

/

ALTER SYSTEM

KILL SESSION

alter_system_kill_session_stmt:



```
alter_system_kill_session_stmt: 'ALTER SYSTEM KILL SESSION' number
```

SessionID .

, SYS KILL .

CANCEL SESSION

alter_system_cancel_session_stmt:



```
alter_system_cancel_session_stmt ::= 'ALTER SYSTEM CANCEL SESSION' number
```

SessionID .

, ., KILL .

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CHECK DISK_USAGE

alter_system_check_disk_stmt:



```
alter_system_check_disk_stmt ::= 'ALTER SYSTEM CHECK DISK_USAGE'
```

V\$STORAGE Log Table **DC_TABLE_FILE_SIZE** .

Process Failure Power Failure

INSTALL LICENSE

alter_system_install_license_stmt:



```
alter_system_install_license_stmt ::= 'ALTER SYSTEM INSTALL LICENSE'
```

(\$MACHBASE_HOME/conf/license.dat) .

INSTALL LICENSE (PATH)

alter_system_install_license_path_stmt:

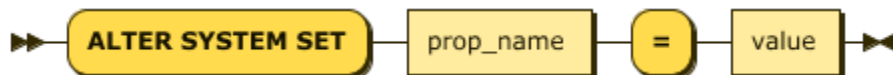


```
alter_system_install_license_path_stmt ::= 'ALTER SYSTEM INSTALL LICENSE' '=' ''' path '''
```

SET

5.6 .

alter_system_set_stmt:



```
alter_system_set_stmt ::= 'ALTER SYSTEM SET' prop_name '=' value
```

System Property . Property .

- QUERY_PARALLEL_FACTOR
- DEFAULT_DATE_FORMAT

- TRACE_LOG_LEVEL
- PAGE_CACHE_MAX_SIZE

ALTER SESSION

SET SQL_LOGGING

alter_session_sql_logging_stmt:



```
alter_session_sql_logging_stmt ::= 'ALTER SESSION SET SQL_LOGGING' '=' flag
```

Trace Log .

Bit Flag .

- 0x1 : Parsing, Validation, Optimization .
- 0x2 : DDL .

, 2 DDL, 3 DDL .

, .

```
Mach> alter session set SQL_LOGGING=1;
Altered successfully.
Mach> exit
```

SET DEFAULT_DATE_FORMAT

alter_session_set_defalut_dateformat_stmt:



```
alter_session_set_defalut_dateformat_stmt ::= 'ALTER SESSION SET DEFAULT_DATE_FORMAT' '=' date_format
```

Datetime .

, Property **DEFAULT_DATE_FORMAT** .

Property , "YYYY-MM-DD HH24:MI:SS mmm:uuu:nnn" .

, Datetime .

v\$session Default Date Format . . .

```

Mach> CREATE TABLE time_table (time datetime);
Created successfully.

Mach> SELECT DEFAULT_DATE_FORMAT from v$$session;
default_date_format
-----
YYYY-MM-DD HH24:MI:SS mmm:uuu:nnn
[1] row(s) selected.

Mach> INSERT INTO time_table VALUES(TO_DATE('2016-11-11'));
[ERR-00300 : Invalid date format or input string.([2016-11-11]:[%Y-%m-%d %H:%M:%S %0:%1:%2])]

Mach> ALTER SESSION SET DEFAULT_DATE_FORMAT='YYYY-MM-DD';
Altered successfully.

Mach> SELECT DEFAULT_DATE_FORMAT from v$$session;

default_date_format
-----
YYYY-MM-DD
[1] row(s) selected.

Mach> INSERT INTO time_table VALUES(TO_DATE('2016-11-11'));
1 row(s) inserted.

Mach> SELECT * FROM time_table;

TIME
-----
2016-11-11

[1] row(s) selected.

```

SET SHOW_HIDDEN_COLS

alter_session_set_hidden_column_stmt:



```
alter_session_set_hidden_column_stmt ::= 'ALTER SESSION SET SHOW_HIDDEN_COLS' '=' ( '0' | '1' )
```

```

select * (_arrival_time) .
, SHOW_HIDDEN_COLS 0 .
1 .

v$$session SHOW_HIDDEN_COLS , .

```

```

Mach> SELECT * FROM v$session;
ID                CLOSED        USER_ID    LOGIN_TIME                SQL_LOGGING SHOW_HIDDEN_COLS
-----
DEFAULT_DATE_FORMAT                                HASH_BUCKET_SIZE
-----
1                  0              1          2015-04-29 17:23:56 248:263:000 3          0
YYYY-MM-DD HH24:MI:SS mmm:uuu:nnn                20011
[1] row(s) selected.
Mach> ALTER SESSION SET SHOW_HIDDEN_COLS=1;
Altered successfully.
Mach> SELECT * FROM v$session;
_ARRIVAL_TIME                ID                CLOSED        USER_ID    LOGIN_TIME                SQL_LOGGING
-----
SHOW_HIDDEN_COLS DEFAULT_DATE_FORMAT
HASH_BUCKET_SIZE
-----
1970-01-01 09:00:00 000:000:000 1          0              1          2015-04-29 17:23:56 248:263:000
3
1          YYYY-MM-DD HH24:MI:SS mmm:uuu:nnn                20011
[1] row(s) selected.

```

SET FEEDBACK_APPEND_ERROR

alter_session_set_feedback_append_err_stmt:



```
alter_session_set_feedback_append_err_stmt ::= 'ALTER SESSION SET FEEDBACK_APPEND_ERROR' '=' ( '0' | '1' )
```

Append Client program .

- 0 = .
- 1 = .

```

mach> ALTER SESSION SET FEEDBACK_APPEND_ERROR=0;
Altered successfully.

```

SET HASH_BUCKET_SIZE

alter_session_set_hash_bucket_size_stmt:



```
alter_session_set_hash_bucket_size_stmt ::= 'ALTER SESSION SET HASH_BUCKET_SIZE' '=' value
```

GROUP BY Distinct Hash Table .

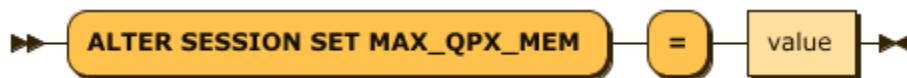
Hash , Hash bucket conflict .
GROUP *1.5 3.0 .

```
Mach> ALTER SESSION SET HASH_BUCKET_SIZE=65536;
Altered successfully.

Mach> SELECT * FROM v$session;
_ARRIVAL_TIME          ID          CLOSED          USER_ID          LOGIN_TIME
SQL_LOGGING
-----
SHOW_HIDDEN_COLS DEFAULT_DATE_FORMAT
HASH_BUCKET_SIZE
-----
1970-01-01 09:00:00 000:000:000 1              0              1              2015-04-29 17:23:56 248:263:000
3
1              YYYY-MM-DD HH24:MI:SS mmm:uuu:nnn              65536
[1] row(s) selected.
```

SET MAX_QPX_MEM

alter_session_set_max_qpx_mem_stmt:



```
alter_session_set_max_qpx_mem_stmt ::= 'ALTER SESSION SET MAX_QPX_MEM' '=' value
```

SQL Statement GROUP BY, DISTINCT, ORDER BY .

, SQL .
machbase.trc .

```
Mach> ALTER SESSION SET MAX_QPX_MEM=1073741824;
Altered successfully.

Mach> SELECT * FROM v$session;
ID          CLOSED          USER_ID          LOGIN_TIME          SQL_LOGGING SHOW_HIDDEN_COLS
FEEDBACK_APPEND_ERROR
-----
DEFAULT_DATE_FORMAT          HASH_BUCKET_SIZE
MAX_QPX_MEM
-----
324              0              1              2015-07-14 10:53:46 124:627:000 11              0              0
YYYY-MM-DD HH24:MI:SS mmm:uuu:nnn              20011              1073741824
[1] row(s) selected.
Mach>
```

```
Mach> insert into tag values('TAG_0001', now, 1);
[ERR-01423 : TAG cache exhausted, increase TAG_CACHE_MAX_MEMORY_SIZE(536870912)]
```

- SQL , trc

```
[2021-03-08 16:36:32 P-69000 T-140515328653056][INFO] DML FAILURE (2E10000084:Memory allocation error
(alloc'd: 1048595, max: 1048576).)
```


- SQL , machsql

```
Mach> select * from tag order by value DESC, time ASC;
NAME                TIME                VALUE
-----
[ERR-00132: Memory allocation error (alloc'd: 1048595, max: 1048576).]
[0] row(s) selected.
Elapsed time: 0.447
```

(* trc , 1MB .)

SET SESSION_IDLE_TIMEOUT_SEC

alter_session_set_session_idle_timeout_sec_stmt:



```
alter_session_set_session_idle_timeout_sec_stmt ::= 'ALTER SESSION SET SESSION_IDLE_TIMEOUT_SEC' '=' value
```

v\$session idle timeout .

```
Mach> ALTER SESSION SET SESSION_IDLE_TIMEOUT_SEC=200;
Altered successfully.

Mach> SELECT IDLE_TIMEOUT FROM V$SESSION;
IDLE_TIMEOUT
-----
200
[1] row(s) selected.
```

SET QUERY_TIMEOUT

alter_session_set_query_timeout_stmt:



```
alter_session_set_query_timeout_stmt ::= 'ALTER SESSION SET QUERY_TIMEOUT' '=' value
```

Query .

Query Query .

v\$session Query timeout .

```
Mach> ALTER SESSION SET QUERY_TIMEOUT=200;  
Altered successfully.
```

```
Mach> SELECT QUERY_TIMEOUT FROM V$SESSION;  
QUERY_TIMEOUT
```

```
-----
```

```
200
```

```
[1] row(s) selected.
```