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IMG_256

## **APPLIES TO:**

Oracle Database - Enterprise Edition - Version 10.2.0.1 to 11.2.0.4 [Release 10.2 to 11.2]  
 Information in this document applies to any platform.

## **GOAL**

 This document intends to show the step by step instruction for temp files recreation.

## **SOLUTION**

1. Query the information of current tempfiles.

SQL> select \* from dba\_temp\_files;

FILE\_NAME  
 --------------------------------------------------------------------------------  
 FILE\_ID TABLESPACE\_NAME BYTES BLOCKS STATUS RELATIVE\_FNO AUT MAXBYTES MAXBLOCKS INCREMENT\_BY USER\_BYTES USER\_BLOCKS  
 ---------- ------------------------------ ---------- ---------- --------- ------------ --- ---------- ---------- ------------ ---------- -----------  
 /export/oracle/app/oracle/oradata/R112/R112\_PF\_TMP\_002.dbf  
 4 TEMPORAL 2147483648 524288 AVAILABLE 1 NO 0 0 0 2146435072 524032

/export/oracle/app/oracle/oradata/R112/R112\_PF\_TMP\_001.dbf  
 5 TEMPORAL 1,0737E+10 2621440 AVAILABLE 2 NO 0 0 0 1,0736E+10 2621184

SQL> select \* from V$TEMPFILE ;

FILE# CREATION\_CHANGE# CREATION TS# RFILE# STATUS ENABLED BYTES BLOCKS CREATE\_BYTES BLOCK\_SIZE  
 ---------- ---------------- -------- ---------- ---------- ------- ---------- ---------- ---------- ------------ ----------  
 NAME  
 --------------------------------------------------------------------------------  
 4 7,5605E+12 27/11/15 21 1 ONLINE READ WRITE 2147483648 524288 2147483648 4096

/export/oracle/app/oracle/oradata/R112/R112\_PF\_TMP\_002.dbf

5 7,5605E+12 27/11/15 21 2 ONLINE READ WRITE 1,0737E+10 2621440 1,0737E+10 4096

/export/oracle/app/oracle/oradata/R112/R112\_PF\_TMP\_001.dbf

2. Checkif  there is enough space in file system where temp files will be created. In this case: /sdp\_bd/R112/systmp

Filesystem Size Used Avail Use% Mounted on  
 /dev/cciss/c0d0p3 7.8G 4.6G 2.9G 62% /  
 /dev/cciss/c0d0p7 105G 19G 81G 20% /arch\_local  
 /dev/cciss/c0d0p1 101M 14M 83M 14% /boot  
 none 7.9G 0 7.9G 0% /dev/shm  
 /dev/cciss/c0d0p5 66G 56G 7.4G 89% /export  
 /dev/cciss/c0d0p6 7.8G 5.4G 2.1G 73% /var  
 /dev/sda1 512M 347M 166M 68% /ocr\_shared/ocr\_1  
 /dev/sda2 512M 343M 170M 67% /ocr\_shared/ocr\_2  
 /dev/sda3 512M 100M 412M 20% /ocr\_shared/vote\_1  
 /dev/sda5 512M 100M 412M 20% /ocr\_shared/vote\_2  
 /dev/sda6 512M 100M 412M 20% /ocr\_shared/vote\_3  
 /dev/sda7 512M 107M 406M 21% /ocr\_shared/spfiles  
 /dev/sdak1 1.2T 477G 724G 40% /recovery\_area  
 /dev/sdal1 10G 327M 9.7G 4% /log  
 /dev/sds1 48G 13G 36G 26% /sdp\_bd/R112/data1  
 /dev/sds2 48G 1.3G 47G 3% /sdp\_bd/R112/index1  
 /dev/sde1 30G 25G 5.3G 83% /sdp\_bd/R112/systmp

3. Check the tablespace where temp files will be created.

SQL> SELECT tablespace\_name, SUM(bytes\_used), SUM(bytes\_free)  
 FROM V$temp\_space\_header  
 GROUP BY tablespace\_name;

TABLESPACE\_NAME SUM(BYTES\_USED) SUM(BYTES\_FREE)  
 ------------------------------ --------------- ---------------  
 TEMPORAL 4677697536 8207204352

4. Create the new temp files.

ALTER TABLESPACE TEMPORAL ADD TEMPFILE '/sdp\_bd/R112/systmp/R112\_PF\_TMP\_1.dbf' SIZE 2560M REUSE AUTOEXTEND OFF;

ALTER TABLESPACE TEMPORAL ADD TEMPFILE '/sdp\_bd/R112/systmp/R112\_PF\_TMP\_2.dbf' SIZE 2560M REUSE AUTOEXTEND OFF;

5. If you want to use symbolic links you can create them in each server of the RAC

ln -s /sdp\_bd/R112/systmp/R112\_PF\_TMP\_1.dbf /export/oracle/app/oracle/oradata/R112/R112\_PF\_TMP\_1.dbf

ln -s /sdp\_bd/R112/systmp/R112\_PF\_TMP\_2.dbf /export/oracle/app/oracle/oradata/R112/R112\_PF\_TMP\_2.dbf

Verify the symbolic links has been created.

ls -l

6. Make sure there is no session is using the temp tablespace

SQL> SELECT USERNAME, SESSION\_NUM, SESSION\_ADDR FROM V$SORT\_USAGE;

If any session is using the TEM tablespace it can be identified with:

SELECT SID, SERIAL#, STATUS FROM V$SESSION WHERE SERIAL#=SESSION\_NUM;  
 Or  
 SELECT SID, SERIAL#, STATUS FROM V$SESSION WHERE SADDR=SESSION\_ADDR;

7. Change the status of the temp files to Offline.

alter database tempfile '/export/oracle/app/oracle/oradata/R112/R112\_PF\_TMP\_001.dbf' OFFLINE;  
 alter database tempfile '/export/oracle/app/oracle/oradata/R112/R112\_PF\_TMP\_002.dbf' OFFLINE;

8. Drop the old temp files.

ALTER DATABASE TEMPFILE '/export/oracle/app/oracle/oradata/R112/R112\_PF\_TMP\_001.dbf' DROP;

ALTER DATABASE TEMPFILE '/export/oracle/app/oracle/oradata/R112/R112\_PF\_TMP\_002.dbf' DROP;

9. Verify the info of the new temp files.

SQL> select \* from dba\_temp\_files;  
 Or  
 SQL> select \* from V$TEMPFILE;