

Bugs addressed with Patch 15924

Bug 126709 II-203 (GENERIC)

SELECT CAST(MY_SEQ.NEXTVAL AS INTEGER) fails with E_US18AF whilst SELECT INTEGER(MY_SEQ.NEXTVAL) works as expected.

Bug 127305 II-185 (ATTENTION, GENERIC)

ima_drop_sessions and ima_drop_all_sessions does not work as per definition.

To activate this fix imadb has to be recreated. See KB article on how to do it:
<https://communities.actian.com/s/article/How-to-Create-IMADB>

Bug 129246 (GENERIC)

Replicating a non-jounaled table in journaled database causes audit problems (the dd_input_queue etc. is journaled, but update operations against the base table are not). The original update should fail.

Bug 130017 (ATTENTION,GENERIC)

A Sequence used as a table column default can be dropped.

NOTE: This fix prevents sequences to be dropped which are used as a table column default. If a sequence is being used then error message 'E_US2563 DROP SEQUENCE' will be generated when a request to drop the sequence is made.

Bug 130174 II-169 (GENERIC)

A union query that has an order-by clause which contains a function such as rand() or lower() causes E_SC0206/E_QE009C error.

Bug 130442 (ATTENTION,GENERIC)

COMMIT or ROLLBACK are incorrectly allowed inside a DBP procedure FOR LOOP. This causes the error E_QE001D_FAIL in the front end and the errors E_DM002B_BAD_RECORD_ID and E_QE001D_FAIL in the errlog. COMMIT and ROLLBACK should not be allowed inside FOR LOOP.

Bug 131601 II-841 (AIX)

Add PAM support for Ingres User Authentication.

Bug 131679 II-929 (GENERIC)

Before the iigcc is started, ingstart checks the current open files limit (i.e. the soft limit), not taking in account that this limit is extended in iirun. As a consequence, the following message is printed to the screen during ingstart: "WARNING!!! The recommended file descriptor soft limit for the NET Server... The current file descriptor soft limit is set to ..."

Bug 132068 II-1420 (GENERIC)

Incorrect default values are generated for newly added columns that have explicit default values defined when compression is used.

Bug 132638 II-1985 (GENERIC)

In a multi DBMS server environment if the recovery process dies for whatever reason one DBMS server does not shut down, spins reporting E_CL2517_CS_SMPR_DEADLOCK and E_DMA42E_LG_MUTEX and fills the errlog.log until the process is killed. Happens with 4 and more servers.

Bug 132805 II-2142 (SOLARIS)

On-line checkpoints may fail with tar errors when using the cktml.def file. The WSxx command should use the -D option to silence errors relating to changing files.

Bug 132813 II-2149 (GENERIC)

A local predicate in an outer join can bogusly reduce the estimated row count when in reality it cannot reduce the number of projected rows.

Bug 132919 II-2251 (GENERIC)

Server reports E_SC0206 from a query that casts a string constant to long varchar type of constant, then concatenates it with data from a long varchar column in a user table.

Bug 133069 II-2385 (ATTENTION, GENERIC)

ima_qsf_dbp definition in imadb truncates dbp_name after 60th chars

To activate the fix the imadb tables must be rebuilt: On Unix sql -u\$ingres imadb < \$II_SYSTEM/ingres/vdba/makimau.sql On Windows sql -u\$ingres imadb < "%II_SYSTEM%\ingres\bin\makiman.sql" On VMS sql -u\$ingres imadb < II_SYSTEM:[INGRES.VDBA]makimav.sql

Bug 133173 II-2503 (GENERIC)

CTAS . . . WITH MAX_PARALLEL = 48 does not fail with the expected E_US07D7 syntax error.

Bug 133247 II-2568 (GENERIC, ODBC)

Add support in ODBC for the DBMS UUID data type as an ODBC GUID data type.

Bug 133296 II-2615 (GENERIC)

'usermod -online' (which does a modify with concurrent_updates) sets the allocation_size for the modified tables to 0.

Bug 133374 II-2694 (GENERIC)

SELECT UUID() FROM <X100 table> gives SIGSEGV

Bug 133489 II-2811 (GENERIC)

destroydb on a readonly database fails with E_SC0206 and leaves DB inoperable

Bug 133639 II-2964 (GENERIC)

The error return for SQL using an invalid parameter name when executing a TPROC causes subsequent, valid calls to the procedure to report "E_US0965 Procedure '<procedure>' not found".

Bug 133933 II-3209 (ATTENTION, ENHANCEMENT)

The IIDBDB system view iidatabase_info has been updated to include a database_created column. To establish the view update the installation owner should run 'upgradedb iidbdb -tree'.

Bug 134039 II-3328 (GENERIC)

Various inconsistencies when using "set session collation" or when specifying "collate collation name" for a column in a create table statement. set session collation X accepts spanish and ascii but within a create table statement we don't allow the collations spanish and ascii.

Bug 134088 II-3386 (GENERIC)

Server returns wrong result for a query that joins between a union-all view, a table and a distinct view. All tables are vectorwise storage type.

Bug 134130 II-3428 (UNIX)

iimklog fails with segfault in rare cases while installation.

Bug 134131 II-3429 (GENERIC)

'set server trace on' trace, also known as SC930 tracing, truncates the UCS2 parameter data.

Bug 134260 II-3542 (SOLARIS)

The maximum file descriptors (FDs) for the DBMS on 64-bit Solaris was previously 65536, but was incorrectly reduced to 8192. If this is exceeded, which is possible with many connections and tables, the DBMS hangs.

Bug 134271 II-3553 (GENERIC)

E_OP0945 when trying to load statistics for a boolean column

Bug 134455 II-3743 (LINUX)

Provide native systemd services for RDBMS and Management Server.

Bug 134456 II-3744 (LINUX)

Provide OCF compliant resource agent script so instance can be managed as part of a failover cluster. This will support such software as Pacemaker.

Bug 134553 II-3838 (GENERIC)

Wrong result when coalesce, nvl, ifnull are used

Bug 134997 II-4282 (GENERIC)

Fix issues with profile option in VWLoad.

Bug 135025 II-4321 (ATTENTION, GENERIC)

timestampadd() function is not considering 'interval' field as Integer.

Now decimal part from 'interval' would be truncated, hence it will result different value in case 'interval' is decimal.

Bug 135058 II-4361 (GENERIC)

An ALTER TABLE ALTER COLUMN which changes a column that appears ahead of a key column may cause subsequent queries to fail with "E_QE0080_ERROR_POSITIONING Error trying to position a table."

Bug 135096 II-4342 (GENERIC)

Cross table update query between table and view fails with error: E_US125D Ambiguous replace: you have specified several replacements for the same row.

Bug 135181 II-4485 (GENERIC)

Add new SQL encryption functions AES_ENCRYPT_IV and ADE_ENCRYPT_IV.

Bug 135208 II-4515 (GENERIC)

Incorrect SQL syntax using OVER without PARTITION BY causes E_OP0082 consistency check error.

Bug 135222 II-4535 (GENERIC)

DBMS server crash on target machine while running clonedb.

Bug 135266 II-4617 (GENERIC)

Implement database procedure exception handling, using the general syntax and semantics in the SQL standard: ISO/IEC 9075 part 4, Persistent Stored Modules.

Bug 135387 II-4781 (ENHANCEMENT,GENERIC)

Add dbmsinfo('session_description') to retrieve the session description.

Bug 135483 II-4891 (GENERIC)

While tracing long running queries with sc925, only "Close cursor" statement appears in trace file treating Open,Fetch and Close cursor as single execution environment.

Bug 135511 II-4923 (GENERIC)

Wrong flags set in iiprocedure.dbp_mask1 for procedure A when A calls procedure B and B is recreated - depending on who is executing A. Verifydb then reports S_DU16E9_UNEXPECTED_DBP_PERMS and S_DU0251_MARK_DBP_DORMANT.

Bug 135587 II-5004 (GENERIC)

DBMSINFO needs to be able to return more than 64 characters for some DBMSINFO functions such as returning the DBMS log file path.

The DBMSINFO return maximum size is now the larger of 64, or the maximum size needed for the dbmsinfo item. All DBMSINFO requests prior to this change return 64 characters max. New DBMSINFO requests may be sized at more than 64 characters when necessary to contain the full returned value.

For compatibility, DBMSINFO('dbms_log') continues to return 64 characters max. The new DBMSINFO('full_dbms_log') returns the full path up to the internal server max of 255 characters.

Bug 135659 II-5094 (GENERIC)

Following an unsuccessful attempt to open a database, an ALTERDB command could cause the DBMS's 'LK Callback Thread' to report an E_CL250A_CS_NO_SEMAPHORE and terminate the DBMS via the server with an E_DM9449_DMD_CHECK error.

Bug 135667 II-5100 (ATTENTION,GENERIC)

If persistent index is used for a table and "alter table alter column" query is executed, the subsequent attempt to convert the data using "modify to reconstruct" fails to pick up integer overflow.

Bug 135692 II-5126 (UNIX)

Connecting with a database name that contains invalid characters, like - or ~, causes a SIGSEGV exception in the user session (E_CL2514_ESCAPED_EXCEPTION) and may cause the DBMS to no longer be available.

Bug 135696 II-5132 (GENERIC)

The query: 'select CURRENT_TIMESTAMP' fails with the error_E_US09C5 when connected to a Star database.

Bug 135939 II-5420 (GENERIC)

An insert into an x100 table after alterdb -disable_x100 crashes the dbms/x100 server. The errlog shows E_QE0002_INTERNAL_ERROR. The insert should fail with "E_US253F X100 statements are disabled for this database or session."

Bug 136013 II-5500 (GENERIC)

Query Result Caching (phase 1)

Bug 136054 II-5554 (GENERIC)

infodb shows "X100 supported : Yes" in user databases on platforms with no x100 support (Solaris, AIX, HP-UX, VMS)

Bug 136072 II-5564 (GENERIC)

AES_ENCRYPT(CONST, PASS_COLL) FROM MYTAB leads to incorrect results for every other row processed.

Bug 136231 II-5709 (GENERIC)

Sysmod ignores database errors. No error is reported back to sysmod if modifying of system catalog fails. E_DM9291_DM2F_FILENOTFOUND, E_RD0060_DMT_SHOW E_DM010C_TRAN_ABORTED, E_QE0024_TRANSACTION_ABORTED, E_DM9059_TRAN_FORCE_ABORT

Bug 136250 II-5731 (GENERIC)

The error message for SET RESULT_STRUCTURE and SET RET_INT0 statements do not show X100/VECTORWISE storage structures like X100, X100CL, VECTORWISE, VECTORWISE_CL and X100_ROW.

Bug 136261 (GENERIC)

A hybrid join query that contains a from-less union query may cause server to return wrong result.

Bug 136262 (GENERIC)

Aggregate query on heap table returns wrong result

Bug 136441 II-9037 (GENERIC)

Setting II_DECIMAL=, fails to create imadb objects.

Bug 136450 II-5957 (GENERIC)

Concatenating a non-long data type with a long [n]varchar produces a [n]char result. The [n]char has a limit of 32000 bytes, which could result in a truncated value.

Bug 136464 II-5968 (WINDOWS)

Changes made in the Visual SQL preferences are not saved on exit.

Bug 136505 II-6003 (ATTENTION,GENERIC)

Decimal precision for x100 tables were converted as per ingres precision, which is not required.

Earlier decimal expressions for x100 table were calculated as per x100 precision (38) and then output were converted as per ingres precision (39) and so one additional 0 was padded in decimal value. After this fix, this additional 0 would not be padded.

Bug 136522 II-6016 (UNIX)

clonedb script is unable to compare hostname string with diacriticals.

Bug 136580 II-6070 (GENERIC)

E_DM9357 error message has redundant information and timestamps.

Bug 136624 II-6104 (GENERIC)

String concat gives inconsistent result when compared with string constant shorter than column width.

Bug 136686 II-6166 (ENHANCEMENT, GENERIC)

'set date format' is not applied to values retrieved from an x100 table. After the application of this patch "set date format" will also apply to date retrieved from x100 tables.

Bug 136714 II-6190 (GENERIC)

The resulting datatype of date('string') within the procedure changes after clearing the cache using tracepoint qs506. the procedure recompile and uses current date_alias. It is not using the date_alias when the procedure created for the first time

Bug 136717 II-5692 (WINDOWS)

ckpdb fails if ckxcopy is replaced with robocopy in cktml.def

Bug 136721 II-6196 (GENERIC)

E_OP039F consistency check Error in join Query

Bug 136806 II-6280 (WINDOWS)

On Windows abf building binary fails with error LNK1104 and E_AB0020 but there is no hint about target directory has no write or read permission.

Bug 136823 II-6290 (GENERIC)

View creation fails with E_QS000F_BAD_HANDLE when created from python and JDBC.

Bug 136877 II-6331 (GENERIC)

Prepared query information(PQTXT:) missing in the output of 'iimonitor' and in case of DBMS experiences SIGSEGV.

Bug 136895 II-6350 (GENERIC)

Provide the ability to re-key a subset of tables of the database.

Bug 136928 II-6396 (GENERIC)

Server returns wrong result for a query that does a correlated join in a exists/not-exists subselect query on vectorwise table.

Bug 136929 II-6402 (GENERIC)

Add vnode support for FIM/SSO.

Bug 137084 II-6596 (GENERIC)

Server returns wrong result for queries with restrictions on a table's key column.

Bug 137100 II-6617 (GENERIC)

Copy THIRDPARTYNOTICES.txt file into installation directory.

Bug 137116 II-6635 (ATTENTION, GENERIC)

Columns containing string values which begin with a single quote (') can cause problems with the COPY command for CSV or SSV format.

When issuing COPY FROM a file columns values with an initial single quote may fail to load. When issuing a COPY INTO file such values will be enclosed in double quotes (") where previously this was not the case.

This is a consequence of an intentional change from previous versions allowing single quote to be used for quoting string values. In previous versions only double quotes were used and a single quote would have been interpreted as part of the data.

This fix adds two ways to restore previous behaviour. After applying this patch the new parameter `copy_dbl_quote_only` is available in CBF under the InstConfig menu. To add it to an existing installation first create it with the following command:

```
iiinitres copy_dbl_quote_only
```

This will add it with a default value of OFF. To enable the old behaviour set it to ON in CBF.

The second method is to add a new clause to the COPY command. To enable the old behaviour for a single COPY command add 'WITH DOUBLE_QUOTE_ONLY'. To use the new behaviour when `copy_dbl_quote_only` is set ON in CBF add 'WITH NODOUBLE_QUOTE_ONLY'

Note: if running the command via a client-server connection, the client needs to have this patch applied in order to recognise the new parameter. However the server needs to have been patched in order to recognise the new SQL syntax.

Bug 137162 II-6692 (ATTENTION,GENERIC)

Start and end of optimizedb are logged in errlog.log. This feature is available for new databases or after running "upgradedb -tree dbname" for existing databases.

Bug 137240 II-6783 (GENERIC)

JDBC error message(s) fail to identify the table and column to which they relate.

Bug 137295 II-6846 (ATTENTION, GENERIC)

Column to store prepared query information is missing in 'ima_server_sessions' table of 'imadb'.

To pick up this change the IMA table 'ima_server_sessions' must be rebuilt from either makiman.sql (Windows), makimau.sql (Linux/Unix) or makimav.sql (VMS).

Bug 137326 II-6870 (GENERIC)

Differing query results with 'not exists' if query flattening is on or off with a correlated anti-join subselect with an aggregate expression in the HAVING clause.

Bug 137339 II-6887 (GENERIC)

System catalogs can become corrupt after using alter table to drop a BLOB column. Performing a rollforwarddb can cause the database to become inconsistent if journals being processed contain records to add a BLOB column.

Bug 137367 II-6913 (GENERIC)

Make error messages more descriptive in vwload.

Bug 137373 (GENERIC)

Optimizer underestimates output tuples for VW non-outer-join hash01 join.

Bug 137392 II-6944 (GENERIC)

Missing selection propagation/pushdown for query

Bug 137426 II-6988 (GENERIC)

Rollforwarddb with -e option fails with error E_DM1380_RFP_INVALID_JNL when there is an x100 table in the database. Rollforwarddb with -e option should be able to restore to a time associated with an archive cycle last commit id.

Bug 137446 II-7005 (GENERIC)

buffer overrun with vision sep tests on windows 32 bit.

Bug 137482 II-7045 (GENERIC)

MAXROWSTEP is not enforced for queries against non-X100 table types.

Bug 137498 II-7058 (GENERIC)

Hybrid update statement that triggers rule invoking a procedure can hang.

Bug 137500 II-7061 (UNIX)

An overflow for casting an float to an i8 may not be detected on some Unix systems

Bug 137506 II-7063 (ATTENTION, GENERIC)

c-type and text-type is not supported for x100 tables however it is not being rejected. Now c-type and text-type are rejected for x100 tables. For existing x100 tables with column of c-type/text-type, query/insertion is still allowed. For full backward compatibility, enable/ON the configuration parameter - 'x100_c_text_type'. This parameter can be added using 'iinitres x100_c_text_type'

Under backward compatibility, histogram/statistics on c-type column of x100 table fails.

Bug 137508 II-7065 (GENERIC)

Sysmod enhancement: reduced locking enhancement: Single catalog sysmod for iistatistics and iihistogram do not need to connect with exclusive database lock. e.g. sysmod dbname iistatistics sysmod dbname iihistogram

Bug 137529 II-7086 (HPUX)

RBF was aborting on Itanium with Illegal Instruction.

Bug 137576 II-7128 (UNIX)

DB procedure produces wrong result when 2 byte integer variable or constant is returned in BIG-ENDIAN platforms.

Bug 137583 II-7135 (UNIX)

On some Unix platforms, a connection request to a separate installation on the same machine, but to an invalid or unopened port, takes about 10 seconds to return an error. The operating system error message is "Connection refused". If Ingres variable II_CONNECT_RETRIES is set to a high value, the connection request may appear to hang.

Bug 137590 II-7141 (BIG ENDIAN)

The SQL REVERSE() function returns an empty string if the input is a varchar.

Bug 137591 II-7142 (UNIX)

createdb fails if db is created with -encrypt option.

Bug 137599 II-7148 (GENERIC)

The "is json" predicate causes E_SC0206 internal error on HP-UX.

Bug 137671 II-7208 (GENERIC)

Refine error messages for Foreign Key and Unique Key violations.

Bug 137785 II-7333 (GENERIC)

Tableau Workbook queries q1, q2 and q3 perform poorly.

Bug 137793 II-7343 (DIRECTOR,IIMGMTSVR)

WhiteSource Vulnerability in log4j.jar version 1.2.17

Bug 137795 II-7345 (ATTENTION, LINUX)

Support Xerces 3.2. Important: Xerces 3.2 requires libnsl to be installed.

Bug 137813 II-1558 (WINDOWS)

Journal Analyser stops responding while trying to view transaction detail when processing more than 10 journal files.

Bug 137815 II-7366 (GENERIC)

OPF SIGSEGV with UNION query when reuse is on

Bug 137816 II-7368 (GENERIC)

Running install.sh with -usesudo flag may fail, reporting: "authmech: parameter null or not set".

Bug 137852 II-7393 (GENERIC)

A new SQL predicate - "is [not] ii_date_format" added. This takes string as input and checks whether it can be converted into any valid date form.

Bug 137862 II-7403 (LINUX)

After DBMS receives a signal like SIGSEGV, it hangs. Ingres has to be shutdown hardly!
pthread_cond_destroy() hangs when glibc versions are not compatible between compile time and runtime, in this case compile time version is < 2.25 and runtime version >= 2.25.

Bug 137881 (GENERIC)

Query that has restrictions on lpad()/rpad() may run slow.

Bug 137891 II-7419 (ODBC)

UDF creation in ODBC fails with "syntax error on ';' if the definition ends with a semicolon. While the error is valid, some ODBC tools automatically add a semicolon at the end of statements. The ODBC driver already strips trailing semicolon for other types of statements, so should also do it for "create [or replace] function" statements.

Bug 137900 II-7427 (GENERIC)

Add support for vnode tests via netutil command line.

Bug 137907 II-7436 (GENERIC)

If a session is being killed errlog.log contains below message falsely, although transaction file is NOT full
E_QE0024_TRANSACTION_ABORTED - the transaction log file is full.

Bug 137914 II-7443 (UNIX)

Support Xerces 3.2

Bug 137933 II-7458 (GENERIC)

LENGTH(VARCHAR) on select-list, may give wrong output in case of GROUP BY on VARCHAR

Subquery having DISTINCT and 1st item in select-list having some function with no argument or const argument(s), may give wrong output.

Bug 137955 II-7473 (GENERIC)

Prepared query text(PQTX) is missing with sc924 when the query is cursor Fetch.

Bug 137989 II-7479 (GENERIC)

SQL UDFs do not work in INSERT INTO subselect

Bug 137994 II-7500 (GENERIC)

Prepared query information(PQTX line) missing with batched prepared inserts when server_trace or sc930 trace point is enabled.

Bug 137999 II-7507 (GENERIC)

A x100 query that does an outer join on a view's column, which contains a CASE statement, could cause E_VW1016 error. X100 server could shut down after the error occurs.

Bug 138020 II-7529 (GENERIC)

Query with subselect statement incorrectly fails with E_US1196.

Bug 138026 II-7533 (GENERIC)

A SQL query using two or more multi value IN sub-selects fails with E_OP0780 (adc_hg_dtln) and E_AD2004.

Bug 138037 II-7539 (JDBC)

JDBC reports result-set meta-data precision (8) less than scale (9) for type time(9). Similar with COLUMN_SIZE column in database meta-data method getColumn() and PRECISION and MAXIMUM_SCALE columns in method getTypeInfo().

Bug 138039 II-7543 (JDBC)

Jdbc driver fails to authenticate SSO user when authenticating server of mixed letter cases is specified.

Bug 138042 (GENERIC)

If the file specification for a server trace log contains a '%' which is not followed by a valid parameter value (see definition of II_DBMS_LOG), the server will stall.

Bug 138072 II-5514 (GENERIC)

E_US1263 error was raised intermittently without any message in errlog.log or DBMS log. The fix does not eliminate the error, but it reports further messages to find out the cause.

Bug 138085 II-7578 (WINDOWS)

Update config settings for Vector and BI on Windows to match Linux.

Bug 138120 II-7603 (GENERIC)

Prepared query information(PQTXT line) missing in trace files with server_trace,SC930 for FETCH and CLOSE cursor statements using prepared query.

Bug 138123 II-7606 (GENERIC)

Joining four or more row producing procedures in select statement(i.e.,table procedures) generates optimizer error E_OP08A2.

Bug 138147 (GENERIC)

x100 server returns wrong result for a query that has a subselect, and the subselect query contains an aggregate in its having clause.

Bug 138149 II-7625 (GENERIC)

Incorrect results using decode() on an ingresdate/date in star database

Bug 138154 II-7630 (GENERIC)

E_OP0082 consistency check on query using WITH and UNION with aggregate involving CASE Example stack trace: 0x8b0745, opa_propagate_predicates, opa_1pass, opa_aggregate, 0x4d0c6d, ops_sequencer, opf_call, csc_sequencer, CSMT_setup

Bug 138157 II-7633 (UNIX, LINUX)

Incorrect W_DM9C94 message for system catalog

Bug 138171 II-7642 (ATTENTION, LINUX)

call x100(rewrite) fails.

Note that after application of this fix, an upgradedb of all databases will be required, since the internal database level has changed due to the correction of the definitions of the iiprimitives, iivwprof_stage, iivwprof_stage_global catalogs.

Bug 138172 II-7591 (WINDOWS)

The Send Test Email option in the Windows installer does not provide error details when it fails.

Bug 138173 II-7644 (WINDOWS)

When starting as a service, Actian utilities that use wrappers to get spawned through Ingres service have their 'Actian' user changed to 'system' regardless of 'os' user that starts the utility.

Bug 138177 II-7647 (GENERIC)

A union view that has char type column on each branch of the union query, but with different char size, makes optimizer not use the table storage structure, but table scan instead. This makes the query take longer time to run.

Bug 138182 II-7649 (GENERIC)

Veracode static scan flaws mitigation for src/front/frontcl/ ft, libqsys, runsys, termdr and vt modules.

Bug 138190 II-7546 (GENERIC)

clicchk reports "license not found" for Ingres products not in the license.xml file.

You may now use '-c <component-name>' to specify the 'component name' to be validated (e.g. clicchk -c ACTIANX).

Bug 138199 II-7661 (GENERIC)

Calling iigenres with an invalid resource (host) name, that contains a '.', will corrupt the config.dat

Bug 138204 II-7670 (GENERIC)

Getting error E_DM1206_ATP_TOO_MANY_TX, if one ends up with more than 2048 End of a Mini-Transaction (EMINI), in auditdb.

Bug 138207 II-7674 (WINDOWS)

Installing the product on Windows shows the following in the errlog.log:
E_DM923A_CONFIG_OPEN_ERROR Error 138207 occurred opening configuration file (aaaaaaa.cnf)
The installation is working without issues though.

Bug 138208 II-7675 (WINDOWS)

On Windows systems with a high resolution display and a scaling factor of 200 or 250% the text on the installer dialogs gets cut off and icons are displayed very small.

Bug 138210 II-7681 (GENERIC)

Select query returns error - E_LQ0040 and E_LC0022, in the case where there is one LOB column, sum of columns length prior to LOB column is ≤ 17 and sum of all columns length is > 4096

Bug 138224 II-6762 (ODBC)

ODBC function SQLError() always returns only the first error message instead of returning the "next" message, when using the Ingres/Vector ODBC Driver manager (aka CLI). This would occur for other driver managers (DMs) if they pass application calls of SQLError() directly through to the driver, rather than redirecting them to SQLGetDiagRec(). The Windows and unixODBC DMs both redirect, so do not have the problem.

In the same environment, if the first statement of an explicit batch has an error, the application (calling SQLError() until end of messages) will go into an infinite loop returning only the first message repeatedly.

Bug 138232 II-7693 (GENERIC)

IPM utility fails to display complete server list for domain sockets if socket directory path is more than 24 characters.

Bug 138241 II-7710 (GENERIC)

UNLOADDB and COPYDB report "E_US0834 line 1, Table 'iiprocedures' owned by '\$ingres' does not contain column 'is_func'." when run against older clients over NET.

Bug 138247 II-7715 (GENERIC)

Queries involving a SUM(CASE...) and logical contradiction predicate give E_OP0901 and E_OP0082
Example stack trace: opa_1pass, opa_aggregate, 0x4d0d9f, ops_sequencer, opf_call, scs_sequencer, CSMT_setup

Bug 138249 II-7717 (VECTORH)

create stats on a mix of Ingres and X100 tables in VectorH gives E_VW1027 rewriter error

Bug 138250 II-7718 (WINDOWS)

When modifying the installation to add the DBMS feature the timezone selection box is empty when it should show the existing (not modifiable) value.

Bug 138254 II-7723 (GENERIC)

In a java program, executing a query that concatenates between two blob type of data causes error E_PS0004 being reported to errlog.log.

Bug 138257 II-7725 (GENERIC)

A new client connecting to an old server that issues SET statements that are supported by the client but not by the back end will cause the change to only take effect in the client. Whilst this provides new capabilities in the client the user is not warned about the resulting difference in back end and front end settings.

Bug 138260 II-7729 (GENERIC)

Issue with vwload loading characters like Korean, German or chinese.

Bug 138269 II-7720 (CLUSTER)

Starting Clustered Ingres on multiple nodes, an ingstop may hang attempting to stop the RMCMD process. The DBMS server must be stopped by hand.

Bug 138271 II-7737 (WINDOWS)

Uninstalling the product leaves files in C:\ProgramData\Action\InstallID\files.

Bug 138274 II-7735 (GENERIC)

Cursor executed query can cause error: E_OP038E_MAXOUTERJOIN - maximum number of outer joins per subquery has been exceeded

Bug 138275 II-7740 (ATTENTION, AIX)

Hilbert values are incorrectly calculated in RTREE indexes.

NOTE: To pick this change, on AIX platform if there are any RTREE indices already created, need to drop those and create again as the Hilbert value(using which the index is sorted) has changed now.

Bug 138277 II-7742 (GENERIC)

Explicitly casting the result of an operator to a different type may fail with E_AD5001_BAD_STRING_TYP. An example case is: SELECT INT4(UPPER(char_col)) FROM tab1;

Bug 138284 II-7749 (GENERIC)

E_OP0082 error when running a query with large number of OR clauses. errlog.log will show E_OP0082, and may contain a stack trace that show recursive call on opa_mask_columns_recurse() routine.

Bug 138285 II-7750 (ODBC)

ODBC utility iiodbcinst could fail due to memory overrun.

Bug 138286 II-7751 (ODBC)

ODBC SQLGetDescField function copies incorrect size for SQL_DESC_ARRAY_SIZE in big endian system, if 64-bit variable is provided .

Bug 138290 II-7754 (WINDOWS)

A connection request to a SQL Server linked server using ODBC to Ingres/Vector fails with the following error for all users except the first user: "E_GC1008 Unable to authenticate client's user ID." Multi-user Windows applications such as SQL Server or IIS will likely encounter this problem.

Bug 138292 II-7756 (GENERIC)

verifydb raises misleading error S_DU1673 when a table contains constraints. verifydb raises error S_DU1633 when a procedure used in a view is dropped.

Bug 138309 II-7772 (GENERIC)

Query on an Ingres table with a grouped aggregate and a logical contradiction predicate tries to return infinite rows

Bug 138315 II-7779 (SOLARIS)

A conversion of BYTE to NVARCHAR failed due to data alignment problems.

Bug 138327 II-7787 (GENERIC)

Fixes JDBC schema exception

Bug 138334 II-7796 (WINDOWS)

Visual Database Administrator shows error messages, like createdb failures, with overlapping "OK" and "View Errors" buttons.

Bug 138336 II-7798 (WINDOWS)

Visual Journal Analyzer reports syntax error when trying to view transactions for a table with time or timestamp columns.

Bug 138345 II-7807 (GENERIC)

Union query returns wrong result if configuration parameter 'opf_reuse' is set to ON.

Bug 138381 II-7847 (Unix)

The inglogs script doesn't collect vectorwise.DBNAME.log files nor iibbms log files if II_DBMS_LOG is set in the OS environment.

Bug 138382 II-7848 (GENERIC)

A wrong syntax statement like SET SERVER_TRACE ON DIRECTOTY='path' (note the missing word WITH), sometimes fails with error E_US1962 and sometimes with E_US0A04. It must always fail with E_US0A04.

Bug 138406 II-7873 (GENERIC)

With opf_reuse being enabled, a vectorwise union query that computes multiple aggregates could fail with rewriter error E_VW1027.

Bug 138431 II-7884 (GENERIC)

syntax error using conversion functions inside decode()

Bug 138433 II-7886 (GENERIC)

Insert into external table with format=vector fails.

Bug 138434 II-7887 (GENERIC)

Using 'copydb' or 'unloaddb' to copy a table with name 'stats' fails with error E_US0A07.

Bug 138443 II-7896 (ATTENTION, GENERIC)

CREATE STATISTICS commands trigger autostats collection

Now any GTT created using 'AS SELECT' will not cause autostats to be generated on the underlying tables accessed in the SELECT. If stats are required for those underlying tables, need to use the CREATE STATISTICS command on them.

Bug 138448 II-7901 (GENERIC)

COPY column formats d0 and text(0) must have a delimiter defined to be able to be safely unloaded and reloaded. For backwards compatibility the old_copy_dn config paramter and the "SET SESSION OLD_COPY_DN" statements were added. With the old behaviour selected some COPY statements still fail with "E_US16F0 COPY: Column 'n', format 'd0' requires a delimiter." Please note that using d0 and text(0) continues to be unsafe. They produces undefined behaviour and reloads are likely to fail.

Bug 138449 II-7902 (GENERIC)

'is ingresdate' returns incorrectly for few cases.

Bug 138463 II-7914 (GENERIC)

On Vector, the expected result of date_alias is being ignored inside DB procedure for X100 table.

Bug 138466 II-7918 (X100)

Verifydb generates S_DU16A8, S_DU1691, S_DU1692, S_DU168F for each FOREIGN KEY constraint on an X100 table.

Bug 138477 II-7922 (GENERIC)

clicchk returns fail status if license files has entries for multiple hosts.

Bug 138493 II-7930 (GENERIC)

When AUTOCOMMIT is ON a GRANT permission on a VIEW followed by a REVOKE of a permission on a VIEW fails with E_US0E0E GRANT: You cannot grant permissions on views created in QUEL.

Bug 138494 II-7931 (GENERIC)

Nulls ordered wrongly sometimes - e.g. ordering DESC with NULLS LAST can leave them first, and ordering ASC with NULLS FIRST can leave them last

Bug 138507 II-7943 (GENERIC)

A grouped aggregate count subquery that doesn't project its group column can result in error E_OP068C
A bad select target list

Bug 138545 II-7645 (LINUX)

install.sh with -no32bit flag excludes 64bit ABF.

Bug 138546 II-7977 (UNIX)

ingstop may not shutdown the recovery server.

Bug 138553 II-7984 (WINDOWS)

Add new entry setup.owner.user to config.dat on Windows to indicate the installation owner.

Bug 138556 II-7990 (GENERIC)

Fix intermittent crashing of vwload tool.

Bug 138562 II-7998 (GENERIC)

Views against system catalogs and iicolumn_locations are missing after running upgradedb.
iicolumn_locations may be missing after running a unloaddb generated copy.in.

Bug 138569 II-8006 (GENERIC)

Server returns wrong result for a not-exist query that contains an aggregate in its having clause. All tables in the query are not x100 storage type.

Bug 138584 II-8010 (WINDOWS)

Direct connect fails with II_GC_REMOTE set to ON.

Bug 138593 II-8017 (GENERIC)

verifydb modifies extended table even in REPORT mode. Also, etabs part was not getting verified for extended tables.

Bug 138595 II-8020 (GENERIC)

IN subselects with DISTINCT or GROUP BY applied may produce wrong results if under an OR operator in a WHERE clause.

Bug 138611 II-8037 (GENERIC)

When invoking a user defined function, it may fail with E_US2525/E_US2503 incorrectly.

Bug 138632 (GENERIC)

A query that contains a 'not exists' subselect fails with E_OP04B4 consistency check error. Problem is only seen on vectorwise type table.

Bug 138642 II-8065 (ATTENTION, GENERIC)

The default qef_dsh_memory is too low and may lead to E_UL0005_NOMEM and E_QE000D_NO_MEMORY_LEFT errors. The default value has been increased. To apply it use CBF and "recalculate" option. (Should the error still occur, increase the value)

Bug 138671 II-8099 (GENERIC)

ODBC catalog calls like SQLTables() can error as buffer for owner name IN list is too small

Bug 138673 II-8101 (GENERIC, X100)

'upgradedb' fails with error "Unable to drop the system catalog 'iiprimitives'" for database having x100 disabled by "alterdb -disable_x100".

Bug 138681 II-8106 (GENERIC)

Details(database, table owner, table name etc.) missing in BLOB related error messages E_DM9B0B_DMPE_LENGTH_MISMATCH,E_AD7004_BAD_BLOB. The new follow up error message E_AD7FFF_ADP_INFO_BAD_BLOB prints the missing details.

Bug 138682 II-8107 (GENERIC)

Compiling an ESQLC program using IIseterr() gives a warning about implicit declaration of that function

Bug 138685 II-8109 (GENERIC)

E_CL250C_CS_INVALID_MODE error message does not contain the mode which is wrong.

Bug 138691 II-8113 (WINDOWS)

The Ingres Administrator Command prompt reports 'CMD does not support UNC paths as current directories' if HOMEPATH is set to '\\.

Bug 138697 II-8120 (VMS)

The GCC server may hang whilst being shutdown.

Bug 138724 II-8154 (GENERIC)

Wrong results when doing distinction on a column which is then used in an INNER JOIN and the matching column from the other side of the join is projected, as the result erroneously removes duplicates. Projecting the column from the side which had DISTINCT applied gives correct results

Bug 138731 II-8164 (GENERIC)

'Always logged' ('mustlog') option on a database is changed from 'Yes' to 'No' after 'upgradedb'.

Bug 138732 (GENERIC)

Allow "modify to reconstruct with location=newlocation" to be run on a single location, unpartitioned x100 table.

Bug 138734 II-8168 (GENERIC)

ULM/PSF Memory Management: E_PS0F02_MEMORY_FULL error in case number of prepared statements is large

Bug 138739 II-8176 (GENERIC)

A x100 query that compares a float type column with an integer constant fails with E_VW1078.

Bug 138743 II-8180 (WINDOWS)

VDBA crashes when browsing 'Grantees on Table' for a table with 'grant access'.

Bug 138748 II-8185 (GENERIC)

DBPs for X100 ignore OFFSET and FETCH NEXT host variables in main and 6.2, and give an error on the DBP creation in 6.1 and 6.0

Bug 138753 II-8189 (GENERIC)

"E_VW1027 Rewriter error" occurs on MERGE statement with reordered column list for X100 tables. Wrong result occurs on MERGE statement with reordered column list regardless of table type.

Bug 138754 II-8195 (GENERIC)

help is missing for create/drop function statements.

Bug 138765 II-8214 (GENERIC)

Rollforwarddb fails with E_DM130D_RFP_BAD_RESTORE, E_DM1301_RFP_ROLL_FORWARD with this additional message in the errlog: E_DM907B_BAD_ALIAS_DELETE Unable to delete (missing) alias file in the case where the database is x100 disabled and there are zero x100 tables and there is more than one data location.

Bug 138766 II-8209 (GENERIC)

Union query that contains a not-exists subsql could return wrong result if opf_reuse is enabled.

Bug 138773 II-8225 (GENERIC)

After a failing rollforwarddb, alterdb -remove_x100 fails with SIGSEGV

Bug 138775 II-8227 (SOLARIS)

Interactive installation on Solaris fails after reading installation owner details.

Bug 138786 II-8244 (ATTENTION, GENERIC)

Added a new DBMS configuration parameter 'opf_literal_transitive' to control the usage of applying the literal closure logic during query optimization process. For example, for a query that has restrictions on a = 1 and b = 1, setting 'opf_literal_transitive' to ON would enable optimizer to imply a = b. Default value is ON. This parameter needs to be initialized by using the below command.

```
iiinitres opf_literal_transitive
```

On a sql session, the above can also be achieved by running 'set [no]literal_trans', which turns on/off literal closure logic accordingly.

Bug 138788 II-8256 (VMS)

utexe.def is missing the details for convtouni.

Bug 138789 II-8257 (VMS)

Trying to use aes_encrypt_iv() or aes_decrypt_iv() on VMS results in an E_SC0206 error. These functions are not supported on VMS.

Bug 138795 II-8276 (VMS)

Installing Ingres using a response file will provide bad values if the specified file is missing or empty.

Bug 138799 II-8279 (GENERIC)

iiconv fails with CM_MAP_BAD_CS when WIN1253 charset is used.

Bug 138802 II-8284 (GENERIC)

A query that contains a subselect may take longer time to run.

Bug 138803 II-8285 (VMS)

Auditdb trail files created with -internal_data have the wrong record size. This will prevent the last record from being loaded.

Bug 138806 II-8289 (ATTENTION, GENERIC)

A query takes longer time and consumes high CPU before it runs to completion. QEP shows a key join on an index, but the key join only uses part of the key on the index.

The fix to this problem relies on composite histogram exists on the table. DBAs are encouraged to analyze the query and generate composite histogram on the partial key columns shown in the k-join section of the qep. This will assist optimizer to pick optimal plan to solve the query.

Bug 138816 II-8301 (GENERIC)

Coercion issues when using HASH() as argument of GREATER or LESSER.

Bug 138819 II-8303 (GENERIC)

"E_VW1082 An attempt to place a null value in a non-nullable datatype" returned on MERGE statement with reordered column list

Bug 138844 II-8329 (ATTENTION, ACTIANX)

Extenddb Fails with E_VW1099 & E_QE0600 when run after "alterdb -remove_x100" E_VW1099 Cannot start X100 server. E_QE0600 X100 query failure - see X100 logs

Note: 1. Please take checkpoints on the user database and iidbdb's iidatabase before running "alterdb -remove_x100" command. 2. User intervention is required to run the "alterdb -remove_x100" command as it now prompts warning message to check if the user has taken necessary checkpoints(as mentioned above). Once confirmed(y) will go ahead with removing x100, else(n) will exit without removing x100.

Bug 138857 II-8334 (GENERIC)

lpad() and rpad() give E_PS0C91 and E_PS0001 when using columns or an integer expression as the second argument

Bug 138865 II-8341 (VMS)

The lana version 2021c zic.c fails to compile when downloaded by iisuitz due to the definition of uint_fast64_t.

Bug 138875 II-8349 (GENERIC)

RDF cache is not released when a query undergoes flattening.

Bug 138897 II-8376 (GENERIC)

Syntax error message for DROP PERMIT ON SEQUENCE/PROCEDURE/DBEVENT is related to DROP PERMIT ON tablename

Bug 138910 II-8394 (GENERIC)

upgradedb can fail to upgrade a database when trying to convert integrity. An E_AD0128 String Truncation warning message is reported.

Bug 138915 II-8191 (WINDOWS)

The imp executable installed with the Windows product fails to load the DBMS session list.

Bug 138926 II-8409 (SOLARIS)

A concatenation or add using BLOB data and an inline component can result in the following error.

E_SC0206 An internal error prevents further processing of this query. Associated error messages which provide more detailed information about the problem can be found in the error log, II_LOG:errlog.log

BLOB data, held in the database, isn't lost. It's just not processed.

Bug 138935 II-8421 (VMS)

Trying to test a DECNET connection fails with E_GC2809_NTWK_CONNECTION_FAIL.

Bug 138963 II-8457 (LINUX)

CLONEDB fails with "export: Command not found." errors if a remote host login has a default shell of csh.

Bug 138964 II-8458 (GENERIC)

clonedb fails with error 'E_US0080 One of the locations named for the database was not found or is not available for use', if database in source machine was created using non default locations.

Bug 138970 II-8466 (GENERIC)

Error messages in errlog.log do not have context, showing lx rather than a 64-bit value

Bug 138972 II-8467 (GENERIC)

Adding UDTs to a server may result in a crash during startup. The stack dump will include SCA_ADD_DATATYPES.

Bug 138985 II-8094 (UNIX)

IANA timezone code installation aborts when the user answers no for redundant choice.

Bug 138996 II-8477 (GENERIC)

to_char() does not allow conversion of absolute date into TIMESTAMP. For non-absolute date or interval, error message is not suitable, like - "E_US10F6 The date value (of type 3) passed to adu_tocharfmt() is not supported."

Bug 138999 II-8479 (VMS)

iitzselect symbol not defined.

Bug 139010 II-8489 (VMS)

Iana's ZIC utility is generating timezone files with an extension. A TZ file can not be found as Ingres expects the TZ file to have no extension.

Bug 139029 II-8522 (GENERIC)

if config parameter opf_hash_aggregate is enabled, listagg() could return wrong result.

Bug 139032 II-8525 (LINUX)

Interactive installation with no32bit flag was installing 32bit support package.

Bug 139038 II-8539 (GENERIC)

With configuration parameter 'opf_reuse' being set to ON, a union query may return wrong result.

Bug 139039 II-8540 (GENERIC)

When using CSV copy, values starting with (white) space followed by a single quote can't be copied out and in. Either the leading and trailing space(s) and single quotes are silently dropped or the copy is rejected with E_CO004B

This fix means that now, when a stored string starts or ends with either a space or a tab, the 'copy into' will put containing double quotes around the text.

Bug 139049 II-8550 (GENERIC)

Optimizer underestimates disk I/O cost for QEP that uses Key join, and may make query take longer time to run.

Bug 139051 II-8553 (LINUX)

iisystemd -a restart stops but does not restart the service.

Bug 139063 II-8555 (GENERIC)

A ULM memory corruption occurs during DBMS server startup. On 32-bit Linux this manifested itself as a SIGSEGV in ulm_free() during qec_shutdown().

Bug 139064 II-8567 (ODBC)

ODBC table and procedure metadata functions such as SQLColumns() and SQLProcedureColumns() fail to return any data for tables and procedures with delimited id mixed case names.

Additionally, for databases created with delimited id case set to "mixed", ODBC SQLGetInfo() for information type SQL_QUOTED_IDENTIFIER_CASE should return SQL_IC_SENSITIVE instead of SQL_IC_MIXED since the DBMS treats delimited identifiers as case sensitive.

The DSN cache, used to improve connection performance for gateways (Enterprise Access), always contained "M" for "mixed" in the server regular and delimited name case attributes, regardless of the server behavior.

Bug 139077 II-8581 (VMS)

IPM may hang obtaining information from a DBMS server. The stack will include GC_SYNC_REGISTER_C+00EE1

Bug 139085 II-8588 (CLUSTERED, VMS)

upgradedb may report '%SYSTEM-F-ABORT, abort' after reloading the query tree objects. The Database was updated.

Bug 139111 II-8612 (VMS)

INGSTART on VMS fails to start the RECOVERY server in a System level installation. After starting the Name Server %SYSTEM-F-ABORT, abort is reported.

Bug 139123 II-8624 (GENERIC)

The DBMS may SIGSEGV in scu_information(). The stack will include: scu_information(), scf_call(), uleFormatFcnV().

Bug 139127 II-8629 (VMS)

Following an upgrade, any tailored config.dat parameter values are lost.

Bug 139161 II-8654 (GENERIC)

MVCC workloads with high concurrency for OLTP transactions result in crashed with E_DM9449_DMD_CHECK Also see E_DM9625_DMVE_ALLOC error in errlog Look for a stack trace involving dmd_check_fn, dmxe_abort, dmx_abort, dmf_call, qet_abort in combination with the E_DM9625_DMVE_ALLOC error

Bug 139176 II-8668 (GENERIC)

E_US09C4 Syntax error when trying to create a procedure that uses "language" as a column name or as a variable name

Bug 139188 II-8686 (GENERIC)

ESQL - E_OP0093_ULM_ERROR consistency check - memory manager error (below)

- memory manager error----- Closing Down because of database error: E_UL0014 Bad parameter supplied to one of the ULM routines.

The issue is observed when host variable is used in a group by context, and is treated as constant.

Bug 139195 II-8692 (GENERIC)

After running optimizedb and/or CREATE STATISTICS with a high cell count (circa 32000) queries may fail with E_RD0106 consistency check.

Bug 139202 II-8699 (GENERIC)

Inserting select from X100 to Ingres using OFFSET and/or FETCH NEXT ROWS gives incorrect results.

Bug 139218 II-8720 (GENERIC)

Even after applying valid license once license expired and grace period is over, installation may still be blocked.

Bug 139222 II-8722 (GENERIC)

Bridge server error E_GC2A06_PB_FSM_STATE with iimonitor.

Bug 139231 II-8734 (LINUX)

OpenAPI demo programs fail with segmentation fault when statically linked with libingres.a and AES encryption is configured in the instance.

Bug 139232 II-8735 (WINDOWS)

Modifying a Windows installation creates an empty directory "C:\Actian\ProductID\ingres\jre".

Bug 139233 II-8736 (GENERIC)

Decimal display as garbage in TM when selecting derived dec(39, 17) column

Bug 139236 II-8056 (SOLARIS)

install.sh on Solaris platforms doesn't work on a Bourne shell (works with bash). Error: The home directory for the "<username>" user: ~<username> is not writable.

Bug 139244 II-8737 (ATTENTION, DIRECTOR)

Apache Log4j v2.14.1 has security vulnerabilities

Bug 139268 II-8771 (VMS)

During the install of a DBMS installation, following the entry of a license there is no acknowledgement that the license has been accepted and that the installation is proceeding.

Bug 139275 II-1034 (GENERIC)

A new parameter has been added to the DBMSINFO() SQL function to complement the SET STRING_TRUNCATION command.

SELECT DBMSINFO('STRING_TRUNCATION') will return the session's setting for this state : "IGNORE", "FAIL", "WARN".

Bug 139277 II-8775 (VMS)

Register Index on an RMS file index fails with E_QE0400,E_GW0668.

Bug 139278 II-8776 (VMS)

No way to exit iitzselect.

Bug 139280 II-8780 (WINDOWS)

The Windows installer may fail to install the pre-built IANA time zone files.

Bug 139289 II-8789 (VMS)

IISUDBMS may corrupt the config.dat file by adding resources of the form 'ii.\$....'. These lines should be removed.

Bug 139293 II-8794 (VMS, CLUSTER)

Upgrading a four or more node cluster installation makes rcp server fails to start with error log message E_DMA46B_LGALTER_ALLOC_LBB.

Bug 139295 II-8795 (VMS)

JSON predicate are not detecting floating point overflow.

Bug 139309 II-8808 (DIRECTOR)

Upgrade log4j from 2.16.0 to 2.17.0 in view of DoS vulnerability, bumped up Director version to 2.3.5

Bug 139312 II-8811 (GENERIC)

If a database is created with custom collation sequence, a query that uses FSM join could fail with error E_DM0138.

Bug 139318 II-8816 (GENERIC)

An insert into an external table may fail with "E_VW1213 External table provider reported an error" when special characters, such as emojis, are present in string values.

Bug 139319 II-8639 (VMS, CLUSTER)

During a period of heavy load spread over multiple nodes of a clustered Ingres installation, sessions may hang waiting for SV_PAGE locks. The VMS DLM has granted the sessions lock request.

Bug 139321 II-8821 (GENERIC)

EXECUTE PROCEDURE fails with E_DM9B08_DMPE_NEED_TRAN when the procedure contains long datatype parameters.

Bug 139324 II-8671 (VMS, CLUSTER)

Following a node failure, lock requests on remaining nodes are stalled and never granted.

Bug 139344 II-8681 (GENERIC)

MODIFY TO COMBINE fails with E_SC0206 and PS0004_EXCEPTION seen in errlog after earlier session query included WITH clause

Bug 139353 II-8850 (VMS)

E_SC033D_TZNAME_INVALID is not displaying the timezone name.

Bug 139361 II-8860 (GENERIC)

Trying to create a procedure as user B that uses a row-producing procedure owned by user A gives E_RD0125 with SIGSEGV in rdf_readtuples()

Bug 139366 II-8871 (ODBC,SOLARIS)

A bus error crash for "invalid address alignment" occurs on Solaris 64-bit when executing a query in ODBC containing a parameter targeted for a DBMS character column that was bound by SQLBindParameter() to C type SQL_C_GUID.

Bug 139370 II-8873 (GENERIC)

Creating an SQL UDF with illegal statements like INSERT is allowed, and they run without error but do not perform the INSERT

Bug 139371 II-8876 (GENERIC)

Queries may fail with E_RD0136, E_PS0D15, E_PS0007, E_SC0215 when trying to select from a table procedure that replaced an existing DBP of the same name in a CREATE OR REPLACE PROCEDURE statement.

Bug 139372 II-8877 (GENERIC)

unloaddb: reload silently drops a view depending on a Table Procedure owned by a different user

Bug 139387 II-8907 (GENERIC)

SIGSEGV or wrong results when selecting from a view which does SELECT DISTINCT and includes a NULL in the list of projected columns for Ingres queries.

Bug 139391 II-8912 (HP-UX)

Added -w option to utcom.def to disable compiler warning messages.

Bug 139394 II-8914 (ATTENTION, GENERIC)

'create statistics' statement may generate wrong statistics on a table containing at least 1 million rows of non-distinct data.

If 'optimizedb' is run with '-zs' flag on a table containing less than 1 million row of non-distinct data, or if the table containing at least 1 million rows of non-distinct data and 'optimizedb' is run without using the '-zns' flag, it could also generate wrong statistics.

To check if the problem exists on the current Ingres installation, run the following query:

```
select table_name, has_unique from iistats where table_name = '<table name here>';
```

If the problem occurs, the above query will show 'has_unique' has a value of 'Y', though the affected table contains duplicated data.

The fix to this problem requires statistics to be re-generated on affected tables.

Bug 139406 II-8926 (VMS)

The DBMS server may hang. PSTACK trace show that the ast_thread is stalled waiting for IO AST to complete.

Bug 139411 II-8937 (GENERIC)

Following alterdb actions can cause a hang: -readonly/readwrite, -allow_ddl/noallow_ddl, -remove_x100, -i[ucollation_name], -n[ucollation_name]

The Deadlock occurs between AlterDB and Recovery server. AlterDB holds the Config lock and Recovery server is waiting for alterdb to free the config lock. But AlterDB suspends itself for log writing and waits for Recovery server to wake it up.

Bug 139419 II-8941 (GENERIC)

aes_decrypt() returns the value of the previous row if the current row was not encrypted.

Bug 139432 II-8956 (GENERIC)

Concurrent sessions executing the same database procedure may fail with E_RD0125_EXCEPTION. The errlog.log shows a SIGSEGV in rdu_malloc(), rdf_mshl_alloc(), uld_unmarshal(), rdu_rtree(), rdu_procedure(), rdf_getinfo()....

Bug 139433 II-8638 (VMS, CLUSTER)

During shutdown the Recovery server generates a stack dump. The stack dump contains references to SCE_EDISCONNECT and IICSMTR_SEMAPHORE.

Bug 139434 II-8920 (GENERIC)

Histogram data may not be correctly applied with queries involving joins with three or more table references potentially leading to poor cardinality estimates being used.

Bug 139440 II-8959 (ATTENTION,GENERIC)

ckpdb with -d and -keep=n options should fail with an error as these two options are mutually exclusive. Instead the command ignores the -keep and deletes all previous checkpoints

Bug 139469 II-8994 (GENERIC)

SigSegv on INSERT INTO global temporary table. "iibdms" received signal SIGFPE, Arithmetic exception.

The Error occurs when INSERT INTO table with SELECT statement having group by clause on host variables (parameter constants)

Bug 139474 II-8999 (GENERIC)

Server returns wrong result for a query that uses Window Functions against a CTE or derived tables.

Bug 139477 II-9017 (GENERIC)

E_VW1027 error with X100 UNION query involving REUSE

Bug 139487 II-9028 (GENERIC)

Rollback of open transaction during table level rollforward with relocate, observed intermittently

Bug 139490 II-9032 (GENERIC)

verifydb adds journalling entries even in REPORT mode.

Bug 139493 II-9036 (GENERIC)

With configuration parameter 'opf_literal_transitive' being set to ON, a query may take longer time to run.

Bug 139501 II-9045 (GENERIC)

ALTER TABLE ... DROP COLUMN ... gives E_US16D5 if dependent view contains a derived table, common table expression or table procedure.

Bug 139509 II-9053 (ENHANCEMENT)

Add support for the ipv4, ipv6 and uuid datatype to QBF utilities. A default display format for ipv4, ipv6, and uuid is c15, c39, and c36 respectively. A maximum of 15, 39, 36 character is required to apply inserts and/or updates as valid values in ipv4, ipv6, and uuid.

Bug 139515 II-9059 (GENERIC)

Opening connections to DB or files beyond the configured Soft limit on file descriptors may lead to failure of the operation with error message like the following:

```
/****** ERROR MESSAGE START *****/ ERlookup: Error accessing message text:
```

Error opening message file.

Check II_MSGDIR and II_LANGUAGE logical variables.

Check messages files in the installation.

```
Ingres ERROR: 9961473 /****** ERROR MESSAGE END *****/
```

Bug 139516 II-9060 (GENERIC)

A query that contains a WITH Common Table Expression could fail with E_VW1027 Rewriter error.

Bug 139520 II-9064 (UNIX)

The rollforward command fails with below error in errlog.log and making the database inconsistent.

E_CL030F_CK_COMMAND_ERROR The operating system command used to perform the database checkpoint returned an error of 71201. The command was '/bin/echo beginning restore of journals'. system() failed with operating system error 0 (Error 0) E_DM0100_DB_INCONSISTENT Database is inconsistent.

\$II_SYSTEM/ingres/sig/errhelp/errhelp shows that 71201 maps to this error: PC_WT_NONE PCwait: no children of this process are currently alive

Bug 139531 II-9074 (GENERIC)

Decimal calculation may have wrong output in case scale is at max.

Bug 139545 II-9080 (GENERIC)

'createdb' gives error if '-h' option is used. Usage output is missing '-no_x100' and '-h' options.

Bug 139547 II-9084 (GENERIC)

When calling an existing UDF after the language that is used by the UDF has been disabled a query fails with E_SC0206 and E_VW1016. This error should be handled cleanly.

Bug 139551 II-9091 (GENERIC)

Cross-table updates involving X100 tables can fail with E_OP0482 if the `ambig_replace_64compat` configuration parameter is ON.

Bug 139552 II-9092 (GENERIC)

Query returns wrong results when containing nested views where inequality restrictions are applied to the GROUP BY columns.

Bug 139562 II-9103 (GENERIC)

Inserting `TIMESTAMP('NOW')` into a timestamp field with `INGRESDATA DATE_ALIAS` does not respect the precision of the target field, and so can insert values with too much precision. Typically seen when later comparisons of such values do not behave as expected.

Bug 139564 II-9105 (GENERIC)

On 32-bit OS, the server could cause Segmentation Violation during 'select' operation using UDF functions.

Bug 139567 II-9109 (GENERIC)

Query with inner joins and local predicates in the ON clause gives E_SC0206 and `errlog.log` shows E_PS000E "Logic error"

Bug 139589 II-9128 (GENERIC)

A select query could fail with E_OP0082 error. Error log shows an E_OP0901_UNKNOWN_EXCEPTION happened, and the function name on the top of the stack printed in `errlog.log` is `opn_eqtamp()`.

Bug 139606 II-9152 (GENERIC)

`sysmod`: Error message does not explicitly specify whether `pagesize` value is wrong or `pagesize` is not enabled. Incorrect error message in case of space between `"-page_size"` and `"="`. In case of wrong flag used, usage message was not displayed.

Bug 139612 II-9160 (GENERIC)

The query text for the first statement in a terminal monitor session is incorrectly prepended with a leading space.

Bug 139623 II-9169 (GENERIC)

'replace' function typecasted to `varchar/char`, is failing with 'syntax error on 'replace'' for `esqlc` compilation.

Bug 139625 II-9170 (GENERIC)

A query that does a cross table update with a view runs slow due to the view is being materialized.

Bug 139629 II-9174 (GENERIC)

A query that contains a CASE statement may fail with E_OP0082 error.

Bug 139633 II-9177 (GENERIC)

SIGSEGV occurs when autostats is on. Stack shows rdu_statistics(), rdf_getinfo().

Bug 139634 II-9178 (GENERIC)

isdst() gives wrong result when timestamp is passed with timezone.

Bug 139638 II-9181 (GENERIC)

Segmentation Fault encountered in RDF with error E_RD0125_EXCEPTION for queries that undergoes flattening.

Bug 139643 II-9186 (GENERIC)

Support untyped NULL values in certain scenarios.

Bug 139649 II-9192 (GENERIC)

createdb : '-page_size' option without configuring corresponding pagesize, generates error message however database creation is also successful.

Bug 139654 II-9197 (X100)

A query that has a mixture of distinct and non-distinct aggregate fails with E_OP08C1 Consistency check error.

Bug 139667 II-9212 (GENERIC)

A query may fail with E_DM0138 error.

Bug 139676 II-9221 (GENERIC)

Incorrect Results When Column Contains NULLs and gets handled with a CASE expression.

Bug 139679 II-9162 (GENERIC)

Consistency Check error whilst running Upgradedb. E_RD0146_ILLEGAL_TREEVSN Consistency check - invalid tree version.

Upgradedb may fail with one or more of the following errors: 1.E_US0014 Database not available at this time, while executing unloaddb commands. 2.Warning: UPGRADEDB number of 'stub' procedures has increased, before -1, after 808464432 3.E_US173F The SET [NO]JOURNALING command is not allowed in distributed INGRES.

Bug 139682 II-9225 (ATTENTION, GENERIC)

If the procedure is created with date_alias ingresdate and it uses date() function, execute procedure fails with error "E_OP0791 and E_AD2005" if recompiled in a new session using ansidate date_alias.

Bug 139714 II-9246 (UNIX)

Opening a session with an 'inconsistent' database that has checkpoint created, causes SIGBUS on byte-aligned platforms.

Bug 139719 II-9252 (GENERIC)

DBMS server crashes while inserting additional rows in to the table after a bulk-copy of around 48 million rows.

Bug 139729 II-9257 (GENERIC)

For UTF8 installation, aes_decrypt_iv() is not working for NCHAR type

Bug 139736 II-9263 (GENERIC, WINDOWS)

Ingsetenv exits abruptly when run in an environment in which II_SYSTEM points to a folder with a very long name.

Bug 139739 II-9266 (GENERIC)

An inner join query may take longer time to run to completion. QEP shows the usage of an aggregate temporary table, though the query does not contain any aggregate functions.

Bug 139754 II-9280 (GENERIC)

Doing "alterdb -readonly" to a database which was created with "createdb ... -d<location> ..." results in connections to that database getting: "E_DM012A The database configuration file was not found"

Bug 139755 II-9281 (GENERIC)

Query fails with E_OP009D Internal optimizer error: logic error.

Bug 139764 II-9292 (GENERIC)

Join on "boolean column = IF statement" returns "E_OP039F consistency check"

Bug 139770 II-9300 (WINDOWS)

With configuration parameter 'opf_autostats' being set to ON, on a database that does not have table statistics, a query that has many columns in its select list may cause server crashes with error E_DMA499.

Bug 139776 II-9307 (GENERIC)

On a system with default journaling OFF a Create table statement results in a table with journaling set to ON.

This happens if the create table follows an insert statement containing a "group by" clause along with the use of an aggregate function in the "having" clause.

Bug 139783 II-9314 (GENERIC)

Large query with complex, case qualified aggregation replication over several unions, fails with E_OP0202 query too complicated

Bug 139786 II-9318 (GENERIC)

aes_encrypt_iv()/aes_encrypt()/aes_decrypt_iv()/aes_decrypt() returning NULL incase 'passphrase' is NULL

Bug 139795 II-9328 (ATTENTION, ODBC)

PowerBI cannot access tables with mixedcase if DB_NAME_CASE is set as LOWER and DB_DELIMITED_CASE is set as MIXED. Default behaviour of odbc driver - converting catalog object name case based on DB_NAME_CASE & DB_DELIMITED_CASE is disabled. This can be enabled by passing new driver option METADATA_FORCE_CASE=Y as connection string.

Bug 139798 II-9330 (GENERIC)

A fairly complex query with a number of MAX(CASE) and SUM(CASE) aggregations in a SUBSELECT joining a number of tables and views together and a long WHERE clause with AND/OR returns incorrect results.

Bug 139799 II-9331 (GENERIC)

E_SC0024_INTERNAL_ERROR in Sequencer and QSO object error while Upgrading Star Database. which further leads to E_QS000F_BAD_HANDLE and E_SC0210_SCS_SQNCR_ERROR

The issue has been also observed with register table queries on Star database.

Bug 139801 II-9334 (LINUX)

The csh environment script on Linux fails with "Invalid null command."

Bug 139805 II-9338 (WINDOWS)

Support zlib 1.2.12.

Bug 139806 II-9339 (GENERIC)

ON clause with CASE expression like COALESCE may give consistency check error.

Bug 139807 II-9340 (GENERIC)

DBMS server prints only addresses of function stack not the corresponding names in the log file when a crash occurs.

Bug 139808 II-9341 (GENERIC)

CREATE TABLE MYTAB AS SELECT VARCHAR(NULL); creates a table with a column that has an invalid length specification. This may later lead to E_AD2008 errors when accessing the column.

Bug 139816 II-9349 (GENERIC)

json_object() with more than 6 key-value pair parameters causes Segmentation Violation.

Bug 139823 II-9356 (GENERIC)

Using a PREPARED query with EXIST and NOT EXIST subselects can result in 'E_OP0889_EQ_NOT_HERE Eqc is not available'.

Bug 139826 II-9359 (GENERIC)

Using a PREPARED query with EXIST and NOT EXIST subselects can result in 'E_AD2009_NOCOERCION No coercion is available for datatypes given;.

Bug 139833 II-9368 (GENERIC)

E_VW1027 Rewriter error. Reported when running queries that make use of the NULL constant.

Bug 139842 II-9377 (AIX)

When running install.sh on AIX, can get error message: fmt: bad width: 0 when displaying the usage.

Bug 139849 II-9381 (GENERIC)

Using a PREPARED query with EXIST and NOT EXIST subselects can result in 'E_OP08A2_EXCEPTION Unexpected exception occurred within query compilation'

Bug 139852 II-9384 (GENERIC, VECTOR)

NVARCHAR, and VARCHAR gives wrong result in x100 tables with INSERT INTO... FROM SELECT when string_truncation is set to 'ignore'.

Bug 139858 II-9388 (GENERIC)

Wrong result from query that groups by on scalar string function.

Bug 139859 II-9389 (GENERIC)

'mm-dd-yyyy' is supported for FINLAND/SWEDEN and YMD date_format

Bug 139864 II-9394 (GENERIC)

IIMONITOR: When an invalid session id is used with the "remove" command the DBMS may SIGSEGV in scs_is_user_scb() and cause iimonitor to exit.

Bug 139869 II-9399 (LINUX)

Remove all dependencies around mgmtsvr in OCF-cluster script and make it dependent on the values given in config.dat

Bug 139873 II-9387 (ENHANCEMENT)

Add support for lengthb() which is a compatibility alias for the existing octet_length() function.

Bug 139874 II-9402 (GENERIC)

I_SC051E_IIMONITOR_CMD messages incorrectly reports the previous query text instead of the current query text if the previous query failed (for example if an invalid session ID was used).

Bug 139891 II-9416 (GENERIC)

Cannot create DBP with an Insert/Update into timestamp column with ANSIDATE DATE_ALIAS active.

Bug 139894 II-9419 (GENERIC)

Wrong result when using windows function count() in an outer join.

Bug 139896 II-9424 (GENERIC)

Session with readlock=nolock can take unexpected locks for select on a table with constraints when using prepared queries and after issuing an update on that table earlier in the session.

Bug 139899 II-9426 (GENERIC)

Query that references a Commn Table Expression that has an empty from-list fails with E_VW1027/E_OP0889.

Bug 139900 II-9427 (GENERIC)

set date_alias - - value without quotes followed by ';' gives error message.

Bug 139906 II-9436 (GENERIC)

update from .. select fails with E_OP04AF and E_OP08A2, subquery with group by and correlated having clause involved.

Bug 139907 II-9437 (GENERIC)

set date_alias - - date_alias is not taking NONE as valid value. - Same error message is displayed twice in case of invalid value. - Error message is not showing NONE as valid value

Bug 139911 II-9447 (GENERIC)

Trace point sc925 does not catch cursor Fetch which is running a long time.

Bug 139912 II-9432 (HP-UX)

Installation script report two errors , "authmech: parameter null or not set" error and "test command parameter is not valid" error, while installing on HP Itanium.

Bug 139914 II-9450 (GENERIC)

dbmsinfo('date_type_alias') - Does not display session specific value.

Bug 139919 II-9459 (GENERIC)

Using "COUNT(1) DESC" within ROW_NUMBER window ignores DESC and returns the columns ASC.

Bug 139928 II-9466 (WINDOWS)

The Visual Manager icon on the taskbar does not show the Exit option.

Bug 139937 II-9473 (UNIX)

Upgrading to Ingres 11.2.0 on Unix fails with:

```
./install.sh[48]: stat: not found. /usr/lib/hpux64/dld.so: Unable to find library 'libcompat.1.sl'.  
./install.sh[103]: 14024 Killed /usr/lib/hpux64/dld.so: Unable to find library 'libcompat.1.sl'.
```

Bug 139942 II-9480 (WINDOWS)

iisuitz.bat -update fails with C:\No CSI structure available

Bug 139946 II-9449 (GENERIC)

With config parameter 'ambig_replace_64compat' being set to ON, in a cross table update query, a view that contains ifnull() in its select list is being materialized instead of being flattened

Bug 139948 II-9490 (GENERIC)

PREPARE statement fails with internal errors causing unexpected results if the placeholder is used as column expression within subquery E_SC0206, E_PS0C03, E_PS0002, E_SC0215, E_SC0220

Bug 139954 II-9499 (GENERIC)

VWLoad fails with assertion and core dumps.

Bug 139956 II-9502 (GENERIC)

There is no option to enable/disable Spark Provider in CBF.

Bug 139959 II-9514 (AIX)

DBMS server hangs with E_RD0107 for grant query.

Bug 139960 II-9517 (GENERIC)

The RCP log file can fill with 'License returned' messages.

Bug 139965 II-9520 (GENERIC)

A correlated NOT EXISTS WHERE clause can produce wrong results when the correlation includes the inner side of a LEFT OUTER JOIN.

Bug 139970 II-9364 (GENERIC)

E_US18FE failed connection does not reveal host, user and database name.

Bug 139973 II-9529 (GENERIC)

HELP PROCEDURE may fail with "E_US0B5A line 1, There is no such function as 'ii_fn_unmangle'". This occurs when a client that supports UDFs is connected to an older database that does not support UDFs.

Bug 139980 II-9540 (GENERIC)

SELECT query in PreparedStatement causes E_PS0002_INTERNAL_ERROR.

Bug 139998 II-9546 (GENERIC)

'iisynonym' table is not cleaned properly when 'alter table' is called and table having a view on which synonym is created. Due to this, synonym with same name can not be created further.

Bug 140015 II-9595 (GENERIC)

E_OP0783_ADI_FICOERCE consistency check with complex query involving a union view with predicate restrictions that applied to more than one derived table.

Bug 140023 II-9600 (GENERIC)

errhelp output contains numerous spelling mistakes and typos

Bug 140028 II-9607 (X100)

An outer join query on x100 tables returns wrong result. QEP contains an outer join hash join node, and the hash join type in such node is not HashJoin01 or HashJoinN type.

Bug 140029 II-9608 (GENERIC)

'cilicchk -Q' can SIGSEGV if the license file does not contain a valid license for the host.

Bug 140035 II-9563 (GENERIC)

X100 server fails to start with E_VW1099 error

Bug 140038 II-9619 (ODBC)

Cursor type set improperly if SQLSetStmtAttr is used to set cursor. This results in rows of table not being returned.

Bug 140059 II-9630 (UNIX)

With glibc versions(>= 2.25), DBMS server hangs when archiver process is killed.

Bug 140060 II-9633 (LINUX)

During an interactive installation the spark set up output is written to install.log twice.

Bug 140066 II-9639 (GENERIC)

Updating the current row of a cursor will abort if any of the columns being updated are part of an Integrity constraint.

Bug 140067 II-9640 (GENERIC)

Invalid/wrong date value returned for least-function on data columns, if a date column was all NULLs

Bug 140072 II-9645 (GENERIC)

Clonedb fails with E_DM1011_JSP_DB_NOTFOUND and other errors when executed in the target installation

Bug 140080 II-9651 (GENERIC,VECTORWISE)

ISO Ingres sends padding characters to x100 when inserting non-ASCII strings into char(n) column

Bug 140115 II-9441 (DIRECTOR)

Update JAR files in view of security vulnerabilities

Bug 140143 II-9742 (GENERIC)

"HELP ." fails with E_SC0206 instead of the expected error: No tables were found that matched '.'

Bug 140149 II-9748 (GENERIC)

SELECT DBMSINFO('MAXIDLE') fails with "E_LQ003A Cannot start up 'select' query. Unexpected initial protocol response".

Bug 140160 II-9761 (ATTENTION, GENERIC)

AUDITDB may generate non-printing characters when dumping byte column data. AUDITDB will now hex dump all byte column data in the format: X'hex_data', for example X'01020F'.

Bug 140166 II-9766 (GENERIC)

Upgradedb reports E_US18A7 error when recreating system generated rules when a user table contains "after" in its name.

Bug 140172 II-9771 (GENERIC)

Possible SEGV and other errors when using an update cursor.

Bug 140185 II-9783 (GENERIC)

Upgradedb reports E_SC0206 or E_RD0146 while upgrading database has view with check option.

Bug 140187 II-9785 (X100)

A NEXTVAL in INSERT ... SELECT fails with "E_OP0681 consistency check" when an X100 table is in the SELECT. This should fail with "E_US2504 Sequence operations are not permitted in SELECT statements on X100 tables."

Bug 140195 II-9767 (GENERIC)

abf application can SEGV due to a memory leak

Bug 140218 II-9823 (GENERIC)

upgradedb throws error E_US0845, while create procedure using synonym.

Bug 140219 II-9824 (GENERIC)

Update statement referencing non-existent column gives E_SC0206 rather than a more useful error message

Bug 140223 II-9826 (GENERIC)

'CREATE TABLE IF NOT EXISTS' fails with E_US13EE when a table (or other db object if applicable) exists with the same name.

Bug 140226 II-9829 (GENERIC)

Fix copy vwload by showing additional info in the error messages.

Bug 140228 II-9831 (GENERIC)

In CBF, setting psf_memory to more than 2 GB fails to start server with error, E_PS0704_INSF_MEM.

Bug 140229 II-9832 (GENERIC)

"DROP PROCEDURE IF EXISTS a, b" gives misleading error: E_US0A00 line 1, If a table reference is used to qualify a SET column, it must refer to the update table. This SET clause uses ',' which is a reference to a table in the FROM clause.

Bug 140244 II-9848 (GENERIC)

Transaction UNDO fails with E_DM968E/E_DM968F for a table with compressed btree secondary index and the DBMS server crashes.

Bug 140248 II-9852 (GENERIC)

Ingres first-N query may exhaust available disk space and fail with E_US120D.

Bug 140252 II-9854 (GENERIC)

CREATEDB may spuriously fail with E_DM00A0 Could not open a database because collation sequence not installed.

Bug 140260 II-9864 (WINDOWS)

Name Server becomes unresponsive when a bad client connects to the Name Server listen port (named pipe).

Bug 140261 II-9865 (GENERIC)

A query that has a window function with named over clause fails with E_US2548.

Bug 140267 II-119 (ODBC)

No data is displayed for tables in LibreOffice "Base" facility when a table is selected, even if the table has a unique key.

Bug 140271 II-9878 (GENERIC)

If II_CKTMPL_FILE variable is defined, the ckpdb process opens multiple shells which need to be exited manually.

Bug 140279 II-9884 (GENERIC)

Disallowing commit/rollback within a FOR SELECT loop breaks existing applications

Bug 140288 II-9836 (GENERIC)

Query output suppressed in sql tm caused by use of comment in query.

Bug 140319 II-9923 (ATTENTION, GENERIC)

Updating a 2D Geospatial column which has a RTREE secondary index may fail with 'E_US120E An error occurred while updating a record.'. The errlog contains additional messages 'E_DM9385_NO_INDEX_TUPLE', 'E_DM9386_SEC_INDEX_ERROR',

'E_DM9387_INDEX_UPDATE_ERROR', 'E_DM008C_ERROR_REPLACING_RECORD' and 'E_QE007E_ERROR_REPLACING_RECORD'.

Existing RTREE indices on 2D Geospatial columns must be recreated.

Bug 140335 II-9937 (ODBC, LINUX)

ODBC program connecting with SQLDriverConnect() may crash with SIGSEGV when using an improper connection URL.

Bug 140338 II-9940 (GENERIC)

An insert statement that triggers a before rule and invokes a database procedure causes dbms process loops and consumes high cpu usage until TX log has been filled up. The affected transaction will then be rollback.

Bug 140342 II-9946 (GENERIC)

psf_memory in config.dat set to more than 2 GB, the "set trace point ps203" shows negative values for "Max no.of bytes" and "allocation bytes"

Bug 140343 II-9949 (GENERIC)

Consistency check error E_OP0681 when accessing view or procedure with bracketed OR clauses in factorizable WHERE clause

Bug 140351 II-9957 (WINDOWS)

GCN exits abruptly using TCP_IP for local I/O and referencing an inactive port.

Bug 140373 II-9976 (WINDOWS, X100)

An 'insert into external csv ...' statement fails with 'E_VW1208 Failed writing to file ...' when the II_TEMPORARY symbol is not defined.

Bug 140375 II-9978 (UNIX,LINUX)

The install.sh install script does not permit using a lower case installation id for the installation.

Bug 140378 (ODBC, UNIX)

ODBC program connecting with SQLDriverConnect() may crash with SIGSEGV when missing the value of a connection string attribute in the connection string and using the Ingres/Vector ODBC Driver manager (aka CLI). The Windows and UnixODBC driver managers do not have this problem.

Bug 140391 II-9970 (GENERIC)

Memory exhausted error while trying to load more than 4986 files via VWLoad in cluster mode.

Bug 140396 II-9992 (GENERIC)

Duplicate inserted in Primary key column when data uploaded via Copy VWLoad.

Bug 140397 II-9994 (GENERIC)

"E_US1194 Duplicate key on INSERT detected" occurs when INSERTing one row from a DGTT into an empty table with a BEFORE INSERT rule defined.

Bug 140406 II-10002 (GENERIC)

Users may see E_CL2514, E_QS001E, E_QS0014, segmentation violation using update cursors.

Bug 140408 II-10005 (GENERIC)

"Error message not found in INGRES error file" when using invalid syntax for the SIGNAL and/or RESIGNAL statements.

Bug 140409 II-10006 (VMS)

Iana timezone files may not be download completely leading to ZIC compilation errors and/or missing Timezone files.

Bug 140410 II-10008 (GENERIC)

A subselect query may cause wrong result to be returned. In the case of INSERT statement, wrong data may get inserted into the table.

Bug 140413 II-10011 (UNIX)

iisuitz fails to pick-up a local setting of II_TEMPORARY which may be required if the system II_TEMPORARY does not have execute and write permissions.

Bug 140425 II-10028 (GENERIC)

Equivalent date/time values in column type 'TIMESTAMP with TIMEZONE' are not grouped together. Equivalent date/time values in column type 'TIME with TIMEZONE' are not grouped together.

Bug 140426 II-10030 (GENERIC)

DB procedure when executed from Java executes as a Table Procedure

Bug 140436 II-10038 (WINDOWS)

Action Visual DBA exits abruptly when trying to connect to the local server.

Bug 140450 II-5769 (GENERIC)

An unquoted timestamp used as a default value in a CREATE TABLE results in an internal error E_SC0206 instead of a user error.

Bug 140452 II-10012 (GENERIC)

Correlated subquery containing IFNULL() gives wrong results

Bug 140465 II-10068 (ATTENTION, GENERIC)

Blanks are padded while implicit/explicit casting from nchar to nvarchar. With this fix, no padding done while nchar->nvarchar. To get legacy behavior, set "ON" to config parameter - "to_nvarchar_padding". This parameter can be added by 'iinitres to_nvarchar_padding'.

Bug 140479 II-9851 (GENERIC)

RELOCATEDB fails and leaves the database in a corrupted state when LOCATIONS that have long path names are used. Errors include RELOCATEDB Warnings that show that files have not been copied followed by E_DM1501_RELOC_CP_FI_ERR and E_DM150B_RELOC_CP_FI_ERR. When paths exceed the internal limit RELOCATEDB should fail cleanly and leave the database in a usable state.

Bug 140489 II-10087 (GENERIC)

An insert query that has a group by clause appends more rows than expected into the target table. In the case where the affected tables have many rows, the query may either take longer time to run or may fail with disk full error.

Bug 140491 II-10090 (GENERIC)

A query that has an aggregate subselect under an OR clause takes longer time to run.

Bug 140493 II-10091 (GENERIC)

With II_DECIMAL set to comma, "create or replace procedure" fails with "E_US0A1B line 1, Syntax error on '5,2'" if there is a variable definition with type decimal(5,2). The same procedure body works for a CREATE PROCEDURE statement.

Bug 140515 II-10119 (GENERIC)

Add X100_ERR_POST_COMMIT if error occurs after successful commit.

Bug 140538 II-10141 (ATTENTION,GENERIC)

Statistics generated on CHAR class column with length greater than 8 does not represent the data characteristics well, and may make the optimizer produce sub-optimal query plan.

Existing statistics on affected columns needs to be deleted and re-generated in order to apply the fix.

Bug 140551 II-10145 (GENERIC)

Outer join query returns wrong result.

Bug 140557 II-10151 (GENERIC)

Query may incorrectly return duplicated/more rows.

Bug 140578 II-10171 (GENERIC)

SET ROLE does not apply DATABASE [NO]READONLY settings to the session.

Bug 140580 II-10174 (GENERIC)

Outer join query returns less rows than expected.

Bug 140591 II-10180 (GENERIC)

NOT IN subquery gives worse performance with b137372 fix

Bug 140594 II-10038 (GENERIC)

Utilities that load security mechanisms may crash unexpectedly due to a memory corruption. Failing stacks typically include the gcs_mech_load() function.

Bug 140604 II-10190 (GENERIC)

Null_to_nonnull builtin exception name should include X100 error codes.

Bug 140609 II-10195 (GENERIC)

An unresolved GOTO label can crash the session with E_SC0206.

Bug 140610 II-10197 (GENERIC)

Query that contains an ifnull() and other aggregates may take longer time to run.

Bug 140627 II-10202 (GENERIC)

A query to select rows in random order (e.g. 'SELECT ... ORDER BY RANDOM()') does not returns rows in a random order.

Bug 140632 II-10205 (GENERIC)

E_OP039F consistency check - all elements of boolean factor do not have same join id when joining a table but not projecting anything from it

Bug 140651 II-10215 (GENERIC)

E_OP04B4 consistency check error when not projecting from all tables

Bug 140665 II-9833 (UNIX,WINDOWS)

ingstop options used are not logged to errlog.log

Bug 140674 II-10263 (ATTENTION, UNIX)

'create or replace procedure' fails silently causing S_DU164E_DUPLICATE_TREE_SEQ in verifydb or executing the procedure leads to a SEGV with errors E_RD0146_ILLEGAL_TREEVSN, E_RD0125_EXCEPTION, E_RD0107_QT_SEQUENCE.

If you have already seen these symptoms you need to run the following command after installing this patch: `upgradedb dbname -tree`

Bug 140676 II-10264 (GENERIC)

UPGRADEDDB causes REFERENTIAL CONSTRAINTs to be lost when the associated owners have delimited names.

Bug 140677 II-10265 (GENERIC)

The DBMS reports a SIGSEGV is `ade_execute_cx()`, `qen_execute_cx()` . . . when running a REPEAT query containing OR conditions in the WHERE clause.

Bug 140678 II-10266 (ATTENTION,GENERIC)

SIGSEGV occurs running an executable in current instance that was statically linked with prior release.

Executables statically linked may need to be relinked.

Bug 140683 II-10271 (GENERIC)

SEGV when doing a modify on a table with a Rtree index(Persistent) In some instance it fails for E_US1203 A bad attribute name was specified.

Bug 140684 II-10272 (GENERIC)

Repeated X100 query runtime errors in a database procedure can be mis-handled, leading to long delays followed by E_VW1036 Database is temporarily unavailable.

Bug 140696 II-9993 (GENERIC)

Number of allowed connections are one less/more than the actual allowed value.

Bug 140702 II-10281 (GENERIC)

ESQLC: EXEC SQL EXECUTE PROCEDURE returns success (`sqlca.sqlcode == 0`) even if the procedure fails. This occurs when BYREF parameters are used in the EXECUTE PROCEDURE statement.

Bug 140704 II-10273 (GENERIC)

`createdb -h` gives spurious "Creation of database abnormally terminated" error, and does not specify locationname which should accompany "-r" option

Bug 140716 II-10296 (ATTENTION,GENERIC)

Warnings generated during execution of large, nested DB procedures can be lost, or can cause an infinite loop, if they occur prior to first call of one of the nested DBP's. In the query hang/loop case, stack shows qeq_cleanup/qeq_query and the looping cannot be interrupted short of ingstop -f -k.

Attention: installations or programs running with math exceptions or string truncation set to WARN may see additional warnings from database procedures, whether rule-fired or user invoked. These warnings are correct, and were being lost prior to this fix.

Bug 140723 II-10299 (DIRECTOR,IIMGMTSVR)

protobuf-java.jar 2.5.0 has high vulnerability risk

Bug 140735 II-10318 (IIMGMTSVR)

Server continues to run without reporting error if RemoteCommand server socket fails to bind

Bug 140747 II-10336 (GENERIC)

E_DM966C errors have been seen where no data corruption has occurred. NULL byte indicators were filled by different values, while the NULL setting was not affected.

Bug 140749 II-10297 (GENERIC)

Support OpenSSL version 1.1.1n to fix CVE-2022-077.

Bug 140755 II-10346 (GENERIC)

upgradedb throws false warning messages on re-creating rules. Warning: UPGRADEDB 29 Rules, 27 recreated

Bug 140760 II-10351 (GENERIC)

During concurrent sessions perform the same procedure following error can occur: E_PS0004 SIGSEGV at stack psq_recreate

Bug 140767 II-10365 (UNIX)

inglogs may fail to collect vectorwise log files.

Bug 140768 II-10367 (UNIX,WINDOWS)

Add IngresSync to the distribution.

Bug 140793 II-10412 (GENERIC)

"E_OP039F consistency check - all elements of boolean factor do not have same join id" seen on query with aggregate over a CASE statement

Bug 140801 II-10425 (GENERIC)

JARO_WINKLER() in where clause with strings longer than 60 chars might cause SEGV in dbms server and return error E_SC0206.

Bug 140803 II-10428 (GENERIC)

X100 aggregate query fails with E_VW1027 error.

Bug 140816 II-10444 (GENERIC)

Outer join query having a CASE statement that selects from a WITH table fails with E_OP0685.

Bug 140835 II-10306 (GENERIC)

Internal error displayed when an invalid character set is provided to Copy VWLoad.

Bug 140836 II-10466 (GENERIC)

The Patch level of the DBMS server can now be obtained using select DBMSINFO('_patch')

Bug 140858 II-10488 (GENERIC)

Wrong result from a query that has a CASE statement that compares with nullable data fetched from table.

Bug 140868 II-10496 (GENERIC)

'ENDLOOP' does not work correctly under nested 'FOR SELECT' where last 'FOR SELECT' is on VIEW created with JOIN/WHERE.

Bug 140869 II-10497 (GENERIC)

VWLoad fails with assertion and core dumps after dropping and adding a column in a table.

Bug 140871 II-10500 (GENERIC)

The DBMS reports spurious PSF, RDF and/or ULM errors when one or more sessions is creating and/or recreating database procedures. With ulm_pad_bytes set to an odd number the DBMS will report a SEGV in uld_marshall().

Bug 140878 II-10508 (GENERIC)

SELECT ... WHERE CASE ... ELSE ... IN (<list of constants>) gives incorrect results

Bug 140880 II-10510 (ATTENTION, GENERIC)

Runaway DB procedures may not be stoppable with control-C or removable with REMOVE SESSION in ipm/iimonitor. In addition, DB procedures that generate excessive numbers of errors can crash the DBMS

server with out-of-memory errors.

Attention: An installation using very complex DB procedure systems that may legitimately generate more than 1000 errors before returning to the user, should consider using the new DBMS parameter `scf_queued_error_max`. This is the maximum number of errors that can be queued before the top level DBP returns to the user. If exceeded, procedure execution is terminated and control returns to the user / client application.

Bug 140892 II-10522 (GENERIC)

The `upgradedb` command doesn't create the `iiexternal` catalog table. Therefore a `CREATE EXTERNAL TABLE` statement fails with the error `E_US0091_NONEXISTENT_CATALOG`.

Bug 140901 II-10533 (GENERIC)

`SIG_SEGV` in `qeahaggf` for query with hash func aggregate in `qep` which shows aggregate expression of `count(*)`

Bug 140911 II-10543 (GENERIC)

Expected parser errors are not sent to the front end process. This problem is usually seen when the problem statement follows a statement that hit a user exception such as an integer overflow.

Bug 140929 II-10566 (GENERIC)

reload script for a database created with option `-fnofeclients` fails

Bug 140932 II-10570 (GENERIC)

The `character_length(long nvarchar)` function can fail or produce warning messages due to an incorrect string truncation.

Bug 140935 II-10573 (GENERIC)

Server returns wrong result for an union query that has an outer join in one of its sub-query.

Bug 140938 II-10576 (ACTIANX)

A running installation will stall if the `license.xml` file being used is updated so that it does not contain a license for the same product that was being used.

Restarting ActianX, the new licenses in the `license.xml` will be accepted.

Bug 140947 II-10586 (GENERIC)

Server returns wrong result for a query that joins on a table that is keyed on boolean type column(s).

Bug 140948 II-10587 (LINUX)

The `systemd` service fails to start on SELinux systems.

Bug 140956 II-10596 (WINDOWS)

The Visual Database Administrator program crashes on start up in ucrtbase.dll when started without Administrator privileges.

Bug 140965 II-10568 (GENERIC,VECTOR)

Call Vectorwise(terminate) doesn't always terminate an X100 server. The problem is most likely in a split-leader cluster environment, and when x100_delay_txn_start is ON.

Bug 140970 II-10625 (GENERIC)

ON_LOGFULL=COMMIT may spuriously abort transactions with E_DM010C_TRAN_ABORTED instead of committing transaction with E_DM00AC_LOGFULL_COMMIT.

Bug 140983 II-10644 (GENERIC)

Query runs for longer than needed when DISTINCT is applied on known-unique rows (e.g. because they include the primary key of the table being queried).

Bug 140992 II-10653 (GENERIC)

Error E_DM0077, E_DM9B09, and E_US1263 raised when all available temporary table IDs have been used. The DBMS needs to be restarted in order to be able to create further temporary tables including internal temporary tables.

Bug 141009 II-10667 (ATTENTION, GENERIC)

CREATE TABLE allows a default of 0 or '' to be specified for some types when this should be considered invalid as we cannot insert such a type cast to the target type of the column.

Note that previously some bad defaults have been permitted due to this behaviour, typically allowing the CREATE TABLE command to run, but then any attempt to use the default values gives a runtime error like "E_US10CE '0' is not a valid date/time value."

If you rerun a previously-working CREATE TABLE command after applying this fix, and now see an E_PS0499 error, you can correct the CREATE TABLE statement to specify a valid default value rather than the original invalid one.

Bug 141012 II-10671 (GENERIC)

Optimizer produces suboptimal plan for query that has predicate restrictions based on non-constant expression. For example: for "column >= ingresdate('today')", optimizer may not use the table index, but will use index for "column >= '01/01/2000'".

Bug 141021 II-10684 (UNIX,WINDOWS)

upgradedb creates the iiexternal table on configurations without X100 support

Bug 141030 II-10693 (ODBC)

ODBC Driver crashes if timeout set via SQLSetStmtAttr expires before query completion.

Bug 141045 II-10711 (GENERIC)

Unloaddb/copydb creates procedures with wrong syntax in the ROUTINE STUBS area for ROW producing database procedures.

Bug 141056 II-10725 (ODBC)

Format string "%p" & "%d" not replaced with process id and date, when set as part of filename to II_ODBC_LOG.

Bug 141057 II-10726 (GENERIC)

inlist query with more than opf_inlist_thresh entries gives wrong results when querying a BTree or ISAM table

Bug 141072 II-10739 (GENERIC)

The DBMS reports spurious OPF/ADF errors for a cross join select on a table procedure due to uninitialized memory access. With ulm_pad_bytes set to an odd number the DBMS will report E_OP0791_ADE_INSTRGEN.

Bug 141075 II-10742 (GENERIC)

SIGABRT and server crash when running JSON queries that fetch nested nonexistent keys

Bug 141080 II-10748 (GENERIC)

Query with ANDed predicates including at least two which compare a float column to an integer constant can error with E_QE007C or E_SC0026, with errlog containing E_AD3001_DTS_NOT_SAME in all cases.

Bug 141084 II-10753 (GENERIC)

COPYDB and UNLOADDB generates invalid syntax for EXTERNAL TABLEs when the -add_drop option is used. The query text for the CREATE EXTERNAL TABLE statements contain REMOVE TABLE statements inside the EXTERNAL TABLE definition.

Bug 141085 II-10754 (GENERIC)

Segmentation fault in qeq_query after a database procedure error

Bug 141102 II-10776 (GENERIC)

A DBP with parameters for first/offset in a SELECT and using ORDER BY against an X100 table erroneously uses a last parameter of 2 for the resulting TopN in X100 algebra and gives wrong results.

Bug 141111 II-10204 (ENHANCEMENT)

SET TRACE POINT SC916 has been enhanced to allow pool names to be supplied instead of the numeric pool ID. For example the RDF memory pool can be dumped using: SET TRACE POINT SC916 5 'rdf'

Bug 141112 II-10785 (GENERIC)

Handle '-0.0' in comparisons consistently with '0.0'.

Bug 141117 II-10790 (GENERIC)

E_VW1207 error messages mentions "Error committing transaction" but the error does not happen on commit, and does not prevent the current transaction from being committed.

Bug 141121 II-10795 (GENERIC)

The row number returned by Java's ResultSet.getRow() starts at row 2.

Bug 141130 II-10806 (ODBC, LINUX)

Ingres ODBC Driver Manager (cli) does not allowing multiple connections using SQLDriverConnect

Bug 141143 II-10854 (GENERIC)

If cardinality_check is being set to off by either running "set nocardinality_check" or by setting config.dat's parameter cardinality_check to off, then a query that has a derived table on its result column fails with error E_OP0491/E_OP0280. An example is: SELECT (SELECT ... FROM t1 x) FROM t2 y

Bug 141152 II-10864 (UNIX,LINUX)

The ingbuild installer does not have an option to install unloaddb and copydb separately from the DBMS.

Bug 141163 II-10872 (GENERIC)

The DBMS server leaks memory when using geospatial data types.

Bug 141182 II-10897 (GENERIC)

The DBMS reports a SIGSEGV in or under adu_destroy_geometry() and reports E_QE0002_INTERNAL_ERROR and E_SC0216_QEF_ERROR in the errlog.log.

Bug 141185 II-10899 (GENERIC)

OPTIMIZEDB leads to a SIGSEGV in the DBMS when server tracing is enabled. The SIGSEGV occurs in scu_qtrace_dataval(). The same exception may happen when tracing any query that has varbyte query parameters.

Bug 141197 II-10927 (WINDOWS)

Config.dat is missing opf_literal_transitive after upgrade from Actian X on Windows.

Bug 141202 II-10933 (GENERIC)

Increasing cursor_limit to 1000 results in failure to connect to database, with E_SC0107_BAD_SIZE_EXPAND in errlog.log

Bug 141203 II-10934 (GENERIC)

Increasing qsf_memory to 8gb shows overrun values when "set trace point qs501"
E_QS0500_INFO_REQ(QSF info request)#501: QSF memleft = -589940552 total memory = -589934592

Bug 141208 II-10945 (GENERIC)

Comments on views are lost when running upgradedb -tree.

Bug 141209 II-223 (GENERIC)

Fix quotes in SQL and QUEL macros.

Bug 141217 II-10963 (GENERIC)

Newlines in comments on tables/views/columns get lost when using sql tm.

Bug 141219 II-10966 (GENERIC)

Predicates IS FLOAT, IS INTEGER, and IS DECIMAL may return FALSE instead of NULL when the argument is NULL.

Bug 141224 II-10972 (GENERIC)

A DBP query with a parameter used for one of OFFSET or FETCH NEXT in a SELECT against X100, but not for the other (e.g. OFFSET is parameterised but FETCH NEXT uses a literal value, or vice versa) will give wrong results

Bug 141229 II-10979 (GENERIC)

subquery for ANY fails with E_AD1012 when correlating column is NULL in subquery but defined NOT NULL in outer query.

Bug 141231 II-10982 (ODBC)

Abrupt exit in ODBC Driver Manager (cli) when multiple threads (reproducible with 5 parallel thread) tries to connect.

Bug 141233 II-10986 (LINUX, ODBC)

Crash when multithreaded testcase executed with UnixODBC driver manager.

Bug 141250 II-11007 (GENERIC)

"createdb -h" command does not have "-encrypt" flag.

Bug 141256 II-11014 (GENERIC)

Sending email fails silently

Bug 141268 II-11018 (GENERIC)

Syntax errors are reported with no corresponding error message, or where the syntax suggestion does not match the command entered.

Bug 141270 II-11020 (ATTENTION, UNIX)

Upgradedb fails with "Unable to create subdirectory 'upgradedb' in II_FILES:upgrade" if run as a user other than the installation owner.

This patch contains a fix for new installations, to manually fix existing installations run as the installation owner: \$ upgradedb -tree iidbdb

Bug 141271 II-11021 (GENERIC)

REGISTER INDEX ... AS LINK FROM ... command gives E_SC0206

Bug 141274 II-11025 (GENERIC)

Error message updated for "drop function/procedure" when schema is invalid or no permission on schema

Bug 141280 II-11031 (GENERIC)

double count(*) query with outer join and correlated subquery gives wrong results

Bug 141284 II-10938 (GENERIC)

IPv6 address of the form 2001:0db8:3c4d:0015:0000:0000:1a2f:1a2b is incorrectly shortened to 2001:0db8:3c4d:0015:::1a2f:1a2b instead of 2001:0db8:3c4d:0015::1a2f:1a2b

Bug 141292 II-11042 (WINDOWS)

Multiple threads (reproducible with 3 threads) issuing connect in parallel fails to connect with error "GCA_REQUEST failed: unable to associate with server (786473)"

Bug 141296 (GENERIC)

'optimizedb' generates a set of corrupted statistics and causes: E_RD0106 consistency check - iistatistics tuple contains invalid cell count

Bug 141300 II-11053 (GENERIC)

Multi-threaded Java JDBC application to create table with long byte/BLOB/CLOB/varchar/nvarchar, leads to E_DM9045_TABLE_DEADLOCK.

Bug 141316 II-11081 (GENERIC)

Explicit casting to 'ingresdate' using the cast() function, i.e. cast(... as ingresdate) does not work if the used date_alias is ansidate. An ansidate is returned instead of an ingresdate.

Bug 141324 II-11090 (LINUX)

Sig utility imp fails with segmentation fault when statically linked with libingres.a and AES encryption is configured in the instance.

Bug 141330 II-11051 (UNIX)

Miscellaneous changes for inglogs: collect UDF logs, support for gdb-headless, finetune x100 query filter, make inglogs_gdb_stacks available (Linux only).

Bug 141331 II-11098 (GENERIC)

MEDIAN() usage against a non-X100 table gives a confusing error message about PERCENTILE_CONT() rather than MEDIAN()

Bug 141344 II-11113 (GENERIC)

Query fails with "E_VW1029 Error in operator tree".

Bug 141345 II-11114 (VMS)

The lana version TZDB-2022G fails to build on VMS due to missing "UINTMAX_MAX".

Bug 141349 II-11121 (GENERIC)

E_US2503 error for SUBSTRING() against X100 returns misleading function 'substringlike'

Bug 141350 II-11122 (ATTENTION, ENHANCEMENT, GENERIC)

Enhance optimizedb by building statistics that uses all exact histogram (vs mixture of exact and inexact) if space is allowed.

This solution requires the derived configuration parameter 'opf_memory' in config.dat to be recalculated. This can be done by using ingres utility 'cbf', then navigate to 'DBMS Server' -> 'Derived' -> 'opf memory', then choose 'Recalculate' option.

Bug 141366 II-11141 (GENERIC)

pivot query processing leading to E_PS0004 and SIGSEGV at stack pst_chk_used.

Bug 141369 II-11145 (LINUX)

The inglogs helper script `inglogs_gdb_stacks` is not shipped.

This script is useful in cases where a process owner is not allowed to determine the stacks. By using the `-stackdmd` flag, `inglogs` can be advised to call that script via `sudo` to collect the stacks. Run `"inglogs --help"` to get more details.

Bug 141371 II-11147 (GENERIC)

`tm` gives errors for queries which end a line with a line comment (starting `--`) and start the next line with something other than whitespace.

Bug 141372 II-11148 (GENERIC)

IN subquery using `FIRST` and `AFTER` to restrict rows gives wrong results

Bug 141379 II-11157 (GENERIC)

A query with a non-constant expression such as `timestamp('now')` was substantiated into an incorrect time/date value. This behaviour is seen if the session had previously executed a query that used a predicate restriction based on a non-constant expression e.g. `WHERE column >= ingresdate('today')`.

Bug 141390 II-11171 (GENERIC)

Using `INTERVAL` as data type without specifying the range of the interval gives a generic syntax error

Bug 141394 II-11175 (GENERIC)

Attempting to issue a zero-rows scroll request against a cursor that was opened non-scrollable can result in `SEGV` reported in `errlog.log`, with unpredictable followon symptoms.

Bug 141398 (GENERIC)

Long Unicode char datatypes are not being compared properly.

Bug 141400 II-11182 (GENERIC)

When one operand is `nchar` and another operand is `nvarchar` then `'+'` and `||/concat()` have different output.

Bug 141404 II-11186 (GENERIC)

`"UPDATE ... SET x=y AND ..."` gives an unhelpful generic syntax error message for `UPDATE`.

Bug 141405 II-11188 (GENERIC)

Invalid number for `"default_npartitions"` returns an error message with internal table name.

Bug 141416 II-11204 (GENERIC)

Referring column name `'last'` inside scalar function fails with syntax error `E_EQ0244` in `esqlc` precompiler.

Bug 141420 II-11208 (GENERIC)

Query that contains a Window function fails with E_VW1027 Rewriter error.

Bug 141422 II-11212 (GENERIC)

The DBMS reports SIGSEGVs in Geospatial routines after failures to allocate memory. OOM errors should be handled cleanly.

Bug 141423 II-11213 (GENERIC)

No option to group or not group equivalent date/time value while aggregate. With this fix, config parameter - "aggr_timestamptz" introduced with default ON, means group equivalent date/time. To get legacy behaviour, set it to OFF. This parameter can be added using 'iinitres aggr_timestamptz'. To set at session level, use 'SET AGGR_TIMESTAMPTZ ON/OFF'. To get current value of AGGR_TIMESTAMPTZ, use dbmsinfo('AGGR_TIMESTAMPTZ')

Bug 141426 II-11217 (GENERIC)

User provided schema is ignored while "rename" / "alter rename" table. Also error message is not correct.

Bug 141431 II-11222 (ATTENTION, GENERIC)

Conditional UPDATE rules traditionally did not obey the rule_upd_prefetch DBMS parameter. There should be a more precise mechanism for specifying whether a rule should imply prefetching.

ATTENTION: Prior to the 11.2 release, AFTER UPDATE rules that included a WHERE condition disregarded the rule_upd_prefetch DBMS parameter, and did not prefetch. This was fixed in 11.2, but unfortunately the prefetching introduces a read-before-update locking strategy, and this leads to deadlocks. While workaround exist, such as requesting READLOCK = EXCLUSIVE for the affected tables, they require application changes.

For now, the fix has been reverted, so that conditional UPDATE rules do not prefetch. In order to give the user more control, a syntax mechanism is introduced with this change, such that a rule can specifically declare that it should or should not use prefetching, regardless of the rule_upd_prefetch and rule_del_prefetch DBMS parameters. The added syntax is a new WITH clause:

```
CREATE RULE rule_name {BEFORE/AFTER clause} [REFERENCING clause] [WHERE clause] [FOR EACH clause] [WITH [NO] UPDATE PREFETCH, [NO] DELETE PREFETCH] EXECUTE clause
```

The prefetch specified in the CREATE RULE takes precedence over the rule_del_prefetch and rule_upd_prefetch DBMS parameters.

Bug 141437 II-11228 (LINUX)

Remove confusing SELinux warning message when removing services as part of uninstall

Bug 141443 II-11233 (GENERIC)

An outer join query that fetches a BLOB type column fails with E_SC0206.

Bug 141448 II-11237 (GENERIC)

Uncorrect behaving of quotes in macro mode in SQL tm. Fixed by limiting quotes only for macro parameters.

Bug 141454 II-11248 (GENERIC)

Optimizer picks an inefficient qep and makes query take longer time to run.

Bug 141467 II-11264 (GENERIC)

regr_r2(y,x) returns NULL rather than 1 when var_pop(y) = 0 and var_pop(x) != 0

Bug 141469 II-11266 (GENERIC)

Specifying a bad ordinal value in ORDER BY clause gives an unhelpful E_US0872 error and message

Bug 141471 II-11270 (GENERIC)

IFNULL(c1, val1) IN (... , val1, ...) fails to match NULL values of c1

Bug 141479 II-11275 (WINDOWS)

During ingstop on Windows the message "'erwriter.exe' is not recognized as an internal or external command, operable program or batch file." appears.

Bug 141488 II-11289 (GENERIC)

Not having errlog.log and running service script to start ingres the errlog.log is recreated as owner ROOT and not as the installation owner.

Bug 141496 II-11307 (GENERIC)

"CREATE ROLE x WITH y" gives E_US07D7 with less helpful error message than "CREATE ROLE x WITH" error

Bug 141506 II-11324 (WINDOWS)

The 64-bit DBA Tools installer does not install on Windows 2022. It reports that the installation wizard was interrupted before it could install the product.

Bug 141510 II-11330 (GENERIC)

SQL queries passed to the DBMS server via the JDBC driver may return fewer rows than the same query executed in terminal monitor.

Bug 141515 II-11339 (GENERIC)

Server returns wrong result for an outer join query that contains an 'is null' predicate on its ON clauses.

Bug 141518 II-11343 (GENERIC)

Rewriter SQL Error when issuing Merge Statement with Except clause.

Bug 141519 II-11290 (GENERIC)

E_PS0903_TAB_NOTFOUND errors seen in errlog when using DISTINCT with set-input parameter table

Bug 141525 II-11352 (GENERIC)

unloaddb generates script with unnecessary consecutive "set session authorization" statements

Bug 141550 II-11387 (WINDOWS)

ingresSync.bat and ingresSync.jar are missing from Windows patches.

Bug 141561 II-9232 (GENERIC)

Alter table that references view throws incorrect error with x100 tables involved E_PS04F2 Statements may not include both X100 and non-X100 tables

Bug 141563 II-11403 (GENERIC)

Java based queries complete but E_SC0024 and E_SC0210 errors are logged in the errlog.log

Bug 141597 II-11432 (GENERIC)

PSF memory leak leading to E_PS0F02_MEMORY_FULL error when procedures are executed by a set of table rules.

Bug 141601 II-11434 (GENERIC)

Union query fails with E_VW1027 Rewriter error with count().

Bug 141608 II-11443 (GENERIC)

LISTAGG(...) WITHIN GROUP (ORDER BY <aggregate>) gives wrong result for nulls from outer joins

Bug 141612 II-11446 (GENERIC)

Sometimes dbms server crashes when update/modify and drop is done parallelly on x100 table.

Bug 141616 II-11448 (ATTENTION,GENERIC)

Ingres releases 11.2 and later do not handle the DB procedure irowcount builtin variable the same as earlier versions. Prior to the 11.2 release, an EXECUTE PROCEDURE (or CALLPROC) inside a DBP would set irowcount to 1. Starting with the 11.2 release, irowcount is set to -1 (meaning no valid value) after a CALLPROC.

The old behavior is very misleading and easily causes DBP coding errors, e.g. if the DBP author mistakenly thinks that irowcount reflects the last operation inside the called DBP.

Because DBPs might depend on the behavior prior to the change, a temporary reversion of the 11.2 semantics change to pre-11.2 behavior is available. To implement, the installation must set:

```
ingsetenv II_IROWCOUNT_COMPAT true
```

before starting Ingres. Accepted values are TRUE and YES, ignoring case; any other value, or no setting, produces the 11.2 behavior. With II_IROWCOUNT_COMPAT set, CALLPROC will save/restore the rowcount. To turn off the rowcount compatibility setting, stop Ingres, then

```
ingunset II_IROWCOUNT_COMPAT
```

and restart the installation to return to 11.2+ behavior.

A message is logged into the DBMS log if II_IROWCOUNT_COMPAT is enabled.

Attention: This is a transitional setting and will not be maintained indefinitely.

Bug 141623 II-11459 (GENERIC)

Query that joins between two tables, where table statistics are only available on one of them, may take longer time to run.

Bug 141627 II-11467 (GENERIC)

Query that has several OR predicates and EXISTS sub-select takes longer time to run.

Bug 141631 II-11471 (GENERIC)

Add help for the instance configuration option tcp_keepalive in configuration by forms.

Bug 141656 II-11500 (GENERIC)

Parser errors do not provide useful context to find problems in complex queries

Bug 141664 II-11508 (GENERIC)

An insert query fails with error E_US0854. Error E_PS000E gets reported to errlog.log.

Bug 141668 II-11511 (GENERIC)

SIMILAR TO query gives SIGSEGV or wrong results when using character classes - e.g. ascii, cntrl, graph, print

Bug 141684 II-11534 (GENERIC)

A JDBC prepared statement completes but the errlog contains E_SC0210 error messages.

Bug 141685 II-11535 (GENERIC)

Database server crash when multiple times handling large hash aggregates

Bug 141688 II-11545 (VMS)

iana 2023c fails to compile.

Bug 141697 II-551 (GENERIC)

Check constraints can be violated after altering column definition.

Bug 141708 II-11634 (GENERIC)

A query with IN against a row value constructor (e.g. "IN ((...))", with that IN containing a UNION, and the UNION branches containing IN predicates can give E_OP0280 by default, or run clean but give wrong result if "noflatten" is specified.

Bug 141719 II-11642 (GENERIC)

A query that has multiple aggregates in its select list and its whole where clause is logically equivalent to FALSE, fails with error E_OP0288.

Bug 141728 II-11650 (UNIX)

Avalanche: inglogs need to check for archived log files in files/vector-logs-archiver/archives/

Bug 141755 II-11678 (LINUX)

The size of patches has greatly increased recently. This fix reverts the size of patches to their earlier sizes.

Bug 141829 II-1264 (GENERIC)

COLLATION_WEIGHT(NCHR, INT) produces unexpected results if the INT is not an INT2.

Bug 141846 II-11787 (GENERIC)

ON clause containing COALESCE() in a query can be ignored, causing wrong results

Bug 141854 II-10694 (ATTENTION, GENERIC)

RANDOM(x,y) for Ingres tables is limited to a maximum value of less than 17 million. With this fix, that limit is removed. A configuration parameter, "random_legacy" has been introduced with default OFF to use the new RANDOM(x,y) behaviour. To get legacy behaviour (e.g. if you have an existing use case which sets the random seed and then expects the previous predictable set of values from RANDOM(x,y) rather than a new-but-predictable set of values), set it to ON. This parameter can be set using 'iinitres random_legacy'. To set at the session level, use 'SET RANDOM_LEGACY ON/OFF'. To get the current value, use dbmsinfo('RANDOM_LEGACY').

Bug 141867 II-6551 (GENERIC)

Creating and destroying Global Temporary Table repeatedly might cause E_DM9049 and SIGSEGV.

Bug 141868 II-11814 (GENERIC)

Running same procedure concurrently in two sessions occasionally raise error, "E_QS000F" in errlog.

Bug 141876 II-11824 (ATTENTION,GENERIC)

After generating table statistics, optimizer uses too much memory to process a query that joins between lots of tables and columns. This problem is first seen on a query that joins between 16 tables and 7 indices on 127 columns.

It removes the enhancement 141350 which was added before.

This solution requires the table statistics to be rebuilt, and the derived configuration parameter 'opf_memory' in config.dat to be recalculated. This can be done by using ingres utility 'cbf', then navigate to 'DBMS Server' -> 'Derived' -> 'opf memory', then choose 'Recalculate' option.

Bug 141890 II-11841 (GENERIC)

The command tools such as auditdb, fastload and their options used are not logged in errlog.log file

Bug 141892 II-11844 (GENERIC)

While aggregating on column of type timestamp/time with time zone, sometimes it is not normalized properly.

Bug 141901 II-11853 (UNIX, WINDOWS)

IngresSync fails with "invalid arguments" for rollforwarddb when run against Ingres or Actian X 12.0

Bug 141924 II-11872 (GENERIC)

Syntax error message for "PREPARE FOR X100" command does not show STREAM as an option

Bug 141929 II-11876 (GENERIC)

Query involving view of a single table and an outer join can give poor performance from materialising the view rather than using the original table structure

Bug 141943 II-11891 (GENERIC)

ordering DESC NULLS LAST or ASC NULLS FIRST from a BTREE misorders the NULL values

Bug 141955 II-1639 (GENERIC)

Error message E_US249D shows bogus apostrophe

Bug 141957 II-11909 (DIRECTOR)

Updated guava.jar from 31.1 to 32.0.1 to fix CVE-2023-2976 vulnerability

Bug 141959 II-11911 (GENERIC)

E_RD0002 UNKNOWN_TBL and E_PS0903 TAB_NOTFOUND errors seen in errlog.log for table "!"

Bug 141964 II-11918 (Windows)

IngresSync fails to execute commands because it fails to read the Cygwin install path from the registry.

Bug 141970 II-11924 (GENERIC)

JARO_WINKLER() may return NaN ("0.-na") when one of the parameters is an empty string and the other is a non-empty string.

Bug 141972 II-11929 (WINDOWS)

IngresSync fails to recognise new journal activity if there is only one new journal.

Bug 141985 II-11946 (GENERIC)

Geospatial queries may hit a SIGBUS in `adu_geo_polyhedral_info()`. The errlog may report the SIGBUS as being in `adu_geom_area()`.

Bug 141989 II-11950 (UNIX)

Enable IngresSync on supported Unix platforms: Solaris Sparc, Solaris AMD and AIX.

Bug 141991 II-11952 (GENERIC)

Query with OR predicates may run slower.

Bug 142004 II-11964 (GENERIC)

IngresSync creates multiple empty journal files.

Bug 142011 II-11972 (GENERIC)

Generic DELETE syntax error message does not give enough context to the user for the location of the error

Bug 142029 II-11987 (UNIX and LINUX)

The installer fails to pick up II_HOSTNAME from the symbol.tbl during an upgrade. The installation fails with "E_ST012E A product setup program failed to complete." and the resulting config.dat contains mixed references to II_HOSTNAME and the host name reported by iipmhost.

Bug 142049 II-12013 (GENERIC)

optimizedb gives E_OP0945 Histogram values for ... are not in ascending order

Bug 142052 II-12017 (GENERIC)

CTE query results in E_RD0002 and E_PS0903 entries in errlog.log for CTE name

Bug 142058 II-1411 (GENERIC)

ingstart --usage does not mention -mgmtsvr and/or iistar in some environments

Bug 142072 II-11963 (ODBC, WINDOWS ONLY)

Add option to set METADATA_FORCE_CASE via windows ODBC Administrator.

Bug 142095 II-12076 (GENERIC)

Query runs slower by not using secondary index.

Bug 142116 II-12100 (UNIX)

INGLOGSFLAGS needs to be evaluated before the flags given on the command line. This allows to overwrite flags set in that variable. The inglogs snapshots on Avalanche can become too large, better control on what is collected from vector-logs-archiver/archives/ is needed.

Bug 142124 II-9713 (GENERIC)

E_US0B72 error does not pinpoint the piece of SQL causing the problem

Bug 142134 II-11489 (LINUX)

The RPM and DEB packages are signed using SHA-1 hashes instead of SHA-2 hashes.

Bug 142136 II-12119 (GENERIC)

Missing rows when selecting from a view that selects from a pivot DT based on Ingres tables

Bug 142157 II-12150 (GENERIC)

CTE with UNION in a query with an outer join can give wrong results

Bug 142165 II-12156 (GENERIC)

HELP table_synonym_name successfully reports details about the underlying table and lists the Type as "user synonym on table table_name". HELP TABLE table_synonym_name fails with "table does not exist" errors. This should also report the details about the underlying table.

Bug 142174 II-12168 (GENERIC)

DBP fails with E_QE0002_INTERNAL_ERROR, E_SC0216_QEF_ERROR and SIGSEGV. DBP trying to insert null into a non nullable column through a table procedure leading to SIGSEGV, instead displaying valid error(E_AD1012) and continue.

Bug 142185 II-12182 (LINUX)

The installer prints debug messages which should not be printed during installation.

Bug 142201 II-12203 (GENERIC)

CREATE VIEW involving PIVOT can give E_RD0125 and E_OP0011 errors

Bug 142204 II-12207 (GENERIC)

Unable to load from compressed, non-UTF8 files using COPY VWLOAD as well as command line vwload in cluster mode.

Bug 142207 II-12213 (GENERIC)

Sessions stuck in OPF facility: stack: uld_antecedant_by_mask

Bug 142210 II-12217 (GENERIC)

A query with a correlated aggregate subselect under an OR clause takes longer to run

Bug 142241 II-12276 (GENERIC)

The abs() function for integer values possibly gives a wrong result for the largest negative number.

Bug 142259 II-12297 (GENERIC)

After altering table by dropping a column, selecting from a view that has a derived table that fetches from the affected table will cause E_OP068E.

Bug 142271 II-12316 (GENERIC)

Intermittent error message when multiple date formats for columns along with a default format are provided in COPY VWLOAD 'dateformat' option.

Bug 142279 II-12326 (GENERIC)

repeat('x', int1(N)) does not return expected result.

Bug 142293 II-12340 (GENERIC)

Query takes long time to run to completion. QEP shows at least 2 indices based on the same table are being used for Key join, and one of the Key joins only uses the partial key on that index.

Bug 142329 II-12381 (GENERIC)

Bogus E_US249E error generated for E_VW1009 error from X100

Bug 142427 II-12495 (GENERIC)

A query takes longer time to run. This problem is typically seen on query that produces a distinct result set. QEP will show a non-user requested aggregate sum() has been introduced on a table referenced in the query, but such table has no columns required to be output on the query's select list.

Bug 142432 II-12505 (GENERIC)

COPYDB/UNLOADDB may generate invalid procedure stubs if the DBP name is a delimited ID containing spaces or if additional white space such as line feeds are present the stored procedure text. The latter may happen when a procedure is created using an ESQCLC program.

Bug 142445 II-12520 (GENERIC)

CASE aggregate producing a BOOLEAN can give wrong results

Bug 142463 II-12543 (GENERIC)

Undefined behaviour possible from bad memory accesses (e.g. accessing freed memory)

Bug 142465 II-12545 (GENERIC)

Query with OR over two ANDed expressions, each of which ANDs 2 LIKE expressions on the same column, can give wrong results

Bug 142467 II-12549 (GENERIC)

Server returns wrong result for an outer join query that joins on a view's column that is a CASE expression.

Bug 142495 II-12577 (GENERIC)

Server returns wrong result for aggregate functions over window functions.

Bug 142526 II-12613 (GENERIC)

Query that has aggregates over window function on Ingres type table fails with error E_OP08A2.

Bug 142528 II-12615 (GENERIC)

Outer join query returns wrong result. QEP shows an outer join uses an index, but that index does not cover all columns in that outer join's ON clause.

Bug 142552 II-12606 (ODBC)

Executing SQLFreeHandle() on handle type SQLHSTMT after failed execution of batch statements by SQLExecute(), results in crash.

Bug 142616 II-12748 (GENERIC)

Generic UPDATE syntax error message does not give context to the user for the location of the error

Bug 142630 II-12767 (GENERIC)

On non-UTF8 systems hash joins on character data may fail with E_AD5015 XX is not a valid byte sequence for server codepage.

Bug 142636 II-12778 (GENERIC)

verifydb gives S_DU16D0_QRYTEXT_ALARM_MISSING for security alarms

Bug 142659 II-12801 (GENERIC)

Generic DROP syntax error message does not give context to the user for the location of the error

Bug 142675 II-12819 (GENERIC)

Generic CREATE INDEX syntax error message does not give context to the user for the location of the error

Bugs fixed in previous builds

Please refer to Knowledgebase document 50242 for a list of bugs fixed.

4.0 Contacting Technical Support

For online technical assistance and a complete list of locations, primary service hours, and telephone numbers, contact technical support at <http://www.actian.com/support-services/support>.