extend 9.1.0
Release Notes

2011-09-28

Contents

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.

> **Note:** This document contains a number of links to external web sites. Micro Focus cannot be responsible for the contents of the website or for the contents of any site to which it might link. Web sites by their nature can change very rapidly and although we try to keep our links up-to-date, we cannot guarantee that they will always work as expected.

extend System Requirements

For system requirement, 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.

What's New

The following items are new for this release:

- Stability and wrap-up 9.0
- Standalone XDBC installer 32 and 64 bit
- 64-bit AcuXDBC client
- RMNet for extend - allowing ACUCOBOL-GT programs to call web-services
- Various enhancements like:

  - Support INQUIRE for more properties for the Grid Control
  - The Grid Control now supports the HOT-KEY feature and we introduced INQUIRE support for the following properties (cell-color, row-color, bitmap, bitmap-number, cell-font)
  - The C$XML routine now has the ability to write the XML data to a data item or to allocated memory, instead of just to a file
  - Runtime support for .NET 4.0
- Customer-reported stability

Known Issues

This section provides important information that may impact your use of the extend product line.

AcuBench Version and License Expansion

extend 9.1.0 contains AcuBench 9.0.1. You must expand the AcuBench license code and key with a 9.0.1 activator. For this release, there is a 9.0.1 activator included in the AcuBench directory.

Documentation Version

extend 9.1.0 contains extend 9.0.1 documentation.

***SHARED_LIBRARY_EXTENSION* default value change**

The default value of the *SHARED_LIBRARY_EXTENSION* configuration value has been changed to match the standard value for the host system.

The old default value was fixed as `.so`. Some systems use a different shared library extension. The new default value will match the extension used on the shared libraries in the lib directory.

You may need to update the value of the *SHARED_LIBRARY_EXTENSION* configuration variable if you were relying on it always being set to `.so`.

.NET controls with the runtime and thin client.

Use of .NET controls with the runtime and thin client requires .NET Framework 2.0.

Viewing documentation in newer browsers

When viewing extend documentation from Internet Explorer 8 or higher, it is best to run the browser in compatibility mode. In non-compatibility mode help pages with numbered lists will appear with the same number for all items in the list. This behavior may also occur with Google's Chrome, which does not have a compatibility mode.

Resolved Issues

The following are resolved issues for the extend products.

ACUCOBOL-GT ECN List

This section includes the ECNs relating to ACUCOBOL-GT:

ECN-2689: Increase MAX_FILES limit in runtime

Type of Change: Correction

Incidents: none

RPI Number: none

Module: runtime

Machines Affected: all

Known Versions Affected: all

Description of problem or enhancement

The MAX_FILES configuration variable limit in the runtime has been raised from 255 to 32,767. The new higher limit of MAX_FILES is only available for objects compiled to version 6.2 or later. If MAX_FILES > 255 is used, all objects in use must be compiled to object version 6.2 or later. Failing to do this may lead to undefined behavior. Although the limit has increased, this configuration variable should still be set as low as possible in order to avoid wasting memory. Note that increasing this limit in the runtime will not increase any limit your operating system may impose. Refer to your operating system documentation for information on increasing any such limits.

ECN-4042: Implicit EXIT PROGRAM (conform to 1985 COBOL standard)

Type of Change: Correction

Incidents: None

RPI Number: 575343

Module: Compiler

Machines Affected: All

Known Versions Affected: All

Description of problem or enhancement

ACUCOBOL-GT does not conform to the 1985 COBOL standard, which specifies that a called program should execute an implicit EXIT PROGRAM if execution runs off the end of the Procedure Division. ACUCOBOL-GT versions prior to 9.1 executed an implicit STOP RUN in this case.

ECN-4052: Fix spurious error 39 upon relative file open due to non-atomic writes

Type of Change: Correction

Incidents: 2475268

RPI Number: 1076130

Module: Vision

Machines Affected: Some UNIX

Known Versions Affected: All

Description of problem or enhancement

When a relative file is opened by Vision, a test is done to make sure that the file size is a multiple of the record size. On some UNIX systems single write system calls are not handled atomically, therefore that another process may see the intermediate results of a write. The relative file size test was not guarded with a file lock, meaning that during an OPEN operation, the file size test could fail with a file status 39 if another process was extending the file at exactly the same time. The relative file size test is now guarded by a file lock on UNIX systems.

ECN-4058: HOT-KEY support for Grid control

Type of Change: Enhancement

Incidents: 2449553

RPI Number: 1075183

Module: wrun32.exe

Machines Affected: Win32

Known Versions Affected: All

Description of problem or enhancement

The HOT-KEY feature was never implemented to work with Grids. The Grid now supports the HOT-KEY feature.

ECN-4059: Support INQUIRE for more properties in the Grid

Type of Change: Enhancement

Incidents: None

RPI Number: None

Module: wrun32.exe

Machines Affected: Win32

Known Versions Affected: All

Description of problem or enhancement

Introducing *INQUIRE* support for Grid properties:

- cell-color
- row-color
- bitmap
- bitmap-number
- cell-font

ECN-4060: Revert to 7.3 and prior behavior with CALL on duplicate program-id

Type of Change: Enhancement

Incidents: 2480893

RPI Number: 1076609

Module: Runtime

Machines Affected: All

Known Versions Affected: 8.0.0 and later

Description of problem or enhancement

The ISO COBOL standard does not allow multiple programs to have the same PROGRAM-ID. However, when entry points were implemented in ACUCOBOL-GT, it was allowed that to happen. Unfortunately, some customers had built systems that rely on the incorrect behavior. This ECN optionally restores the old behavior.

ECN-4064: CVM.jar linkage signature in RHELinux 5

Type of Change: Correction

Incidents: none

RPI Number: 1076786

Module: runtime

Machines Affected: Unix/Linux

Known Versions Affected: 9.0 and prior

Description of problem or enhancement

Java calling cobol via CVM.jar has a limit of 2026 on the linkage size when running on Linux. When a larger linkage_signature is specified the process crashes with a core dump.

ECN-4065: Error when compiling the -Dd31

Type of Change: Correction

Incidents: none

RPI Number: 1076750

Module: compiler

Machines Affected: All

Known Versions Affected: 9.0 and prior

Description of problem or enhancement

Programs compiled with -Dd31 have incorrect results for conditional comparison when the numbers being compared have large number of digits. For example, 77 itema pic s9(12)v9(04) value 999999999999. 77 itemb pic s9(9)v9(7) value 9. procedure division. main-00. if itemb not > itema display message "pass" else display message "fail" end-if

ECN-4066: C$XML WRITE-STRING opcode

Type of Change: Enhancement

Incidents: None

RPI Number: None

Module: Runtime

Machines Affected: All

Known Versions Affected: All

Description of problem or enhancement

The C$XML library routine now has the ability to write the XML data to a data item or to allocated memory, instead of just to a file.

To use:

CXML-WRITE-STRING (op-code 48)

Writes the specified data tree to a data item or memory area. This operation takes two parameters:

handle   is a parser handle

data-area is either an alphanumeric data item, or a *USAGE POINTER* data item. If the latter, the allocated memory must have been allocated with *M$ALLOC*, and may not point to any other type of memory area.

The return code is 0 if the data item was large enough to hold the xml stream, is positive if not, and that positive value is the amount of space needed to hold the stream, or is -1 to indicate an error.

ECN-4069: COBOL program called by Java program returns 1 byte less in passed string

Type of Change: Correction

Incidents: none

RPI Number: 1077241

Module: runtime

Machines Affected: Unix/Linux

Known Versions Affected: 9.0 and prior

Description of problem or enhancement

In a java call in COBOL program, a string data type is passed. The COBOL program receives the data correctly in its linkage section. However, the data returned to the java program is 1 byte less.

ECN-4072: Incorrect resutls for indexed move when using -n and -Za together for complilation

Type of Change: Correction

Incidents: none

RPI Number: 1077107

Module: compiler

Machines Affected: all

Known Versions Affected: 9.0 and prior

Description of problem or enhancement

Programs compiled with compiler options of native (-n) and -Za show incorrect results while performing indexed moves.

ECN-4073: Backspace and ACCEPT_AUTO not working in an HP MPE environment

Type of Change: Correction

Incidents: 2446945

RPI Number: 1077269

Module: Runtime

Machines Affected: All Unix machines using an HP MPE environment

Known Versions Affected: All

Description of problem or enhancement

When using an HP MPE environment and using the following compiler options:

```
-Ca -Cp
```

with the following configuration options:

- `ACCEPT_AUTO 1`
- `ACCEPT_TIMEOUT 5`
- `USE_MPE_REDIRECTION 1`

the backspace key does not work and the ACCEPT statement is not automatically terminated when the data item is full. Here is what should happen:

- The backspace key should not count toward the ACCEPT_AUTO characters. For example, if the data item is four characters and you type three characters and a backspace, the backspace should not cause the ACCEPT to automatically terminate.
- The backspace should move the cursor backward but should not remove the character from the screen.
- The backspace should remove the character from the resulting data item.

ECN-4075: Native code compiled program causing memory access violation change

Type of Change: Correction

Incidents: none

RPI Number: 1077234

Module: compiler

Machines Affected: All

Known Versions Affected: 9.0

Description of problem or enhancement

Native code compiled program causes Memory Access Violation. This issue is related to FAST_SIGN_DECODE introduced in ECN 3945.

ECN-4077: Acuthin grid and EVENT-ACTION-TERMINATE

Type of Change: Correction

Incidents: none

RPI Number: 1077476

Module: Acuthin

Machines Affected: All

Known Versions Affected: 8.1.3 and 9.0

Description of problem or enhancement

Forced termination of an event in the message-finish-entry event of the grid causes before and after procedures to stop working.

ECN-4078: Runtime core dumps when using -ga option with ACU_DUMP turned on

Type of Change: Correction

Incidents: none

RPI Number: 1076325

Module: runtime

Machines Affected: HP-UX 11.31 (64-bit) IA-64

Known Versions Affected: 9.0 and prior

Description of problem or enhancement

Create a sample program that has a pointer variable declared but not initialized. Attempt to open a file that does not exist so that the program will abort. Compile the program with -Ga option to allow for symbol dump Run the program with ACU_DUMP set to 1 to create a abend report It will be seen that a core dump occurs.

ECN-4079: : AcuGT process grabs focus from other applications

Type of Change: Correction

Incidents: none

RPI Number: 1077092

Module: runtime

Machines Affected: Windows

Known Versions Affected: 9.0 and prior

Description of problem or enhancement

A VB6 application in a loop timer continuously creates a new AcuGT object approximately every 10 seconds. In between, the application calls a cobol program and also issues a DoEvents vb command. The user switches to a different application such as Wordpad. Everytime the AcuGT object gets created, the focus is lost from the external application and returns after a few seconds when the AcuGT object is destroyed.

ECN-4084: ACCEPT_AUTO sometimes corrupts data in an HP MPE environment

Type of Change: Correction

Incidents: 2497100

RPI Number: 1077833

Module: Runtime

Machines Affected: All Unix machines using an HP MPE environment

Known Versions Affected: All

Description of problem or enhancement

When using an HP MPE environment and using the following compiler options:

```
-Ca -Cp
```

with the following configuration options:

- `ACCEPT_AUTO 1`
- `ACCEPT_TIMEOUT 5`

the ACCEPT statement might overwrite other data in working storage.

ECN-4085: Improvement to AcuThin in --wait mode

Type of Change: Enhancement

Incidents: none

RPI Number: none

Module: AcuThin

Machines Affected: Windows

Known Versions Affected: All

Description of problem or enhancement

When using thin client for remote debugging the only way to shut down acuthin while waiting for a remote session to connect was to use the Task Manager. This mode is enhanced to show an icon in the system tray. Right-click the icon to display a popup menu that allows you to shut down acuthin cleanly.

ECN-4086: Slow performance displaying many controls on a tab when using themes

Type of Change: Correction

Incidents: 2496918

RPI Number: 1077882

Module: Runtime GUI

Machines Affected: Windows

Known Versions Affected: 9.0.0

Description of problem or enhancement

Displaying many controls on a tab control when using Windows themes was slow.

ECN-4087: Display of window causes incorrect results in math

Type of Change: Correction

Incidents: none

RPI Number: 1078156

Module: runtime

Machines Affected: All

Known Versions Affected: 8.1.1 to 8.1.3

Description of problem or enhancement

Introducing a display statement before a compute statement causes incorrect results in some cases.

ECN-4088: RMNet for extend

Type of Change: Enhancement

Incidents: none

RPI Number: none

Module: RMNet

Machines Affected: All

Known Versions Affected: 9.1.0

Description of problem or enhancement

RMNet is a library of subprograms that give a COBOL application the ability to send messages and receive responses using HTTP (Hypertext Transfer Protocol). Using this library, an application will be able to communicate with a Web Service, including a BIS application.

INSTRUCTIONS for use:

In general, it is best to use RMNet in conjunction with XML Extensions to actually construct the outbound message and interpret the return message. For an example, see sample/rmnet, TempConvert.cbl. There is also a tutorial in the sample/rmnet directory named RMNet.pdf.

ECN-4093: NUMERIC test fails with native code

Type of Change: Correction

Incidents: 2504165

RPI Number: 1078462

Module: cblutil

Machines Affected: All

Known Versions Affected: 8.0 and later

Description of problem or enhancement

When using the --fast-refmod compile option, and native code, testing for NUMERIC data would sometimes fail when it should pass.

ECN-4094: Looking up printers were case sensitive

Type of Change: Correction

Incidents: 245244

RPI Number: none

Module: atermmgr.dll

Machines Affected: Win32

Known Versions Affected: All

Description of problem or enhancement

A previously installed printer gets deleted and then reinstalled. For the initial installation, the printer were named acmexyz, after the reinstallation the printer were now named AcmeXYZ. Because the application had the original printer names installed and stored, it would reuse the old name, and as the WINPRINT opcodes were case sensitive they would no longer match, albeit the name was the same, but with different casing. With 9.1.0, there will no longer be case sensitive compares.

ECN-4095: Incorrect COMP-3 addition (native code)

Type of Change: Correction

Incidents: none

RPI Number: 1078633

Module: cbltutil

Machines Affected: All

Known Versions Affected: 7.3.0 and later

Description of problem or enhancement

On Sparc and other non-Intel processors, it was possible for the addition of two COMP-3 numbers to produce incorrect results under the following conditions:

- compiled for native code
- the addition is of one COMP-3 number into another
- indexing is used

- one of the values is positive and the other negative

The error was due to the optimization of the index handling.

ECN-4096: Memory access violation displaying a character LITST BOX on UNIX

Type of Change: Correction

Incidents: 2507956

RPI Number: 1078769

Module: runtime

Machines Affected: All UNIX

Known Versions Affected: all

Description of problem or enhancement

When displaying a character LIST BOX on UNIX you may get a memory access violation or unpredictable results.

ECN-4097: $DEFINE macro not expanding if using ANSI format or multiple lines

Type of Change: Correction

Incidents: 2509428

RPI Number: 1078834

Module: compiler

Machines Affected: All UNIX

Known Versions Affected: all

Description of problem or enhancement

When using the `$DEFINE` macro it does not expand the macro into its definition if using ANSI format or if the macro definition is on more than one line. For example, the following multi-line definition does not work: `$DEFINE %Macro = DISPLAY "WORKED!".#` but the following single line definition does work: `$DEFINE %Macro = DISPLAY "WORKED!".#` In addition, if you use terminal format the following does work: `$DEFINE %Macro = DISPLAY "WORKED!".#.`

ECN-4100: Wrong help message

Type of Change: Correction

Incidents: none

RPI Number: none

Module: compiler

Machines Affected: All

Known Versions Affected: 8.0 and later

Description of problem or enhancement

With ECN 3844, XFD files were written in XML format by default. However, the help message hasn't changed from what it was when -Fe meant to create XFD files in XML format.

ECN-4101: I$IO fails in some situations

Type of Change: Correction

Incidents: 2514469

RPI Number: 1079234

Module: runtime

Machines Affected: All

Known Versions Affected: 9.1.0 and later

Description of problem or enhancement

Calling I$IO after doing standard COBOL file operations sometimes fails with an error NO_SUPPORT. This normally happens on a START.

ECN-4102: Memory error returning an object from C $JAVA

Type of Change: Correction

Incidents: 2513670

RPI Number: 1079328

Module: runtime

Machines Affected: All

Known Versions Affected: 8.1.2 to 9.0.1

Description of problem or enhancement

ECN-3965 introduced a memory error when returning a Java object from C$JAVA.

ECN-4103: Japanese characters mis-translated to UPPER on some machines

Type of Change: Correction

Incidents: 2502522

RPI Number: 1079277

Module: runtime

Machines Affected: All

Known Versions Affected: some UNIX

Description of problem or enhancement

On UNIX machines with char as a signed type, non-ASCII characters to UPPER or LOWER could be translated incorrectly. Note that HP-UX is one such machine.

ECN-4104: Acuthin fails to halt on 64bit Windows

Type of Change: Correction

Incidents: 2516631

RPI Number: 1079662

Module: Acuthin

Machines Affected: Windows

Known Versions Affected: all

Description of problem or enhancement

When a COBOL program shuts down through an event procedure, the thin client may fail to halt, consuming machine resources until it's killed through the Task Manager.

ECN-4105: : C$PARSEXFD fails to supply 16th key segment information

Type of Change: Correction

Incidents: 2517820

RPI Number: 1079498

Module: runtime

Machines Affected: all

Known Versions Affected: all

Description of problem or enhancement

C$PARSEXFD fails to return information on the 16th key segment when called with PARSEXFD-GET-FIELD-INFO.

ECN-4106: ISO-8859-1 encoding fails with C$XML

Type of Change: Correction

Incidents: 2518305

RPI Number: 1079755

Module: runcbl

Machines Affected: All

Known Versions Affected: 9.0.0 and later

Description of problem or enhancement

When setting the encoding of an XML file to ISO-8859-1, adding ISO characters to the file, and writing to the file, the output uses UTF-8 characters instead of ISO-8859-1 characters.

ECN-4108: C$LISTDIRECTORY fails to provide file information

Type of Change: Correction

Incidents: 2522904

RPI Number: 1079859

Module: runtime

Machines Affected: all UNIX

Known Versions Affected: 9.0.0 and later

Description of problem or enhancement

C$LISTDIRECTORY is supposed to return information about files it returns, such as size, type, dates, etc. It was failing to do this on UNIX machines, specifically those that have the opendir() function.

ECN-4109: MAV in C$XML if a zero-length attribute parsed

Type of Change: Correction

Incidents: 2520044

RPI Number: 1079686

Module: runtime

Machines Affected: All

Known Versions Affected: all

Description of problem or enhancement

If an attribute in an XML file has a zero-length value (as in my-attr=""), the runtime will MAV.

ECN-4110: NEXT SENTENCE inside SEARCH or EVALUATE causes compiler error

Type of Change: Correction

Incidents: 2453601

RPI Number: 1074508

Module: compiler

Machines Affected: All

Known Versions Affected: 7.0 and later

Description of problem or enhancement

When NEXT SENTENCE is a sentence in the WHEN clause of an EVALUATE or SEARCH, and if a verb used previously allows (but didn't necessarily have) a NEXT SENTENCE phrase, the compiler returns an error.

ECN-4113: Converting floating point literal string could fail

Type of Change: Correction

Incidents: None

RPI Number: 1079911

Module: runtime

Machines Affected: All

Known Versions Affected: 8.0.0 and later

Description of problem or enhancement

Converting a string containing a negative floating point literal with extra spaces after the literal would result in the value being converted as zero. To work around this, eliminate the extra space after the literal.

ECN-4114: Web Thin Client crashes on second instance when using the same process

Type of Change: Correction

Incidents: None

RPI Number: 1079876

Module: Web Thin Client

Machines Affected: Windows

Known Versions Affected: All

Description of problem or enhancement

When running the Web Thin Client and you do the following:

- Duplicate the Web Thin Client tab
- Close the duplicated tab
- Duplicate the Web Thin Client tab again

You will get the following error in a pop-up window:
Microsoft Windows Internet Explorer has stopped working -> Check online for a solution and close the program -> Close the program -> Debug the program

Instead it should display the following message in the tab of the duplicated window:
ACUCOBOL-GT Web Thin Client may only be loaded once

ECN-4115: NetDefGen gives error: ilasm.exe Event Handler Compilation Failed

Type of Change: Correction

Incidents: None

RPI Number: 1079576

Module: NetDefGen

Machines Affected: Windows

Known Versions Affected: All

Description of problem or enhancement

With some .NET assemblies that have generic types when running NetDefGen, you may get an error similar to the following when pressing the "Generate Copy File" button:
C:\Windows\Microsoft.NET\Framework\v2.0.50727\ilasm.exe Event Handler Compilation Failed

ECN-4117: .NET framework 4.0 support

Type of Change: Enhancement

Incidents: None

RPI Number: None

Module: runtime

Machines Affected: Windows

Known Versions Affected: N/A

Description of problem or enhancement

The runtime has been updated to provide support for .NET 4.0.

INSTRUCTIONS for use:

The runtime now loads the 4.0 CLR when executing .net assemblies, in particular, version 4.0.30319.

Acu4GL ECN List

This section includes the ECNs relating to Acu4GL:

ECN-GL472: A second process deleting a record can result in not all records being returned to the first process in some conditions.

Type of Change: Correction

Incidents: none

RPI Number: 1075176

Module: Oracle

Machines Affected: All

Known Versions Affected: All

Description of problem or enhancement

If an application performs a sequence of READ NEXT operations and a second process deletes one of the records in the result set currently being processed, an end of file status may be erroneously returned in some conditions. This only happens if a record in the result set currently being processed is deleted and the key does not have any additional fields to process that would trigger the interfaces drop-down logic.

ECN-GL476: A_MSSQL_FAST_ACCESS can cause loss of all record locks when file closed

Type of Change: Correction

Incidents: None

RPI Number: 1075374

Module: MSSQL

Machines Affected: All

Known Versions Affected: Unknown

Description of problem or enhancement

Applications using the configuration variable _MSSQL_FAST_ACCESS may lose all record locks on all connections when a file is closed.

ECN-GL478: Acu4GL memory or segmentation fault when the program exits

Type of Change: Correction

Incidents: None

RPI Number: 577282

Module: All

Machines Affected: All

Known Versions Affected: All

Description of problem or enhancement

On some systems, such as HP-UX Itanium, when using some of the Acu4GL systems, such as DB2, the runtime exits with an error such as:

"Memory fault(coredump)"

or:

> Program received signal SIGSEGV, Segmentation fault si_code: 1 - SEGV_MAPERR - Address not mapped to object.
> 0x2000000077163c80:0 in __exit_handler+0x80 () from /usr/lib/hpux32/libc.so.1

This happens because there is a bug in the 4GL library, for example:

`db91inst/sqllib/lib32/libdb2.so`

The runtime loads the 4GL library. When the initialization is complete, it registers an exit handler function. Before the runtime exits, the shared library is unloaded and when the exit function tries to execute the 4GL exit handler, it no longer exists, resulting in a memory or segmentation fault error.

These errors have only been seen on an HP-UX Itanium system using `libdb2.so`. A bug report has been submitted to IBM regarding this error because the library, `libdb2.so`, is an IBM library.

ECN-GL484: READ NEXT after START could read the wrong record

Type of Change: Correction

Incidents: 2502883

RPI Number: 1078330

Module: MSSQL

Machines Affected: Windows

Known Versions Affected: 8.0.0 and later

Description of problem or enhancement

If the first time a program does a `START GREATER THAN` with a particular key, and one of the key segments of that key started with `LOW-VALUES`, the interface generates the incorrect SQL, in such a way that subsequent `START GREATER THAN` on that key is executed as `START NOT LESS`. Respectively, if a key segment started with `HIGH-VALUES`, and the COBOL program executed `START LESS THAN`, subsequent `START LESS THAN` is executed as `START NOT GREATER`.

ECN-GL485: Acu4GL for MSSQL error 9D,22007 when trigger has PRINT statement

Type of Change: Correction

Incidents: 2497994

RPI Number: 1077977

Module: MSSQL

Machines Affected: All

Known Versions Affected: 8.x.x, 9.0.x

Description of problem or enhancement

If you have a *PRINT* statement in an SQL trigger for example:

```
USE techdb      IF EXISTS (SELECT name FROM sysobjects WHERE name =
'test2497994_trg' AND type = 'TR') DROP TRIGGER test2497994_trg      GO CREATE
TRIGGER test2497994_trg ON test2497994 FOR INSERT, UPDATE, DELETE AS PRINT
N'---->>>> This PRINT will cause a 9D error.'      GO
```

The use of the *PRINT* statement in this trigger causes error 9D,22007 because the execution returns *SQL_SUCCESS_WITH_INFO* where the info is the output of the *PRINT* statement and the runtime treated this return status as an error.

ECN-GL488: Some data may be incorrect if WHEN condition is used in programs changing reading direction

Type of Change: Correction

Incidents: none

RPI Number: 1061080

Module: Oracle

Machines Affected: all

Known Versions Affected: all

Description of problem or enhancement

If a COBOL program *) Has a file description containing various record definitions *), use the .XFD WHEN. directive *) Has an alternate key composed of multiple segments *) Changing reading direction back and forth with READ NEXT/ READ PREVIOUS, incorrect data may be returned in some fields.

ECN-GL490: Potential memory access violation working with very large keys

Type of Change: Correction

Incidents: none

RPI Number: 1079823

Module: Oracle

Machines Affected: All

Known Versions Affected: All

Description of problem or enhancement

There is a potential memory access violation working with very large keys. When processing files with very large or many segmented keys, it is possible to receive a memory access violation. This is more likely if many of the key segments contain spaces. Micro Focus has now increased the size of the internal buffers and taken steps to prevent overrun. The format of the key information in a trace file has also been modified. Each key filed will be printed on a single line and will have the format: field_name = [field-value] Spaces in the field value will now be printed as a space character ' ' instead of the hex value 0x20. This will make it easier for you to copy test values into interactive SQL processors to test queries.

ECN-GL491: Changing read direction after an "at end" condition will cause the previously read record to be skipped

Type of Change: Correction

Incidents: None

RPI Number: 1080086

Module: MSSQL

Machines Affected: All

Known Versions Affected: All

Description of problem or enhancement

When reading a file with read next/previous and after hitting the end of the file, the last record read will be skipped if you change direction.

AcuConnect ECN List

This section includes the ECNs relating to AcuConnect:

ECN-AC091: 64-bit acurcl can't detect administrator

Type of Change: Correction

Incidents: 2285266

RPI Number: 1069467

Module: acurcl

Machines Affected: Windows

Known Versions Affected: all

Description of problem or enhancement

The 64-bit acurcl.exe fails to detect when a user is a member of an Administrator group, not allowing the user to update the service info or access info.

AcuSQL ECN List

This section includes the ECNs relating to AcuSQL:

ECN-SQL126: Returning error results when no errors exist

Type of Change: Correction

Incidents: None

RPI Number: None

Module: esqllib

Machines Affected: All

Known Versions Affected: All

Description of problem or enhancement

There have been a few reports about crashes in AcuSQL that Micro Focus have not been able to reproduce. After an analysis of the resulting core file, development have some ideas about what might be failing. However, not being able to reproduce the crashes, these fixes may not work when implemented on user systems.

This ECN attempts to address the crashes by implementing the fixes resulting from the analysis. The new code may or may not fix the issue.

ECN-SQL132: Fail to disconnect from database on DISCONNECT

Type of Change: Correction

Incidents: None

RPI Number: 1077549

Module: asqlsrvr.dll

Machines Affected: Windows

Known Versions Affected: 8.0.0 and later

Description of problem or enhancement

When a COBOL program executes an `SQL EXEC DISCONNECT END-EXEC`, all memory is freed, but the SQL Server interface fails to disconnect the program from the database. When the runtime exits, all connections close by the system automatically.

ECN-SQL133: Unable to insert data from COBOL programs with DECIMAL IS COMMA

Type of Change: Correction

Incidents: 2446945

RPI Number: 1078510

Module: asqlsrvr.dll

Machines Affected: Windows only

Known Versions Affected: 8.0.0 and later

Description of problem or enhancement

When a COBOL program has a special names item *DECIMAL IS COMMA*, it is unable to write decimal data to SQL Server.

AcuXDBC ECN List

This section includes the ECNs relating to AcuXDBC:

ECN-XD062: AcuXDBC for 64-bit Windows

Type of Change: Enhancement

Incidents: None

RPI Number: None

Module: AcuXDBC

Machines Affected: Windows

Known Versions Affected: 9.1.0

Description of problem or enhancement

AcuXDBC is now available for the 64-bit Windows operating system.

INSTRUCTIONS for use:

Run the 64-bit AcuXDBC installer to setup AcuXDBC for 64-bit Windows onto your system.

> **Note:** The 64-bit Windows system contains two versions of the Microsoft Open Database Connectivity (ODBC) Data Source Administrator tool. The 64-bit version of the ODBC Administrator is located in the standard location in the Control panel under Administrative tools. This Data Source Administrator is actually a 64-bit driver manager. For your convenience, the installer will create a shortcut to the 64-bit ODBC Data Source Administrator tool in the AcuXDBC program group on the start menu.

The 64-bit Windows operating system also includes a 32-bit driver manager available for administrating 32-bit datasources.

To start up this driver, you must run it individually from a command prompt or create a custom shortcut.

The two drivers can be run individually:

- The 32-bit version of the ODBC Administrator is located at `%WINDIR%\SysWOW64\odbcad32.exe`
- The 64-bit version of the ODBC Administrator is located at `%WINDIR%\System32\odbcad32.exe`

The 32-bit version of the ODBC Administrator tool displays 32-bit SYSTEM DSNs, 32-bit USER DSNs, and 64-bit USER DSNs.

The 64-bit version of the ODBC Administrator displays 64-bit SYSTEM DSNs, 32-bit USER DSNs, and 64-bit USER DSNs.

The USER DSNs for both 32-bit and 64-bit will be display for both Driver Managers even though the bit size of the driver must match the bit size of the executable calling it. This occurs because Windows uses registry redirection for the "HKEY_CURRENT_USER\Software\ODBC\ODBC.INI" registry key.

The registry redirection causes all USER DSNs to be listed when either ODBC administrator is invoked. Registry redirection does not occur for SYSTEM DSNs. The SYSTEM DSNs for 32-bit drivers and for 64-bit drivers are separated.

If a 64-bit application tries to use a USER data source created in the 32-bit ODBC Administrator, it will not be able to load the ODBC driver. Similarly, if a 32-bit application tries to use a USER data source created in the 64-bit ODBC Administrator, it also will be unable to load the ODBC driver.

ECN-XD063: Numeric field with sign is separate clause off by factor of 10

Type of Change: Correction

Incidents: none

RPI Number: 1065727

Module: AcuXDBC

Machines Affected: Windows

Known Versions Affected: 9.1.0

Description of problem or enhancement

If AcuXDBC reads a numeric field described with the SIGN IS LEADING/TRAILING SEPARATE and that sign character is a space, the resulting number is off by a factor of 10. For example if a field should have the value "+11.25" but instead contains " 11.25" the value 1.25 is returned.

ECN-XD064: Field in a true when condition may not be filled in

Type of Change: Correction

Incidents: none

RPI Number: none

Module: AcuXDBC

Machines Affected: Windows

Known Versions Affected: 9.1.0

Description of problem or enhancement

Data files using the .WHEN. directive may not have all fields subjected to a true condition filled in.

ECN-XD065: xdbcutil -u will return an error if the table does not exist in the catalog

Type of Change: Enhancement

Incidents: None

RPI Number: 1077300

Module: AcuXDBC

Machines Affected: Windows

Known Versions Affected: 9.1.0

Description of problem or enhancement

The utility xdbcutil has an option "-u" that will update the table definitions from XFD files. This option is also used to clean up the definition of the table in the system catalog should they become damaged. If the table did not exist in the system catalog, this option would function the same as the "-a" option and just add the file.

The utility now will now issue the error message `"Error: Table <tablename> is not already defined"` and exit.

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*. 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 Product Support 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 Software Support Identification Number (SHIN) if you have one (not used in all countries).
- 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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