Altibase 7.1.0.7.4 Patch Notes

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Fixed Bugs

BUG-46674 Addresses misaligned memory allocation issues when the memory pooling feature is disabled (USE_MEMORY_POOL = 0).

- **module** : id
- **Category** : Fatal
- **Reproducibility** : Always
- **Description** : Fixes a phenomenon in which Altibase server abnormally terminates when memory pooling is disabled by setting the Altibase server property USE_MEMORY_POOL to 0, and an unaligned address value is allocated when memory allocation requires an aligned address value.
- **How to reproduce this bug**
  - **Reproduction conditions**
  - **Actual Results**
  - **Expected Results**
- **Workaround**
- **Changes**
  - Performance view
  - Property
  - Compile Option
  - Error Code

BUG-49614 When THREAD_REUSE_ENABLE=0 is set and Altibase server is running, inaccurate memory statistics information is output to V$MEMSTAT.

- **module** : id
- **Category** : Functional Error
- **Reproducibility** : Always
- **Description** : Improve the phenomenon that incorrect memory statistics information is output to ALLOC_SIZE of V$MEMSTAT when the thread reuse function is not used by setting the Altibase server property THREAD_REUSE_ENABLE=0.
- **How to reproduce this bug**
  - **Reproduction conditions**
  - **Actual Results**
  - **Expected Results**
- **Workaround**
- **Changes**
  - Performance view
  - Property
  - Compile Option
  - Error Code

BUG-49646 Resolves an error that occurs when one of the join tables used in a view object is dropped and recreated as a partitioned table with a primary key.

- **module** : qp-ddl-dcl-pvo
- **Category** : Fatal
- **Reproducibility** : Always
- **Description** : Fixes an abnormal termination of the Altibase server when one of the join tables used in a view object is deleted and recreated as a partitioned table with a primary key.

  This bug occurs when performing the procedure below.

  1. Use joins and USE_INDEX_NL hint when creating view objects
  2. Drop base table accessed from view
  3. Create a partitioned table with a primary key or unique key with the same name as the deleted base table.
- **How to reproduce this bug**
  - **Reproduction conditions**

```
DROP TABLE T1;
DROP VIEW  V1;
CREATE TABLE T1 ( I1 INTEGER );
CREATE TABLE T2 ( I1 INTEGER );
CREATE VIEW V1 AS
SELECT /*+ USE_INDEX_NL(T1, T2) */ T1.I1 I1
     , T2.I1 I2
  FROM T1 T1
     , T1 T2
 WHERE T1.I1 = T2.I1;
DROP TABLE T1;
CREATE TABLE T1
(
  I1 INTEGER PRIMARY KEY
)
PARTITION BY RANGE( I1 )
(
  PARTITION P1 VALUES LESS THAN ( 100 ),
  PARTITION P2 VALUES DEFAULT
);
```

  - **Actual Results**

```
Altibase server abnormal termination
```

  - **Expected Results**

```
Create success.
```

- **Workaround**

```
Remove USE_INDEX_NL
```

- **Changes**
  - Performance view
  - Property
  - Compile Option
  - Error Code

BUG-49681 Altibase server may be terminated abnormally due to concurrency issues when buffer replacement occurs due to insufficient buffer pool while processing a transaction accessing a disk tablespace.

- **module** : sm-disk-page
- **Category** : Assert
- **Reproducibility** : Rare
- **Description** : Fixes a phenomenon in which the Altibase server abnormally terminates due to a concurrency problem when a buffer replacement occurs due to insufficient buffer pool while processing a transaction accessing a disk tablespace.

  If the Altibase server is abnormally terminated due to this bug, the following log is output to altibase_error.log.

```
BCB Info..
mID 7922
mState 2
mFrame 7fc8d69a4000
mSpaceID 6
...

IDE_ASSERT( 0 ), [sdbBufferPool.cpp:852], errno=[16]
errno=[16]

[ASSERT] ERROR LINE => [sdbBufferPool.cpp:852]
ERR-0109e(errno=16) Internal server error.
```

- **How to reproduce this bug**
  - **Reproduction conditions**
  - **Actual Results**
  - **Expected Results**
- **Workaround**
- **Changes**
  - Performance view
  - Property
  - Compile Option
  - Error Code

Changes

Version Info

altibase version	database binary version	meta version	cm protocol version	replication protocol version
7.1.0.7.4	6.5.1	8.10.1	7.1.7	7.4.7

> You can check the module version change history in Version_Histories.

Compatibility

Database binary version

The database binary version has not changed.

> The database binary version indicates the compatibility of database image files and log files.
> If this version needs to be patched to a different version, the database must be reorganized.

Meta Version

The meta version has not changed.

> If you want to roll back the patch after patching to a version with a changed meta version, see Meta Downgrade.

CM protocol Version

The cm protocol version has not changed.

Replication protocol Version

The replication protocol version has not changed.

Altibase Server Properties

Added Properties

Changed Properties

Deleted Properties

Performance Views

Added Performance Views

Changed Performance Views

Deleted Performance Views