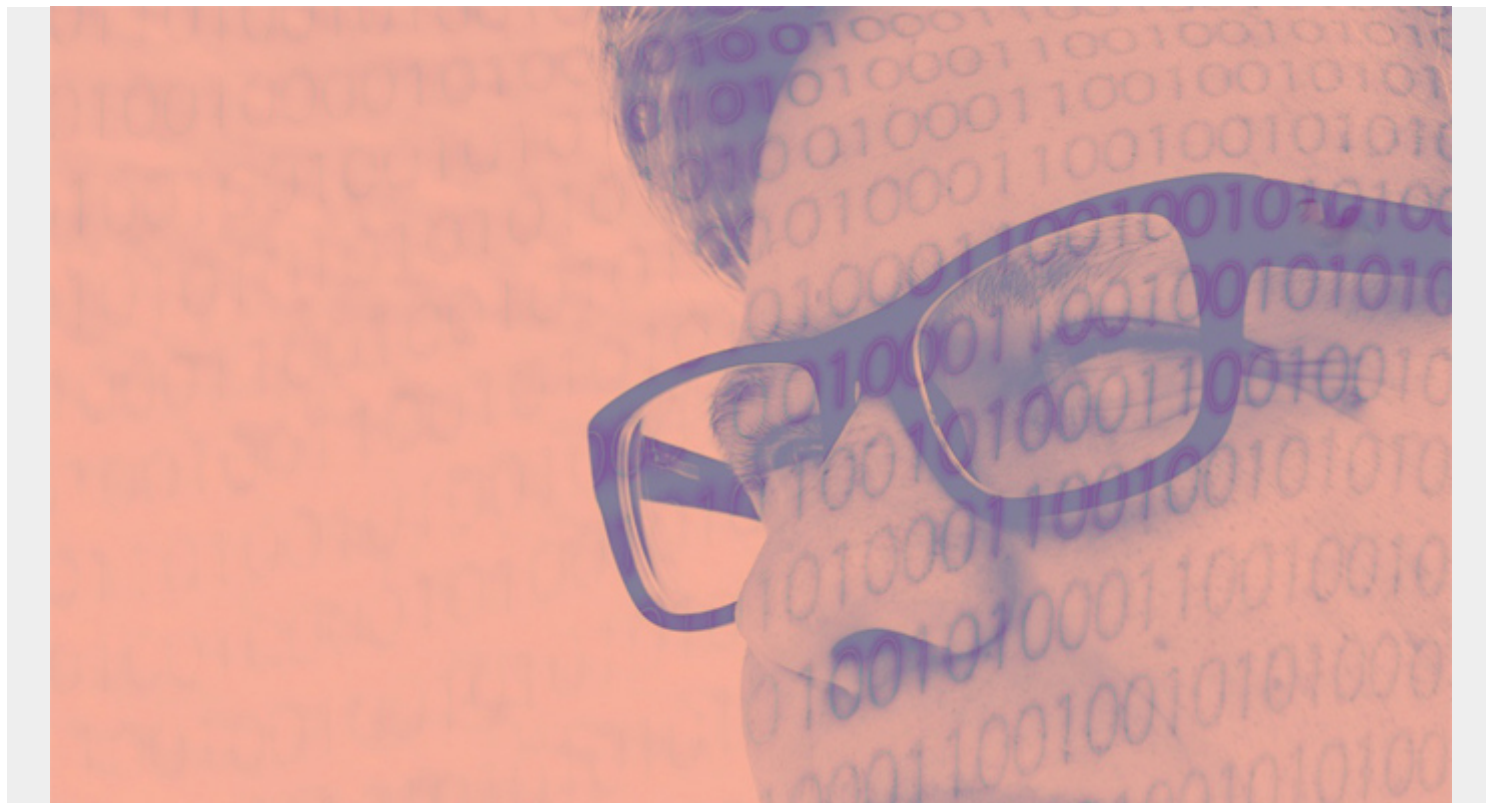


# BIND PARAMETERS IN DB2 12



(This article is part of our [Db2 Guide](#). Use the right-hand menu to navigate.)

| Option   | Valid values                          | Plan  | Pckg  | Trigr | Qry |
|--|---------------------------------------|-------|-------|-------|-----|
| ACQUIRE  | <b>USE</b> , ALLOCATE                 | X     |       |       |     |
| <i>Whether to acquire resources specified in the DBRM at first access or allocation</i>  |                                       |       |       |       |     |
|  | <b>REPLACE</b> , ADD                  | X, B0 | X, B0 |       |     |
| ACTION   | REPLACE(RPLVER)                       |       | X, B0 |       |     |
|  | REPLACE(RETAIN)                       | X, B0 |       |       |     |
| <i>Whether object (plan or package) replaces an existing object with same name or is new</i>   |                                       |       |       |       |     |
| ACOMPARE   | <b>NO</b> , <b>NONE</b> , WARN, ERROR | X     | X     | X     |     |
| <i>Determines whether the new access paths are different from the older access paths</i>   |                                       |       |       |       |     |
| APPLCOMPAT   | V10R1, V11R1                          |       | X     | X     |     |
| <i>Specifies the package compatibility level behavior for statis SQL</i>   |                                       |       |       |       |     |
| APRETAINUP   | <b>YES</b> , NO                       |       | R0    | X     |     |
| <i>Whether or not DB2 retains an old package copy when access paths of the old copy are identical to the incoming copy. Applies to PLANMGMT(BASIC) or PLANMGMT(EXTENDED)</i> |                                       |       |       |       |     |
| APREUSE  | <b>NO</b> , <b>NONE</b> , ERROR, WARN |       | X     | X     |     |
| <i>Specifies whether DB2 tries to reuse previous access paths for SQL statements in a package</i>  |                                       |       |       |       |     |

|          |                                     |  |    |   |
|----------|-------------------------------------|--|----|---|
| APPREUSE | <b>CURRENT</b> , PREVIOUS, ORIGINAL |  | R0 | X |
| SOURCE   |                                     |  |    |   |

*Specifies whether DB2 tries to reuse previous access paths for SQL statements in a package*

|                   |                 |  |   |   |
|-------------------|-----------------|--|---|---|
| ARCHIVE SENSITIVE | <b>YES</b> , NO |  | X | X |
|-------------------|-----------------|--|---|---|

*Whether references to archive-enabled tables are affected by SYSIBMADM.GET\_ARCHIVE*

|           |                 |  |   |   |
|-----------|-----------------|--|---|---|
| BUSTIME   | <b>YES</b> , NO |  | X | X |
| SENSITIVE |                 |  |   |   |

*Whether references to application-period temporal tables are affected by CURRENT TEMPORAL BUSINESS\_TIME special register*

|           |   |  |   |  |
|-----------|---|--|---|--|
| CACHESIZE | <b>Value of PLAN AUTH CACHE;</b><br>Decimal |  | X |  |
|-----------|---|--|---|--|

*Size (in bytes) of the authorization cache acquired in the EDM pool for the plan*

|      |                                    |  |       |  |
|------|------------------------------------|--|-------|--|
| COPY | Collection-id, package-id, COPYVER |  | X, B0 |  |
|------|------------------------------------|--|-------|--|

*Determines that you are copying an existing package and names the package*

|             |                 |  |   |  |
|-------------|-----------------|--|---|--|
| CONCENTRATE | <b>NO</b> , YES |  | X |  |
| STMT        |                 |  |   |  |

*Whether to enforce statement concentration at the package level*

|            |                       |   |   |   |
|------------|-----------------------|---|---|---|
| CONCURRENT | WAITFOROUTCOME        |   |   |   |
| ACCESS     | USECURRENTLYCOMMITTED | X | X | X |

*RESOLUTION Default depends on SKIPUNCI setting*

*Determines which concurrent access resolution option to use for statements in a package*

|             |                |   |   |   |
|-------------|----------------|---|---|---|
| CURRENTDATA | YES, <b>NO</b> | X | X | X |
|-------------|----------------|---|---|---|

*Whether to require data currency for R0 and ambiguous cursors when isolation level is CS*

|         |               |  |   |  |
|---------|---------------|--|---|--|
| CURRENT | Location-name |  | X |  |
| SERVER  |               |  |   |  |

*Determines the location to connect to before running the plan*

|            |                                      |   |   |  |
|------------|--------------------------------------|---|---|--|
| DBPROTOCOL | <b>DRDA</b> , DRDACBF (package only) | X | X |  |
|------------|--------------------------------------|---|---|--|

*Protocol to use when connecting to a remote site that is identified by a three-part name*

|          |         |  |   |   |
|----------|---------|--|---|---|
| DESCSTAT | NO, YES |  | X | X |
|----------|---------|--|---|---|

*Whether DB2 builds a DESCRIBE SQL descriptor when binding statis SQL statements*

|       |                          |   |   |  |
|-------|--------------------------|---|---|--|
| DEFER | DEFER(PREPARE)           |   |   |  |
|       | <b>NODEFER</b> (PREPARE) | X | X |  |
|       | DEFER(INHERITFROMPLAN)   |   |   |  |

*Whether to defer preparation of dynamic SQL statements that refer to remote objects or to prepare them immediately.*

*DEFER(PREPARE) is assumed for REOPT(AUTO, ALWAYS and ONCE)*

|        |                |   |   |  |
|--------|----------------|---|---|--|
| DEGREE | <b>1</b> , ANY | X | X |  |
|--------|----------------|---|---|--|

*Whether to attempt to run a query using parallel processing to maximise performance*

|        |   |  |   |  |
|--------|---|--|---|--|
| DEPLOY | (collection-id.package-id),<br><b>COPYVER(version-id)</b> |  | X |  |
|--------|---|--|---|--|

*Deploys a native SQL procedure*

|  |   |             |             |              |            |
|--|---|-------------|-------------|--------------|------------|
| DISCONNECT   | <b>EXPLICIT</b> , AUTOMATIC, CONDITIONAL  | X           |             |              |            |
| <i>Determines which remote connections to destroy during commit operations</i>   |   |             |             |              |            |
|  | <b>RUN</b> , BIND, DEFINEBIND(PKG ONLY), DEFINERUN(PKG ONLY), INVOKEBIND(PKG ONLY), INVOKERUN(PKG ONLY) | X           | X           |              |            |
| DYNAMICRULES   | DEFINEBIND, DEFINERUN, INVOKEBIND, INVOKE RUN   |             |             | X            |            |
| <b>Option</b>  | <b>Valid values</b>   | <b>Plan</b> | <b>Pckg</b> | <b>Trigr</b> | <b>Qry</b> |
| <i>Determines which values apply at runtime for dynamic SQL attributes</i>   |   |             |             |              |            |
| ENABLE/<br>DISABLE   | BATCH, CICS, DB2CALL, DLIBATCH, IMS, IMSBMP, IMSMPP, RRSAB, *<br>REMOTE                                 | X           | X           |              |            |
| <i>Determines which connections can use the plan or package</i>  |   |             |             |              |            |
| ENCODING   | ASCII, EBCDIC, UNICODE, <i>ccsid</i>  | X           | X           |              |            |
| <i>Application encoding for all static statements in the plan or package (defaults to installed selection)</i>   |   |             |             |              |            |
| EXPLAIN  | <b>NO</b> , YES, ONLY   | X           | X           | X            |            |
| <i>Whether to populate the PLAN_TABLE with information about the SQL statements</i>  |   |             |             |              |            |
| EXTENDED<br>INDICATOR  | <b>NO</b> , <b>YES</b>  |             | X           |              |            |
| <i>Determines if DB2 recognizes extended indicator variables when associated package is run</i>  |   |             |             |              |            |
| FILTER   | <b>'filter-name'</b>  |             |             |              | FQ         |
| <i>Allows you to delete a set of queries in the SYSIBM.SYSQUERY table under a {tag} value specified by the SYSQUERY.USERFILTER column. Also works with FREE QUERY</i>  |   |             |             |              |            |
| FLAG   | <b>I</b> , W, E, C  | X           | X           | X            |            |
| <i>Determines what messages to display</i>   |   |             |             |              |            |
| GENERIC  | <b>'string'</b>   | X           | X           |              |            |
| <i>Specifies one or more bind options that are supported by the target server, but are not supported by DB2 for z/OS as options for BIND PACKAGE or REBIND PACKAGE</i> |   |             |             |              |            |
| GETACCEL<br>ARCHIVE  | <b>NO</b> , YES   | X           | X           |              |            |
| <i>Whether a static SQL query bound for acceleration retrieves archive data</i>  |   |             |             |              |            |
| IMMEDIATE  | <b>NO</b> , YES, INHERITFROMPLAN  | X           | X           |              |            |
| <i>Whether immediate writes will be done for updates made to GBP-dependent page sets/partitions</i>  |   |             |             |              |            |
| ISOLATION  | <b>RR</b> , RS, CS, UR, NC  | X           | X           | X            |            |
| <i>Determines how far to isolate an application from the effects of other running applications</i>   |   |             |             |              |            |
| KEEPDYNAMIC  | <b>NO</b> , YES   | X           | X           |              |            |
| <i>Determines whether DB2 keeps dynamic SQL statements after commit points</i>   |   |             |             |              |            |
| LIBRARY  | <i>Dbrm-pds-name</i>  |             |             | X, B0        |            |
| <i>Determines which partitioned data set to search for DBRMs listed in the member option</i>   |   |             |             |              |            |
| LOOKUP   | <b>NO</b> , YES   |             |             |              | BQ         |
| <i>Determines whether a query has matching access plan hint information in the SYSIBM.SYSQUERYPLAN table</i>   |   |             |             |              |            |

|   |   |   |             |             |              |            |       |
|---|---|---|-------------|-------------|--------------|------------|-------|
| MEMBER  | <i>Dbrm-member-name</i>   |   |             |             |              |            | X, B0 |
| <i>Determines what DBRMs to include in the package</i>  |   |   |             |             |              |            |       |
| OPTHINT   | <i>Hint-id</i>  |   | X           |             |              |            | X     |
| <i>Controls whether query optimization hints are used for static SQL</i>  |   |   |             |             |              |            |       |
| OPTIONS   | <b>COMPOSITE</b> , COMMAND  |   |             |             |              |            | X, BC |
| <i>Specifies which bind options to use for the new package</i>  |   |   |             |             |              |            |       |
| OWNER   | <i>Authorization-id</i>   |   | X           |             |              |            | X     |
| <i>Determines the authorization ID or the owner of the object (plan or package)</i>   |   |   |             |             |              |            |       |
|   | <i>Location-name.collection-id.</i>                                 |   |             |             |              |            | X     |
| PACKAGE   | <i>package-id(version-id)</i>                                       |   |             |             |              |            | X     |
|   | (*) – Rebind Only   |   |             |             |              |            | X,R0  |
| <i>Determines which package or packages to bind or rebind</i>   |   |   |             |             |              |            |       |
| PATH  | <i>Schema-name, USER, (schema-name, (USER)...) </i>                 |   | X           |             |              |            | X     |
| <i>SQL path that DB2 uses to resolve unqualified UDTs, functions and stored procedure names</i>   |   |   |             |             |              |            |       |
| PATHDEFAULT   | Mutually exclusive with PATH  |   | X           |             |              |            | X     |
| <i>Resets PATH for package or plan to "SYSIBM", "SYSFUN", "SYSPROC", or plan/package qualifier</i>  |   |   |             |             |              |            |       |
| PKLIST or NOPKLIST  | ( <i>Location-name.collection-id.package-id...</i> )<br>PKLIST only |   | X           |             |              |            |       |
| <i>Determines which package to include for the package list in the plan</i>   |   |   |             |             |              |            |       |
| PROGAUTH  | <b>DISABLE</b> , ENABLE   |   | X           |             |              |            |       |
| <i>Whether DB2 performs authorization checking to determine whether DB2 can execute a plan</i>  |   |   |             |             |              |            |       |
| PLANMGMT  | <b>OFF</b> , BASIC, EXTENDED  |   |             |             |              | X          | X     |
| <i>Retains, during a rebind operation, all relevant package information (metadata, query text, dependencies, authorizations, access paths, and so on) in catalog tables and in the directory</i>    |   |   |             |             |              |            |       |
| QUALIFIER   | <i>Qualifier-name</i>   |   | X           |             |              |            | X     |
| <i>Determines the implicit qualifier for unqualified names of objects in the plan or package</i>  |   |   |             |             |              |            |       |
| QUERY ACCELERATION  | <b>NONE</b> , ENABLE, ALL ENABLEWITHFALLBACK, ELIGIBLE              | X |             |             |              |            | X     |
| <b>Option</b>   | <b>Valid values</b>   |   | <b>Plan</b> | <b>Pckg</b> | <b>Trigr</b> | <b>Qry</b> |       |
| <i>Whether a static SQL query is bound for acceleration</i>   |   |   |             |             |              |            |       |
| QUERYID   | ' <b>number</b> ' ALL   |   |             |             |              |            | FQ    |
| <i>Frees entries from SYSIBM.SYSQUERY with same value (or ALL), and corresponding entries in SYSIBM.SYSQUERYPLAN table or SYSIBM.SYSQUERYOPTS table</i>   |   |   |             |             |              |            |       |
| RECORD  |   |   |             |             |              |            |       |
| TEMPORAL  | <b>YES</b> , NO   |   |             |             |              |            | X     |
| HISTORY   |   |   |             |             |              |            |       |
| <i>Whether changes to data in a system-period temporal table that are made by static or dynamic SQL statements cause changes to corresponding history table of the system-period temporal table</i> |   |   |             |             |              |            |       |
| RELEASE   | <b>COMMIT</b> , DEALLOCATE, INHERITFROMPLAN                         |   | X           |             | X            |            | X     |
| <i>Determines when to release resources that the program uses, either at commit or at termination</i>   |   |   |             |             |              |            |       |
| REOPT   | ONCE, ALWAYS, AUTO, <b>NONE</b>                                     |   | X           |             |              |            | X     |

If access path is determined at runtime (host variables, parameter markers, special registers)

|          |  |   |   |
|----------|--|---|---|
| ROUNDING | CEILING, DOWN, FLOOR HALFDOWN, <b>HALFEVEN</b> ,<br>HALFUP, UP | X | X |
|----------|--|---|---|

Specifies the rounding mode at bind time

|          |                                    |  |   |
|----------|------------------------------------|--|---|
| SQLERROR | <b>NOPACKAGE</b> , CONTINUE, CHECK |  | X |
|----------|------------------------------------|--|---|

Whether to create a package if the package contains an SQL error

|          |                  |   |  |
|----------|------------------|---|--|
| SQLRULES | <b>DB2</b> , STD | X |  |
|----------|------------------|---|--|

Whether a Type 2 connection can be made according to DB2 rules for an existing connection

|        |                    |  |   |   |
|--------|--------------------|--|---|---|
| SWITCH | PREVIOUS, ORIGINAL |  | X | X |
|--------|--------------------|--|---|---|

Restores all previous or original package information in the catalog tables and directory to that of the specified package copy

|                  |                 |  |   |   |
|------------------|-----------------|--|---|---|
| SYSTEM SENSITIVE | <b>YES</b> , NO |  | X | X |
|------------------|-----------------|--|---|---|

Whether references to system-period temporal tables are affected by value of CURRENT TEMPORAL TEMPORAL SYSTEM\_TIME

|          |                   |   |   |
|----------|-------------------|---|---|
| VALIDATE | <b>RUN</b> , BIND | X | X |
|----------|-------------------|---|---|

Whether to recheck at runtime 'not found' and 'not authorized' errors found at bind time

BO = BIND only, BC = BIND copy, RO = REBIND only, FQ = FREE QUERY, BQ = BIND QUERY

**BOLD/UNDERSCORE = default**

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