

Rebuild or create index slow

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Issue

Customer complains that an Index rebuild or creation.

Investigation/Analysis

Run the query below and pay special attention to the wait type of the query (WAIT_TYPE column)

```

SET NOCOUNT ON ;

SELECT      @@SERVERNAME Server,
            [SPID] = SESSION_ID ,
            percent_complete [%] ,
            [DATABASE] = DB_NAME(SP.DBID) ,
            [STATUS] = ER.STATUS ,
            [WAIT] = WAIT_TYPE ,
            wait_resource ,
            reads ,
            writes ,
            logical_reads ,
            command ,
            [INDIVIDUAL QUERY] = SUBSTRING(QT.TEXT,
                                            ER.STATEMENT_START_OFFSET
                                            / 2,
                                            ( CASE WHEN ER.STATEMENT_END_OFFSET = -1
                                                  THEN LEN(CONVERT(NVARCHAR(MAX), QT.TEXT))
                                                  * 2
                                                  ELSE ER.STATEMENT_END_OFFSET
                                                END
                                              - ER.STATEMENT_START_OFFSET )
                                            / 2) ,

            [QUERY] = QT.TEXT ,
            PROGRAM = PROGRAM_NAME ,
            [USER] = NT_USERNAME ,
            HOSTNAME ,
            NT_DOMAIN ,
            START_TIME ,
            QP.query_plan AS xml_batch_query_plan
FROM        sys.dm_exec_requests ER WITH (NOLOCK)
            INNER JOIN sys.sysprocesses SP WITH (NOLOCK) ON ER.SESSION_ID = SP.SPID
            CROSS APPLY sys.dm_exec_sql_text(ER.SQL_HANDLE) AS QT
            CROSS APPLY sys.dm_exec_query_plan(ER.plan_handle) QP
WHERE       SESSION_ID > 50
            AND SESSION_ID NOT IN ( @@SPID )
            and command like '%ALTER INDEX%' or command like '%CREATE INDEX%'

ORDER BY    1 ,
            2

```

Mitigation

The mitigation is largely dependent on the wait type that you are seeing. For example, if the ALTER or CREATE INDEX is being blocked by another transaction, you need to check the lead blocker. It could mean that the customer needs to wait for the lead blocker to finish or kill the transaction.

If you see IO waits, check this [TSG](#).

Other options for minimizing the effects of Index creation / rebuild [here](#).

How good have you found this content?



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