User Interface - Bug #7674

FILL-IN for a character variable: cannot delete an unknown value

08/10/2023 06:28 PM - Vladimir Tsichevski

Status:	Review	**Start date:**	
Priority:	Normal	**Due date:**	
Assignee:		**% Done:**	0%
Category:		**Estimated time:**	0.00 hour
Target version:			
billable:	No	**case_num:**	
vendor_id:	GCD	**version:**	

Description

History

#1 - 08/10/2023 06:31 PM - Vladimir Tsichevski

FILL-IN for a character variable: if the screen-value is set to an unknown value, the screen value is replaced by the ? sign (expected).

Now it is impossible to delete this ? sign neither with the DELETE nor with the BACKSPACE key, which is not expected.

#2 - 08/10/2023 06:42 PM - Vladimir Tsichevski

The boolean StringFormat:unknownValueDisplayed field should handle the situation then no screen buffer is allocated for the screen value, but the ? sign is displayed.

This field is set when when the user presses the ? character.
But this field is **not affected** when the SCREEN-VALUE is set to unknown.

#3 - 08/11/2023 06:44 AM - Vladimir Tsichevski

- Status changed from New to WIP

The fix: set the unknownValueDisplayed value in the StringFormat.CharBuf constructor in case an unknown variable was passed as an argument:

```
      public CharBuf(character varChar, boolean forFieldValue)
      {
         this.forFieldValue = forFieldValue;
         if (!varChar.isUnknown())
         {
            // initialize our buffer of the proper maximum length
            buf = new StringBuilder(maxPresLength);
            String text   = varChar.getValue();
            if (forFieldValue)
            {
               parseFieldValue(text);
            }
            else
            {
               parseScreenValue(text);
            }
         }
         else
         {
            unknownValueDisplayed = true;
         }
      }
```

The corresponding diff:

```
=== modified file 'src/com/goldencode/p2j/ui/client/format/StringFormat.java'
--- src/com/goldencode/p2j/ui/client/format/StringFormat.java    2022-09-08 11:25:35 +0000
+++ src/com/goldencode/p2j/ui/client/format/StringFormat.java    2023-08-11 10:40:10 +0000
@@ -1006,6 +1006,10 @@
                parseScreenValue(text);
             }
          }
+         else
+         {
+            unknownValueDisplayed = true;
+         }
       }

       /**
```

#4 - 08/11/2023 06:46 AM - Vladimir Tsichevski

- Status changed from WIP to Review

Please, review the fix.

#5 - 08/11/2023 09:27 AM - Greg Shah

Is this task related to an existing customer bug? If so, please link them.

#6 - 08/11/2023 09:36 AM - Vladimir Tsichevski

Greg Shah wrote:

> Is this task related to an existing customer bug? If so, please link them.

This issue prevents automating testing of other bugs.

#7 - 08/11/2023 09:56 AM - Greg Shah

Eugenie/Hynek: Please review.

#8 - 08/11/2023 10:24 AM - Eugenie Lyzenko

Greg Shah wrote:

> Eugenie/Hynek: Please review.

I have no objections.

#9 - 08/14/2023 04:51 PM - Hynek Cihlar

To me the change looks suspicious. The change addresses an issue, which is related to the screen-value use case. But CharBuf is used in many other contexts where the unknown value may not be represented with a "?" char. Look in CharBuf.toVar, for buf == null the var is either set to unknown or to "?". Setting the unknownValueDisplayed unconditionally in CharBuf.CharBuf just doesn't seem right. I suggest you do a good amount of regression testing (both ChUI and GUI) before merging this change to trunk.

#10 - 08/14/2023 05:07 PM - Vladimir Tsichevski

Hynek Cihlar wrote:

> To me the change looks suspicious. The change addresses an issue, which is related to the screen-value use case. But CharBuf is used in many other contexts where the unknown value may not be represented with a "?" char. Look in CharBuf.toVar, for buf == null the var is either set to unknown or to "?".

The code you mentioned: I cannot get what does this mean:

```
            if (unknownValueDisplayed)
            {
               varChar.assign("?");
            }

            varChar.setUnknown();
```

The variable is first assigned the ? character value, then is unconditionally reset to unknown. Why is this?

#11 - 08/15/2023 01:14 AM - Hynek Cihlar

Vladimir Tsichevski wrote:

> The variable is first assigned the ? character value, then is unconditionally reset to unknown. Why is this?

This is clearly not correct. But it shows the code execution should likely branch for the representation of unknown value.