

# Oracle Database

Oracle Database???Oracle

RDBMS???Oracle??

???·?????????????????Bob Miner?Ed Oates?1977?????????????????SDL???Oracle?????????

- [spfile v.s. pfile](#)
- [Patch Set Update \(PSU\)](#)
- [Web sites](#)
- [SQLPlus](#)

# spfile v.s. pfile

1. pfile ??????  
client????????????????????????????????????pfile????????????????????????????????
2. spfile  
????????????????????spfile?oracle??  
????????????????alter???sql????????spfile????????????????

spfile ? pfile ????????????? spfile ??? pfile ???

```
create pfile='[ ]' from spfile;
```

??:

```
create pfile='E:\ORACLE\PRODUCT\10.2.0\DB_1\DBS\spfileorcl_bak.ora' from spfile;
```

?????pfile???spfile????????

```
create spfile='[ ]' from pfile;
```

???????pfile??spfile??

“ ?? isspecified ?? true???? spfile ?????? false????pfile??

```
select isspecified,count(*) from v$pparameter group by isspecified;
```

?? spfile ??????

```
show parameters spfile
```

? spfile ?? pfile

```
Create pfile='d:pfileSID.ora' from spfile='spfile_location';
```

? pfile ?? spfile

```
Create spfile='spfile_location' from pfile='Your_pfile_location';
```

# Backup current spfile

exp: spfile = spfilewin.ora

```
CREATE pfile='/opt/oracle/product/10.2.0/db_1/dbs/pfile.tmp' FROM  
spfile='/opt/oracle/product/10.2.0/db_1/dbs/spfilewin.ora'  
CREATE spfile='/opt/oracle/product/10.2.0/db_1/dbs/spfilewin.ora.20140313' FROM  
pfile='/opt/oracle/product/10.2.0/db_1/dbs/pfile.tmp'
```

???? spfile/pfile ?????

startup nomount

startup pfile='my\_pfile'

startup spfile='my\_spfile'

# Patch Set Update (PSU)

?? PSU 10.2.0.5.4 (p12419392\_10205\_Linux-x86\_64.zip)

?????Zip ???? Readme.html

????

- Oracle DB ???????? patch 10.2.0.5?
- ??????
  - p6880880\_102000\_LINUX.zip (OPatch\_upgrade)
  - p12419392\_10205\_Linux-x86-64.zip (PSU 10.2.0.5.4)

?????? DB ?????

????

```
> su - oracle
```

```
> cd $ORACLE_HOME/OPatch
```

```
> ./opatch lsinventory
```

Invoking OPatch 10.2.0.4.9

Oracle Interim Patch Installer version 10.2.0.4.9

Copyright (c) 2009, Oracle Corporation. All rights reserved.

Oracle Home : /opt/oracle/product/10.2.0/db\_1

Central Inventory : /opt/oracle/oraInventory

from : /etc/oraInst.loc

OPatch version : 10.2.0.4.9

OUI version : 10.2.0.5.0

OUI location : /opt/oracle/product/10.2.0/db\_1/oui

Log file location : /opt/oracle/product/10.2.0/db\_1/cfgtoollogs/patch/patch2014-06-11\_10-55-50AM.log

Patch history file: /opt/oracle/product/10.2.0/db\_1/cfgtoollogs/patch/patch\_history.txt

Lsinventory Output file location : /opt/oracle/product/10.2.0/db\_1/cfgtoollogs/patch/lsinv/lsinventory2014-06-

11\_10-55-50AM.txt

-----  
Installed Top-level Products (3):

Oracle Database 10g 10.2.0.1.0  
Oracle Database 10g Release 2 Patch Set 4 10.2.0.5.0  
There are 3 products installed in this Oracle Home.

There are no Interim patches installed in this Oracle Home.

-----  
OPatch succeeded.

????

```
$ ./opatch lsinventory -bugs_fixed | grep -i -E 'DATABASE PSU|DATABASE PATCH SET UPDATE'
9952230 12419392 Wed Jun 11 11:45:57 CST 2014 DATABASE PSU 10.2.0.5.1 (INCLUDES CPUOCT2010)
10248542 12419392 Wed Jun 11 11:45:57 CST 2014 DATABASE PSU 10.2.0.5.2 (INCLUDES CPUJAN2011)
11724962 12419392 Wed Jun 11 11:45:57 CST 2014 DATABASE PSU 10.2.0.5.3 (INCLUDES CPUAPR2011)
12419392 12419392 Wed Jun 11 11:45:57 CST 2014 DATABASE PSU 10.2.0.5.4 (INCLUDES CPUJUL2011)
```

????

```
> sqlplus / as sysdba
SQL> col comments for a20
SQL> col version for a20
SQL> col bundle_series for a20
SQL> select comments, version, bundle_series
from sys.registry$history
where bundle_series = 'PSU'
order by action_time;
```

COMMENTS	VERSION	BUNDLE_SERIES
-----		
PSU 10.2.0.5.4	10.2.0.5	PSU

# ?? OPatch ? 12.0.5.1

??? PSU ???Oracle ? OPatch ????? 10.2.0.5 ???

?? OPatch ????????

```
> su - oracle
> cd $ORACLE_HOME/OPatch
> ./opatch lsinventory
[]
> ./opatch version
```

?? OPatch

```
> su - oracle
> mkdir p6880880_102000_LINUX/
> unzip "p6880880_102000_LINUX(OPatch_upgrade).zip" -d p6880880_102000_LINUX
> mv $ORACLE_HOME/OPatch/ $ORACLE_HOME/OPatch_old/
> cp -a p6880880_102000_LINUX/OPatch/ $ORACLE_HOME
> cd $ORACLE_HOME/OPatch/
> ./opatch version
```

“ NOTE:

??????? root ??????????????????????

```
> cp -a /mnt/tpeitpfs02-
share/ora10g_install/patch_10205/p6880880_102000_LINUX/OPatch
/opt/oracle/product/10.2.0/db_1
> chown -R oracle.dba /opt/oracle/product/10.2.0/db_1/OPatch
```

## ?? PSU

“ NOTE: ???????

??????? PSU patch ???????? DB ?????

```
> mkdir p12419392_10205_Linux-x86-64
> unzip "p12419392_10205_Linux-x86-64(PSU_patch).zip" -d p12419392_10205_Linux-x86-64
> cd p12419392_10205_Linux-x86-64/
> $ORACLE_HOME/OPatch/patch prereq CheckConflictAgainstOHWithDetail -phBaseDir ./12419392
```

Invoking OPatch 10.2.0.5.1

Oracle Interim Patch Installer version 10.2.0.5.1

Copyright (c) 2010, Oracle Corporation. All rights reserved.

PREREQ session

Oracle Home : /opt/oracle/product/10.2.0/db\_1

Central Inventory : /opt/oracle/orainventory

from : /etc/orainst.loc

OPatch version : 10.2.0.5.1

OUI version : 10.2.0.5.0

OUI location : /opt/oracle/product/10.2.0/db\_1/oui

Log file location : /opt/oracle/product/10.2.0/db\_1/cfgtoollogs/patch/patch2014-06-11\_11-20-16AM.log

Patch history file: /opt/oracle/product/10.2.0/db\_1/cfgtoollogs/patch/patch\_history.txt

Invoking prereq "checkconflictagainsthwithdetail"

Prereq "checkConflictAgainstOHWithDetail" passed.

OPatch succeeded.

????

“ NOTE??????????? DB Instances ? Listeners ???

Shutdown All Instances and Listeners

```
> lsnrctl stop
```

```
> sqlplus /nolog
```

```
SQL> conn / as sysdba
```

```
SQL> shutdown immediate
```

```
> cd p12419392_10205_Linux-x86-64/12419392
> $ORACLE_HOME/OPatch/opatch apply
```

???: ????????

“ Enter email  
Enter password?<Enter>

\*\* ???? \*\*

Unable to establish a network connection to Oracle. If your systems require a proxy server for outbound Internet connections, enter the proxy server details in this format:

[<proxy-user>@]<proxy-host>[:<proxy-port>]

If you want to remain uninformed of critical security issues in your configuration, enter NONE

Proxy specification:

An invalid proxy specification was given. Please re-enter the proxy information.

Unable to establish a network connection to Oracle. If your systems require a proxy server for outbound Internet connections, enter the proxy server details in this format:

[<proxy-user>@]<proxy-host>[:<proxy-port>]

If you want to remain uninformed of critical security issues in your configuration, enter NONE

Proxy specification: NONE <??NONE>

OPatch detected non-cluster Oracle Home from the inventory and will patch the local system only.

Please shutdown Oracle instances running out of this ORACLE\_HOME on the local system.

(Oracle Home = '/opt/oracle/product/10.2.0/db\_1')

Is the local system ready for patching? [y|n]  
y <?? y>



```
...
...
Patching component oracle.sysman.bslm, 10.2.0.5.0...
Patching component oracle.sysman.repository.core, 10.2.0.5.0a...
Patching component oracle.sysman.console.db, 10.2.0.5.0...
Patching component oracle.xdk.rsf, 10.2.0.5.0...
Patching component oracle.precomp.common, 10.2.0.5.0...

Patching component oracle.rdbms.rman, 10.2.0.5.0...
Running make for target client_sharedlib
Running make for target ioracle
Running make for target iwrap
Running make for target client_sharedlib
Running make for target proc
Running make for target irman
ApplySession adding interim patch '12419392' to inventory

Verifying the update...
Inventory check OK: Patch ID 12419392 is registered in Oracle Home
inventory with proper meta-data.
Files check OK: Files from Patch ID 12419392 are present in Oracle Home.

The local system has been patched and can be restarted.

OPatch succeeded.
```

## ??????? Patch

```
> cd $ORACLE_HOME/rdbms/admin
> sqlplus /nolog
SQL> connect / as sysdba
SQL> startup
SQL> @catbundle.sql psu apply
SQL> @utlsp.sql
SQL> quit
```

### “ TIP:

?? @catbundle.sql .... ????????????

Updating registry...

1 row created.

Commit complete.

Check the following log file for errors:

/opt/oracle/product/10.2.0/db\_1/cfgtoollogs/catbundlez/catbundle\_PSU\_WIN  
\_APPLY\_2014Jun11\_11\_55\_31.log

????

SQL :

```
select owner,count(1)
from dba_objects
where status='INVALID'
group by owner;
```

SQL:

```
select * from registry$history;
```

???: ????????????

“ Email address/User Name: ? Enter

Do you wish to remain uninformed of security issues ([Y]es, [N]o) [N] ?? Y

Is the local system ready for patching? ?? y

Verifying the update...

Inventory check OK: Patch ID 12419392 is registered in Oracle Home  
inventory with proper meta-data.

Files check OK: Files from Patch ID 12419392 are present in Oracle Home.

The local system has been patched and can be restarted.

OPatch succeeded.

?????

```
> cd $ORACLE_HOME/OPatch
```

```
> ./opatch lsinventory
```

```
Invoking OPatch 10.2.0.5.1
```

```
Oracle Interim Patch Installer version 10.2.0.5.1
```

```
Copyright (c) 2010, Oracle Corporation. All rights reserved.
```

```
Oracle Home      : /opt/oracle/product/10.2.0/db_1
```

```
Central Inventory : /opt/oracle/oraInventory
```

```
from            : /etc/oraInst.loc
```

```
OPatch version   : 10.2.0.5.1
```

```
OUI version      : 10.2.0.5.0
```

```
OUI location     : /opt/oracle/product/10.2.0/db_1/oui
```

```
Log file location : /opt/oracle/product/10.2.0/db_1/cfgtoollogs/opatch/opatch2014-06-11_13-05-53PM.log
```

```
Patch history file: /opt/oracle/product/10.2.0/db_1/cfgtoollogs/opatch/opatch_history.txt
```

```
Lsinventory Output file location : /opt/oracle/product/10.2.0/db_1/cfgtoollogs/opatch/lsinv/lsinventory2014-06-11_13-05-53PM.txt
```

```
-----  
Installed Top-level Products (3):
```

```
Oracle Client                      10.2.0.1.0
```

```
Oracle Database 10g                10.2.0.1.0
```

```
Oracle Database 10g Release 2 Patch Set 4      10.2.0.5.0
```

```
There are 3 products installed in this Oracle Home.
```

```
Interim patches (1) :
```

```
Patch 12419392 : applied on Wed Jun 11 11:45:57 CST 2014
```

```
Unique Patch ID: 13794201
```

```
Created on 29 May 2011, 22:29:59 hrs PST8PDT
```

```
Bugs fixed:
```

6402302, 10269717, 10327190, 8865718, 10017048, 9024850, 8394351, 8546356  
9360157, 9770451, 9020537, 9772888, 8664189, 10091698, 12551710, 7519406  
10132870, 8771916, 9109487, 10173237, 10068982, 8350262, 11792865  
11724962, 11725006, 9184754, 8544696, 9320130, 7026523, 8277300, 9726739  
8412426, 12419392, 6651220, 9150282, 9659614, 9949948, 10327179, 8882576  
7612454, 9711859, 9714832, 10248542, 9952230, 9469117, 9952270, 8660422  
10324526, 12419258, 9713537, 10010310, 9390484, 9963497, 12551700  
12551701, 10249537, 12551702, 12551703, 8211733, 12551704, 9548269  
12551705, 12551706, 9337325, 12551707, 7602341, 12551708, 9308296  
10157402, 11737047

---

OPatch succeeded.

# Web sites

## Oracle Official

- Forum: <https://forums.oracle.com/ords/apexds/domain/dev-community>

# SQLPlus

????

```
show user
conn system/pass      -- 连接
r                      -- 连接SQL
/                      -- 连接SQL
@?/rdbms/xxx.sql      -- @ 连接SQL, ? Oracle_HOME
!ls                   -- ! Linux 命令
set timing on         -- 显示SQL执行时间
Rem This is a comment -- 注释, 注释
l                     -- 显示SQL 命令, 显示命令
3                     -- 显示SQL 命令3
3 where status='INVALID' -- 显示3条 where status='INVALID'
c/INVALID/VALID/      -- 显示INVALID 条 VALID, c = change
```


?????


```
set pagesize 60 -- 设置每页24行, 每页0行, 0行, 每页0行
set linesize 350 -- 设置(每页350行)
set wrap off -- 不换行
set space 1 -- 设置1space
set echo on -- Show SQL命令
```

```
col tablespace_mb heading 'TABLESPACE|TOTAL MB' -- 显示表空间
col os_user_name head "OS|Username" form a10 truncate
col process head "Client|Process|ID" form 999999999

--title 'SQL By CPU Usage'
prompt
prompt +-----+
prompt | SQL BY CPU USAGE
prompt +-----+
```

Select `A||'␣'| replace(B,CHR(10),CHR(13))||'␣'|` from `tbl.tbl` where `B` is not null order by `A`;

set feedback off -- 

set heading off -- 

```
set colsep "|"
set tab off
```

```
var tbs_source varchar2(50);
var tbs_dest varchar2(50);
var schema_user varchar2(50);

exec :tbs_source := 'SOURCE_TBS';
exec :schema_user := 'SOURCE_USER';
exec :tbs_dest := 'DEST_TBS';

select 'Transporting tablespace ' || :tbs_source || ' or user ' || :schema_user || ' to tablespace ' || :tbs_dest from
dual;
```

```
-- chr(10)
```

????

```
-- [ ] [ ] [ ] [ ]
```

```
/* [ ] [ ] [ ] [ ]
```

```
[ ] [ ] */
```

??????

```
select to_char(sysdate, 'yyyy/mm/dd hh24:mi:ss') Begin_Datetime from dual;
```

```
!sleep 5
```

```
select to_char(sysdate, 'yyyy/mm/dd hh24:mi:ss') End_Datetime from dual;
```