

DB2和Oracle的并发控制（锁）比较四 PDF转换可能丢失图片或格式，建议阅读原文

https://www.100test.com/kao_ti2020/269/2021_2022_DB2_E5_92_8COrac_c67_269293.htm

```
db2 get snapshot for database on dbname  
|grep -i locks (UNIX,LINUX平台) Locks held currently = 7  
Lock waits = 75  
Time database waited on locks (ms) = 82302438  
Lock list memory in use (Bytes) = 20016  
Deadlocks detected = 0  
Lock escalations = 8  
Exclusive lock escalations = 8  
Agents currently waiting on locks = 0  
Lock Timeouts = 20  
db2 get snapshot for database on dbname  
|find /i "locks"(NT平台)  
db2 get snapshot for locks for applications agentid 45  
(注：45为应用程序句柄)  
Application handle = 45  
Application ID =
```

```
*LOCAL.db2dev.030815021827  
Sequence number = 0001  
Application name = tp  
Authorization ID = SAPR3  
Application status = UOW  
WaitingStatus change time =  
Application code page = 819  
Locks held = 7  
Total wait time (ms) = 0  
List Of Locks  
Lock Object Name = 1130185838  
Node number lock is held at = 0  
Object Type = Key Value  
Tablespace Name = PSAPBTABD  
Table Schema = SAPR3  
Table Name = TPLOGNAMES  
Mode = X  
Status = Granted  
Lock Escalation = NO  
Lock Object Name = 14053937  
Node number lock is held at = 0  
Object Type = Row  
Tablespace Name = PSAPBTABD  
Table Schema = SAPR3  
Table Name = TPLOGNAMES  
Mode = X  
Status = Granted  
Lock Escalation = NO
```

也可以执行下列表函数（注：在DB2 V8之前只能通过命令，DB2 V8后可以通过表函数，推荐使用表函数来进行锁的监控）
db2 0select * from table(snapshot_lock(DBNAME,-1)) as

locktable 监控锁信息 db2 0select * from
table(snapshot_lockwait(DBNAME,-1) as lock_wait_table 监控应
用程序锁等待的信息 4.2 事件监控方式：当使用事件监控器进
行锁的监控时候，只能监控死锁(死锁的产生是因为由于锁请
求冲突而不能结束事务，并且该请求冲突不能够在本事务内
解决。通常是两个应用程序互相持有对方所需要的锁，在得
不到自己所需要的锁的情况下，也不会释放现有的锁)的情况
，具体步骤如下：db2 create event monitor dlock for deadlocks
with details write to file \$HOME/dirdb2 set event monitor dlock
state 1 db2 evmon -db dbname -evm dlock 看具体的死锁输出（如
下图） Deadlocked Connection ... Deadlock ID: 4 Participant no.: 1
Participant no. holding the lock: 2 Appl Id:
G9B58B1E.D4EA.08D387230817 Appl Seq number: 0336 Appl Id of
connection holding the lock: G9B58B1E.D573.079237231003 Seq.
no. of connection holding the lock: 0126 Lock wait start time:
06/08/2005 08:10:34.219490 Lock Name :
0x000201350000030E0000000052 Lock Attributes : 0x00000000
Release Flags : 0x40000000 Lock Count : 1 Hold Count : 0 Current
Mode : NS - Share (and Next Key Share) Deadlock detection time:
06/08/2005 08:10:39.828792 Table of lock waited on : ORDERS
Schema of lock waited on : DB2INST1 Tablespace of lock waited on
: USERSPACE1 Type of lock: Row Mode of lock: NS - Share (and
Next Key Share) Mode application requested on lock: X - Exclusive
Node lock occurred on: 0 Lock object name: 782 Application
Handle: 298 Deadlocked Statement: Type : Dynamic Operation:
Execute Section : 34 Creator : NULLID Package : SYSSN300 Cursor

: SQL_CURSN300C34 Cursor was blocking: FALSE Text :
UPDATE ORDERS SET TOTALTAX = ?, TOTALSHIPPING = ?,
LOCKED = ?, TOTALTAXSHIPPING = ?, STATUS = ?, FIELD2 =
?, TIMEPLACED = ?, FIELD3 = ?, CURRENCY = ?, SEQUENCE
= ?, TOTALADJUSTMENT = ?, ORMORDER = ?,
SHIPASCOMPLETE = ?, PROVIDERORDERNUM = ?,
TOTALPRODUCT = ?, DESCRIPTION = ?, MEMBER_ID = ?,
ORGENTITY_ID = ?, FIELD1 = ?, STOREENT_ID = ?,
ORDCHNLTY_ID = ?, ADDRESS_ID = ?, LASTUPDATE = ?,
COMMENTS = ?, NOTIFICATIONID = ? WHERE ORDERS_ID
= ? List of Locks: Lock Name : 0x000201350000030E0000000052
Lock Attributes : 0x00000000 Release Flags : 0x40000000 Lock
Count : 2 Hold Count : 0 Lock Object Name : 782 Object Type :
Row Tablespace Name : USERSPACE1 Table Schema : DB2INST1
Table Name : ORDERS Mode : X - Exclusive Lock Name :
0x00020040000029B30000000052 Lock Attributes : 0x00000020
Release Flags : 0x40000000 Lock Count : 1 Hold Count : 0 Lock
Object Name : 10675 Object Type : Row Tablespace Name :
USERSPACE1 Table Schema : DB2INST1 Table Name :
BKORDITEM Mode : X - Exclusive (略去后面信息) 100Test 下
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