SAP® MaxDB™ Expert Session

SAP® MaxDB™: Kernel Parameter Handling
News 2015

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SAP® MaxDB™ Expert Session

SAP® MaxDB™ Kernel Parameter Handling

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News - General Remarks

- Some functionality might have been changed or expanded over the years.
- Recommendations might have changed.

➔ For each expert session an update with the most important changes is published.

- Check the additional remarks after having heard or read the expert session.
- Feedback to the responsible author is welcome if you recognize outdated information within the session.

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Agenda

1. **Properties of Parameters - Usermodified**
2. Current Parameter Configuration - Usermodified
3. Restore a Parameter File

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Properties of Parameters - Usermodified (1)

- If a user explicitly sets a database parameter value, the system sets the "Usermodified" indicator for the parameter. The "Usermodified" indicator prevents automatic calculation if the database parameter has a dependency with other parameters, too.

- **SAP MaxDB Version 7.9.08 >= 22 or 7.8.02 >= 40**
  If the user enters an invalid value that infringes upon the constraint conditions of the database parameter during database parameter entry, the system automatically calculates the database parameter value and removes the "Usermodified" indicator.

- You can use the DBM command *param_extgetall USERDEFINED=YES* to list all parameters for which the "Usermodified" indicator is set.

Properties of Parameters - Usermodified (2)

- As of SAP MaxDB version 7.9.08.22 and 7.8.02.40, the new column *USERMODIFIED* has been introduced in the system table *ACTIVECONFIGURATION*. If it has the value YES, this indicates that the database parameter value has been changed by the user and was not calculated by the system.

- As of version 7.9.08.22 and 7.8.02.40, you can remove the "Usermodified" indicator with the DBM command "*param_resetusermod <parameter_name>* ". This resets the database parameter value to the default value and causes the dependencies to be recalculated.
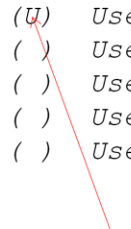
Agenda

1. Properties of Parameters - Usermodified

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Current Parameter configuration- Usermodified (3)

KnlMsg lists at the beginning each parameter setting

```
RunTime        15:     (U)    UseIndexKeyColumnCompression=YES
RunTime        15:     ( )    UseLoadSystemTables=YES
RunTime        15:     (U)    UseLobClustering=YES
RunTime        15:     (U)    UseMirroredLog=NO
RunTime        15:     ( )    UseMultiVersionReadSupport=NO
RunTime        15:     ( )    UseParameterInfoForColumn=YES
RunTime        15:     ( )    UseReadAheadLob=YES
RunTime        15:     ( )    UseReadAheadUndoRedo=YES
:
:
```

If the parameter is *usermodified it is marked with (U).*

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Restore a Parameter File

As of SAP MaxDB version 7.9.08.31 param_restore firstly creates a copy of the current parameter file before it will be overwritten with an older version of the parameter file.

The old parameter file gets the time stamp extention, when the param_restore command was executed:

<DBNAME>.yyyymmdd-hhmmss

PTS: 1253575

Thank you

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