User Interface - Bug #2714

Bug # 2677 (New): fix drawing and functional differences between P2J GUI and 4GL GUI

demo/calc.p is broken

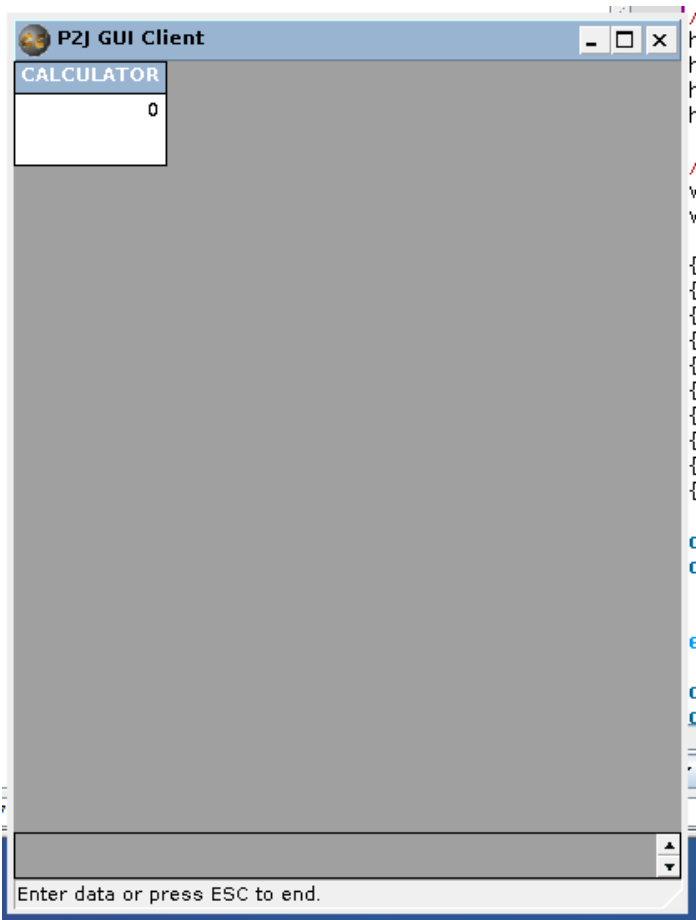09/14/2015 05:18 PM - Greg Shah

Status:	Closed	**Start date:**		
Priority:	Normal	**Due date:**		
Assignee:	Eugenie Lyzenko	**% Done:**	100%	
Category:		**Estimated time:**	0.00 hour	
Target version:	GUI Support for a Complex ADM2 App			
billable:	No	**case_num:**		
vendor_id:	GCD			

Description

History

#1 - 09/14/2015 05:26 PM - Greg Shah

- Target version set to Milestone 12

- File calc.p_p2j_failure_20150914.png added

- File calc.p_in_4gl_20150914.png added

In the trunk revision 10935, running demo/calc.p results in this screen:

There is a flash of a frame that looks pretty close to what should appear and then it is cleared and the result in the image is shown.

Here is what it is supposed to look like:
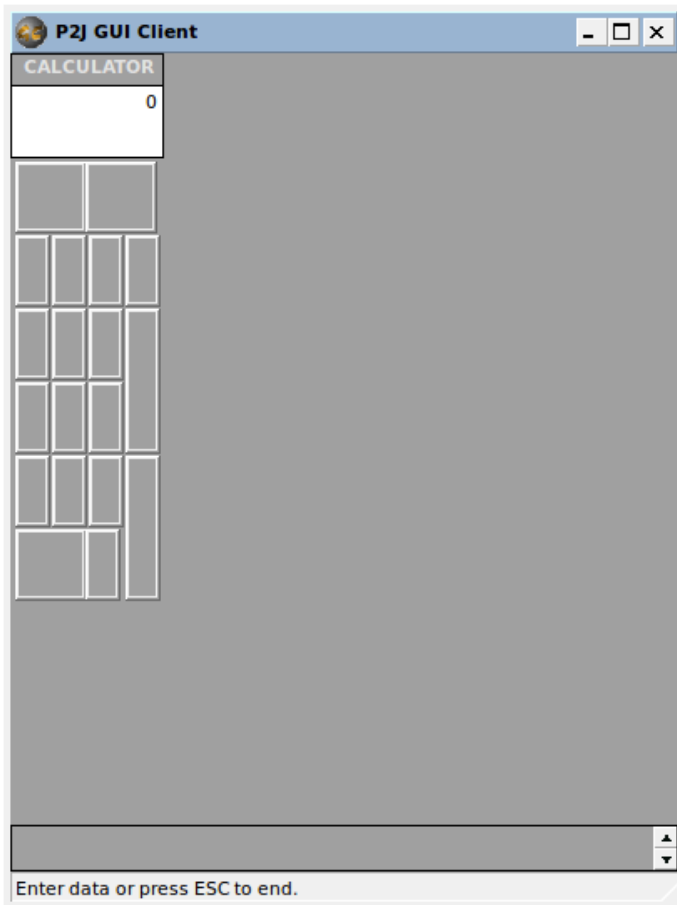
The client log only has this:

```
DRAW: Ignoring event com.goldencode.p2j.ui.client.event.PaintEvent 9 raised while drawing widget com.goldencod
e.p2j.ui.client.gui.ScrollBarGuiImpl with id [-3].
DRAW: Ignoring event com.goldencode.p2j.ui.client.event.PaintEvent 9 raised while drawing widget com.goldencod
e.p2j.ui.client.gui.ScrollBarGuiButton with id [-4].
DRAW: Ignoring event com.goldencode.p2j.ui.client.event.PaintEvent 9 raised while drawing widget com.goldencod
e.p2j.ui.client.gui.ScrollBarGuiButton with id [-5].
DRAW: Ignoring event com.goldencode.p2j.ui.client.event.PaintEvent 9 raised while drawing widget com.goldencod
e.p2j.ui.client.gui.ScrollBarGuiImpl with id [-3].
DRAW: Ignoring event com.goldencode.p2j.ui.client.event.PaintEvent 9 raised while drawing widget com.goldencod
e.p2j.ui.client.gui.ScrollBarGuiButton with id [-4].
DRAW: Ignoring event com.goldencode.p2j.ui.client.event.PaintEvent 9 raised while drawing widget com.goldencod
e.p2j.ui.client.gui.ScrollBarGuiButton with id [-5].
```

There is nothing in the server.log that relates to the failure.

#2 - 09/15/2015 09:06 AM - Greg Shah

- File calc.p_p2j_web_failure_20150914.png added

Interestingly, in the web client (task branch 1181q revision 11008), what is described above as "flashing" of the buttons leaves behind this:

Those "ghost" buttons are not interactive in any way. Somehow the web client doesn't clear or overdraw that area while the swing client does. The Swing client in 1811q revision 11008 acts the same way as the trunk revision 10935.

#3 - 10/14/2015 02:38 PM - Greg Shah

- Assignee set to Eugenie Lyzenko

#4 - 10/15/2015 09:57 PM - Eugenie Lyzenko

- File calc_p2j_20151015.jpg added

Debugging the issue. The situation become event more strange, the screen is attached.

The findings. At least one buggy point I have found. The call to set up calculator frame height/width fails with no respective change in FrameConfig. The 4GL code:

```
frame fcalc:height-pixels = btn0:y + btn0:height-pixels - tfRes:y + 30.
frame fcalc:width-pixels = btnEq:x + btnEq:width-pixels - btn0:x + 6.
```

converted to P2J:

```
fcalcFrame.setHeightPixels(plus(minus(plus(fcalcFrame.widgetBtn0().getY(), fcalcFrame.widgetBtn0().getHeightPi
xels()), fcalcFrame.widgetTfRes().getY()), 30));
fcalcFrame.setWidthPixels(plus(minus(plus(fcalcFrame.widgetBtnEq().getX(), fcalcFrame.widgetBtnEq().getWidthPi
xels()), fcalcFrame.widgetBtn0().getX()), 6));
```


It is happening when server pushes the updated screen definition.
LogicalTerminal, line 11717:

```
...
     WidgetConfig[] wcfgs = locate().client.pushScreenDefinition(screenDef);
...
```

Before this call the screen definition has new correct heightPixels/widthPixels values. But after call the values are undoing to the old ones from client side.

As a result calculator can not place the buttons inside the frame because there is no room space. Continue debugging.

#5 - 10/16/2015 08:43 AM - Greg Shah

I've added Hynek and Constantin as watchers. They may have some ideas.

#6 - 10/16/2015 10:59 AM - Constantin Asofiei

Eugenie, I think the problem is in Frame.postprocess:3145:

```
        else
        {
            adjustDown();
        }
```

The adjustDown() call alters the frame's size.

This is mostly caused by the fact that when setting the frame's width/height via attributes, the BaseConfig.fixedHeight and fixedWidth flags are not set... I don't know why we are not just calling FrameWidget.set[Height/Width][Pixels/Chars] APIs, and use a completely different logic in GenericFrame.set[Height/Width][Pixels/Chars] than in FrameWidget. The FrameWidget APIs are expected to be called when the frame is accessed via a handle, and the FRAME fname:attribute construct calls the GenericFrame versions, but in the end both should do the same thing.

Only exception is that the GenericFrame versions might have logic related to setting up the frame (i.e. in the frame's setup() method in its definition class, from any SIZE options set at the frame in 4GL).

#7 - 10/16/2015 12:04 PM - Eugenie Lyzenko

- File calc_p2j_20151016.jpg added

The main issue is in GenericFrame.set(Width|Height)(Chars|Pixels) methods. If we set the width or height by changing the frame attribute - we have to set the fixed(Width|Height) flag in frame config to true. And this logic was completely missed.

But this is not enough to fix calc.p. Another point is on client side the frameScroll class member. After config update the size of this real container become out of sync. So we have to sync it too by size changing. I'm preparing the update right now to have working calc.p demo.

#8 - 10/16/2015 12:52 PM - Eugenie Lyzenko

- File calc_fix_to_commit_p2j_20151016.jpg added

A bit modified fix(accurate height calculation). Going to commit in 1811s now

#9 - 10/19/2015 06:06 PM - Greg Shah

- Status changed from New to Closed

#10 - 11/10/2015 04:57 AM - Greg Shah

- % Done changed from 0 to 100

#11 - 11/16/2016 12:13 PM - Greg Shah

- Target version changed from Milestone 12 to GUI Support for a Complex ADM2 App

Files

calc.p_p2j_failure_20150914.png	5.36 KB	09/14/2015	Greg Shah
calc.p_in_4gl_20150914.png	4.78 KB	09/14/2015	Greg Shah
calc.p_p2j_web_failure_20150914.png	7.83 KB	09/15/2015	Greg Shah
calc_p2j_20151015.jpg	30.4 KB	10/16/2015	Eugenie Lyzenko
calc_p2j_20151016.jpg	41.9 KB	10/16/2015	Eugenie Lyzenko
calc_fix_to_commit_p2j_20151016.jpg	42.1 KB	10/16/2015	Eugenie Lyzenko

#11 - 11/16/2016 12:13 PM - Greg Shah

- Target version changed from Milestone 12 to GUI Support for a Complex ADM2 App