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Bug 18411339 - Low performance or ORA-1220 for query on V\$ARCHIVE_GAP on 11.2.0.4 or later release (Doc ID 18411339.8)

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Bug 18411339 Low performance or ORA-1220 for query on V\$ARCHIVE_GAP on 11.2.0.4 or later release

This note gives a brief overview of bug 18411339.
The content was last updated on: 08-MAR-2022
Click [here](#) for details of each of the sections below.

Affects:

Product (Component)	Oracle Server (Rdbms)
Range of versions believed to be affected	Versions >= 11.2.0.4 but BELOW 12.2
Versions confirmed as being affected	<ul style="list-style-type: none">12.1.0.2 (Server Patch Set)12.1.0.1 (Base Release)11.2.0.4
Platforms affected	Generic (all / most platforms affected)

Fixed:

The fix for 18411339 is first included in	<ul style="list-style-type: none">12.2.0.1 (Base Release)
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Interim patches may be available for earlier versions - click [here](#) to check.

Symptoms:

- [Error May Occur](#)
- [Performance Of Query/ies Affected](#)
- ORA-1220

Related To:

- [Physical Standby Database / Dataguard](#)
- V\$ARCHIVE_GAP

Description

Low performance or ORA-1220 thrown for query on V\$ARCHIVE_GAP on 11.2.0.4 or later release due to execution plan on V\$ARCHIVE_GAP using MERGE JOIN CARTESIAN internally involving X\$KCCCLH, X\$KCCCLH, X\$KCCAL.

Workaround




Use this reconstructed query directly:

```
=====
select USERENV('Instance'), high.thread#, low.lsq, high.hsq
from
  (select a.thread#, rcvsq, min(a.sequence#)-1 hsq
   from v$archived_log a,
        (select lh.thread#, lh.resetlogs_change#, max(lh.sequence#) rcvsq
          from v$log_history lh, v$database_incarnation di
         where lh.resetlogs_time = di.resetlogs_time
               and lh.resetlogs_change# = di.resetlogs_change#
               and di.status = 'CURRENT'
               and lh.thread# is not null
               and lh.resetlogs_change# is not null
               and lh.resetlogs_time is not null
          group by lh.thread#, lh.resetlogs_change#
         ) b
   where a.thread# = b.thread#
        and a.resetlogs_change# = b.resetlogs_change#
        and a.sequence# > rcvsq
   group by a.thread#, rcvsq) high,
  (select srl_lsq.thread#, nvl(lh_lsq.lsq, srl_lsq.lsq) lsq
   from
     (select thread#, min(sequence#)+1 lsq
      from
        v$log_history lh, x$kcfcfe fe, v$database_incarnation di
       where to_number(fe.fecps) <= lh.next_change#
             and to_number(fe.fecps) >= lh.first_change#
             and fe.fedup!=0 and bitand(fe.festa, 12) = 12
             and di.resetlogs_time = lh.resetlogs_time
             and lh.resetlogs_change# = di.resetlogs_change#
             and di.status = 'CURRENT'
          group by thread#) lh_lsq,
     (select thread#, max(sequence#)+1 lsq
```

Was this document helpful?

- ☐ Yes
☐ No

Document Details

  
Type: PATCH
Status: PUBLISHED
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Last Update: 11-Mar-2022

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Document References

No References available for this document.

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```
from
  v$log_history
where (select min( to_number(fe.fecps))
       from x$kcfe fe
       where fe.fedup!=0 and bitand(fe.festa, 12) = 12)
>= next_change#
group by thread#) srl_lsq
where srl_lsq.thread# = lh_lsq.thread#(+)
) low
where low.thread# = high.thread#
and lsq < = hsq
and hsq > rcvsq;
```

Please note: The above is a summary description only. Actual symptoms can vary. Matching to any symptoms here does not confirm that you are encountering this problem. For questions about this bug please consult Oracle Support.

References

[Bug:18411339](#) (This link will only work for PUBLISHED bugs)
[Note:245840.1](#) Information on the sections in this article

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