DBA Act for Oracle

User's Guide

Version 2.2.1

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DBA InfoPower, Inc.

666 Pomeroy Avenue

Santa Clara, CA 95051

Web site: www.dbainfopower.com

Email: info@dbainfopower.com

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Introduction

This chapter describes how to use this guide. It also explains how to contact DBA InfoPower and get technical support.

Special conventions used in this guide

This guide uses the following typographic conventions:

Example	Description
The **Chart** button	Bold is utilized for the literal names of interface objects used to perform actions (for example, toolbar button names, menu names, icon names, dialog box options, and dialog box titles).
View -> Swap Panels	The arrow symbol indicates menu path. In this example, choose View, and then choose Swap Panels from the View menu
Variable	italic type indicates a placeholder for information that needs to be provided

Example	Description
Press ENTER	Names of keyboard keys appear in capital letters.
Press ALT + F1	A plus sign (+) between key names indicates that keys are to be pressed in combination. For example, ALT+F1 means to hold down the ALT key while pressing the F1 key.
Press the DOWN	Direction keys are referred to by the direction of the arrow
ARROW key	LEFT, RIGHT, UP or DOWN keys

Guide in PDF format

This guide is provided in Adobe Acrobat portable document format. The PDF file is included in DBA Act installation package. To view the PDF file, you need Adobe Acrobat Reader version 6.0 or higher. Adobe Acrobat reader is available on the Adobe Web site at: http://www.adobe.com/

Additional information

DBA InfoPower product information

You can contact DBA InfoPower for product information in any of the following ways:

Web page: http://www.dbainfopower.com

E-mail (sales & marketing) sales@dbainfopower.com

Contacting customer support

DBA InfoPower support team is dedicated to ensuring successful product installation and use for all DBA InfoPower solutions.

Support Link: http://www.dbainfopower.com/dbaip_support.php

E-mail: support@dbainfopower.com

DBA Act support

Should you encounter any problems with DBA Act, follow these steps:

1. Copy contents of the DBA Act execution console to a diagnostics text file
2. Capture picture of an error to an image file
3. Copy contents of the DBA Act error message to the diagnostics text file
4. E-mail these files to support@dbainfopower.com with your request for assistance

DBA InfoPower, Inc. enables business continuity

In today's economy, businesses rely on information contained in their databases to take orders, process requests and provide information to their employees, customers and partners. Accordingly, it is vital for businesses to ensure uninterrupted reliable operation of their databases.

Databases have, however, become increasingly complex and hard to manage. There is an unprecedented amount of data stored by today's enterprises, creating an increasing strain on their databases. Databases are also being accessed more frequently for a growing number of purposes.

The combination of database importance and complexity of managing database infrastructure has created a demand for products that can improve database performance and availability. Even brief database failures can now cost millions of dollars to companies.

To help businesses mitigate these problems and provide reliable uninterrupted service, DBA InfoPower developed a line of products that improve database performance, availability and manageability.

With DBAip's solution, enterprises can improve database performance, avoid costly downtime and other service interruptions, and make IT personnel more efficient in preventing and managing problem escalations and daily database operations.

DBAip's solutions should deliver immediate return on investment for their enterprise customers as they allow more efficient and effective use of customers' critical database resources.

Welcome to DBA Act for Oracle

DBA Act™ is a complete real-time problem drilldown, containment and resolution product that enable rapid discovery and management of database overload causes, replacing complex, time-consuming and error-prone manual performance problem analysis and resolution.

Unique analytical capabilities and interface of DBA Act provide you with a clear visualization and analysis of real-time activity on your database. Real time performance sampling identifies wide variety of bottlenecks that causing changes in database performance, while actionable functions enable reliable and precise halting of offensive sessions in order to prevent database downtime.

This chapter explains main features of DBA Act for Oracle.

Overview of DBA Act for Oracle

Real Time Performance Drilldown/Diagnosis Section

```
-bash-2.05b$ dbact help diag

     Copyright (C) 2001-2006 DBA InfoPower Inc.

     dbact v. 2.1.1.

     Usage: dbact <command> [<arguments>]

     diag command is either:

     - 2pc                           2 phase commit pending transactions
     - bc                            view contents of buffer cache
     - cursors [all] <match_str>     all parsed cursors
     - ddllock                       current DDL locks
     - dfdue                         estimate when tablespaces would need more datafiles
     - dba2info <dba in hex>         decode dba into file number, block number, file name and segment name
     - dump                          dump systemstate, library_cache, heapdump and hanganalyze
     - eventcnt                      events,p1,p2,p2 for which processes having events
     - execute                       cursors currently being executed
     - fplan <file_name> [<usr/pwd>] create explain plan using provided SQL file (single SQL)
     - hard                          provide basic information on server hardware configuration
     - hidf                          dispaly datafiles with the ihighest I/O rate
     - hifs                          dispaly file systems with the ihighest I/O rate
     - hiexecs <period> <# of SQL>   display SQL with the high execution rate
     - hisev   ev+patti min_value    display sessions for given event name pattern and value over the min. value
     - histats stat# min_value       display sessions for given statistic# and value over the min. value
     - hplan hash_value              get expl. plan from v\\$sql_plan for a given hash_value
     - killmachine 'machine' <number> kill sessions initiated by database client pattern, having min. number of sessions
     - latch                         current latches
     - latchaddr                     latch detail by sql addr
     - latchname                     latch name by pattern
     - locks                         current locks
     - longops                       run progression monitor against session_longops table
     - longtran                      currently long running transactions
     - machine [sql|<hash_value>]    get a) machines & connections (no param) b) machines, executing hash_value sql
     - machine [stat|ev max_value]       c) machines with high statistic# or event
     - newsql <minutes> [sort#]      display information about new sql in shared pool, starting <minutes> ago
     - pga                           tell how much pga memory is used
     - plan hash_value user [sp]     get expl. plan for a given hash_value (before 9i) , sp - search for a hash in statspack
     - pid2sid                       display sid/serial# for the given pid
     - pid2m                         display machine     for the given pid
     - pid process_id                get last sql related to unix pid of the session
     - pidtrace pid on/off           trace oracle session by pid, using 10046 event,level 12
     - plsql <name|owner|type>       display PLSQL objects and object code
     - pools                         buffer pool information
     - process                       display process info with pga memory
     - pq                            information about running parallel queries
     - ps                            get all oracle processes
     - rt                            get database response time breakdown
     - rm                            get resource manager information
     - sessions                      currently open sessions
     - shpinfo <internal>            display shared pool information
     - shpfree                       display shared pool free memory per bucket fragmentation
     - sid                           display sid related information
     - sid libblock                  show sessions holding locks in the library cache
     - sid trans                     transaction details by sid
     - sid users                     user        details by sid
     - sid2pid <sid> <serial#>       display pid for the given sid and serial#
     - sga                           tell how much sga memory is used
     - smm                           SQL memory manager stats for active workareas
     - smu                           view smu stats from v$undostat
     - snap                          view all snapshots status
     - sql hvalue                    view sql information for a given hash value
     - sqltest hvalue                view sqltext for a given hash value
     - sql     hvalue                view sqltext and performance information for a given hash value
     - sqllike pattern               view sqltext like pattern
     - sqlver                        show sql with the high version number/unbound SQL
     - space <tbs>                   view used/free space for a given tbs
     - spdiff                        call spdiff utility to generate statspack comparison report
     - tempu                         view used space in temp tbs for a user
     - top <number>                  get last sql related to top CPU processes
     - tracemachine <mach_nm> on/off  trace all oracle sessions for given machine pattern, using 10046, level 12
```

Actionable Functions Section

```
-bash-2.05b$ dbact help act

      Copyright (C) 2001-2006 DBA InfoPower Inc.

      dbact v. 2.1.1.

      Usage: dbact <command> [<arguments>]

      act command is either:

      - flush                          flush shared pool
      - killblock <now>                kill session, holding blocking lock, generate SQL only, <now> - execute immediately
      - killenq                        kill sessions, waiting for an enqueue
      - killfts                        kill sessions, executing full table scan SQL
      - killidle <idle_time,min>       kill oracle sessions, idle for over the idle_time (default 30 Minutes)
      - killtop <number>               kill top CPU consuming client processes
      - killtran <minutes> [now]       kill long running transactions, generate SQL only, now - execute immediately
      - killmachine 'machine' <number> kill sessions initiated by database client pattern, having min. number of sessions
      - killshadow  'Pattern'          kill oracle background processes based on a pattern from the "ps -ef" output
      - killsessions [all]             Show sessions, build "alter system kill session" all - show all sessions, not just active
      - killsql hash_value             kill sessions, executing given sql hash value
```

Actionable functions section enables users to instantly act on located in real-time severe database bottlenecks, which may be groups of sessions or application servers (machines).

Dictionary Access Section

```
-bash-2.05b$ dbact help dict

      Copyright (C) 2001-2006 DBA InfoPower Inc.

      dbact v. 2.1.1.

      Usage: dbact <command> [<arguments>]

      dict command is either:

      - badobj                         check what database objects are in invalid status
      - colstats <user/passwd>         stats for each table, column
      - collike <pattern>              show all column names contained in pattern
      - degree   <user/passwd>         degree of objects for a given user
      - desc     <tabname>/<package>   describe table or package structure
      - fixedVs                        show all v\$ tables (v$)
      - fixedXs                        show all X\$ tables (x$)
      - freespace                      show free space by tablespace
      - genddl                         generate ddl functions
      - genddl syn fromuser touser     generate set of synonyms and grants to allow access to another schema tables and sequences
      - idxdesc  <tabname>             describe all idxs for a given tab
      - idxlike  <pattern>             show indexes by given pattern
      - idxstats <user/passwd>         stats for each idx
      - newobj <no_days>               display information about objects creation time
      - nls                            show database NLS information
      - objsize <username>             show size of all objects for a given user
      - objlike <pattern>              show objects by given pattern (object or owner name)
      - params 'pattern'               view all parameters, including hidden ones
      - partlike 'pattern'             display information about table/index partitions
      - segfs                          display segment distribution across filesystems
      - seqlike <pattern>              show all sequence names contained in pattern
      - synlike <pattern>              show all synonym names contained in pattern
      - tablike <pattern>              show all table names contained in pattern
      - tabstats <user/passwd>         stats for each table
      - temp                           view used space in temp tbs
      - users                          show all database users
      - userVs                         show all user views (user_tables, user_indexes)
      - vlike <viewlowner pattern>     show all views according to pattern
      - vdesc <view pattern>           show views definition
```

Features of DBA Act

DBA Act is designed with ease of installation and simplicity of use in mind. Combination of powerful analytical capabilities and simplicity of operation makes DBA Act a tool of choice for complex production and development database environments.

Features of DBA Act include:

- Easy installation
- Easy to use help system and manuals
- Extremely fast operation on vast arrays of internal database data with no noticeable impact on system performance. No data objects or stored procedures are created in the database.
- Actionable functions enabling containment of problem-causing issues
- Significant Productivity Booster for DBAs and Operations
- Real time root cause analysis of changes in database performance
- Real time SQL performance analysis engine
- Real time drilldown of performance on a machine (applications server) level

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Getting started with DBA Act for Oracle

This chapter covers everything you need to know to start using DBA Act for Oracle. It explains how to:

- Install DBA Act
- Start DBA Act
- Connect to a database

Installation of DBA Act for Oracle

This procedure outlines how to install DBA Act on database server. Installation of DBA Act is very straightforward and should only take a few minutes to complete.

To install DBA Act for Oracle

Insert the DBA Act CD into your CD-ROM drive or download DBA Act installation archive from the URL provided by representative of DBA InfoPower Inc.

Create new or use existing directory to install DBA Act

Use below commands to install DBA Act on Sun or Linux database servers:

1. Gunzip dbaip_act_<Platform>.tar.gz (where <Platform> is solaris or linux)

2. tar xvf dbaip_act_<Platform>.tar.gz

3. cd dbaip_act_<Platform>

4. chmod 755 dbact

Use below commands to open DBA Act installation archive on Windows database server:

1. unzip dbaip_act_win.zip

2. install recommended 3rd party tools (see section "3rd party Utilities for Windows Environment");

By default, DBA Act for Oracle is installed into the following directory, though you can choose a different installation path.

$HOME/dbaip_act

Insert the DBA Act CD in CD-ROM drive or download DBA Act from the URL provided by a representative of DBA InfoPower, Inc.

Authorizing DBA Act for Oracle

If you are a new user of DBA Act for Oracle, you will have a trial period in order to test the product. When the trial period expires, DBA Act for Oracle will stop functioning.

To maintain full functionality, contact your DBA InfoPower, Inc. representative for information on obtaining a full licensed version. For further information see "Product authorization errors".

To register DBA Act license:

Issue command: dbact –r

Follow the instructions displayed on the screen (you'll be requested to enter license token provided to you by DBA InfoPower Inc.)

Please enter license token below:

Uninstalling DBA Act for Oracle

To uninstall DBA Act for Oracle remove dbact containing directory.

Starting DBA Act for Oracle

DBA Act for Oracle is started from a command line

To launch DBA Act directly:

bash-2.03$ dbact <command> <parameters>

In Windows environment:

C:\> dbact.exe <command> <parameters>

DBA Act for Oracle database objects

DBA Act "bbw" function creates temporary table in the user database. This table is very small and has negligible impact on database performance (even on extremely active production databases). By default this table is created in PERFSTAT schema (different target schema can be specified by user), so presence of PERFSTAT user is recommended.

DBA Act for Oracle database access

By default DBA Act connects to database server as SYSDBA. If other user needs to be used for database access or to allow DBA Act to access remote database, **DBACT_USER** environment variable needs to be set.

For Example:

bash-2.03$ export DBACT_USER=perfstat/perfstat@proddb0

Or for local access:

bash-2.03$ export DBACT_USER=perfstat/perfstat

In Windows environment:

C:\> set DBACT_USER=perfstat/perfstat@proddb0

Or for local access:

C:\> set DBACT_USER=perfstat/perfstat

DBACT_USER user needs to have access rights to DBA%, v$ and x$ views

If remote access user is used below DBA Act functions would not be available:

hard
killtop
killshadow
ps
top

Downloading upgrades from the internet

From time to time, DBA InfoPower, Inc. may make upgrades and patches available on the Internet. Upgrades will be made available from the DBA InfoPower web site at www.dbainfopower.com. Instructions for downloading and installing upgrades are provided on the web site.

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Using DBA Act for Oracle

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2pc

Display 2 phase commit pending transactions
Display 2 phase commit neighbor's transactions

bc

View contents of buffer cache

```
-bash-2.05b$ dbact bc

NAME                           COUNT(*)
------------------------------ ----------
ATTRCOL$                              446
CLU$                                  446
COL$                                  446
COLTYPE$                              446
C_OBJ#                                446
LIBRARY$                              446
NTAB$                                 446
OPQTYPE$                              446
SUBCOLTYPE$                           446
VIEWTRCOL$                            446
TYPE_MISC$                            446
TAB$                                  446
REFCON$                               446
LOB$                                  446
ICOL$                                 446
IND$                                  446
ICOLDEP$                              446
OBJ$                                  101
I_OBJ2                                 69
C_FILE#_BLOCK#                         61
UET$                                   61
SEG$                                   61
I_OBJ1                                 21
I_DEPENDENCY2                          20
```

badobj

Check what database objects are in invalid status

```
-bash-2.05b$ dbact badobj

OWNER                          OBJECT_TYPE         OBJECT_NAME
------------------------------ ------------------- ----------------------------------------
PS                             FUNCTION            QUEST_VTK_COMBINE_BIND_VALUES
PS                             FUNCTION            QUEST_VTK_DELETE_TRACE_DATA
PS                             PACKAGE             QUEST_IX_RULE_ENGINE
PS                             PACKAGE             QUEST_IX_RUN_ADMIN
PS                             PACKAGE BODY        QUEST_IX_BEST_PRACTICES
PS                             PACKAGE BODY        QUEST_IX_BUFFER_CACHE_RULE_PAK
PS                             PACKAGE BODY        QUEST_IX_CBO_RULE_PAK
PS                             PACKAGE BODY        QUEST_IX_CONFIG_REPORT
PS                             PACKAGE BODY        QUEST_IX_CONTENTION_RULE_PAK
PS                             PACKAGE BODY        QUEST_IX_DATA_CONVERSION
PS                             PACKAGE BODY        QUEST_IX_DATA_SERIES
PS                             PACKAGE BODY        QUEST_IX_ERROR
PS                             PACKAGE BODY        QUEST_IX_FILE_IO_REPORTS
PS                             PACKAGE BODY        QUEST_IX_GENERIC_RULES
PS                             PACKAGE BODY        QUEST_IX_IO_EFFIC_RULE_PAK
PS                             PACKAGE BODY        QUEST_IX_LATCH_REPORT
PS                             PACKAGE BODY        QUEST_IX_LATCH_RULE_PAK
PS                             PACKAGE BODY        QUEST_IX_LCK_CONTENT_RULE_PAK
PS                             PACKAGE BODY        QUEST_IX_MEMORY_RULE_PAK
PS                             PACKAGE BODY        QUEST_IX_MISC_REPORT
PS                             PACKAGE BODY        QUEST_IX_NOTIFICATION
PS                             PACKAGE BODY        QUEST_IX_PROGRESS
PS                             PACKAGE BODY        QUEST_IX_RAC_RULE_PAK
PS                             PACKAGE BODY        QUEST_IX_REDO_RULE_PAK
PS                             PACKAGE BODY        QUEST_IX_REPOSITORY_ADMIN
PS                             PACKAGE BODY        QUEST_IX_RULE_ENGINE
PS                             PACKAGE BODY        QUEST_IX_RUN_ADMIN
```

cf

Information about current records in the control file

```
-bash-2.05b$ dbact cf

TYPE                 RECORD_SIZE RECORDS_TOTAL RECORDS_USED FIRST_INDEX LAST_INDEX LAST_RECID
-------------------- ----------- ------------- ------------ ----------- ---------- ----------
ARCHIVED LOG                 584            13            0           0          0          0
BACKUP CORRUPTION             44           185            0           0          0          0
BACKUP DATAFILE              116           211            0           0          0          0
BACKUP PIECE                 736           210            0           0          0          0
BACKUP REDOLOG                76           107            0           0          0          0
BACKUP SET                    40           204            0           0          0          0
BACKUP SPFILE                 36           226            0           0          0          0
CKPT PROGRESS               4084             4            0           0          0          0
COPY CORRUPTION               40           204            0           0          0          0
DATABASE                     192             1            1           0          0          0
DATABASE INCARNATION          56           145            1           1          1          1
DATAFILE                     180           100            8           0          0       7632
DATAFILE COPY                660           210            0           0          0          0
DELETED OBJECT                20           408            0           0          0          0
FILENAME                     524           116           13           0          0          0
LOG HISTORY                   36          3630         3171        3526       3066       3292
OFFLINE RANGE                 56           145            0           0          0          0
PROXY COPY                   852           210            0           0          0          0
REDO LOG                      72             5            5           0          0         13
REDO THREAD                  104             1            1           0          0          0
RMAN CONFIGURATION          1108            50            0           0          0          0
TABLESPACE                    68           100            7           0          0         13
TEMPORARY FILENAME            56           100            2           0          0          4
```

colstats

Display Column Statistics (per Owner, Table Name or Column Name pattern)

colstats <owner|table|column name pattern> <table name pattern> <column name pattern>

```
-bash-2.05b$ dbact colstats perfstat SYSSTAT

COLUMN_NAME                                                DISTINCT-NULLS-BUCKETS-SAMPLE-AVG_LEN    LO_HI_VALUE
---------------------------------------------------------- ---------------------------------------- ----------------------------------------
[NUMBER] PERFSTAT.STATS$SYSSTAT.DBID                       1-0-1-9042-6                             C50B352C3105-C50B352C3105
[NUMBER] PERFSTAT.STATS$SYSSTAT.INSTANCE_NUMBER            1-0-1-9042-2                             C102-C102
[NUMBER] PERFSTAT.STATS$SYSSTAT.SNAP_ID                    34-0-1-9042-2                            C102-C143
[NUMBER] PERFSTAT.STATS$SYSSTAT.STATISTIC#                 267-0-1-9042-3                           80-C20343
[NUMBER] PERFSTAT.STATS$SYSSTAT.VALUE                      2382-0-1-9042-3                          80-C6294E41391B
[VARCHAR2] PERFSTAT.STATS$SYSSTAT.NAME                     265-0-1-9042-26                          435055207573656420627920746869
                                                                                                    732073657373696F6E-77726974652
                                                                                                    0636C6F6E6573206372656174656420
                                                                                                    0696E20666F726567726F75
```

collike

Show all column names contained in pattern

collike <pattern>

```
-bash-2.05b$ dbact collike STATISTIC#

TABLE_NAME                                                      COLUMN_NAME
--------------------------------------------------------------- -----------
C1PS.S1                                                         STATISTIC#
C1PS.S2                                                         STATISTIC#
C1PS.SN1                                                        STATISTIC#
C1PS.SN2                                                        STATISTIC#
C1PS.STATS$SYSSTAT                                              STATISTIC#
C1PS.TMP_1121070723156                                          STATISTIC#
C1PS.TMP_1121070824156                                          STATISTIC#
```

cursors

Display opened cursors

cursors [all | <schema number to exclude>]

```
-bash-2.05b$ dbact cursors all

ADDRESS      HASH_VALUE SQL_TEXT
------------ ---------- --------------------------------------------------------------------------------
5609B164      130926350 select count(*) from sys.job$ where next_date < :1 and (fiel
56282490     1316169839 select job, nvl2(last_date, 1, 0) from sys.job$ where (((:1
563D7A7C     1693927332 select count(*) from sys.job$ where (next_date > sysdate) an
56622934     1480155015 select i.obj#,i.ts#,i.file#,i.block#,i.intcols,i.type#,i.fla
56622934/1   1480155015 select i.obj#,i.ts#,i.file#,i.block#,i.intcols,i.type#,i.fla
5671240C     2367942048 select ts#,file#,block#,nvl(bobj#,0),nvl(tab#,0),intcols,nvl
5671240C/1   2367942048 select ts#,file#,block#,nvl(bobj#,0),nvl(tab#,0),intcols,nvl
```

ddllock

Display current DDL locks

```
-bash-2.05b$ dbact ddllock

WAITING_SID HOLDING_SID MACHINE                                 HOLDING_HASH          LOCK ADDRESS  Mode Held/Requested
----------- ----------- ----------------------------------- ---------------------- ---- -------- -------------------
         12 14,48       linux1                              3924600907/0          Lock 565D3518 Share/Exclusive
```

degree

Display parallelism degree of the objects for a given owner or object

degree <table_name_pattern|owner_name_pattern> <minimum parallelism degree to display>

```
-bash-2.05b$ dbact degree % 2


INDEX_NAME                          DEGREE        INSTANCES
----------------------------------- ------------- -------------
STATS$FILESTATXS_PK                 2             1
STATS$LATCH_MISSES_SUMMARY_PK       2             1
STATS$SYSSTAT_PK                    2             1
```

desc

Describe structure of table or package

desc <table name>/<package>

```
-bash-2.05b$ dbact desc DBA_LOCKS
 Name                                                              Null?    Type
 ----------------------------------------------------------------- -------- ---------------
 SESSION_ID                                                                 NUMBER
 LOCK_TYPE                                                                  VARCHAR2(26)
 MODE_HELD                                                                  VARCHAR2(40)
 MODE_REQUESTED                                                             VARCHAR2(40)
 LOCK_ID1                                                                   VARCHAR2(40)
 LOCK_ID2                                                                   VARCHAR2(40)
 LAST_CONVERT                                                               NUMBER
 BLOCKING_OTHERS                                                            VARCHAR2(40)
```

dfdue

Estimate when tablespaces would need more datafiles

```
-bash-2.05b$ dbact dfdue
08-OCT-06: Datafile Report for DB0 on linux1
------------------------------------------------------------------------------
Tablespace Name          Df Cnt   First Df   Last Df     AvgTime      Next Due
------------------------------------------------------------------------------
TOOLS                         3   06/22/03   10/03/06        600    05/25/2008
------------------------------------------------------------------------------
08-OCT-06: End of Report for DB0 on linux1
```

dba2info

Decode dba into file number, block number, file name and segment name

dba2info <dba in hex>

```
-bash-2.05b$ dbact dba2info 0X01800026


DBA_FILE DBA_BLOCK
-------- ------------
6        38

DATAFILE
------------------------------------------------------------
/export/home/oracle/products/920/oradata/DB0/undotbs02.dbf

SEGMENT_NAME
------------------------------------------------------------
_SYSSMU20$
```

dump

Generates systemstate, library_cache, heapdump and hanganalyze dumps

enq

Display current enqueue statistics

```
-bash-2.05b$ dbact enq

ADDR           INDX    INST_ID Lock   KSQSTREQ      Waits   KSQSTSGT   KSQSTFGT   KSQSTWTM
-------- ---------- ---------- ---- ---------- ---------- ---------- ---------- ----------
54F3C290        631          1 TX         4627          1       4627          0     219658
54F38DE0         69          1 CF       169380          5     169380          0        340
```

eventcnt

Display total of current session events

```
-bash-2.05b$ dbact eventcnt

EVENT                                    COUNT(*)
---------------------------------------- ----------
LGWR wait for redo copy                           1
SQL*Net message from client                       1
db file parallel write                            1
enqueue                                           1
log file parallel write                           1
library cache pin                                 1
SQL*Net message to client                         1
db file scattered read                            1
log file sequential read                          1
smon timer                                        1
rdbms ipc reply                                   1
pmon timer                                        1
log file single write                             1
buffer busy waits                                 2
direct path write                                 2
control file parallel write                       2
control file sequential read                      3
db file sequential read                           3
direct path read                                  3
latch free                                        5
rdbms ipc message                                 5
```

execute

Display SQL information on currently executed cursors

```
-bash-2.05b$ dbact execute

      EXEC SQL_TEXT                                                                  HASH_VALUE         BG      bg/ex LOAD_TIME
---------- ------------------------------------------------------------------------ ---------- ---------- ---------- -----------
         1     select users_executing exec, sql_text, hash_value, buffer_get 3471580173          2 .153846154 09-26/11:48
           s bg,buffer_gets/(executions+1) "bg/ex", substr(first_load_time ,
           6, 11 ) Load_Time from v$sqlarea where users_executing > 0 order
           by 5

         1 UPDATE X SET N = N + 10                                              1966525287    1012643 4.02566121 09-27/18:54
         1 begin  while (1 = 1) loop   update x set n = n + 10; end loop; en 2614224975        224        224 09-27/18:54
           d;
```

fb2seg

Display segment of the given file_id and block_id

```
-bash-2.05b$ dbact fb2seg 9 45

OBJ_ID-Segment Name/Part Name                      SEGMENT_TYPE       RELATIVE_FNO
-------------------------------------------------- ------------------ ------------
12327-STATS$BG_EVENT_SUMMARY                       TABLE                         9
```

flush

Flush shared pool

```
-bash-2.05b$ dbact flush

System altered.

  1*   alter system flush shared_pool
```

fplan

Create explain plan using provided SQL file (single SQL)

fplan <sql file name> [<usr/pwd>]

```
-bash-2.05b$ echo "select count(*) from dba_tables where table_name = ?" > plan_sql.sql
-bash-2.05b$
-bash-2.05b$
-bash-2.05b$
-bash-2.05b$ dbact fplan plan_sql.sql

Explained.


PLAN_TABLE_OUTPUT
--------------------------------------------------------------------------------
--------------------------------------------


-------------------------------------------------------------------------------
| Id  | Operation                          |  Name           | Rows  | Bytes | Cost  |
-------------------------------------------------------------------------------
|   0 | SELECT STATEMENT                   |                 |       |       |       |
|   1 |  SORT AGGREGATE                    |                 |       |       |       |
|   2 |   NESTED LOOPS                     |                 |       |       |       |
|   3 |    NESTED LOOPS                    |                 |       |       |       |
|   4 |     NESTED LOOPS OUTER             |                 |       |       |       |
|   5 |      NESTED LOOPS OUTER            |                 |       |       |       |
|   6 |       NESTED LOOPS OUTER           |                 |       |       |       |
|   7 |        NESTED LOOPS OUTER          |                 |       |       |       |
|   8 |         NESTED LOOPS               |                 |       |       |       |
|*  9 |          TABLE ACCESS FULL         | OBJ$            |       |       |       |
|* 10 |          TABLE ACCESS CLUSTER      | TAB$            |       |       |       |
|* 11 |           INDEX UNIQUE SCAN        | I_OBJ#          |       |       |       |
|  12 |         TABLE ACCESS BY INDEX ROWID| OBJ$            |       |       |       |
|* 13 |          INDEX UNIQUE SCAN         | I_OBJ1          |       |       |       |
|* 14 |        INDEX UNIQUE SCAN           | I_OBJ1          |       |       |       |
|  15 |       TABLE ACCESS CLUSTER         | USER$           |       |       |       |
|* 16 |        INDEX UNIQUE SCAN           | I_USER#         |       |       |       |
|  17 |      TABLE ACCESS CLUSTER          | SEG$            |       |       |       |
|* 18 |       INDEX UNIQUE SCAN            | I_FILE#_BLOCK#  |       |       |       |
|  19 |     TABLE ACCESS CLUSTER           | TS$             |       |       |       |
|* 20 |      INDEX UNIQUE SCAN             | I_TS#           |       |       |       |
|  21 |    TABLE ACCESS CLUSTER            | USER$           |       |       |       |
|* 22 |     INDEX UNIQUE SCAN              | I_USER#         |       |       |       |
-------------------------------------------------------------------------------

Predicate Information (identified by operation id):
---------------------------------------------------

   9 - filter("O"."NAME"=:Z)
  10 - filter(BITAND("T"."PROPERTY",1)=0)
  11 - access("O"."OBJ#"="T"."OBJ#")
  13 - access("I"."DATAOBJ#"="CX"."OBJ#"(+))
```

freespace

Display free space per tablespace

```
TABLESPACE_NAME                    FREE_MB
------------------------------ ----------
UNDOTBS2                       3008.6875
PERFSTAT                          344.125
SYSTEM                             36.625
INDX                              21.9375
USERS                              9.9375
TOOLS                              1.9375
```

genddl

DDL generation related functions

genddl cloneuser <from_user> <to_user>

Generate “create user” DDL and set of access roles and privileges for the user

```
-bash-2.05b$ dbact genddl cloneuser perfstat psnew new
create user psnew  profile DEFAULT identified by new default tablespace PERFSTAT temporary tablespace TEMP01;
grant DBA to psnew;
grant PERFCNTR_ADMIN to psnew;
grant SELECT_CATALOG_ROLE to psnew;
grant EXECUTE on DBMS_JOB to psnew;
grant EXECUTE on DBMS_SHARED_POOL to psnew;
grant SELECT on DBA_ROLE_PRIVS to psnew;
grant SELECT on STATS$V_$FILESTATXS to psnew;
grant SELECT on STATS$V_$SQLXS to psnew;
```

genddl copysyn <from_user> <to_user>

Generate set of synonyms and grants to allow access to another schema tables and sequences

```
-bash-2.05b$ dbact genddl copysyn perfstat psnew new
-- run create synonym script as sysdba
-- run grant script as perfstat
create synonym psnew.STATS$DATABASE_INSTANCE for perfstat.STATS$DATABASE_INSTANCE;
create synonym psnew.STATS$LEVEL_DESCRIPTION for perfstat.STATS$LEVEL_DESCRIPTION;
create synonym psnew.STATS$SNAPSHOT for perfstat.STATS$SNAPSHOT;
create synonym psnew.STATS$DB_CACHE_ADVICE for perfstat.STATS$DB_CACHE_ADVICE;
create synonym psnew.STATS$FILESTATXS for perfstat.STATS$FILESTATXS;
create synonym psnew.STATS$TEMPSTATXS for perfstat.STATS$TEMPSTATXS;
create synonym psnew.STATS$LATCH for perfstat.STATS$LATCH;
create synonym psnew.STATS$LATCH_CHILDREN for perfstat.STATS$LATCH_CHILDREN;
create synonym psnew.STATS$LATCH_PARENT for perfstat.STATS$LATCH_PARENT;
```

hard

Provide basic information on server hardware configuration

```
Linux linux1 2.4.20-8 #1 Thu Mar 13 17:54:28 EST 2003 i686 i686 i386 GNU/Linux
MemTotal:       505228 kB
processor       : 0
vendor_id       : GenuineIntel
cpu family      : 15
model           : 1
model name      : Intel(R) Pentium(R) 4 CPU 1.80GHz
stepping        : 2
cpu MHz         : 1800.067
cache size      : 256 KB
fdiv_bug        : no
hlt_bug         : no
f00f_bug        : no
coma_bug        : no
fpu             : yes
fpu_exception   : yes
cpuid level     : 2
wp              : yes
flags           : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmo
bogomips        : 3591.37
```

hash2sqlid

Display sql_id of the hash value

```
-bash-2.05b$ dbact hash2sqlid 1628494877

SQL_ID
-------------
1fkda59hj1r0x
```

hidf

Displays datafiles with the highest real-time I/O rate

```
-bash-2.05b$ dbact hidf 5 20

NAME                                                                AVG_IO_TIME  IO-IO Per S.  RD-RD Per S.  WR-WR per S.
------------------------------------------------------------------- -----------  ------------  ------------  ------------
/export/home/oracle/products/920/oradata/DB0/undotbs02.dbf(6)       0            6-1.2         2-0.4         4-0.8
/export/home/oracle/products/920/oradata/DB0/perfstat03.dbf(7)      0            6-1.2         2-0.4         4-0.8
/export/home/oracle/products/920/oradata/DB0/tools01.dbf(4)         0            4-0.8         2-0.4         2-0.4
/export/home/oracle/products/920/oradata/DB0/users01_1.dbf(8)       0            4-0.8         2-0.4         2-0.4
/export/home/oracle/products/920/oradata/DB0/perfstat02.dbf(2)      0            4-0.8         2-0.4         2-0.4
```

hifs

Displays file systems with the highest real-time I/O rate

```
-bash-2.05b$ dbact hifs 5 20
NAME                                                                AVG_IO_TIME  IO-IO Per S. RD-RD Per S. WR-WR per S.
------------------------------------------------------------------- ------------ ------------ ------------ ------------
/export/home/oracle/products/920/oradata/DB0/                       0            44-8.8       20-4         24-4.8
```

hiexecs

Display real-time top executing SQL statements

hiexecs <period> <# of SQL>

```
-bash-2.05b$ dbact hiexecs 5 20

HASH_VALUE EXECUTIONS_START EXECUTIONS_END Per Period-Per Sec. SQL_TEXT
---------- ---------------- -------------- ------------------ --------
 336764478               31             34 3/0.6              select /*+ index(idl_char$ i_idl_char1) +*/ piece#,length,piece from idl_char$ w
 986338823               31             34 3/0.6              select /*+ index(idl_ub1$ i_idl_ub11) +*/ piece#,length,piece from idl_ub1$ wher
 386388955               31             34 3/0.6              select /*+ index(idl_ub2$ i_idl_ub21) +*/ piece#,length,piece from idl_ub2$ wher
2954231783               31             34 3/0.6              select /*+ index(idl_sb4$ i_idl_sb41) +*/ piece#,length,piece from idl_sb4$ wher
1198893840               52             54 2/0.4              select order#,columns,types from access$ where d_obj#=:1
2703824309              237            239 2/0.4              select obj#,type#,ctime,mtime,stime,status,dataobj#,flags,oid$, spare1, spare2 f
 340778183               18             20 2/0.4              select audit$,options from procedure$ where obj#=:1
4080861370               52             54 2/0.4              select owner#,name,namespace,remoteowner,linkname,p_timestamp,p_obj#, d_owner#,
1316169839            98459          98460 1/0.2              select job, nvl2(last_date, 1, 0) from sys.job$ where (((:1 <= next_date) and (n
2326965345          New SQL              1 1/0.2              select HASH_VALUE, sum(executions) executions, substr(SQL_TEXT,1,80) SQL fro
1700220278          New SQL              1 1/0.2              BEGIN dbms_lock.sleep(5); END;
1693927332            98460          98461 1/0.2              select count(*) from sys.job$ where (next_date > sysdate) and (next_date < (sysd
```

hipga

Display top real-time PGA statistics

hipga <period> <# of SQL>

```
-bash-2.05b$ dbact hipga 5 10

PGA STAT                                                            STAT_START       STAT_END Per Period-Per Sec.
------------------------------------------------------------------- ---------- ---------- ------------------------
bytes processed                                                      324346880  324592640 245760/49152
total PGA allocated                                                    9207808    9356288 148480/29696
total freeable PGA memory                                                    0     131072 131072/26214.4
total PGA inuse                                                        6136832    6151168 14336/2867.2
```

hiseg

Display segments with the high real-time rate of provided statistic

hiseg <segment statistic name pattern> <period> <# of top segments to display >

```
-bash-2.05b$ dbact hiseg logi 5 10

Segment                                                  Statistic           Start Value  End Value    Per Period-Per Sec.
-------------------------------------------------------- ------------------- ----------- ---------- --------------------
[INDEX]-SYS.I_OBJ1                                       logical reads         175906000  175906512 512/102.4
[TABLE]-SYS.USER$                                        logical reads         511905296  511905808 512/102.4
[TABLE]-SYS.TS$                                          logical reads         360147744  360148160 416/83.2
[TABLE]-PERFSTAT.STATS$SNAPSHOT                          logical reads             28896      29168 272/54.4
[INDEX]-SYS.I_IND1                                       logical reads         286454272  286454400 128/25.6
[INDEX]-SYS.I_USER#                                      logical reads            886880     886896 16/3.2
```

hiseq

Display sequences with the high rate of increments

hiseq <period> <# of seg>

```
-bash-2.05b$ dbact hiseq 5 10

SEQUENCE                                                                  STAT_START    STAT_END Per Period-Per Sec.
------------------------------------------------------------------------- ---------- ---------- --------------------
PERFSTAT.X_SEQ                                                                     3          8 5.2/0.4
```

hisql

Display SQL with the high rate of provided statistic

hisql <SQL Statistic Name> <Sample Period> <# of SQL to display>

```
HASH_VALUE BUFFER_GETS_START BUFFER_GETS_END Per Period-Per Sec. SQL_TEXT
---------- ----------------- --------------- -------------------- ----------------------------------------------------
 731781373         132797418       132824720 27302 - 5460.4      select /*+ FIRST_ROWS */  tab.rowid, tab.msgid, t
                                                                   rid, tab.priority, tab.de
3181021501           5932679         5953833 21154 - 4230.8      SELECT PRIORITY_DESC,LATEST_USER,STATUS_DESC,PRIO
3222285354           5796995         5817069 20074 - 4014.8      SELECT 1 FROM DATA_VIEW x WHERE X.INFO = ? ANS ST
3526668295         215996356       216014688 18332 - 3666.4      SELECT PARAMETER_VALUE FROM APPLICATION WHERE F_N
 890539955         586525494       586541120 15626 - 3125.2      SELECT SUM(NVL(ACCOUNT_DEBIT,0)) FROM ACCOUNT_BAL
4148342928           5966841         5978758 11917 - 2383.4      SELECT NAME_ID, STATUS FROM ORDERS_NAME WHERE ORD
1566081828            859909          867968  8059 - 1611.8      SELECT * FROM CUIRRENT_ORDERS WHERE NVL(STATUS_CO
```

hplan

Get explain plan from v\\$sql_plan for a given hash_value

hplan hash_value

```
-bash-2.05b$ dbact hplan 3471580173

  ID Operation                                Name                             Rows    Bytes Cost-CPU Cost
---- ---------------------------------------- -------------------------------- ------- ------- ------------
   0 SELECT STATEMENT
   1   SORT ORDER BY
   2     VIEW
   3       FILTER
   4         SORT GROUP BY
   5           FIXED TABLE FULL               X$KGLCURSOR
```

idxdesc

Describe all indexes for a given table

idxdesc <tabname>

```
dbact idxdesc STATS$LATCH

U TYPE                  Index Name                          Column Name
- ------ ---------------------------------------- -------------------------
Y        PERFSTAT.STATS$LATCH_PK                  SNAP_ID
                                                  NAME
                                                  INSTANCE_NUMBER
                                                  DBID
```

idxlike

Show indexes by given pattern

idxlike <pattern>

```
dbact idxlike LATCH

INDEX_NAME                                TS                              INI_TRANS  FREELISTS NEXT_EXTENT PAR
----------------------------------------- ------------------------------- ---------- ---------- ----------- ---
PERFSTAT.STATS$LATCH_CHILDREN_PK          SYSAUX                                   2                      NO
PERFSTAT.STATS$LATCH_MISSES_SUMMARY_PK    SYSAUX                                   2                      NO
PERFSTAT.STATS$LATCH_PARENT_PK            SYSAUX                                   2                      NO
PERFSTAT.STATS$LATCH_PK                   SYSAUX                                   2                      NO
SYS.WRH$_LATCH_BL_PK                      SYSAUX                                   2                      NO
SYS.WRH$_LATCH_CHILDREN_BL_PK             SYSAUX                                   2                      NO
SYS.WRH$_LATCH_CHILDREN_PK                                                                                YES
SYS.WRH$_LATCH_MISSES_SUMMARY_PK                                                                          YES
SYS.WRH$_LATCH_MISSES_SUMRY_BL_PK         SYSAUX                                   2                      NO
SYS.WRH$_LATCH_NAME_PK                    SYSAUX                                   2                      NO
SYS.WRH$_LATCH_PARENT_BL_PK               SYSAUX                                   2                      NO
SYS.WRH$_LATCH_PARENT_PK                                                                                  YES
SYS.WRH$_LATCH_PK                                                                                         YES
```

idxstats

Display index statistics

idxstats <index | owner name pattern>

```
-bash-2.05b$ dbact idxstats LATCH

INDEX_NAME                                NUM_ROWS   BLEVEL     LFBLKS     DISTKEYS    ITL FLST FGRP PART DEGREE
----------------------------------------- ---------- ---------- ---------- ---------- ---- ---- ---- ---- ------
C1PS.STATS$LATCH_MISSES_SUMMARY_PK            NoStat     NoStat     NoStat     NoStat    2    1    1 NO   2
C1PS.STATS$LATCH_PK                           NoStat     NoStat     NoStat     NoStat    2    1    1 NO   1
PERF8.STATS$LATCH_CHILDREN_PK                 NoStat     NoStat     NoStat     NoStat    2    1    1 NO   1
PERF8.STATS$LATCH_MISSES_SUMMARY_PK           NoStat     NoStat     NoStat     NoStat    2    1    1 NO   1
PERF8.STATS$LATCH_PK                          NoStat     NoStat     NoStat     NoStat    2    1    1 NO   1
PERFSTAT.STATS$LATCH_CHILDREN_PK              NoStat     NoStat     NoStat     NoStat    2    1    1 NO   1
PERFSTAT.STATS$LATCH_MISSES_SUMMARY_PK        NoStat     NoStat     NoStat     NoStat    2    1    1 NO   1
PERFSTAT.STATS$LATCH_PARENT_PK                     0          0          0          0    2    1    1 NO   1
```

killblock

Kill session that is holding blocking lock (generate SQL only),
<now> - execute “kill session” immediately

killblock <now>

```
-bash-2.05b$ dbact killblock

alter system disconnect session '8,3790' immediate -- linux1, 0/1035148405 ;
```

killenq

Kill sessions, waiting for an enqueue

```
-bash-2.05b$ dbact killenq

alter system kill session '13,19302' -- linux1, 1035148405/1035148405/enqueue;
```

killfts

Kill sessions, running SQL that performs full table scan

```
-bash-2.05b$ dbact killfts

alter system disconnect session '13,19304' immediate -- linux1, PS9, 4103144933 ;
```

killidle

Kill oracle sessions, idle for over the idle_time (default 30 Minutes)

killidle <idle_time,min>

```
-bash-2.05b$ dbact killidle 1

alter system disconnect session '13,19304' immediate -- linux1, 4103144933, idle for 6 min,ACTIVE ;
```

killtop

Kill top CPU consuming client processes

killtop <number>

```
-bash-2.05b$ dbact killtop 10

Top CPU:  0.0, 097.2, 00.0, 00.0, 00.0, 0
Top PID:  25088, 025322, 025364, 025365, 025367, 025369, 0
```

killtran

Kill long running transactions, generate SQL only, now - execute immediately

killtran <minutes> [now]

```
-bash-2.05b$ dbact killtran 3

alter system kill session '8,3764' -- Started:10/08/06 22:33:03,linux1, 0/4132245357;
```

killmachine

Kill sessions initiated by database client pattern, having min. number of sessions

killmachine 'machine' <number>

```
-bash-2.05b$ dbact killmachine linux1
-- Machine pattern linux1 --

alter system disconnect session '8,3764' immediate -- linux1,12,ACTIVE,sqlplus@linux1 (TNS V1-V3);
alter system disconnect session '13,19300' immediate -- linux1,12,ACTIVE,sqlplus@linux1 (TNS V1-V3);
alter system disconnect session '14,24879' immediate -- linux1,12,ACTIVE,sqlplus@linux1 (TNS V1-V3);
```

killshadow

Kill oracle background processes based on a pattern from the "ps -ef" output

killshadow 'Pattern'

```
-bash-2.05b$ dbact killshadow 20:
oracle   23741 23732  0 20:50 ?        00:00:50 oracleDB0 (DESCRIPTION=(LOCAL=YES)(ADDRESS=(PROTOCOL=beq)))
oracle   23776 21952  0 20:53 ?        00:00:14 oracleDB0 (DESCRIPTION=(LOCAL=YES)(ADDRESS=(PROTOCOL=beq)))
are you sure you want to kill the above processes (check the list please)? (y/n)?
```

killsessions

Show sessions, build "alter system kill session" all - show all sessions, not just active

killsessions [all]

```
-bash-2.05b$ dbact killsessions

Process/Pid/Sid/User/Prog                                       KILL
--------------------------------------------------------------- ------------------------------------------------
23732/23741/13/PERFSTAT/sqlplus@linux1 (TNS V1-V3)              alter system kill session '13,19300';
24572/24574/14/SYS/sqlplus@linux1 (TNS V1-V3)                   alter system kill session '14,24985';
```

killsql

Kills sessions, executing given sql hash value or sql containing provided pattern

killsql hash_value

```
-bash-2.05b$ dbact killsql 2026718016

alter system disconnect session '13,19300' immediate -- linux1, 2026718016 ;
```

killsql like <sql text pattern>

```
-bash-2.05b$ dbact killsql like PARALLEL

alter system disconnect session '14,24870' immediate -- linux1, 1360266662, 23864 ;
alter system disconnect session '13,19300' immediate -- linux1, 2026718016, 23732 ;
```

latch

Display current system latches

```
-bash-2.05b$ dbact latch

LATCH TYPE                     CODE LOCATION and [LABEL]                  SLEEPS
------------------------------ ------------------------------------------ -------
cache buffers chains           kcbgtcr: kslbegin excl                           2
```

latchaddr

Latch detail by latch address

```
-bash-2.05b$ dbact latchaddr 5529FCB0

    LATCH# NAME                                                              GETS     MISSES     SLEEPS     SLEEP1
---------- ------------------------------------------------------------ ---------- ---------- ---------- ----------
        98 cache buffers chains                                            3918531          1          2          0
```

latchname

Display latch name by name pattern

```
-bash-2.05b$ dbact latchname libr

NAME                                                                  LATCH#
---------------------------------------------------------------- ----------
library cache                                                            157
library cache pin                                                        158
library cache pin allocation                                             159
library cache load lock                                                  160
```

latchsql

Display latch Information related to provided SQL hash value

```
-bash-2.05b$ dbact latchsql 2545578279

       PID        SID LADDR    NAME                           HASH_VALUE
---------- ---------- -------- ------------------------------ --------------------------
        10         11 5529FCB0 cache buffers chains           2545578279/2545578279
```

locks

Current locks – blocking locks are marked by <!> sign

```
Who-Where(Client/SID,SER#/SQL/PrevSQL/Secs.)            Blk Table Name          Cmd(*:Actv) Held/Req   Lock Type
------------------------------------------------------- --- ------------------- ----------- ---------- ----------
CM_PROD-(35,64038/4532115671/0/3)                           -/13/0/0            0-*         Excl/-     JQ-Job queue
CM_PROD-(35,64038/4532115671/0/3)                           -/13/0/0            0-*         RowEx/-    TM-DML enqueue
CM_PROD-SJ\PRDAPP02 (174,34972/810539955/890539955/1)   <!> -/33/0/0            0-*         Excl/-     TX-Transac
                                                                                                       tion enqueue
CM_PROD-SJ\PRDAPP02 (174,34972/810539955/820539955/1)   <!> -/33/0/0            0-*         RowEx/-    TM-DML enqueue
```

loggen

Display time table of generated archived logs

```
-bash-2.05b$ dbact loggen 30

DAY   00   01   02   03   04   05   06   07   08   09   10   11   12   13   14   15   16   17   18   19   20   21   22   23
----- ---- ---- ---- ---- ---- ---- ---- ---- ---- ---- ---- ---- ---- ---- ---- ---- ---- ---- ---- ---- ---- ---- ----
29/08    0    6   11    2    0    0    0    0    0    0    0    0    0    0    0    0    0    0   18    0    0    0    0    0
30/08    0    0    0    0    0    0    0    0    0    3    0    0    0    0    0    0    0    0    0    0    0    0    0    0
31/08    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    1    0    0
01/09    0    0    0    0    0    0    0    0    0    0    0    0    0    2   93   13   22   15   94   94   50    0    2    0
27/09    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    9   94   93   92  111   32
```

loguse

Display percent of used space in the current redo log

```
-bash-2.05b$ dbact loguse

LOG_SEQUENCE# USED
------------- --------------------------
         3291  65.25%
```

longops

Run progression monitor against session_longops table

lonsql

Display long running SQL

longsql <minimal time in sec>

```
-bash-2.05b$ dbact longsql
Pid/Sid/User/Prog                                  STARTED          Active SQL_TEXT
-------------------------------------------------- -------------- -------- --------------------------------------------
22007/'11,3139'/SYS/sqlplus@linux1 (TNS V1-V3 10/08 15:54:48       348 2545578279/SELECT COUNT(*) FROM DBA_TABLES
)

21953/'8,3762'/SYS/sqlplus@linux1 (TNS V1-V3) 10/08 15:54:27       369 2545578279/SELECT COUNT(*) FROM DBA_TABLES
```

longtran

Currently long running transactions

```
-bash-2.05b$ dbact longtran 1

 RBS Start Time (Duration)          MACHINE    PROGRAM         USERNAME SQL_HASH                      LOG/PH I/O   CR GET/CHANG  USED_UREC
---- ------------------------------ ---------- --------------- -------- ----------------------------- ------------ ------------ ----------
  13 09/28/06 01:07:51(2.7)         linux1     sqlplus@linux1  SYS      1793479509/0                  8/0          6/0                   2
                                                (TNS V1-V3)
```

machine

a) Machines & connections (running without parameter)

```
MACHINE                                                                  COUNT(*)
---------------------------------------------------------------------- ----------
SJ\PRODDB02                                                                     1
SJ\PRODAPP08                                                                    5
SJ\PRODAPP04                                                                    6
SJ\PRODAPP06                                                                    6
SJ\PRODAPP02                                                                    7
SJ\PRODAPP05                                                                    7
SJ\PRODAPP03                                                                    8
SJ\PRODAPP01                                                                    9
PRODDB02                                                                       16
```

b) Display SQL executed by machine (by machine name pattern)

machine sql <machine_name_pattern>

```
dbact machine sql PRODAPP02

STATUS   MACHINE         PROGRAM         HASH_VALUE   CNT SQL_TEXT                          BG/Ex          DR/Ex
-------- -------------- --------------- ---------- ----- ------------------------------ -------------- --------------
ACTIVE   SJ\PRODAPP02    iweb.exe        690595609     1 SELECT SUM(NVL(FT.ACCOUNT,0)          59.83           4.65
INACTIVE SJ\PRODAPP02    iweb.exe       3768531051     1 SELECT LOCATION FROM ACC_ORD           8.07            .00
INACTIVE SJ\PRODAPP02    server.exe      197947597     2 BEGIN :1 := server.remove_j           10.73            .17
                                                         ob(:2,:3);
```

c) Machines, executing hash_value sql

machine <hash_value>

```
dbact machine 2161247307

STATUS   MACHINE                        PROGRAM                                  USERNAME                       COUNT(*)
-------- ------------------------------ ---------------------------------------- ------------------------------ --------
ACTIVE   SJ/PRODAPP02                    iweb.exe                                 SJ_PROD_APP                    1
ACTIVE   SJ/PRODAPP05                    iweb.exe                                 SJ_PROD_APP                    1
INACTIVE SJ/PRODAPP01                    iweb.exe                                 SJ_PROD_APP                    4
INACTIVE SJ/PRODAPP02                    iweb.exe                                 SJ_PROD_APP                    3
INACTIVE SJ/PRODAPP03                    iweb.exe                                 SJ_PROD_APP                    5
INACTIVE SJ/PRODAPP04                    iweb.exe                                 SJ_PROD_APP                    3
INACTIVE SJ/PRODAPP05                    iweb.exe                                 SJ_PROD_APP                    3
INACTIVE SJ/PRODAPP06                    iweb.exe                                 SJ_PROD_APP                    2
INACTIVE SJ/PRODAPP08                    iweb.exe                                 SJ_PROD_APP                    1
```

machine [stat|ev max_value]

d) Display machines generating high amount of wait events (by wait event name pattern)

machine hiev ebent_pattern <period> <# of machines>

```
dbact machine hiev seq 5 20

MACHINE                  EVENT                              TIME_WAITED_START TIME_WAITED_END TW Per Period-Per Sec.
------------------------ ---------------------------------- ----------------- --------------- ----------------------
SJ/PRODAPP04              db file sequential read                       73221           73671 450 - 90
SJ/PRODAPP08              db file sequential read                       36405           36426 21 - 4.2
SJ/PRODAPP03              db file sequential read                       24381           24393 12 - 2.4
PRODDB02                  control file sequential read                1588555         1588560 5 - 1
SJ/PRODDB02               control file sequential read                      3               5 2 - .4
SJ/PRODAPP01              control file sequential read                     28              28 0 - 0
SJ/PRODAPP01              db file sequential read                      127898          127898 0 - 0
SJ/PRODAPP02              control file sequential read                     32              32 0 - 0
SJ/PRODAPP02              db file sequential read                      64077           64077 0 - 0
SJ/PRODAPP03              control file sequential read                     44              44 0 - 0
SJ/PRODAPP04              control file sequential read                     30              30 0 - 0
SJ/PRODAPP05              control file sequential read                     25              25 0 - 0
SJ/PRODAPP05              db file sequential read                      48660           48660 0 - 0
SJ/PRODAPP06              control file sequential read                     98              98 0 - 0
SJ/PRODAPP06              db file sequential read                      20782           20782 0 - 0
SJ/PRODAPP08              control file sequential read                     32              32 0 - 0
SJ/PRODDB01               db file sequential read                         213             213 0 - 0
SJ/PRODDB02               db file sequential read                           1               1 0 - 0
PRODDB02                  db file sequential read                       23535           23535 0 - 0
PRODDB02                  log file sequential read                      93053           93053 0 - 0
```

d) Display machines generating high amount of system statistic
(By statistic number)

machine histat system_statistic_number <period> <number of top of machines to display>

```
dbact machine histat 42 5 20

MACHINE                                                          STAT_START   STAT_END Stat Per Period-Per Sec
---------------------------------------------------------------- ---------- ---------- ------------------------
SJ/PRODAPP04                                                          77485      78026 541 - 108.2
SJ/PRODAPP06                                                          43124      43557 433 - 86.6
SJ/PRODAPP01                                                         217669     217669 0 - 0
SJ/PRODAPP02                                                         107456     107456 0 - 0
SJ/PRODDB01                                                             179        179 0 - 0
PRODDB02                                                             765190     765190 0 - 0
SJ/PRODDB02                                                               0          0 0 - 0
SJ/PRODAPP08                                                         121507     121507 0 - 0
SJ/PRODAPP05                                                          94949      94949 0 - 0
SJ/PRODAPP03                                                          64881      64881 0 - 0
```

e) Display machines for given stat#

newobj

Display information about objects creation time

newobj <no_days>

```
-bash-2.05b$ dbact newobj 10

Created On                  OWNER                OBJECT_TYPE        OBJECT_NAME                      STATUS
--------------------------- -------------------- ------------------ -------------------------------- -------
19/Sep/2006 - 09:59         PS9                  TYPE               NTT_VARCHAR2                     VALID
19/Sep/2006 - 09:18         PS9                  TABLE              T                                VALID
```

newsql

Display information about new sql in shared pool, starting <minutes> ago

newsql <minutes> [sort#]

```
-bash-2.05b$ dbact newsql 10

HASH_VALUE FIRST_LOAD_TIME     SQL_TEXT                                                                   EX      BG/EX      DR/EX
---------- ------------------- ---------------------------------------------------------------- ---------- ---------- ----------
3991816665 2006-09-28/01:05:26 select   le.leseq  log_sequence#,   substr(to_char(100 * cp.cpodr_bno / le.          1          2          0
                               lesiz, '999.00'), 2) || '%'  used from   sys.x$kcccp  cp,   sys.x$kccle  le
                                where   le.inst_id = userenv('Instance') and   cp.inst_id = userenv('Insta
                               nce') and   le.leseq = cp.cpodr_seq

 667227098 2006-09-28/01:06:31     select XIDUSN RBS, START_TIME || '(' || round((sysdate - to_date(START_         14        1.8          0
                               TIME,'MM/DD/YY HH24:MI:SS' )) * 1440,2) || ')' START_TIME  ,a.machine, a.pr
                               ogram, a.username,             SQL_HASH_VALUE || '/' || PREV_HASH_VALUE SQL_
                               HASH, LOG_IO||'/'||PHY_IO "LOG/PH I/O", CR_GET || '/' || CR_CHANGE "CR GET/
                               CHANGE", USED_UREC     from  v$session     a           ,v$transaction b
                               where a.taddr = b.addr       and to_date(START_TIME,'MM/DD/YY HH24:MI:SS' )
                                < sysdate - 5/1440

 864283801 2006-09-28/01:06:59     select XIDUSN RBS, START_TIME || '(' || round((sysdate - to_date(START_         19        1.9          0
                               TIME,'MM/DD/YY HH24:MI:SS' )) * 1440,2) || ')' START_TIME  ,a.machine, a.pr
                               ogram, a.username,             SQL_HASH_VALUE || '/' || PREV_HASH_VALUE SQL_
                               HASH, LOG_IO||'/'||PHY_IO "LOG/PH I/O", CR_GET || '/' || CR_CHANGE "CR GET/
                               CHANGE", USED_UREC     from  v$session     a           ,v$transaction b
                               where a.taddr = b.addr       and to_date(START_TIME,'MM/DD/YY HH24:MI:SS' )
                                < sysdate - 1/1440

1903747794 2006-09-28/01:07:02     select XIDUSN RBS, START_TIME || '(' || round((sysdate - to_date(START_          2 1.33333333          0
                               TIME,'MM/DD/YY HH24:MI:SS' )) * 1440,2) || ')' START_TIME  ,a.machine, a.pr
                               ogram, a.username,             SQL_HASH_VALUE || '/' || PREV_HASH_VALUE SQL_
                               HASH, LOG_IO||'/'||PHY_IO "LOG/PH I/O", CR_GET || '/' || CR_CHANGE "CR GET/
                               CHANGE", USED_UREC     from  v$session     a           ,v$transaction b
                               where a.taddr = b.addr       and to_date(START_TIME,'MM/DD/YY HH24:MI:SS' )
```

nls

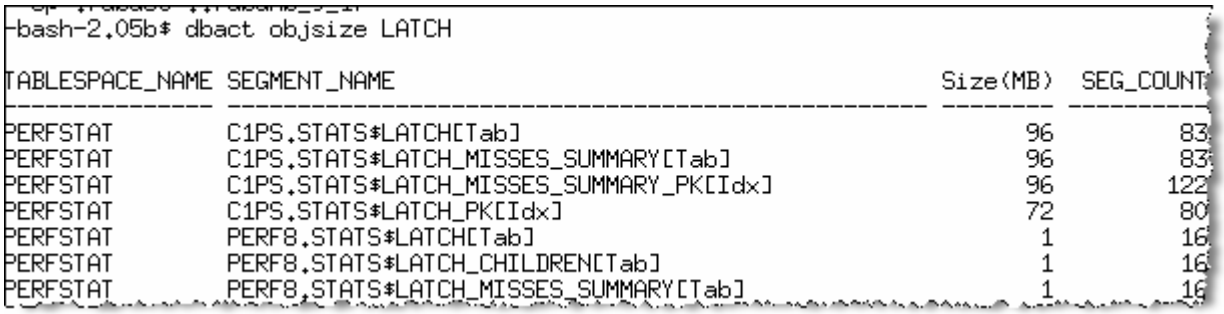
Display NLS related information

```
PARAMETER                                VALUE
---------------------------------------- ----------------------------------------
NLS_NCHAR_CHARACTERSET                   AL16UTF16
NLS_LANGUAGE                             AMERICAN
NLS_TERRITORY                            AMERICA
NLS_CURRENCY                             $
NLS_ISO_CURRENCY                         AMERICA
NLS_NUMERIC_CHARACTERS                   .,
NLS_CHARACTERSET                         AL32UTF8
NLS_CALENDAR                             GREGORIAN
NLS_DATE_FORMAT                          DD-MON-RR
NLS_DATE_LANGUAGE                        AMERICAN
NLS_SORT                                 BINARY
NLS_TIME_FORMAT                          HH.MI.SSXFF AM
NLS_TIMESTAMP_FORMAT                     DD-MON-RR HH.MI.SSXFF AM
NLS_TIME_TZ_FORMAT                       HH.MI.SSXFF AM TZR
NLS_TIMESTAMP_TZ_FORMAT                  DD-MON-RR HH.MI.SSXFF AM TZR
NLS_DUAL_CURRENCY                        $
NLS_COMP                                 BINARY
NLS_LENGTH_SEMANTICS                     BYTE
NLS_NCHAR_CONV_EXCP                      FALSE
NLS_RDBMS_VERSION                        9.2.0.7.0
```

objsize

Show size of all objects for a given user

objsize <object|user name pattern>

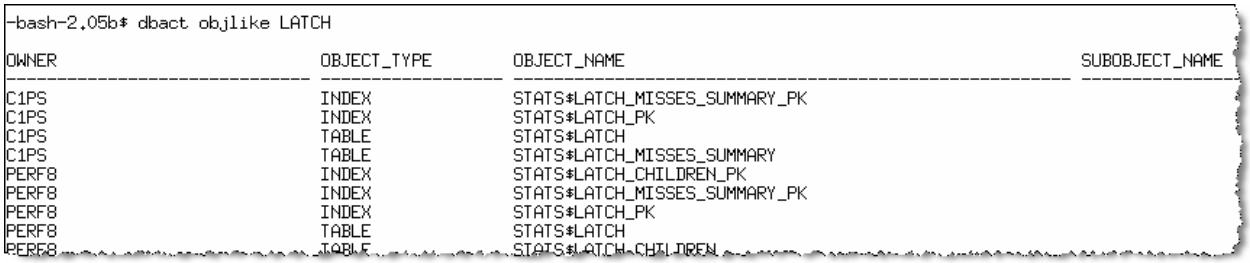


```
-bash-2.05b$ dbact objsize LATCH

TABLESPACE_NAME SEGMENT_NAME                                    Size(MB)  SEG_COUNT
--------------- ----------------------------------------------- --------- ----------
PERFSTAT        C1PS.STATS$LATCH[Tab]                                  96         83
PERFSTAT        C1PS.STATS$LATCH_MISSES_SUMMARY[Tab]                   96         83
PERFSTAT        C1PS.STATS$LATCH_MISSES_SUMMARY_PK[Idx]                96        122
PERFSTAT        C1PS.STATS$LATCH_PK[Idx]                               72         80
PERFSTAT        PERF8.STATS$LATCH[Tab]                                  1         16
PERFSTAT        PERF8.STATS$LATCH_CHILDREN[Tab]                         1         16
PERFSTAT        PERF8.STATS$LATCH_MISSES_SUMMARY[Tab]                   1         16
```

objlike

Show objects by given pattern (object or owner name)

objlike <object name pattern>

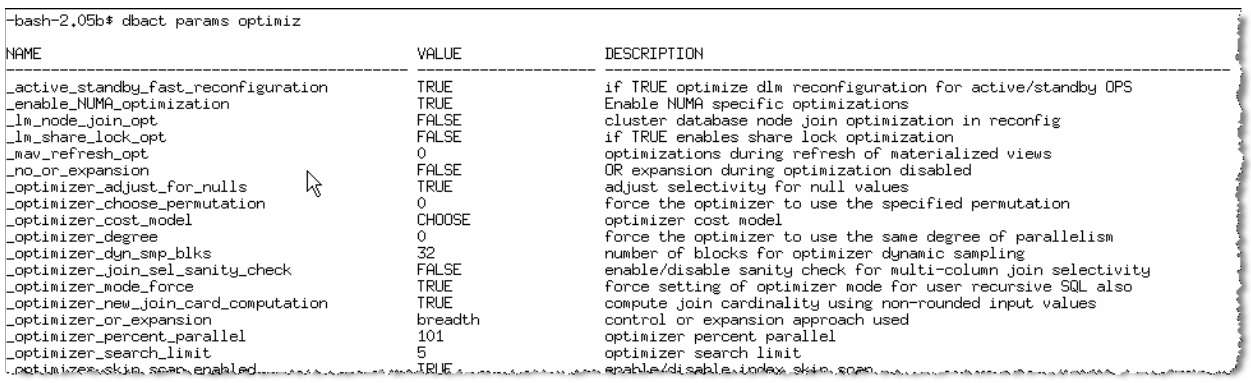


```
-bash-2.05b$ dbact objlike LATCH

OWNER                          OBJECT_TYPE         OBJECT_NAME                                                      SUBOBJECT_NAME
------------------------------ ------------------- ---------------------------------------------------------------- --------------
C1PS                           INDEX               STATS$LATCH_MISSES_SUMMARY_PK
C1PS                           INDEX               STATS$LATCH_PK
C1PS                           TABLE               STATS$LATCH
C1PS                           TABLE               STATS$LATCH_MISSES_SUMMARY
PERF8                          INDEX               STATS$LATCH_CHILDREN_PK
PERF8                          INDEX               STATS$LATCH_MISSES_SUMMARY_PK
PERF8                          INDEX               STATS$LATCH_PK
PERF8                          TABLE               STATS$LATCH
PERF8                          TABLE               STATS$LATCH_CHILDREN
```

params

View all instance parameters, including hidden

params 'pattern'



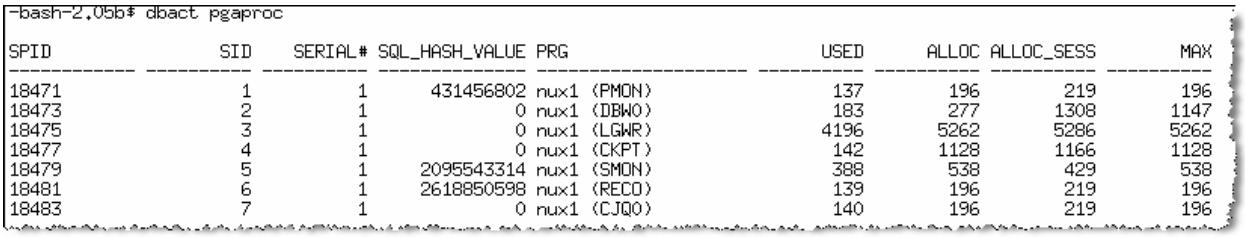
```
-bash-2.05b$ dbact params optimiz

NAME                                     VALUE               DESCRIPTION
---------------------------------------- ------------------- ------------------------------------------------------------------------
_active_standby_fast_reconfiguration     TRUE                if TRUE optimize dlm reconfiguration for active/standby OPS
_enable_NUMA_optimization                TRUE                Enable NUMA specific optimizations
_lm_node_join_opt                        FALSE               cluster database node join optimization in reconfig
_lm_share_lock_opt                       FALSE               if TRUE enables share lock optimization
_mav_refresh_opt                         0                   optimizations during refresh of materialized views
_no_or_expansion                         FALSE               OR expansion during optimization disabled
_optimizer_adjust_for_nulls              TRUE                adjust selectivity for null values
_optimizer_choose_permutation            0                   force the optimizer to use the specified permutation
_optimizer_cost_model                    CHOOSE              optimizer cost model
_optimizer_degree                        0                   force the optimizer to use the same degree of parallelism
_optimizer_dyn_smp_blks                  32                  number of blocks for optimizer dynamic sampling
_optimizer_join_sel_sanity_check         FALSE               enable/disable sanity check for multi-column join selectivity
_optimizer_mode_force                    TRUE                force setting of optimizer mode for user recursive SQL also
_optimizer_new_join_card_computation     TRUE                compute join cardinality using non-rounded input values
_optimizer_or_expansion                  breadth             control or expansion approach used
_optimizer_percent_parallel              101                 optimizer percent parallel
_optimizer_search_limit                  5                   optimizer search limit
_optimizer_skip_scan_enabled             TRUE                enable/disable index skip scan
```

pga

Display current usage of PGA memory

pgaproc

Display process info on sessions that are using PGA memory

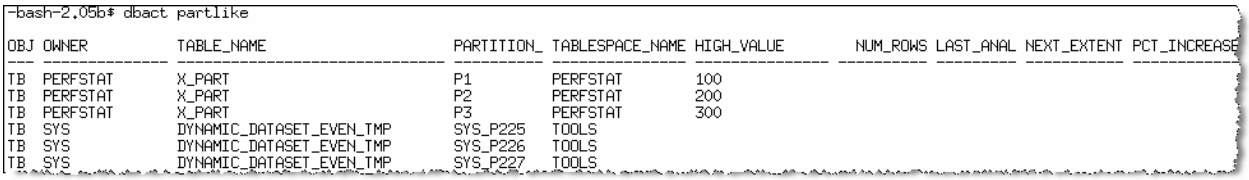


```
-bash-2.05b$ dbact pgaproc

SPID                SID    SERIAL# SQL_HASH_VALUE PRG                      USED      ALLOC ALLOC_SESS        MAX
------------ ---------- ---------- -------------- -------------------- ---------- ---------- ---------- ----------
18471                 1          1      431456802 nux1 (PMON)                 137        196        219        196
18473                 2          1              0 nux1 (DBW0)                 183        277       1308       1147
18475                 3          1              0 nux1 (LGWR)                4196       5262       5286       5262
18477                 4          1              0 nux1 (CKPT)                 142       1128       1166       1128
18479                 5          1     2095543314 nux1 (SMON)                 388        538        429        538
18481                 6          1     2618850598 nux1 (RECO)                 139        196        219        196
18483                 7          1              0 nux1 (CJQ0)                 140        196        219        196
```

partlike

Display information about table/index partitions

partlike 'partition name pattern'



```
-bash-2.05b$ dbact partlike

OBJ OWNER          TABLE_NAME                     PARTITION_ TABLESPACE_NAME HIGH_VALUE       NUM_ROWS LAST_ANAL NEXT_EXTENT PCT_INCREASE
--- -------------- ------------------------------ ---------- --------------- --------------- ---------- --------- ----------- ------------
TB  PERFSTAT       X_PART                         P1         PERFSTAT        100
TB  PERFSTAT       X_PART                         P2         PERFSTAT        200
TB  PERFSTAT       X_PART                         P3         PERFSTAT        300
TB  SYS            DYNAMIC_DATASET_EVEN_TMP       SYS_P225   TOOLS
TB  SYS            DYNAMIC_DATASET_EVEN_TMP       SYS_P226   TOOLS
TB  SYS            DYNAMIC_DATASET_EVEN_TMP       SYS_P227   TOOLS
```

plan

Get explain plan for a given hash_value (before 9i)
“sp” - search for a hash value in a statspack

plan hash_value user/pwd [sp]

```
-bash-2.05b$ dbact plan 2545578279

SQL_TEXT                                      Execs/DR/BG/Rows Processes                    bg/exec
--------------------------------------------- --------------------------------------------- ----------
SELECT COUNT(*) FROM DBA_TABLES               8996/5/190771736/8994                         21206.28



PLAN_TABLE_OUTPUT
------------------------------------------------------------------------------------------------------

--------------------------------------------------------------------------------------
| Id  | Operation                          |  Name             | Rows  | Bytes | Cost  |
--------------------------------------------------------------------------------------
|   0 | SELECT STATEMENT                   |                   |       |       |       |
|   1 |  SORT AGGREGATE                    |                   |       |       |       |
|   2 |   NESTED LOOPS                     |                   |       |       |       |
|   3 |    NESTED LOOPS                    |                   |       |       |       |
|   4 |     NESTED LOOPS OUTER             |                   |       |       |       |
|   5 |      NESTED LOOPS OUTER            |                   |       |       |       |
|   6 |       NESTED LOOPS OUTER           |                   |       |       |       |
|   7 |        NESTED LOOPS OUTER          |                   |       |       |       |
|   8 |         NESTED LOOPS               |                   |       |       |       |
|   9 |          TABLE ACCESS FULL         | OBJ$              |       |       |       |
|* 10 |          TABLE ACCESS CLUSTER      | TAB$              |       |       |       |
|* 11 |           INDEX UNIQUE SCAN        | I_OBJ#            |       |       |       |
|  12 |         TABLE ACCESS BY INDEX ROWID| OBJ$              |       |       |       |
|* 13 |          INDEX UNIQUE SCAN         | I_OBJ1            |       |       |       |
|* 14 |        INDEX UNIQUE SCAN           | I_OBJ1            |       |       |       |
|  15 |       TABLE ACCESS CLUSTER         | USER$             |       |       |       |
|* 16 |        INDEX UNIQUE SCAN           | I_USER#           |       |       |       |
|  17 |      TABLE ACCESS CLUSTER          | SEG$              |       |       |       |
|* 18 |       INDEX UNIQUE SCAN            | I_FILE#_BLOCK#    |       |       |       |
|  19 |     TABLE ACCESS CLUSTER           | TS$               |       |       |       |
|* 20 |      INDEX UNIQUE SCAN             | I_TS#             |       |       |       |
|  21 |    TABLE ACCESS CLUSTER            | USER$             |       |       |       |
|* 22 |     INDEX UNIQUE SCAN              | I_USER#           |       |       |       |
--------------------------------------------------------------------------------------

Predicate Information (identified by operation id):
---------------------------------------------------

  10 - filter(BITAND("T"."PROPERTY",1)=0)
  11 - access("O"."OBJ#"="T"."OBJ#")
```

pid2sid

Display sid/serial# for the given pid

```
-bash-2.05b$ dbact pid2sid 21953

SPID         sid/serial PROGRAM                                          SQL_HASH_VALUE PREV_HASH_VALUE
------------ ---------- ------------------------------------------------ -------------- ---------------
21953        8,3762     oracle@linux1 (TNS V1-V3)                            2545578279      2545578279
```

pid2m

Display machine for the given pid

```
-bash-2.05b$ dbact pid2m 21953
Connected.

MACHINE
------------------------------------------------
linux1
```

pid

Get last sql related to unix pid of the session

pid process_id

```
-bash-2.05b$ dbact pid 21953

HASH_VALUE MACHINE                  SQL_TEXT                                 EXECS         DR         BG    BG/EXEC       ROWS
---------- ------------------------ ---------------------------------------- --------- --------- --------- --------- ---------
2545578279 linux1                   SELECT COUNT(*) FROM DBA_TABLES           10518          5 223054878 21204.9509      10516
```

pidtrace

Trace oracle session by pid, using 10046 event, level 12

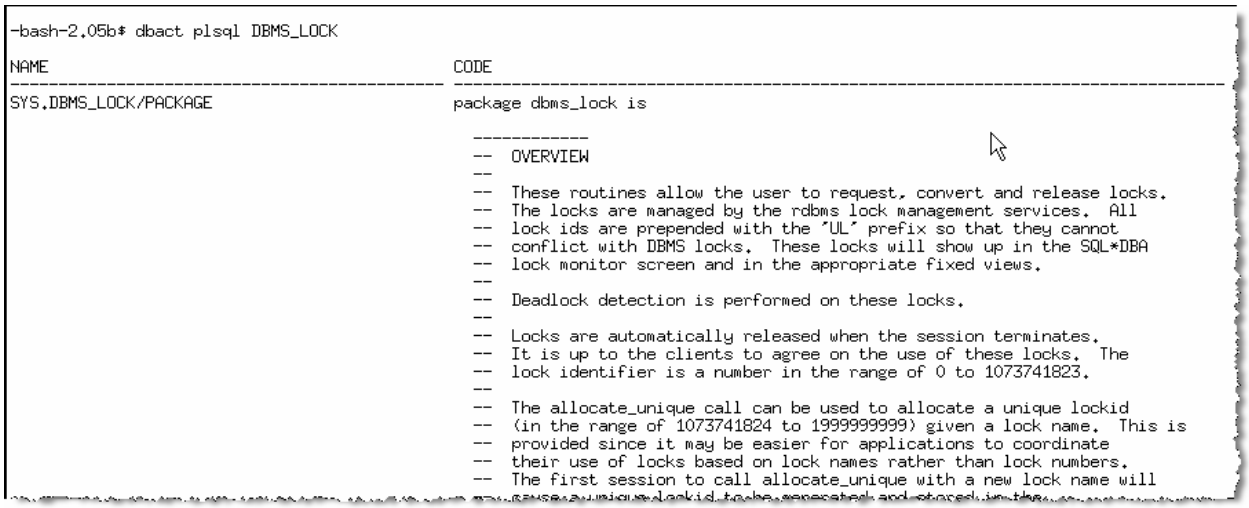
pidtrace pid on/off

```
-bash-2.05b$ dbact pidtrace 23741 on
Oracle pid: 14, Unix process pid: 23741, image: oracle@linux1 (TNS V1-V3)
Statement processed.
```

plsql

Display PLSQL objects and object code

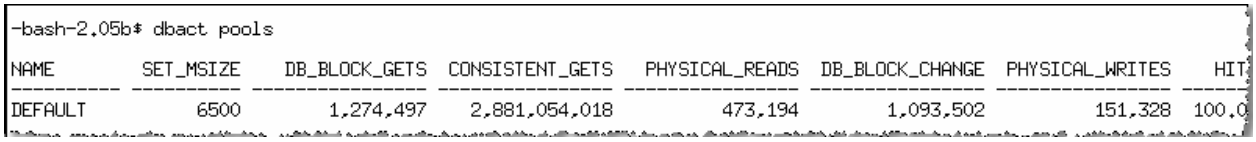
plsql <name|owner|type>



```
-bash-2.05b$ dbact plsql DBMS_LOCK

NAME                                       CODE
------------------------------------------ ------------------------------------------------------------------------------
SYS.DBMS_LOCK/PACKAGE                      package dbms_lock is

                                             ------------
                                             --  OVERVIEW
                                             --
                                             --  These routines allow the user to request, convert and release locks.
                                             --  The locks are managed by the rdbms lock management services.  All
                                             --  lock ids are prepended with the 'UL' prefix so that they cannot
                                             --  conflict with DBMS locks.  These locks will show up in the SQL*DBA
                                             --  lock monitor screen and in the appropriate fixed views.
                                             --
                                             --  Deadlock detection is performed on these locks.
                                             --
                                             --  Locks are automatically released when the session terminates.
                                             --  It is up to the clients to agree on the use of these locks.  The
                                             --  lock identifier is a number in the range of 0 to 1073741823.
                                             --
                                             --  The allocate_unique call can be used to allocate a unique lockid
                                             --  (in the range of 1073741824 to 1999999999) given a lock name.  This is
                                             --  provided since it may be easier for applications to coordinate
                                             --  their use of locks based on lock names rather than lock numbers.
                                             --  The first session to call allocate_unique with a new lock name will
```

pools

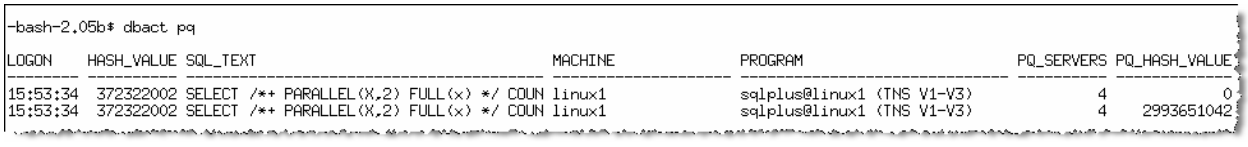
Display buffer pool information



```
-bash-2.05b$ dbact pools

NAME        SET_MSIZE    DB_BLOCK_GETS  CONSISTENT_GETS   PHYSICAL_READS  DB_BLOCK_CHANGE  PHYSICAL_WRITES    HIT
---------- ---------- ---------------- ---------------- ---------------- ---------------- ---------------- ------
DEFAULT          6500        1,274,497    2,881,054,018          473,194        1,093,502          151,328  100.0
```

pq

Information about running parallel queries



```
-bash-2.05b$ dbact pq

LOGON    HASH_VALUE SQL_TEXT                                       MACHINE              PROGRAM                          PQ_SERVERS PQ_HASH_VALUE
-------- ---------- ---------------------------------------------- -------------------- -------------------------------- ---------- -------------
15:53:34  372322002 SELECT /*+ PARALLEL(X,2) FULL(x) */ COUN linux1                sqlplus@linux1 (TNS V1-V3)                4             0
15:53:34  372322002 SELECT /*+ PARALLEL(X,2) FULL(x) */ COUN linux1                sqlplus@linux1 (TNS V1-V3)                4    2993651042
```

ps

Get list of oracle processes

```
-bash-2.05b$ dbact ps
0 S oracle    7775     1  0  75   0    - 58223 schedu Sep01 ?        00:00:01 ora_pmon_DB210G
0 S oracle    7777     1  0  75   0    - 58063 semop  Sep01 ?        00:00:04 ora_psp0_DB210G
0 S oracle    7779     1  0  75   0    - 58063 semop  Sep01 ?        00:00:00 ora_mman_DB210G
0 S oracle    7781     1  0  75   0    - 58587 semop  Sep01 ?        00:03:16 ora_dbw0_DB210G
0 S oracle    7783     1  0  75   0    - 61953 semop  Sep01 ?        00:02:46 ora_lgwr_DB210G
0 S oracle    7785     1  0  75   0    - 58210 semop  Sep01 ?        00:00:13 ora_ckpt_DB210G
0 S oracle    7787     1  0  76   0    - 58469 semop  Sep01 ?        00:07:38 ora_smon_DB210G
0 S oracle    7789     1  0  75   0    - 58467 semop  Sep01 ?        00:00:00 ora_reco_DB210G
0 S oracle    7791     1  0  75   0    - 58484 semop  Sep01 ?        00:00:41 ora_cjq0_DB210G
0 S oracle    7793     1  0  75   0    - 70011 semop  Sep01 ?        00:02:58 ora_mmon_DB210G
0 S oracle    7795     1  0  75   0    - 58065 semop  Sep01 ?        00:00:05 ora_mmnl_DB210G
0 S oracle    7799     1  0  75   0    - 58064 semop  Sep01 ?        00:00:00 ora_qmnc_DB210G
0 S oracle    7805     1  0  75   0    - 58480 semop  Sep01 ?        00:01:41 ora_q000_DB210G
0 S oracle   19373     1  0  75   0    -  9436 schedu Sep03 ?        00:00:01 /export/home/oracle/products/10/bin/tnslsnr LISTENER -inheri
0 S oracle   18040     1  0  75   0    - 58072 semop  Oct03 ?        00:00:00 ora_q001_DB210G
0 S oracle   18471     1  0  75   0    - 47168 schedu Oct03 ?        00:00:00 ora_pmon_DB0
0 S oracle   18473     1  0  75   0    - 47280 semop  Oct03 ?        00:00:11 ora_dbw0_DB0
0 S oracle   18475     1  0  75   0    - 48271 semop  Oct03 ?        00:00:12 ora_lgwr_DB0
0 S oracle   18477     1  0  75   0    - 47251 semop  Oct03 ?        00:00:01 ora_ckpt_DB0
0 S oracle   18479     1  0  75   0    - 47087 semop  Oct03 ?        00:00:12 ora_smon_DB0
0 S oracle   18481     1  0  75   0    - 47010 semop  Oct03 ?        00:00:00 ora_reco_DB0
0 S oracle   18483     1  0  75   0    - 47011 semop  Oct03 ?        00:00:00 ora_cjq0_DB0
5 S oracle   28896 28894  0  75   0    -  1721 schedu Oct05 ?        00:00:03 [sshd]
0 S oracle   28897 28896  0  75   0    -  1124 wait4  Oct05 pts/1    00:00:03 -bash
5 S oracle    3095  3083  0  75   0    -  1721 schedu Oct06 ?        00:00:02 [sshd]
0 S oracle    3096  3095  0  75   0    -  1121 wait4  Oct06 pts/2    00:00:01 -bash
0 S oracle   21951 28897  0  75   0    -  1067 wait4  15:53 pts/1    00:00:00 /bin/bash /export/home/oracle/bin/ora si
0 S oracle   21952 21951  0  75   0    -  3504 schedu 15:53 pts/1    00:00:00 sqlplus
5 S oracle   21985 21983  0  75   0    -  1702 schedu 15:54 ?        00:00:00 [sshd]
0 S oracle   21986 21985  0  75   0    -  1098 wait4  15:54 pts/0    00:00:00 -bash
0 S oracle   23717     1  0  75   0    - 47643 semop  20:49 ?        00:00:19 ora_p000_DB0
0 S oracle   23719     1  0  75   0    - 47643 semop  20:49 ?        00:00:21 ora_p001_DB0
0 S oracle   23731 21986  0  75   0    -  1066 wait4  20:50 pts/0    00:00:00 /bin/bash /export/home/oracle/bin/ora si
0 S oracle   23732 23731  0  75   0    -  3503 pipe_w 20:50 pts/0    00:00:00 sqlplus
0 S oracle   23741 23732  0  75   0    - 47188 semop  20:50 ?        00:00:50 oracleDB0 (DESCRIPTION=(LOCAL=YES)(ADDRESS=(PROTOCOL=beq)))
0 S oracle   23776 21952  0  75   0    - 47174 pipe_w 20:53 ?        00:00:14 oracleDB0 (DESCRIPTION=(LOCAL=YES)(ADDRESS=(PROTOCOL=beq)))
```

riddump

Dump data block containing provided row id

```
-bash-2.05b$ dbact riddump AAAC+lAABAAAGqaAAA
```

rm

Get resource manager information

```
-bash-2.05b$ dbact rm

PLAN                                 CPU P1-8                        SESS/PQ MAX               STATUS
------------------------------------ ------------------------------- ------------------------- --------------
SYSTEM_PLAN/SYS_GROUP                100/0/0/0/0/0/0/0               /
SYSTEM_PLAN/OTHER_GROUPS             0/100/0/0/0/0/0/0               /
SYSTEM_PLAN/LOW_GROUP                0/0/100/0/0/0/0/0               /
INTERNAL_QUIESCE/SYS_GROUP           0/0/0/0/0/0/0/0                 /
INTERNAL_QUIESCE/OTHER_GROUPS        0/0/0/0/0/0/0/0                 0/
INTERNAL_PLAN/OTHER_GROUPS           0/0/0/0/0/0/0/0                 /
```

rt

Get database response time breakdown

```
-bash-2.05b$ dbact rt

CATEGORY TYPE          WAIT_EVENT                              SECONDS    PCT
-------- ------------- --------------------------------------- ---------- ------
CPU time parsing       n/a                                              6   .00%
         reloads       n/a                                              1   .00%
         execution     n/a                                          1,135   .00%

disk I/O normal I/O    db file sequential read                 18,148,401 35.06%
         full scans    db file scattered read                     341,564   .66%
         direct I/O    direct path read                             1,018   .00%
                       direct path write                                1   .00%
         other I/O     db file single write                        51,042   .10%
                       control file heartbeat                      39,022   .08%
                       control file sequential read                13,547   .03%
                       control file parallel write                  8,456   .02%

waits    DBWn writes   free buffer waits                        3,616,744  6.99%
                       rdbms ipc reply                             80,964   .16%
                       local write wait                               222   .00%
         LGWR writes   log file switch completion                  492,534   .95%
                       log buffer space                            127,598   .25%
         enqueue locks enqueue                                  21,735,180 41.99%
         other locks   buffer busy waits                        4,748,595  9.17%
                       latch free                                  244,891   .47%
                       library cache lock                          204,314   .39%
                       library cache load lock                      29,401   .06%
                       row cache lock                               15,053   .03%
                       library cache pin                                 7   .00%

latency  commits       log file sync                                 7,599   .01%
         network       SQL*Net break/reset to client                10,739   .02%
                       SQL*Net more data to client                   1,678   .00%
                       SQL*Net message to client                     1,492   .00%
                       SQL*Net more data from client                    25   .00%
         process ctl   process startup                                 885   .00%
         misc          index (re)build online cleanup            1,839,888  3.55%
                       async disk IO                                   299   .00%
                       reliable message                                274   .00%
                       instance state change                            11   .00%
                       refresh controlfile command                       9   .00%
```

sessions

Displays list of active sessions

```
-bash-2.05b$ dbact sessions

SID        USERNAME             PROGRAM
---------- -------------------- ------------------------------------------------
8,3773     SYS                  sqlplus@linux1 (TNS V1-V3)
13,19300   PERFSTAT             sqlplus@linux1 (TNS V1-V3)
```

segfs

Display segment distribution across filesystems

segfs <segment name pattern>

```
-bash-2.05b$ dbact segfs SYSSTAT

SEGMENT_NAME                       FS                                                  Size(Mb)
---------------------------------- --------------------------------------------------- ----------
STATS$SYSSTAT                      /export/home/oracle/products/920/oradata/DB0/              570
STATS$SYSSTAT_PK                   /export/home/oracle/products/920/oradata/DB0/          577.6875
STATS$SYSSTAT_ORIG                 /export/home/oracle/products/920/oradata/DB0/               12
```

seqlike

Show all sequence names contained in pattern

seqlike <pattern>

```
-bash-2.05b$ dbact seqlike SNAPSHOT

SEQUENCE_OWNER                 SEQUENCE_NAME                                       CACHE_SIZE LAST_NUMBER
------------------------------ --------------------------------------------------- ---------- -----------
PERF8                          STATS$SNAPSHOT_ID                                           10          21
PERFSTAT                       STATS$SNAPSHOT_ID                                           10          76
PS                             QUEST_IX_SNAPSHOT_SEQ                                      100        7987
PS                             STATS$SNAPSHOT_ID                                           10         870
PS2                            STATS$SNAPSHOT_ID                                           10         870
```

shpinfo

Display shared pool information

shpinfo <internal>

```
-bash-2.05b$ dbact shpinfo internal

NAME                          Bytes/MB
--------------------------- ----------
sql area                    6.55889511
library cache               2.49460602
dictionary cache            2.03820801


CONTENTS            CHUNKS RECREATABLE   FREEABLE       TOTAL
---------------- ---------- ---------- ---------- ----------
Global Context            1                   224        224
KGK contexts              2                  2376       2376
KGK heap                  2       3812                  3812
KGL handles             890     322024                322024
KGLS heap               467     136500     542372     678872
KQR PO                  602     297208                297208
KQR SO                   15       4260                  4260
KWQI bufq Heap            1                   200        200
LISTEN ADDRESS            2                  1100       1100
MS alert log              1                 10252      10252
MTTR advisory             3       8408       4248      12656
PARAMETER ENTRY           1                    16         16
PARAMETER TABLE           1                  1036       1036
PL/SQL DIANA            282      27392     473056     500448
PL/SQL MPCODE            50      12360      71664      84024
PLS cca hp desc           1                   208        208
PLS non-lib hp            2        604       2096       2700
PRESENTATION TA           1                  1036       1036
PX msg pool               1                 15028      15028
PX subheap                1      16852                 16852
SERVICE NAME EN           1                    32         32
SERVICE NAMES T           1                  1036       1036
active checkpo            2                   704        704
character set m           5                 29768      29768
character set o           4                330892     330892
fixed allocatio          47       1504                  1504
free memory             284                          37679448
joxs heap                 1                    92         92
joxs heap init            1        408                   408
kzull                     4                   176        176
library cache          3203     391528     899976    1291504
listener addres           1                    16         16
modification h            5                 10300      10300
multiblock rea            2                  4144       4144
obj htab chunk           33                237072     237072
parameters                6       5568                  5568
permanent memor           7                          19786804
service names a           1                    32         32
session param v          10                172880     172880
sim memory hea            6       4248      21240      25488
sql area               2295     623136    6290324    6913460
trigger defini            6       1112         80       1192
trigger inform            4        640                   640
trigger source            5        764                   764


reserved pool

CONTENTS            CHUNKS RECREATABLE   FREEABLE       TOTAL
---------------- ---------- ---------- ---------- ----------
free memory               17                          2853620
reserved stoppe           34                   680        680
```

shpfree

Display shared pool free memory fragmentation (per bucket)

```
-bash-2.05b$ dbact shpfree

POOL         NAME                           BYTES
------------ ------------------------------ ----------------
shared pool  free memory                    41,776,268


 RECURRENT  TRANSIENT    FLUSHED   PINS AND   ORA-4031 LAST ERROR
    CHUNKS     CHUNKS     CHUNKS   RELEASES     ERRORS       SIZE
---------- ---------- ---------- ---------- ---------- ----------
       594       1454       1679     124117          0          0


    BUCKET FREE_SPACE FREE_CHUNKS AVERAGE_SIZE    BIGGEST
---------- ---------- ----------- ------------ ----------
         1        360          18           20         20
         2        240          10           24         24
         3        420          15           28         28
         4        768          24           32         32
         5        576          16           36         36
         6        560          14           40         40
         7        176           4           44         44
         8        240           5           48         48
         9        676          13           52         52
        10        728          13           56         56
        11        900          15           60         60
        12        896          14           64         64
        13        476           7           68         68
        14        864          12           72         72
        15        532           7           76         76
        16        720           9           80         80
        17        672           8           84         84
        18       1672          19           88         88
        19       1472          16           92         92
       207       1360           1         1360       1360
       254   37695304          44       856711    4026368
```

sid

Display sid related information

sid libblock

a) Show sessions holding locks in the library cache

sid trans

b) Transaction details by sid

```
-bash-2.05b$ dbact sid trans 11

NAME                           USERNAME                         SID    SERIAL# Os/pid            READS STATUS
------------------------------ ------------------------------ ---------- ---------- ------------ ---------- --------
_SYSSMU18$                     SYS                                11       3139 22007          458578418 ACTIVE
```

sid users

c) User details by sid

```
-bash-2.05b$ dbact sid users 11

SIDSER       USERNAME LOGON_TIM SQL_ADDR OSUSER   SRVPID                 MODULE               STAT PROGRAM
------------ -------- --------- -------- -------- ---------------------- -------------------- ---- ----------------------------
'11,3139'    SYS      08-OCT-06 56B0F108 oracle   22007                  sqlplus@linux1 (TNS  A    sqlplus@linux1 (TNS V1-V3
                                                                          V1-V3)                    )
```

sid2pid

Display pid for the given sid and serial#

sid2pid <sid> <serial#>

```
-bash-2.05b$ dbact sid2pid 11

SPID
------------
22007
```

sidstat

Display statistic for the session by SID

```
-bash-2.05b$ dbact sidstat 11

NAME                                                                  SID STATISTIC#      VALUE
---------------------------------------------------------------- ---------- ---------- ----------
CPU used by this session                                              11         12          1
CPU used when call started                                            11         11          1
SQL*Net roundtrips to/from client                                     11        241          4
buffer is not pinned count                                            11        226  214040074
buffer is pinned count                                                11        225  222707281
bytes received via SQL*Net from client                                11        240        361
bytes sent via SQL*Net to client                                      11        239       1216
calls to get snapshot scn: kcmgss                                     11        110      89915
cluster key scan block gets                                           11        196  185502574
cluster key scans                                                     11        195  123518505
consistent gets                                                       11         41  381416651
consistent gets - examination                                         11        102  193918064
cursor authentications                                                11        210          2
enqueue releases                                                      11         27          2
enqueue requests                                                      11         25          2
```

sga

Display current SGA memory usage

```
-bash-2.05b$ dbact sga

POOL        NAME                           SIZE_KB
----------- -------------------------- ----------
shared pool free memory                      3058
shared pool library cache                    3131
large pool  free memory                      8192
large pool  (total)                          8192
shared pool sql area                        42964
shared pool (total)                         49155
Total                                       57347
```

smm

SQL memory manager stats for active workareas

```
-bash-2.05b$ dbact smm

PROFILE                                                          CNT PERCENTAGE
---------------------------------------------------------------- ---------- ----------
workarea executions - optimal                                 239407        100
workarea executions - onepass                                     41          0
workarea executions - multipass                                   20          0


NAME                                                  VALUE
----------------------------------------------------- --------------------
aggregate PGA target parameter                                  24 MB
aggregate PGA auto target                                       16 MB
global memory bound                                           1228 KB
total expected memory                                            0 KB
drifting from expected memory                                   72 KB
PGA max size parameter                                         200 MB
total PGA inuse                                               6032 KB
total PGA allocated                                           8975 KB
maximum PGA allocated                                           21 MB
total freeable PGA memory                                      192 KB
process retain PGA size                                        256 KB
max active processes                                            15
PGA memory freed back to OS                                    403 MB
percentage freeable memory to be released                        0
total PGA used for auto workareas                                0 KB
maximum PGA used for auto workareas                           3668 KB
total PGA used for manual workareas                              0 KB
maximum PGA used for manual workareas                            0 KB
over allocation count                                            0
bytes processed                                              66217 MB
extra bytes read/written                                      6535 MB
cache hit percentage                                          9101
recompute count (queries)                                       60
recompute count (total)                                     142660
last recompute time                                             52 us
maximum recompute time                                     1017989 us
cumulated IMM deamon time                                 10441468 us
maximum IMM deamon time                                    1018000 us
cumulated v$pga_advice simulation time                      746497 us
workarea simulated count                                       539
interrupt v$pga_advice simulation count                          0
skip v$pga_advice simulation count                               2
BUG count in v$pga_advice                                        0
```

smu

Display system managed undo segment statistic

```
-bash-2.05b$ dbact  smu

                                                UNXPSTEAL UNXPBLKREL UNXPBLKREU
 UNDO   UNDOBLKS   TXNCOUNT  MAXCONC               CNT       CNT       CNT EXPSTEALCNT EXPBLKRELCNT EXPBLKREUCNT SSOLDERRCNT NOSPACEERRCNT
----- ---------- ---------- -------- ---------- ---------- ---------- ----------- ------------ ------------ ----------- -------------
    8       9575     249249       68          0          0          0           0            0            0           0             0
```

snap

Display replication snapshots status

sql

Display SQL Text and performance statistics information for a given hash value

sql hvalue

```
-bash-2.05b$ dbact sql 2391723893
Connected.

SQL_TEXT                                                    C         Ex DISK_READS         bg    bg/exec       rows LOAD_TIME
---------------------------------------------------------- ---- ---------- ---------- ---------- ---------- ---------- -----------
SELECT COUNT(*) FROM DBA_USERS                              1       7505          7     630686      84.02       7504 09-28/18:14
```

sqltext

Display sqltext for a given hash value

sqltext hvalue

```
-bash-2.05b$ dbact sqltext 2391723893
Connected.

SQL_TEXT
------------------------------------------------------------------------
SELECT COUNT(*) FROM DBA_USERS
```

sqlid2hash

Display hash value of the sql_id

```
-bash-2.05b$ dbact sqlid2hash 1fkda59hj1r0x

HASH_VALUE
----------
1628494877
```

sqllike

View sqltext like pattern

sqllike pattern

```
-bash-2.05b$ dbact sqllike USERS
Connected.

HASH_VALUE SQL_TEXT                                                          VERS      EXECS         DR         BG       ROWS
---------- ------------------------------------------------------------------ ------ ---------- ---------- ---------- ----------
2391723893 SELECT COUNT(*) FROM DBA_USERS                                        1      34872          7    2929598      34872
3741572526     select b.hash_value, b.piece, b.sql_text                    ,     1          1          0          0          0
                    count(*) VERS,            sum(executions)  execs, su
          m(disk_reads)      DR     ,           sum(buffer_gets) bg    , s
          um(rows_processed ) "ROWS"     from v$sql a,          v$sqltext
          b     where a.hash_value = b.hash_value       and exists ( selec
          t 1 from v$sqltext c where a.hash_value = c.hash_value and c.sql
          _text like '%USERS%' )     group by b.hash_value, b.piece, b.sql
          _text     order by 1, 2
```

sqlver

Display sql with the high number of child versions and SQL not using bind variables

```
dbact sqlver

HASH_VALUE   COUNT(*)        Mem       Open       Exec SQL
---------- ---------- ---------- ---------- ---------- ----------------------------------------
4053871785          7      89174          0         19 DELETE FROM MGMT_METRICS_1HOUR WHERE ROW


UNBOUND_SQL/TOTAL_SQL     UNBOUND_SQL_PCT
------------------------- ---------------
116/810                             14.32

Active unbound SQL

SYS             SELECT INSTANCE_NAME, HOST_NAME, NVL(GVI          1
SYS             BEGIN  dbms_ha_alerts_prvt.clear_instanc          1
SYS             LOCK TABLE RECENT_RESOURCE_INCARNATIONS$          1
SYS             INSERT INTO RECENT_RESOURCE_INCARNATIONS          1
SYS             DELETE FROM RECENT_RESOURCE_INCARNATIONS          2
SYS             select  user_name, substr(a.sql_text,1,4          1
SYS             SELECT INSTANCE_NAME, HOST_NAME, STARTUP          1
```

space

Display used/free space across all tablespace

Display used/free space for tablespace name pattern

space <tablespace name pattern>

```
-bash-2.05b$ dbact space TOOLS

TABLESPACE_NAME                          MB (used)
---------------------------------------- ----------
TOOLS                                          1796


TABLESPACE_NAME                          MB (free)
---------------------------------------- ----------
TOOLS                                           977
```

spdiff

Call spdiff utility to generate text statspack comparison reports (optional module)

statname

Display names of statistics by pattern

statname <pattern>

```
-bash-2.05b$ dbact statname phys

NAME                                                                  STATISTIC#
---------------------------------------------------------------------- ----------
physical reads                                                                42
physical writes                                                               46
physical writes non checkpoint                                                47
physical reads direct                                                         97
physical writes direct                                                        98
physical reads direct (lob)                                                   99
physical writes direct (lob)                                                 100
```

synlike

Show all synonym names contained in pattern

synlike <pattern>

```
-bash-2.05b$ dbact synlike STATS

OWNER                          SYNONYM_NAME                   TABLE_NAME                     TABLE_OWNER
------------------------------ ------------------------------ ------------------------------ ------------------------------
PUBLIC                         ALL_REPRESOL_STATS_CONTROL     ALL_REPRESOL_STATS_CONTROL     SYS
PUBLIC                         ALL_USTATS                     ALL_USTATS                     SYS
PUBLIC                         DBA_REPRESOL_STATS_CONTROL     DBA_REPRESOL_STATS_CONTROL     SYS
PUBLIC                         DBA_USTATS                     DBA_USTATS                     SYS
PUBLIC                         DBMS_STATS                     DBMS_STATS                     SYS
PUBLIC                         GV$LOGMNR_STATS                GV_$LOGMNR_STATS               SYS
PUBLIC                         GV$LOGSTDBY_STATS              GV_$LOGSTDBY_STATS             SYS
PUBLIC                         INDEX_STATS                    INDEX_STATS                    SYS
PUBLIC                         QUEST_SPC_INDEX_STATS          QUEST_SPC_INDEX_STATS          SYSTEM
PUBLIC                         STATS$BG_EVENT_SUMMARY         STATS$BG_EVENT_SUMMARY         PERFSTAT
PUBLIC                         STATS$BUFFER_POOL_STATISTICS   STATS$BUFFER_POOL_STATISTICS   PERFSTAT
PUBLIC                         STATS$DATABASE_INSTANCE        STATS$DATABASE_INSTANCE        PERFSTAT
PUBLIC                         STATS$DB_CACHE_ADVICE          STATS$DB_CACHE_ADVICE          PERFSTAT
PUBLIC                         STATS$DLM_MISC                 STATS$DLM_MISC                 PERFSTAT
PUBLIC                         STATS$ENQUEUE_STAT             STATS$ENQUEUE_STAT             PERFSTAT
PUBLIC                         STATS$FILESTATXS               STATS$FILESTATXS               PERFSTAT
```

sysview

Display all SYS user views

```
-bash-2.05b$ dbact sysview

VIEW_NAME
------------------------------
USER_ALL_TABLES
USER_APPLICATION_ROLES
USER_AQ_AGENT_PRIVS
USER_ARGUMENTS
USER_ASSOCIATIONS
USER_ATTRIBUTE_TRANSFORMATIONS
USER_AWUI_OBJECT
```

tablike

Show all table names contained in pattern

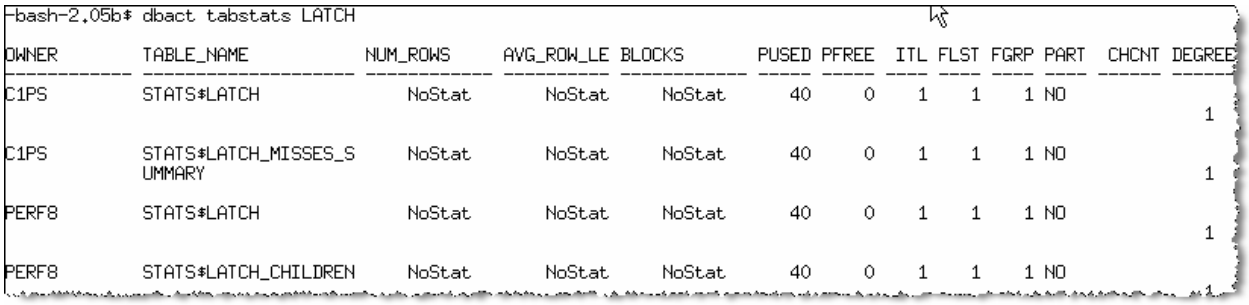
tablike <table_name_pattern> | <schema_owner_pattern>

OWNER	TABLE_NAME	TABLESPACE_NAME	INI_TRANS	FREELISTS	NEXT_EXTENT	PCT_INCREASE
C1PS	STATS$FILESTATXS	PERFSTAT	1	1		
C1PS	STATS$LATCH	PERFSTAT	1	1		
C1PS	STATS$LATCH_MISSES_SUMMARY	PERFSTAT	1	1		
C1PS	STATS$PARAMETER	PERFSTAT	1	1		
C1PS	STATS$ROLLSTAT	PERFSTAT	1	1		
C1PS	STATS$SNAPSHOT	PERFSTAT	1	1		
C1PS	STATS$SQLTEXT	PERFSTAT	1	1		
C1PS	STATS$SQL_SUMMARY	PERFSTAT	1	1		
C1PS	STATS$SYSSTAT	PERFSTAT	1	1		
C1PS	STATS$SYSTEM_EVENT	PERFSTAT	1	1		
PERF8	STATS$BG_EVENT_SUMMARY	PERFSTAT	1	1		
PERF8	STATS$BUFFER_POOL	PERFSTAT	1	1		
PERF8	STATS$BUFFER_POOL_STATISTICS	PERFSTAT	1	1		
PERF8	STATS$DATABASE_INSTANCE	PERFSTAT	1	1		
PERF8	STATS$ENQUEUESTAT	PERFSTAT	1	1		
PERF8	STATS$FILESTATXS	PERFSTAT	1	1		
PERF8	STATS$IDLE_EVENT	PERFSTAT	1	1		
PERF8	STATS$LATCH	PERFSTAT	1	1		
PERF8	STATS$LATCH_CHILDREN	PERFSTAT	1	1		
PERF8	STATS$LATCH_MISSES_SUMMARY	PERFSTAT	1	1		
PERF8	STATS$LEVEL_DESCRIPTION	PERFSTAT	1	1		
PERF8	STATS$LIBRARYCACHE	PERFSTAT	1	1		
PERF8	STATS$PARAMETER	PERFSTAT	1	1		
PERF8	STATS$ROLLSTAT	PERFSTAT	1	1		
PERF8	STATS$ROWCACHE_SUMMARY	PERFSTAT	1	1		
PERF8	STATS$SESSION_EVENT	PERFSTAT	1	1		
PERF8	STATS$SESSTAT	PERFSTAT	1	1		
PERF8	STATS$SGASTAT_SUMMARY	PERFSTAT	1	1		
PERF8	STATS$SGAXS	PERFSTAT	1	1		
PERF8	STATS$SNAPSHOT	PERFSTAT	1	1		
PERF8	STATS$SQL_SUMMARY	PERFSTAT	1	1		
PERF8	STATS$STATSPACK_PARAMETER	PERFSTAT	1	1		

tabstats

Display table statistics by table/owner name pattern

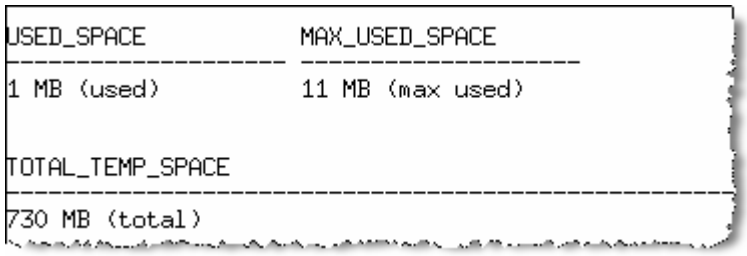
tabstats <owner|table name pattern>



```
-bash-2.05b$ dbact tabstats LATCH

OWNER        TABLE_NAME           NUM_ROWS     AVG_ROW_LE BLOCKS       PUSED PFREE  ITL FLST FGRP PART  CHCNT DEGREE
------------ -------------------- ------------ ---------- ------------ ----- ----- ---- ---- ---- ---- ------ ------
C1PS         STATS$LATCH              NoStat       NoStat     NoStat      40     0    1    1    1 NO                1

C1PS         STATS$LATCH_MISSES_S     NoStat       NoStat     NoStat      40     0    1    1    1 NO
             UMMARY                                                                                              1

PERF8        STATS$LATCH              NoStat       NoStat     NoStat      40     0    1    1    1 NO
                                                                                                                 1

PERF8        STATS$LATCH_CHILDREN     NoStat       NoStat     NoStat      40     0    1    1    1 NO
                                                                                                                 1
```

temp

Display temporary tablespaces used space statistics



```
USED_SPACE           MAX_USED_SPACE
-------------------- --------------------
1 MB (used)          11 MB (max used)


TOTAL_TEMP_SPACE
--------------------------------------------------
730 MB (total)
```

tempu

View used space in temp tbs for a user

top

Get last sql related to top CPU processes

top <number>

```
-bash-2.05b$ dbact top 10

Top CPU Pids:  0.6/23741

SPID         MACHINE              HASH_VALUE SQL_TEXT                                 EXECS         DR           BG     ROWS
------------ -------------------- ---------- ---------------------------------------- ------- ---------- ---------- --------
23741        linux1/sqlplus@linux 2026718016 SELECT /*+ PARALLEL(X,2) FULL(x) */ COUN   83349          1     174082    83346
             1 (TNS V1-V3)                   T(*) FROM STATS$SNAPSHOT X
```

tracemachine

Trace all oracle sessions for given machine pattern, using event 10046, level 12

tracemachine <machine_name_patthern> on/off

tracesql

Trace sql for given number of sessions, using 10046, level 12

tracesql <hash> on/off <sess>

tran

Display currently active transactions

```
-bash-2.05b$ dbact tran

 RBS START_TIME           MACHINE    PROGRAM         USERNAME SQL_HASH                        LOG_IO     PHY_IO     CR_GET  CR_CHANGE
---- ------------------- ---------- --------------- -------- ------------------------------ ---------- ---------- ---------- ----------
  17 10/08/06 23:08:57   linux1     sqlplus@linux1  SYS      0/1035148405                            5          0          3          0
                                    (TNS V1-V3)
```

tran obj

Display list of objects used by transactions

```
-bash-2.05b$ dbact tran obj

Sid,Ser#/
Tran. Addr      START_TIME          OS User/DB User/Owner  Object Name          Type       RBS    # of Recs  # of Blks
--------------- ------------------- ---------------------- -------------------- ---------- ------ ---------- ----------
8.3788/55784784 10/08/06 23:08:57   oracle/SYS/SYS         X                    TABLE      17/_S           1          1
                                                                                           YSSMU
                                                                                           17$
```

tr

Lists triggers/generate enable/disable DDL/display trigger body

tr <none|on|off|tr_name>

```
-bash-2.05b$ dbact tr

TABLE_OWNER  TABLE_NAME                     OWNER        TRIGGER_NAME                   STATUS   TRIGGERING_EVENT
------------ ------------------------------ ------------ ------------------------------ -------- --------------------
SYS                                         SYS          SYS_LOGON                      DISABLED LOGON
SYS                                         SYS          SYS_LOGOFF                     DISABLED LOGOFF
SYS                                         SYS          NO_VM_DROP                     DISABLED DROP
SYS                                         SYS          NO_VM_CREATE                   DISABLED CREATE
SYS                                         SYS          AW_DROP_TRG                    ENABLED  DROP
```

tr on/off

```
-bash-2.05b$ dbact tr on

'ALTERTRIGGER'||OWNER||'.'||TRIGGER_NAME||'ENABLE;'
--------------------------------------------------------------------------------
alter trigger SYSTEM.REPCATLOGTRIG enable;
alter trigger SYSTEM.DEF$_PROPAGATOR_TRIG enable;
alter trigger SYS.SYS_LOGON enable;
alter trigger SYS.SYS_LOGOFF enable;
alter trigger SYS.NO_VM_DROP enable;
alter trigger SYS.NO_VM_CREATE enable;
alter trigger SYS.AW_DROP_TRG enable;
```

tr <trigger name pattern>

```
-bash-2.05b$ dbact tr AW_DROP_TRG

OWNER        TRIGGER_NAME                   TRIGGER_BODY
------------ ------------------------------ --------------------------------------------------------------------------------
SYS          AW_DROP_TRG                    BEGIN
                                              aw_drop_proc(ora_dict_obj_type, ora_dict_obj_name, ora_dict_obj_owner);
                                            END;
```

ts

List database tablespaces/ts of the datafile

ts <datafile_name>

```
-bash-2.05b$ dbact ts 10

TABLESPACE_NAME                FILE_NAME                                                                      df_size_MB
------------------------------ ------------------------------------------------------------------------------ ----------
TOOLS                          /export/home/oracle/products/920/oradata/DB0/tools03.dbf;#10                        1,001
```

sidtrace

Trace oracle session by sid, using 10046 event,level 12

sidtrace sid serial# on/off

users

Show all database users

users

```
-bash-2.05b$ dbact users

USERNAME                       DEFAULT_TABLESPACE             TEMPORARY_TABLESPACE           RG
------------------------------ ------------------------------ ------------------------------ ------------------------------
WMSYS                          SYSTEM                         TEMP01                         DEFAULT_CONSUMER_GROUP
W1SP                           PERFSTAT                       TEMP01                         DEFAULT_CONSUMER_GROUP
SYSTEM                         SYSTEM                         TEMP01                         SYS_GROUP
SYS                            SYSTEM                         TEMP01                         SYS_GROUP
SPOT                           INDX                           TEMP01                         DEFAULT_CONSUMER_GROUP
SCOTT                          USERS                          TEMP01                         DEFAULT_CONSUMER_GROUP
P_TEST                         PERFSTAT                       TEMP01                         DEFAULT_CONSUMER_GROUP
PSP_Z                          PERFSTAT                       TEMP01                         DEFAULT_CONSUMER_GROUP
```

vlike

Show all views according to pattern

vlike <view|owner name pattern>

```
-bash-2.05b$ dbact vlike LATCH

VIEW                                                                 STATUS
-------------------------------------------------------------------- ------
SYS.GV_$DLM_LATCH                                                    VALID
SYS.GV_$LATCH                                                        VALID
SYS.GV_$LATCHHOLDER                                                  VALID
SYS.GV_$LATCHNAME                                                    VALID
SYS.GV_$LATCH_CHILDREN                                               VALID
SYS.GV_$LATCH_MISSES                                                 VALID
SYS.GV_$LATCH_PARENT                                                 VALID
SYS.V_$DLM_LATCH                                                     VALID
SYS.V_$LATCH                                                         VALID
```

vdesc

Display views definition

vdesc <view name pattern>

```
-bash-2.05b$ dbact vdesc DBA_LOCK

VIEW                           TEXT
------------------------------ --------------------------------------------------------------------------------
SYS.DBA_LOCK                   select
                                sid session_id,
                                decode(type,
                                       'MR', 'Media Recovery',
                                       'RT', 'Redo Thread',
                                       'UN', 'User Name',
                                       'TX', 'Transaction',
                                       'TM', 'DML',
                                       'UL', 'PL/SQL User Lock',
                                       'DX', 'Distributed Xaction',
                                       'CF', 'Control File',
                                       'IS', 'Instance State',
                                       'FS', 'File Set',
                                       'IR', 'Instance Recovery',
                                       'ST', 'Disk Space Transaction',
                                       'TS', 'Temp Segment',
                                       'IV', 'Library Cache Invalidation',
                                       'LS', 'Log Start or Switch',
                                       'RW', 'Row Wait',
                                       'SQ', 'Sequence Number',
                                       'TE', 'Extend Table',
                                       'TT', 'Temp Table',
                                       type) lock_type,
                                decode(lmode,
                                       0, 'None',           /* Mon Lock equivalent */
                                       1, 'Null',           /* N */
                                       2, 'Row-S (SS)',     /* L */
                                       3, 'Row-X (SX)',     /* R */
                                       4, 'Share',          /* S */
                                       5, 'S/Row-X (SSX)',  /* C */
                                       6, 'Exclusive',      /* X */
```

vview

Show all v\\$ tables (v$)

```
-bash-2.05b$ dbact vview SQL

NAME
------------------------------
V$SQL
V$SQLAREA
V$SQLTEXT
V$SQLTEXT_WITH_NEWLINES
V$SQL_BIND_DATA
V$SQL_BIND_METADATA
V$SQL_CURSOR
V$SQL_PLAN
V$SQL_PLAN_STATISTICS
V$SQL_PLAN_STATISTICS_ALL
V$SQL_REDIRECTION
V$SQL_SHARED_CURSOR
V$SQL_SHARED_MEMORY
V$SQL_WORKAREA
V$SQL_WORKAREA_ACTIVE
V$SQL_WORKAREA_HISTOGRAM
```

waiters

Display currently waiting V$SESSION_WAIT events (10 samples)

```
EVENT                          T0   T1   T2   T3   T4   T5   T6   T7   T8   T9
------------------------------ ---- ---- ---- ---- ---- ---- ---- ---- ---- ----
control file sequential read                                1
enqueue                                      1    1
SQL*Net message to client       1    1    1    1    1    1    1    1    1    1
async disk IO                   1    1    1    1    1    1    1    1    1    1
wakeup time manager             1    1    1    1    1    1    1    1    1    1
ges remote message              1    1    1    1    1    1    1    1    1    1
global cache cr request         1    1    1    2    1    1    1    1    1    1
db file sequential read         2    2    2    1    2    2    2    2    2    2
gcs remote message              2    2    2    2    2    2    2    2    2    2
queue messages                  2    2    2    2    2    2    2    2    2    2
```

waitname

Display event names for the given pattern

```
-bash-2.05b$ dbact waitname seq

NAME                                                             EVENT#
---------------------------------------------------------------- ------
control file sequential read                                        142
LGWR sequential i/o                                                 178
RFS sequential i/o                                                  181
ARCH sequential i/o                                                 186
log file sequential read                                            194
db file sequential read                                             207
```

wseg

Display segment,SQL,file, block, etc for sesions that are waiting

```
EVENT                                    SQL/Seg/Part                                                F/B      Wait Sec/Time
---------------------------------------- ----------------------------------------------------------- -------- -------------
db file sequential read/CM\APP08         1953984682/DATA_SUMMARY_IND1/                               7/143036 12/0
global cache null to x/CM\APP02          840539955/TEMP_INFO_IND/                                    13/15922 3/0
```

waitcnt

Events for which # processes waiting for

waits

Events,p1,p2,p2 for which processes waiting for

wplan

Get explain plan with work area information

wplan <address>

xview

Show all X\\$ tables (x$)

```
-bash-2.05b$ dbact xview KGL

NAME
------------------------------
X$KGLAU
X$KGLBODY
X$KGLCLUSTER
X$KGLCURSOR
X$KGLDP
X$KGLINDEX
X$KGLLC
X$KGLLK
```