



**extend 9.2.2**

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A large, decorative graphic consisting of multiple overlapping, wavy blue lines that create a sense of motion and depth. The lines are in various shades of blue, from light to dark, and are arranged in a complex, swirling pattern that dominates the lower half of the page.

**Release Notes**

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# extend Release notes

These release notes contain information that might not appear in the Help. Read them in their entirety before you install the product.



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# extend System Requirements

For system requirements, see each product's documentation

This product includes software developed by the University of California, Berkeley and its contributors.

# extend Installation Release Notes

Refer to the extend product's installation guides.

# Resolved Issues

The following are resolved issues for the extend products.

## AcuBench ECN List

This section includes the ECNs relating to AcuBench:

### **ECN-WB927: Bitmap button fails to show in AcuBench if the title is not blank**

Change Number: ECN-WB927

Type of Change: Correction

Incidents: 2664475

RPI Number: 1091011

Product: AcuBench

Module: AcuBench.exe

New Version: 9.2.2

Machines Affected: Windows

Known Versions Affected: 9.2.0 and later

#### **Description of problem or enhancement**

extend Version 9.2 introduced a new set of styles for push buttons, including the ability to have both text and a bitmap. while the run time handled this case very well, if AcuBench has a title position of 0 (not set), a non-blank title, and a bitmap associated with a push-button, then the bitmap would not show.

### **ECN-WB928: Copy/paste of a checkbox does not keep TEXT-ONLY property**

Change Number: ECN-WB928

Type of Change: Correction

Incidents: 2665034

RPI Number: 1091049

Product: AcuBench

Module: AcuBench.exe

New Version: 9.2.2

Machines Affected: Windows

Known Versions Affected: 9.2.0 and later

### **Description of problem or enhancement**

When pasting a copied check box in a screen, the TEXT-ONLY property was not kept the same, and in fact was random.

## **ECN-WB929: Names of new screen controls not unique**

Change Number: ECN-WB929

Type of Change: Correction

Incidents: 2561851

RPI Number: 1083288

Product: AcuBench

Module: AcuBench

New Version: 9.2.2

Machines Affected: Windows

Known Versions Affected: 9.0.0 and later

### **Description of problem or enhancement**

When creating a new screen control on an existing project, the name of the control would not necessarily be unique. In particular, immediately after opening a project, the numbering system started back at 1.

## **ACUCOBOL-GT ECN List**

This section includes the ECNs relating to ACUCOBOL-GT:

### **ECN-4232: USE\_LARGE\_FILE\_API didn't use readdir64()**

Change Number: ECN-4232

Type of Change: Correction

Incidents: 2561259

Date: 2013-07-15

Product: ACUCOBOL-GT

Module: STDLIB

New Version: 9.2.2

Machines Affected: all

UNIX Known Versions Affected: all

### **Description of problem or enhancement**

Setting the `USE_LARGE_FILE_API` configuration variable did not cause `readdir64()` to be used. `USE_LARGE_FILE_API` now uses `readdir64()` on systems that support large file access.

### **ECN-4238: Compiler opened wrong COPY library**

Change Number: ECN-4238

Type of Change: Correction

Incidents: 2657344

RPI Number: 1090436

Product: ACUCOBOL-GT

Module: compiler

New Version: 9.2.2

Machines Affected: All

Known Versions Affected: 7.3.0 and later

#### **Description of problem or enhancement**

When using the -Ce option to automatically specify the extension for source and copy files, the compiler would open the wrong copy file. This would occur if a copy library has the same name as the original source file, but in a different directory.

## **ECN-4239: ECN-4179 could cause pause when closing pipe**

Change Number: ECN-4239

Type of Change: Correction

Incidents: 2658448

RPI Number: 1090462

Product: ACUCOBOL-GT

Module: vision

New Version: 9.2.2

Machines Affected: All

Known Versions Affected: 9.2.0, 9.2.1

#### **Description of problem or enhancement**

ECN-4179 could cause a one-second pause when closing a pipe. This change removes that pause.

## **ECN-4240: MAV when using Crystal Reports**

Change Number: ECN-4240

Type of Change: Correction

Incidents: 2650942

RPI Number: 1090553

Product: ACUCOBOL-GT

Module: Run time

New Version: 9.2.2

Machines Affected: Windows

Known Versions Affected: 9.2.0 and later

#### **Description of problem or enhancement**

Attempting to interact with an ActiveX control with an IUnknown interface would cause a run-time Memory Access Violation (MAV) due to incorrect handling of internal handles.

## **ECN-4241: EXTFH file system interface was limited to 8 key segments**

Change Number: ECN-4241

Type of Change: Correction

Incidents: 2658143

RPI Number: 1090434

Product: ACUCOBOL-GT

Module: FSI/MCFCS

New Version: 9.2.2

Machines Affected: All

Known Versions Affected: All

#### **Description of problem or enhancement**

The EXTFH file system interface (which allows calling an EXTFH file system from the ACU run time) limited the number of key segments to eight (8). This limit has been increased to 16 to match the ACU maximum. Install and use the updated file system interface to increase the key segments used by EXTFH to 16.

## **ECN-4242: SORT did not run declares on GIVING files**

Change Number: ECN-4242

Type of Change: Correction

Incidents: 2658392

RPI Number: 1090531

Product: ACUCOBOL-GT

Module: Run time

New Version: 9.2.2

Machines Affected: All

Known Versions Affected: 8.1.1 to 9.2.1

#### **Description of problem or enhancement**

SORT now runs declares for GIVING files after installing the updated run time for extend 9.2.2.

## **ECN-4243: Too many errors when using LOCK MULTIPLE with many files**

Change Number: ECN-4243

Type of Change: Correction

Incidents: 2663823

RPI Number: 1090918

Product: ACUCOBOL-GT

Module: compiler

New Version: 9.2.2

Machines Affected: All

Known Versions Affected: 9.2.0 and later

#### **Description of problem or enhancement**

When using the LOCK MULTIPLE phrase in a COBOL program, a leak would cause an error when more than 20 files were defined. Even with less than 20 files, subsequent compilations could fail because of this leak.

## **ECN-4244: Thin client socket closed unexpectedly using WAIT\_FOR\_LOCKS**

Change Number: ECN-4244

Type of Change: Correction

Incidents: 2653300

RPI Number: 1090030

Product: ACUCOBOL-GT

Module: socks

New Version: 9.2.2

Machines Affected: All

Known Versions Affected: All

#### **Description of problem or enhancement**

Using WAIT\_FOR\_LOCKS was causing cause a thin client socket to close unexpectedly.

## **ECN-4245: Listbox failed to show items**

Change Number: ECN-4245

Type of Change: Correction

Incidents: 2663997

RPI Number: 1090960

Product: ACUCOBOL-GT

Module: Run time

New Version: 9.2.2

Machines Affected: Windows

Known Versions Affected: 9.2.1 and later

#### **Description of problem or enhancement**

When compiled for 9.1 or earlier (using -Z91, or the 9.1 compiler), and run with extend 9.2.1 list boxes failed to show their data.

## **ECN-4246: Run time stopped responding when calling COBOL from .NET**

Change Number: ECN-4246

Type of Change: Correction

Incidents: 2662426

RPI Number: 1090790

Product: ACUCOBOL-GT

Module: wrunnet.dll

New Version: 9.2.2

Machines Affected: Windows

Known Versions Affected: All

### **Description of problem or enhancement**

When a .NET programs calls COBOL, the run time may stop responding when the COBOL program returns to the .NET module. If compiling your COBOL programs to .NET DLLs, you must recompile them. If using `wrunnet.dll`, then installing the corrected module is sufficient.

## **ECN-4247: Some controls not appearing native**

Change Number: ECN-4247

Type of Change: Correction

Incidents: 2664504

RPI Number: 1090997

Product: ACUCOBOL-GT

Module: Run time

New Version: 9.2.2

Machines Affected: Windows

Known Versions Affected: 9.2.0 and later

### **Description of problem or enhancement**

Some control types were not displaying as native controls like in previous versions.

With 9.2.0, some properties cause controls to not show as native. For example, setting a color on a push button causes that push button to show as an old-style control, regardless of the setting for the `WIN32_NATIVECTLS` variable.

In particular, setting a foreground color for a radio button or a check box disables the native look and feel for that control. And setting any of the new tab properties disables that native look and feel for that tab.

## **ECN-4248: GRID DATA-TYPES specifications not working**

Change Number: ECN-4248

Type of Change: Correction

Incidents: 2662402

RPI Number: 1090769

Product: ACUCOBOL-GT

Module: Run time

New Version: 9.2.2

Machines Affected: Windows

Known Versions Affected: 9.2.0 and later

**Description of problem or enhancement**

The Grid DATA-TYPES property was not working. The implementation included a function that was incompletely coded. Common code was called when parsing the DATA-TYPES, and then the (now-empty) value again was being parsed. This resulted in a type of X (any).

## **ECN-4249: C\$FILEINFO fails on large files**

Change Number: ECN-4249

Type of Change: Correction

Incidents: 2657702

RPI Number: 1090402

Product: ACUCOBOL-GT

Module: Run time

New Version: 9.2.2

Machines Affected: Windows

Known Versions Affected: All

**Description of problem or enhancement**

When a file was larger than 2 gigabytes, C\$FILEINFO would fail (return code 1).

## **ECN-4250: COLOR on bitmap push button compatibility**

Change Number: ECN-4250

Type of Change: Correction

Incidents: 2665323

RPI Number: 1091075

Product: ACUCOBOL-GT

Module: Run time

New Version: 9.2.2

Machines Affected: Windows

Known Versions Affected: 9.2.0 and later

### **Description of problem or enhancement**

When a COBOL program displayed a bitmap push button with a foreground or background color specified, extend versions 9.1.2 or earlier would ignore the color specifications. 9.2.0 and later versions would display some color around the bitmap, even if the object could run in the older versions. To resolve this issue, remove the COLOR phrase from the bitmap push buttons when recompiling.

## **ECN-4251: Transparent animated bitmap not working**

Change Number: ECN-4251

Type of Change: Correction

Incidents: 2475877

RPI Number: 1076550

Product: ACUCOBOL-GT

Module: Run time

New Version: 9.2.2

Machines Affected: All Windows platforms

Known Versions Affected: All except 8.1.1 through 8.1.2.

### **Description of problem or enhancement**

For a transparent animated bitmap, each time a new animation of the bitmap displays, the previous bitmap was not erased. This caused all subsequent bitmaps to be overlaid. This ECN ensures the previous bitmaps gets erased properly.

If you are only using transparent animated bitmaps with BITMAP-TIMER, you should be able to use 8.1.1 or 8.1.2.

## **ECN-4253: INSPECT did not handle double-byte strings correctly**

Change Number: ECN-4253

Type of Change: Correction

Incidents: 2475774

RPI Number: 1076187

Product: ACUCOBOL-GT

Module: Run time

New Version: 9.2.2

Machines Affected: All

Known Versions Affected: All

### **Description of problem or enhancement**

INSPECT was not properly handling double-byte character strings. This resulted in garbled characters when replacing a pattern not on a double-byte character boundary.

## ECN-4254: Access Violation using Apache on OpenVMS

Change Number: ECN-4254

Type of Change: Correction

Incidents: 2664807

RPI Number: 1091393

Product: ACUCOBOL-GT

Module: Run time

New Version: 9.2.2

Machines Affected: OpenVMS

Known Versions Affected: All

### Description of problem or enhancement

An access violation may occur when accessing the run time using Apache on OpenVMS.

If using the -f option, the run time does not perform user interface functions. As a result `wpContext` is null. When executing the run time using Apache on OpenVMS, the `wpContext` null pointer can cause an access violation when any function tries to access items that the pointer is supposed to be pointing to.

To work around this issue, add a check before the pointer is referenced to see if it is null and add code take appropriate action. For example:

```
if (WpContext == (CONTEXT_INFO *) NULL)
    return;
```

## ECN-4255: AXML\_IGNORE\_EMPTY\_DATA left NUL characters in output file

Change Number: ECN-4255

Type of Change: Correction

Incidents: 2671008

RPI Number: 1091653

Product: ACUCOBOL-GT

Module: FSI/XML

New Version: 9.2.2

Machines Affected: all

Known Versions Affected: all

Using the `AXML_IGNORE_EMPTY_DATA` run time configuration file variable caused NUL characters to be left in the output XML file.

## ECN-4256: Incorrect display in TAB control on a resizable window

Change Number: ECN-4256

Type of Change: Correction

Incidents: 2665066

RPI Number: 1091027

Product: ACUCOBOL-GT

Module: Run time

New Version: 9.2.2

Machines Affected: Windows

#### **Description of problem or enhancement**

When some controls were placed on a TAB control that is on a resizable window, the display could get corrupted when the window was sized smaller than the tab, and then scrolled.

## **ECN-4257: Wrong EVENT-DATA-1 values when using a scrolling grid**

Change Number: ECN-4257

Type of Change: Correction

Incidents: 2665642

RPI Number: 1091103

Product: ACUCOBOL-GT

Module: Run time

New Version: 9.2.2

Machines Affected: Windows

Known Versions Affected: 9.2.0 and later

#### **Description of problem or enhancement**

When a grid had a horizontal scrollbar, scrolling the grid would cause future EVENT-DATA-1 values to be incorrect.

## **ECN-4258: Controls flickering during vertical scroll**

Change Number: ECN-4258

Type of Change: Correction

Incidents: 2667868

RPI Number: 1091360

Product: ACUCOBOL-GT

Module: Run time

New Version: 9.2.2

Machines Affected: All

Windows Known Versions Affected: 8.1.x through 9.2.1

### **Description of problem or enhancement**

When using the scroll bar on right to scroll up and down in the screen the controls would flicker, and momentarily disappear while scrolling.

## **ECN-4259: RGB color not being set correctly when set as a variable**

Change Number: ECN-4259

Type of Change: Correction

Incidents: 2670629

RPI Number: 1091592

Product: ACUCOBOL-GT

Module: Compiler and run time

New Version: 9.2.2

Machines Affected: All

Known Versions Affected: 9.2.0 and later

### **Description of problem or enhancement**

When using a variable to specify the RGB background or foreground of a control in the SCREEN SECTION, the compiler could generate an incorrect descriptor for the color variable. When this occurred, the run time would not show the right color. This would happen if there are many variables used in the screen section before the color variable.

## **ECN-4260: .NET inquires caused the run time to stop responding**

Change Number: ECN-4260

Type of Change: Correction

Incidents: 2660475, 2670565

RPI Number: 1091680, 1090650

Product: ACUCOBOL-GT

Module: Run time

New Version: 9.2.2

Machines Affected: Windows

Known Versions Affected: 9.2.0 and later

### **Description of problem or enhancement**

When modifying or inquiring a .NET control returned a handle, the handle would sometimes be incorrectly used internally. This caused the run time to stop responding.

## **ECN-4261: Access violation opening file in MPUX environment on Linux**

Change Number: ECN-4261

Type of Change: Correction

Incidents: 2671256

RPI Number: 1091656

Product: ACUCOBOL-GT

Module: Run time

New Version: 9.2.2

Machines Affected: All Linux machines that support MPUX

Known Versions Affected: All

#### **Description of problem or enhancement**

When using the ACUCOBOL-GT run time linked with MPUX on a Linux system, a memory access violation could have occurred when opening any file.

## **Acu4GL ECN List**

This section includes the ECNs relating to Acu4GL:

### **ECN-GL523: Cursor already declared error**

Change Number: ECN-GL523

Type of Change: Correction

Incidents: 2655380

RPI Number: 1090318

Product: Acu4GL

Module: MSSQL

New Version: 9.2.2

Machines Affected: Windows

Known Versions Affected: 8.0.0 and later

#### **Description of problem or enhancement**

When a COBOL program has many different STARTs for a single file, and those STARTs use different WHERE constraints, the interface could fill its collection of START info structures, and need to reuse one. When that happened, Acu4GL did not initialize the reused structure. This caused stale data to be used later, which would generate the `Cursor already declared` error.

### **ECN-GL524 No response when using A\_MSSQL\_SEPARATE\_LOCK\_CONN**

Change Number: ECN-GL524

Type of Change: Correction

Incidents: 2643939

RPI Number: 1089121, 1090662

Product: Acu4GL

Module: MSSQL

New Version: 9.2.2

Machines Affected: Windows

Known Versions Affected: 9.0.0 and later

#### **Description of problem or enhancement**

When using the configuration variable `A_MSSQL_SEPARATE_LOCK_CONN`, the interface Acu4GL could stop responding when inside a transaction.

## **ECN-GL525: Memory leak in Acu4GL for MSSQL when using WHERE-CONSTRAINT**

Change Number: ECN-GL525

Type of Change: Correction

Incidents: 2663248

RPI Number: 1090909

Product: Acu4GL

Module: MSSQL

New Version: 9.2.2

Machines Affected: Windows

Known Versions Affected: 8.0.0 and later

#### **Description of problem or enhancement**

When using the `4GL-WHERE-CONSTRAINT` configuration variable, Acu4GL for MSSQL would lose the pointer to the constraint when the file was closed, causing a memory leak.

## **ECN-GL526: Date fields created as integer**

Change Number: ECN-GL526

Type of Change: Correction

Incidents: none

RPI Number: 1091431

Product: Acu4GL

Module: ODBC / DB2

New Version: 9.2.2

Machines Affected: Windows

Known Versions Affected: 9.2.0 and later

#### **Description of problem or enhancement**

The introduction of ECN-GL519 in extend 9.2.0 shifted ODBC/DB2 driver compatibility to ODBC version 3.x. This modified the definitions of the data types used with DATE, TIME, and TIMESTAMP to `SQL_TYPE_DATE`, `SQL_TYPE_TIME` and `SQL_TYPE_TIMESTAMP`. However, the interface did not recognize these data types. Because of this, the driver manager again uses the ODBC 2.x types.

## **ECN-GL527: Acu4GL for MSSQL fails to open a table with an identity column**

Change Number: ECN-GL527

Type of Change: Correction

Incidents: 2672759

RPI Number: 1091804

Product: Acu4GL

Module: MSSQL

New Version: 9.2.2

Machines Affected: Windows

Known Versions Affected: 9.1.0 and later

### **Description of problem or enhancement**

When a table had a NUMERIC identity column, the Acu4GL interface would try to match that column to one of the columns in the XFD, normally failing to do so, causing the OPEN to fail.

## **ECN-GL528: START or READ NEXT fails**

Change Number: ECN-GL528

Type of Change: Correction

Incidents: 2674041

RPI Number: 1091923

Product: Acu4GL

Module: MSSQL

New Version: 9.2.2

Machines Affected: Windows

Known Versions Affected: 9.2.0 and later

### **Description of problem or enhancement**

When a CHAR field contains all spaces, the interface could not read it. This was caused by the implementation of ECN-GL517, which treats CHAR fields that are filled with SPACE or LOW-VALUES as empty, rather than as space-filled CHAR fields.

## **AcuSQL ECN List**

This section includes the ECNs relating to AcuSQL:

## **ECN-SQL145: AcuSQL for MSSQL gives SQLCODE -1 on OPEN of cursor**

Change Number: ECN-SQL145

Type of Change: Correction

Incidents: None

RPI Number: 1091686

Product: AcuSQL

Module: MSSQL

New Version: 9.2.2

Machines Affected: Windows

Known Versions Affected: 8.0.0 and later

### Description of problem or enhancement

The SQL Server driver from Microsoft contains the following bug described at <http://support.microsoft.com/kb/308264/>

BUG: SQLDescribeCol Returns Wrong Column Size in a Complex Union Query with Parameters

You use a version of Microsoft SQL Server Native Client that is earlier than Microsoft SQL Server Native Client 11.0. Your code makes a call to the SQLDescribeCol function for a complex union query that contains parameters and a WHERE clause.

As a result of this bug, the AcuSQL native SQL Server run time (`asqlsrvr.dll`) cannot correctly determine the size of the parameters in the UNION sub-clause. To correct the issue, you can use a new driver on a Microsoft SQL Server 2012 database with the `ASQL_ODBC_DRIVER_NAME` configuration variable as documented in ECN-SQL143 or in the product help.

As an alternative, you can set a new configuration variable `ASQL_COBOL_DATA_SIZE` to TRUE. When `ASQL_COBOL_DATA_SIZE` is set to TRUE, the size of the COBOL data item determines the column size. It uses the size of the COBOL data item instead of the information returned from the `SQLDescribeParam` function to determine the size of the bind variable. For character fields, the size of the COBOL field is used. For numeric fields, it uses the value of an auto-parameterized query with the constant value is first numeric (10,0). The variable is read at run time before the values are bound, which allows it to be set it for an individual query. `ASQL_COBOL_DATA_SIZE` should only be used to work around an issue since the field sizes it uses may not be the most accurate. The default value of this variable is FALSE.

## ECN-SQL146: Sub-query causes error in AcuSQL

Change Number: ECN-SQL146

Type of Change: Correction

Incidents: None

RPI Number: 1091355

Product: AcuSQL

Module: MSSQL

New Version: 9.2.2

Machines Affected: Windows

Known Versions Affected: 8.0.0 and later

### Description of problem or enhancement

The sample program was returning the error `Numeric value out of range` upon query execution.

When using a version 10 driver, an error returned from the `SQLDescribeParam()` function due to a syntax error in the query. This caused the column to be assigned a default size which was not large enough.

The run time provides better error checking. The following error is returned:

```
[1] 07009 0 - [Microsoft][ODBC SQL Server Driver]Invalid Descriptor Index
[2] 42000 0 - [Microsoft][ODBC SQL Server Driver] Syntax error or access
violation
No more messages
```

To correct the issue, you can use a new driver on a Microsoft SQL Server 2012 database with the `ASQL_ODBC_DRIVER_NAME` configuration variable as documented in ECN-SQL143 or in the product help.

## AcuXDBC ECN List

This section includes the ECNs relating to AcuXDBC:

### ECN-XD087: Client stops responding on SELECTs with more than 32 GROUP BY columns

Change Number: ECN-XD087

Type of Change: Correction

Incidents: None

RPI Number: 1088430

Product: AcuXDBC

Module: AcuXDBC, MFXDBC

New Version: 9.2.2

Machines Affected: All

Known Versions Affected: All

### Description of problem or enhancement

The AcuXDBC client may stop responding on a SELECT that contains more than 32 columns in a GROUP BY clause. The client can now support up to 64 columns in the GROUP BY clause.

AcuXDBC returns an error if a query contains more than 64 columns in the GROUP BY clause. To work around this issue, install the new `acuxdbc04.dll`, or reduce the number of columns in the GROUP BY clause to 32 or less.

# Updates and SupportLine

Our Web site gives up-to-date details of contact numbers and addresses.

## Further Information and Product Support

Additional technical information or advice is available from several sources.

The product support pages contain a considerable amount of additional information, such as:

- The WebSync service, where you can download fixes and documentation updates.
- The Knowledge Base, a large collection of product tips and workarounds.
- Examples and Utilities, including demos and additional product documentation.

To connect, enter <http://www.microfocus.com> in your browser to go to the Micro Focus home page.



**Note:** Some information may be available only to customers who have maintenance agreements.

If you obtained this product directly from Micro Focus, contact us as described on the Micro Focus Web site, [www.microfocus.com](http://www.microfocus.com). If you obtained the product from another source, such as an authorized distributor, contact them for help first. If they are unable to help, contact us.

## Information We Need

However you contact us, please try to include the information below, if you have it. The more information you can give, the better Micro Focus SupportLine can help you. But if you don't know all the answers, or you think some are irrelevant to your problem, please give whatever information you have.

- The name and version number of all products that you think might be causing a problem.
- Your computer make and model.
- Your operating system version number and details of any networking software you are using.
- The amount of memory in your computer.
- The relevant page reference or section in the documentation.
- Your serial number. To find out these numbers, look .

Alternatively, you might be asked to provide a log file created by the Consolidated Tracing Facility (CTF) - a tracing infrastructure that enables you to quickly and easily produce diagnostic information detailing the operation of a number of Micro Focus software components.

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