Introduction to India Localization Patch:

Name of the driver file   FND Patch Set Level
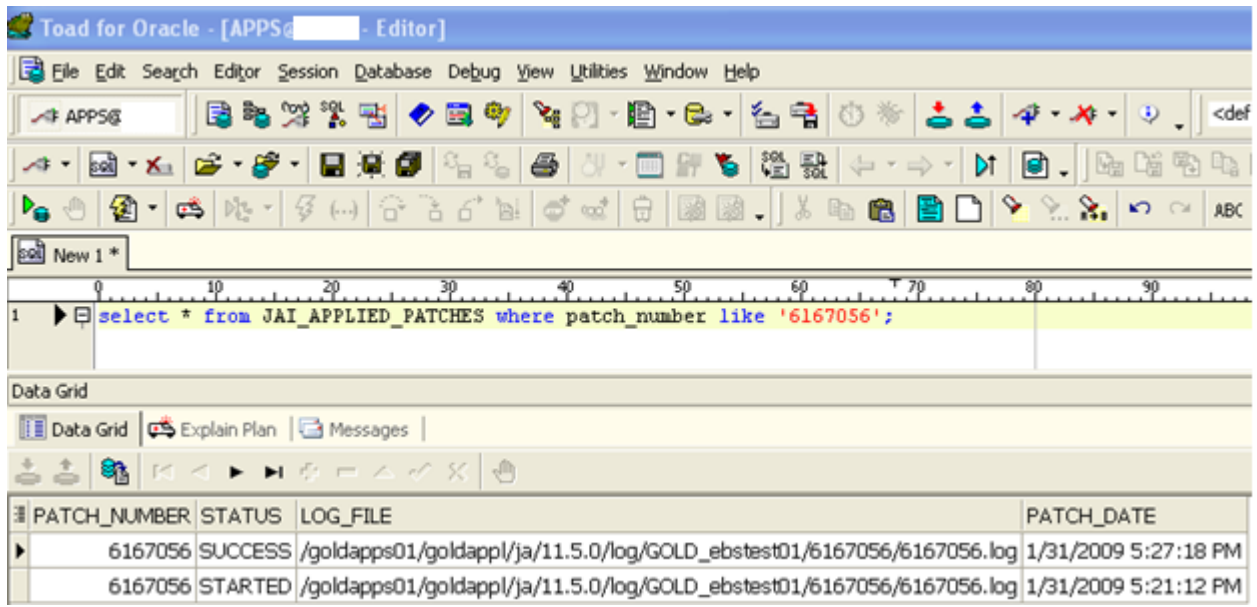
```
perl $JA_TOP/inpatch/indpatch.pl drvr_file=<DRV_Name> fnd_patchset=H appspwd=<PWD>
japwd=<PWD> mode=<Mode> systempwd=<PWD>
```

Mode:

D - Database
C - Concurrent
F - Forms

Pre-Requisite Patch Check:

select * from jai_applied_patches where patch_number = '<Patch_Number>';
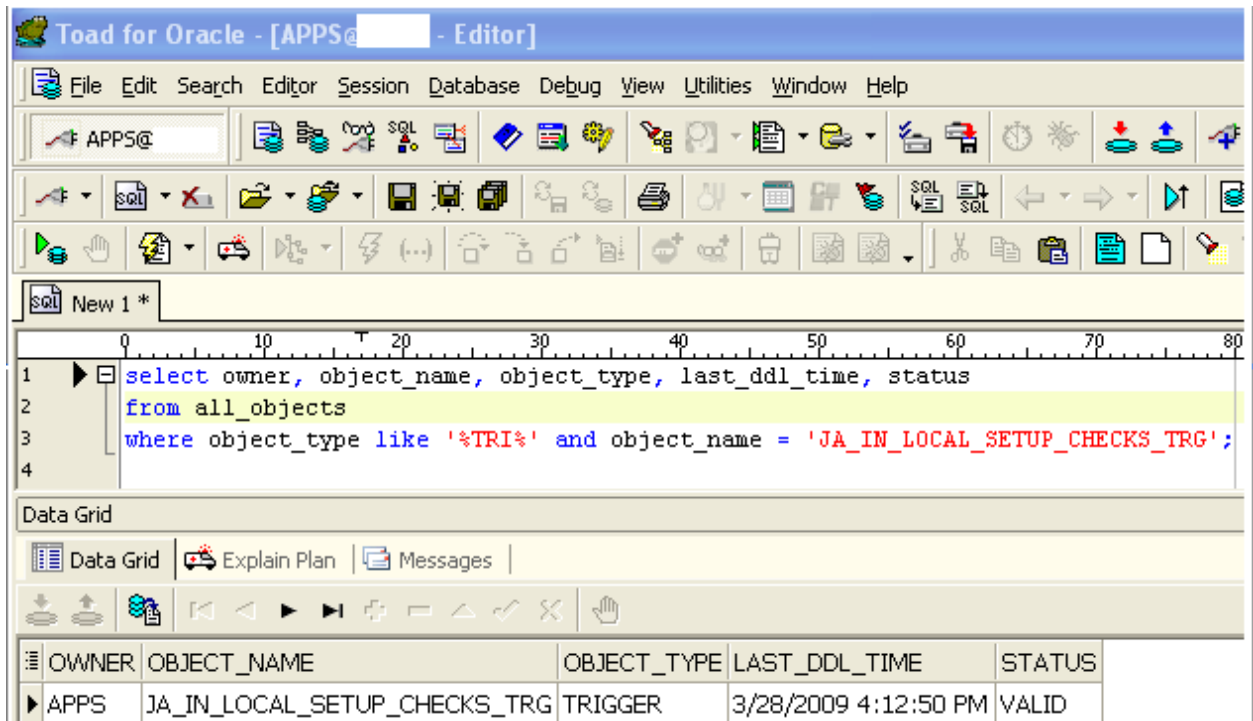
Object Details:

Check the status of the objects that will be updated by the patch driver.

select owner, object_name, object_type, last_ddl_time, status
from all_objects
where object_type like '<OBJ_TYP>' and object_name = '<OBJ_NAME>';

Object Version:

```
select object_name||';;' ||
decode(object_type,'TRIGGER','en','VIEW','vw','PACKAGE','pls','PACKAGE
BODY','plb','compile')||';;' || jai_get_sql_ver_f(object_name, object_type)
from user_objects
where object_name in '('<OBJ_NAME>');
```

Checking FND Version:

```
select  patch_level,  application_name
from  fnd_product_installations fpi,  fnd_application_tl  fat
where  patch_level  is  not  null  and  fpi.application_id  =  fat.application_id  and  patch_level  like
'%FND%' ;
```
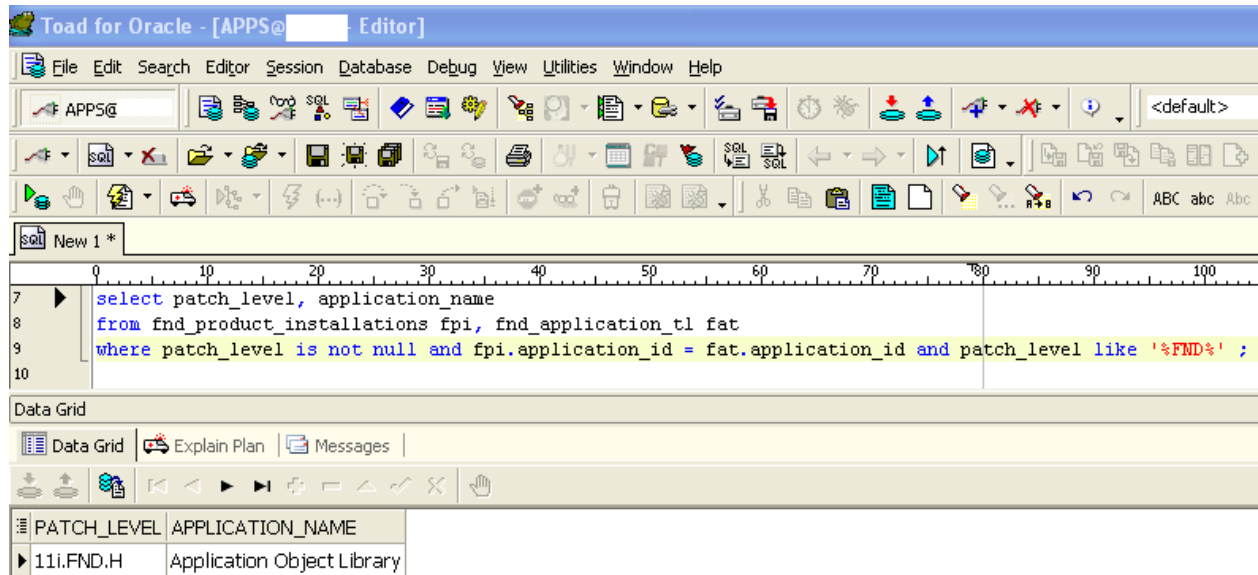

Invalid objects:

```
select  count(*)  from  dba_objects  where  status='INVALID';
```

Connection to JA schema:

```
-bash-3.00$ sqlplus

SQL*Plus: Release 10.2.0.2.0 - Production on Tue Dec 13 14:13:59 2011

Copyright (c) 1982, 2005, Oracle.  All Rights Reserved.

Enter user-name: ja
Enter password:

Connected to:
Oracle Database 10g Enterprise Edition Release 10.2.0.2.0 - 64bit Production
With the Partitioning, OLAP and Data Mining options

SQL> show user
USER is "JA"
SQL>
```

Object Backup:

```
                    - PuTTY
bash-3.00$ pwd
/u01/oracle/PROD/prodappl/ja/11.5.0/patch/115/sql
bash-3.00$ ls -ltr ja_in_localization_setup_checks_trg.sql*
-rw-r--r--   1 applprod dba          7223 Jan 31  2009 ja_in_localization_setup_checks_trg.sql
-rw-r--r--   1 applprod dba          7223 Dec 13 14:16 ja_in_localization_setup_checks_trg.sql_Backup_13Dec2011
```

```
                    - PuTTY
-bash-3.00$ pwd
/u01/oracle/PROD/prodappl/ja/11.5.0/patch/115/sql
-bash-3.00$ ls -ltr ja_in_localization_setup_checks_trg.sql*
-rw-r--r--   1 applprod dba          7223 Jan 31  2009 ja_in_localization_setup_checks_trg.sql
-rw-r--r--   1 applprod dba          7223 Dec 13 14:25 ja_in_localization_setup_checks_trg.sql_Backup_13Dec2011
```

```
                    - PuTTY
-bash-3.00$ pwd
/u01/oracle/PROD/prodappl/ja/11.5.0/patch/115/sql
-bash-3.00$ ls -ltr ja_in_localization_setup_checks_trg.sql*
-rw-r--r--   1 applprod dba          7223 Jan 31  2009 ja_in_localization_setup_checks_trg.sql
-rw-r--r--   1 applprod dba          7223 Dec 13 14:27 ja_in_localization_setup_checks_trg.sql_Backup_13Dec2011
```
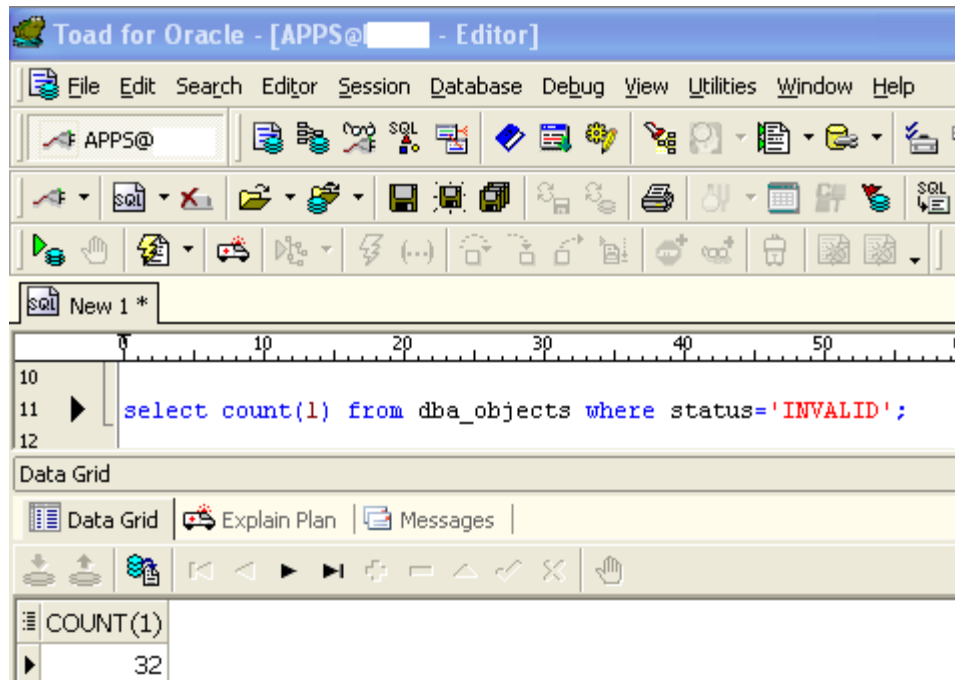
Patch Top:

Copy the patch to JA_TOP and unzip it. Change the directory to patch folder. Inside the patch folder you can see a sql supplied by oracle to find out the version of all the objects which patch will be updating.

```
bash-3.00$ pwd
/                    /ja/11.5.0/6490424
bash-3.00$ ls -ltr    Run this script to find the list & versions of all the
total 16              objects which patch will be updating
-rw-r--r--    1 dmapps    dba           412 Oct 26   2007 jai_6490424.sql
-rw-r--r--    1 dmapps    dba           522 Oct 26   2007 6490424.drv
drwxr-xr-x    3 dmapps    dba           512 Oct 26   2007 patch
drwxr-xr-x    2 dmapps    dba           512 Oct 26   2007 admin
-rw-r--r--    1 dmapps    dba          2276 Oct 26   2007 Readme_6490424.txt
drwxr-xr-x    3 dmapps    dba           512 May 15 11:05 backup
```

Patching:

DB, Concurrent Node:

perl $JA_TOP/inpatch/indpatch.pl drvr_file=8277581.drv fnd_patchset=H appspwd=<PWD> japwd=<PWD> mode=**D** systempwd=<PWD>

```
perl $JA_TOP/inpatch/indpatch.pl  drvr_file=8277581.drv fnd_patchset=H  appspwd=<PWD>
japwd=<PWD>  mode=D  systempwd=<PWD>

              Database Node
```

perl $JA_TOP/inpatch/indpatch.pl drvr_file=8277581.drv fnd_patchset=H appspwd=<PWD> japwd=<PWD> mode=**C** systempwd=<PWD>

```
perl $JA_TOP/inpatch/indpatch.pl  drvr_file=8277581.drv fnd_patchset=H  appspwd=<PWD>
japwd=<PWD>  mode=C  systempwd=<PWD>

              Concurrent Node
```

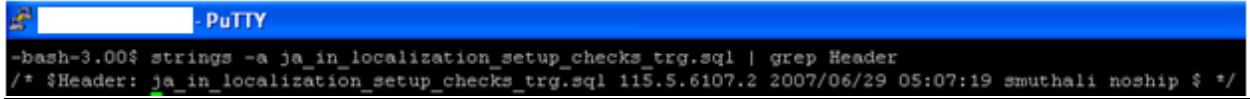strings -a ja_in_localization_setup_checks_trg.sql | grep Header

```
                  PuTTY
bash-3.00$ pwd
/u01/oracle/PROD/prodappl/ja/11.5.0/patch/115/sql
bash-3.00$ strings -a ja_in_localization_setup_checks_trg.sql | grep Header
/* $Header: ja_in_localization_setup_checks_trg.sql 115.5.6107.4 2009/02/26 09:52:57 jmeena noship $ */
```

Form Node 1:

perl $JA_TOP/inpatch/indpatch.pl drvr_file=8277581.drv fnd_patchset=H appspwd=
<PWD> japwd=<PWD> mode=F systempwd=<PWD>

strings -a ja_in_localization_setup_checks_trg.sql | grep Header

```
-bash-3.00$ strings -a ja_in_localization_setup_checks_trg.sql | grep Header
/* $Header: ja_in_localization_setup_checks_trg.sql 115.5.6107.2 2007/06/29 05:07:19 smuthali noship $ */
```

Form Node 2:

perl $JA_TOP/inpatch/indpatch.pl drvr_file=8277581.drv fnd_patchset=H
appspwd=<PWD> japwd=<PWD> mode=F systempwd=<PWD>

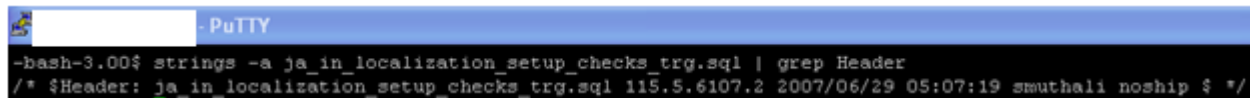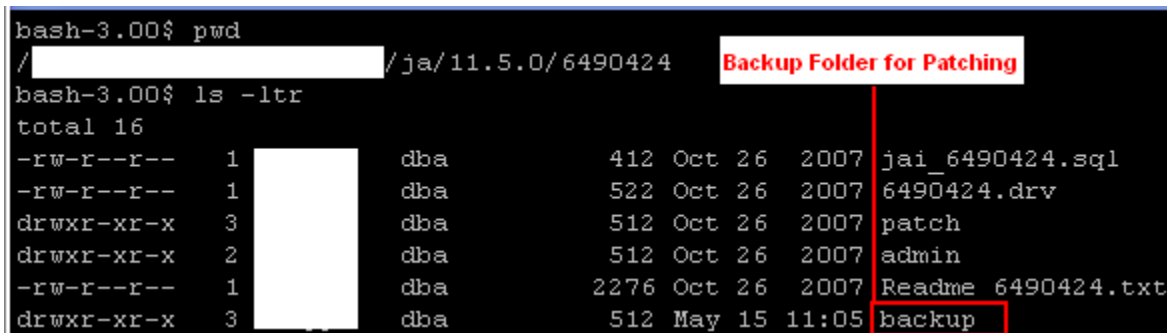strings -a ja_in_localization_setup_checks_trg.sql | grep Header

```
-bash-3.00$ strings -a ja_in_localization_setup_checks_trg.sql | grep Header
/* $Header: ja_in_localization_setup_checks_trg.sql 115.5.6107.2 2007/06/29 05:07:19 smuthali noship $ */
```
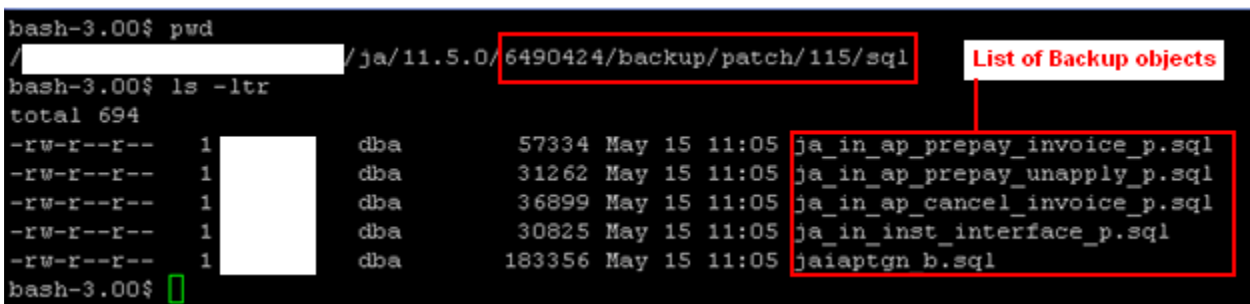
Backup Folder:

A backup folder will be created inside the patch top. In this location you can find all the
objects that are going to be replaced by patching.

```
bash-3.00$ pwd
/_____/ja/11.5.0/6490424          Backup Folder for Patching
bash-3.00$ ls -ltr
total 16
-rw-r--r--    1          dba          412 Oct 26   2007 jai_6490424.sql
-rw-r--r--    1          dba          522 Oct 26   2007 6490424.drv
drwxr-xr-x    3          dba          512 Oct 26   2007 patch
drwxr-xr-x    2          dba          512 Oct 26   2007 admin
-rw-r--r--    1          dba         2276 Oct 26   2007 Readme_6490424.txt
drwxr-xr-x    3          dba          512 May 15 11:05 backup
```

```
bash-3.00$ pwd
/_____/ja/11.5.0/6490424/backup/patch/115/sql        List of Backup objects
bash-3.00$ ls -ltr
total 694
-rw-r--r--    1          dba        57334 May 15 11:05 ja_in_ap_prepay_invoice_p.sql
-rw-r--r--    1          dba        31262 May 15 11:05 ja_in_ap_prepay_unapply_p.sql
-rw-r--r--    1          dba        36899 May 15 11:05 ja_in_ap_cancel_invoice_p.sql
-rw-r--r--    1          dba        30825 May 15 11:05 ja_in_inst_interface_p.sql
-rw-r--r--    1          dba       183356 May 15 11:05 jaiaptgn_b.sql
bash-3.00$
```

Patch Log Location and Log File:

```
bash-3.00$ pwd
/            /ja/11.5.0/log/TEST_ebstest01/6490424
```

```
=====================================================================
|          INDIA LOCALISATION - PATCH APPLICATION TOOL              |
=====================================================================
|   Copyright (c) 2005 Oracle Corporation Redwood Shores, California, USA   |
|                      All rights reserved.                          |
=====================================================================
Log : Start Time [ 15-May-2012 11:05:52 ]
Checking application tool compatibilty with driver file...
Completed Successfully
Checking the validity of the 6490424.drv....
Completed Successfully
Populating the database versions for SQL files...
Completed Successfully
Parsing the driver file...
Completed Successfully
```

```
---------------------------------------------------------------------
Objects that WILL be applied
---------------------------------------------------------------------
Object Name                                Version -> Patch      Existing
---------------------------------------------------------------------
admin/jai_df_drop.sql                      115.0        -
patch/115/sql/ja_in_ap_prepay_invoice_p.sql   115.3.6107.2 115.3.6107.1
patch/115/sql/ja_in_ap_prepay_unapply_p.sql   115.3.6107.2 115.3.6107.1
patch/115/sql/ja_in_ap_cancel_invoice_p.sql   115.10.6107.2 115.10.6107.1
patch/115/sql/ja_in_inst_interface_p.sql   115.7.6107.4 115.7.6107.3
patch/115/sql/jaiaptgn_b.sql               115.29.6107.9 115.29.6107.5

---------------------------------------------------------------------
Objects that will NOT be applied
---------------------------------------------------------------------
******************** No objects ************************

---------------------------------------------------------------------
Objects that are NOT considered for this mode of installation
---------------------------------------------------------------------
******************** No objects ************************
```

```
***************** No mds files to copy ******************
***************** No xmlp files to copy ******************

------------------------------------------------------------
Skipping following ldt files for Applications FND patchset level [H].
------------------------------------------------------------
******************* No objects ******************************

------------------------------------------------------------
Applying forms/plls/java.
------------------------------------------------------------
****************** No pll files to apply ******************
****************** No fmb files to apply ******************
****************** No java_top files to copy ******************

------------------------------------------------------------
Copying rdfs.
------------------------------------------------------------
****************** No rdf files to copy ******************
```

and more ….

Monitoring:

There is no tool to monitor India Localization Patch like how we can adctrl for adpatch in EBS. But we can find by checking for the processes running in OS.

```
bash-3.00$ ps -ef | grep Application OS user
    12442 12441   0 12:08:18 ?        0:00 sh -c /usr/lib/ssh/sftp-server
     6505  6498   0 09:27:15 ?        0:00 /usr/lib/ssh/sshd
    12424 10991   0 12:06:15 pts/4    0:00 sqlplus -s APPS/test @admin/jai mig ap tds 5721614.sql    Current Running SQL
     8484  8477   0 10:11:28 ?        0:00 /usr/lib/ssh/sshd
    12443 12442   0 12:08:18 ?        0:00 /usr/lib/ssh/sftp-server
     6547  6507   0 09:27:15 pts/1    0:00 bash
    12360 12320   0 12:04:05 pts/5    0:00 bash
    12846 12360   0 12:25:24 pts/5    0:00 ps -ef
    12847 12360   0 12:25:24 pts/5    0:00 grep dmapps
    10991  9303   0 11:14:56 pts/4    0:00 perl /testapps/TEST/testappl/ja/11.5.0/inpatch/indpatch.pl drvr file=6369379.dr    Patching Process - Driver File
    12441 12438   0 12:08:18 ?        0:00 /usr/lib/ssh/sshd
    12618 12616   0 12:14:41 pts/8    0:33 dsmc incr -subdir=yes /dmapps01/devappl/* /dmapps01/devcomn/* /dmapps01/devora/
     8526  8486   0 10:11:28 pts/3    0:00 bash
    12320 10332   0 12:04:01 pts/5    0:00 -sh
     9263  9261   0 10:28:27 pts/4    0:00 -sh
     9261  9254   0 10:28:27 ?        0:00 /usr/lib/ssh/sshd
     6507  6505   0 09:27:15 pts/1    0:00 -sh
     8486  8484   0 10:11:28 pts/3    0:00 -sh
     9303  9263   0 10:28:28 pts/4    0:00 bash
```