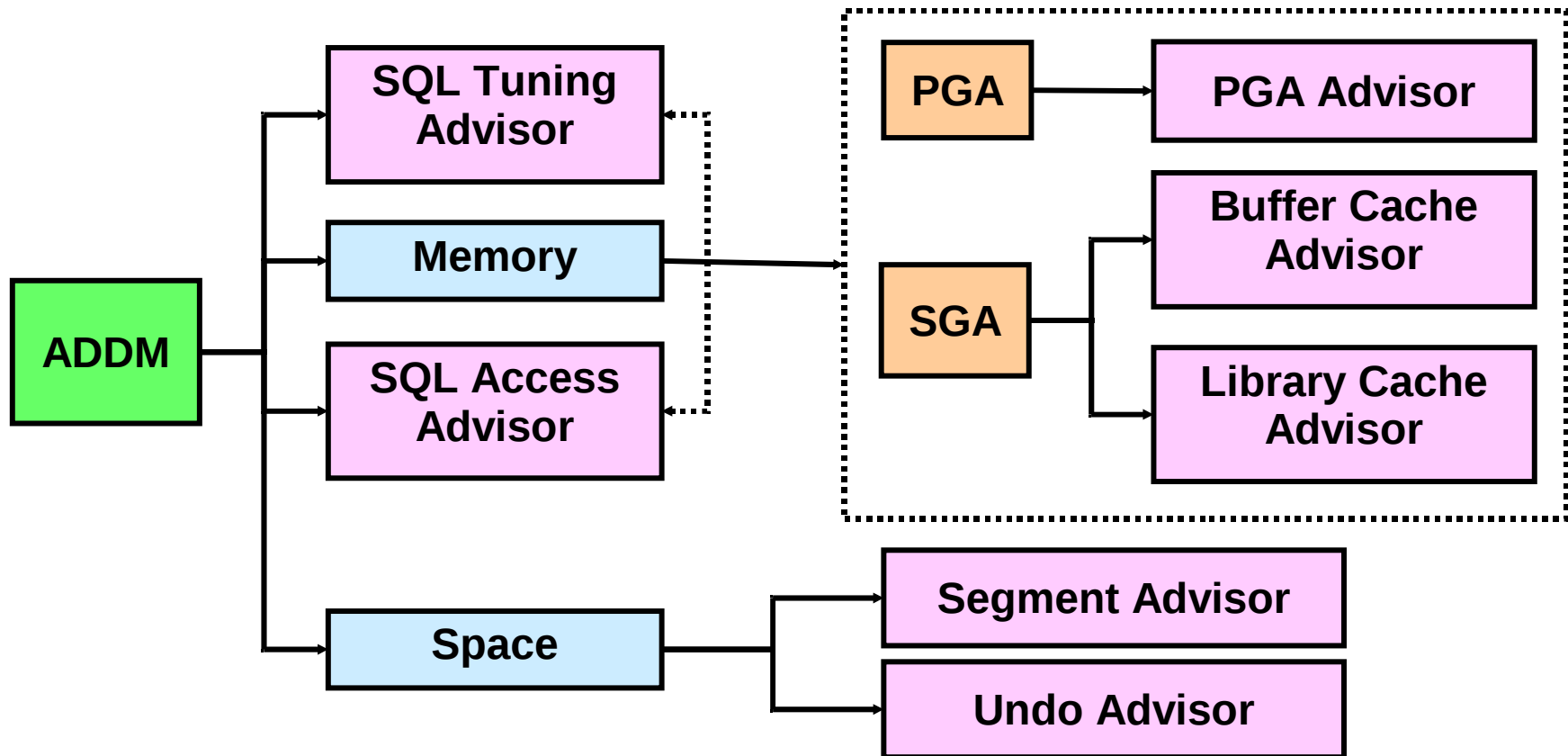
Contention

V\$LOCK
V\$UNDOSTAT
V\$WAITSTAT
V\$LATCH

Automatic Workload Repository

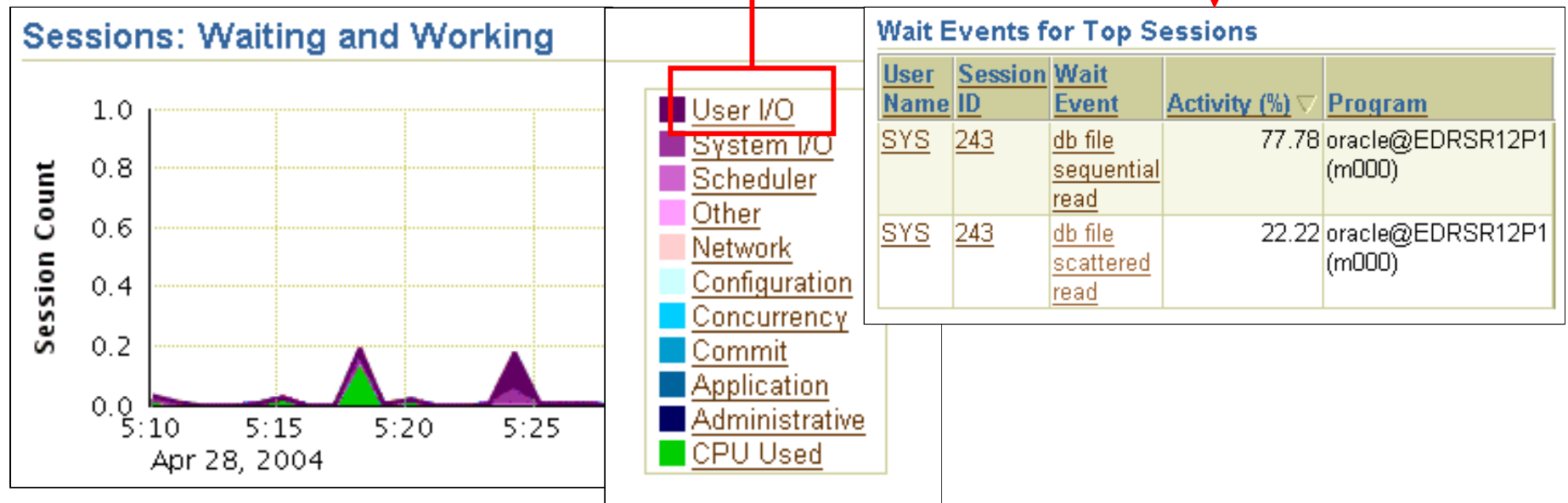


Advisory Framework: Overview



Oracle Wait Events

- A collection of wait events provides information about the sessions or processes that had to wait or must wait for different reasons.
- These events are listed in the V\$EVENT_NAME view.



Using the Memory Advisor to Size the SGA

Database Instance: orcl.oracle.com > Memory Parameters

Memory Parameters

Page Refreshed September 13, 2005 11:16:45 AM PDT

Refresh

Show SQL

Revert

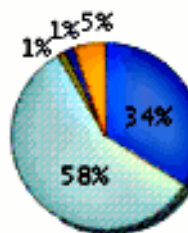
Apply

SGA PGA

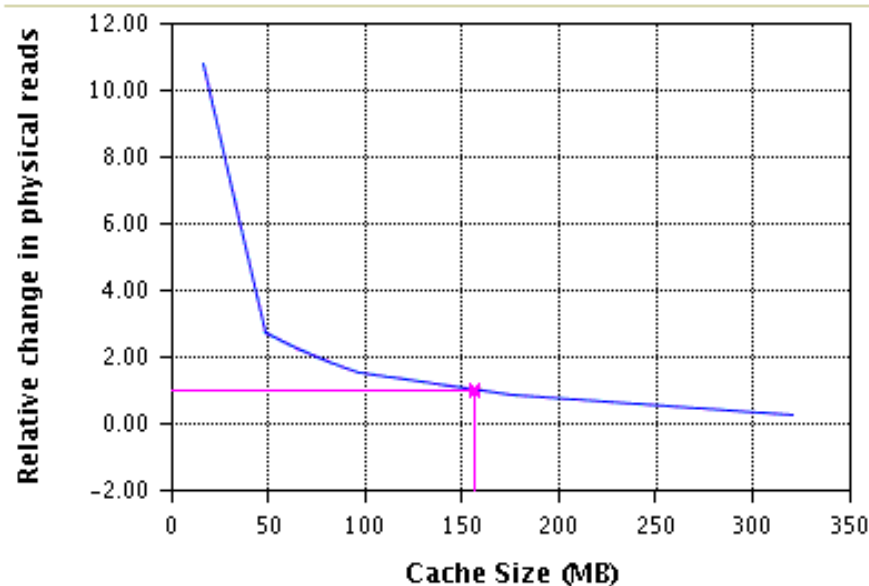
The System Global Area (SGA) is a group of shared memory structures control information for one Oracle database. The SGA is allocated in memory when the database instance is started.

Automatic Shared Memory Management **Disabled**

Shared Pool	92	MB	<input type="button" value="Advice"/>
Buffer Cache	156	MB	<input type="button" value="Advice"/>
Large Pool	4	MB	
Java Pool	4	MB	
Other (MB)	14		
Total SGA (MB)	270		<input type="button" value="Calculate"/>



Buffer Cache Size Advice



- Change in physical reads for various cache sizes
- ✕ Current cache size

Cache Size (MB) **156**

☒ **TIP** You can click on the curve in the graph to set new value.