



This known issue was originally created by **Schoenke** and has been verified by Forum Nokia.

<b>ID</b>	KIJ001079	<b>Creation date</b>	June 12, 2009
<b>Platform</b>	S60 3rd Edition, FP2	<b>Tested on devices</b>	S60 3rd Edition, FP2 Emulator, Nokia 6210 Navigator
<b>Category</b>	Java	<b>Subcategory</b>	LCDUI

## Description

If you add more than 22 CustomItems on a Form, the MIDlet will hang up when calling `Display.setCurrent()` or `Display.setCurrentItem()`. This means that the Form will not be displayed.

In the debugger you can see that one thread hangs in `Form._setCurrentItem()` and another one in `CustomItemTest.handleSizeChanged()`.

## How to reproduce

See the following code snippet. This code works fine in Series 40 and S60 3rd Edition, FP1 emulators; however, start-up in the latter ones is very slow.

For a cross check, comment out approximately 10 `append()` statements and rerun the MIDlet. This way it works.

```
package main;

import javax.microedition.lcdui.Display;
import javax.microedition.midlet.MIDlet;

public class MidletTest extends MIDlet
{

    public void startApp() {
        FormTest frmTest = new FormTest(Display.getDisplay(this));
        frmTest.open(1);
    }

    public void destroyApp(boolean b) {
    }

    /**
     * Pausing is not supported in NOKIA's Series 40 and
```

```

    * S60 MIDP implementations.
    */
    public void pauseApp() {
    }

    public void quit() {
        notifyDestroyed();
    }
}

```

### The Form:

```

package main;

import javax.microedition.lcdui.Display;
import javax.microedition.lcdui.Form;

import main.CustomItemTest;

public class FormTest extends Form {

    private final Display display;

    private final CustomItemTest item00;
    private final CustomItemTest item01;
    private final CustomItemTest item02;
    private final CustomItemTest item03;
    private final CustomItemTest item04;
    private final CustomItemTest item05;
    private final CustomItemTest item06;
    private final CustomItemTest item07;
    private final CustomItemTest item08;
    private final CustomItemTest item09;
    private final CustomItemTest item10;
    private final CustomItemTest item11;
    private final CustomItemTest item12;
    private final CustomItemTest item13;
    private final CustomItemTest item14;
    private final CustomItemTest item15;
    private final CustomItemTest item16;
    private final CustomItemTest item17;
    private final CustomItemTest item18;
    private final CustomItemTest item19;
    private final CustomItemTest item20;
    private final CustomItemTest item21;
    private final CustomItemTest item22;
    private final CustomItemTest item23;
    private final CustomItemTest item24;
    private final CustomItemTest item25;
    private final CustomItemTest item26;
    private final CustomItemTest item27;
    private final CustomItemTest item28;
    private final CustomItemTest item29;

    public FormTest(Display pDisplay) {
        super("test screen");

        this.display = pDisplay;

        this.item00 = new CustomItemTest();
        this.item01 = new CustomItemTest();
        this.item02 = new CustomItemTest();
    }
}

```

```
this.item03 = new CustomItemTest ();
this.item04 = new CustomItemTest ();
this.item05 = new CustomItemTest ();
this.item06 = new CustomItemTest ();
this.item07 = new CustomItemTest ();
this.item08 = new CustomItemTest ();
this.item09 = new CustomItemTest ();
this.item10 = new CustomItemTest ();
this.item11 = new CustomItemTest ();
this.item12 = new CustomItemTest ();
this.item13 = new CustomItemTest ();
this.item14 = new CustomItemTest ();
this.item15 = new CustomItemTest ();
this.item16 = new CustomItemTest ();
this.item17 = new CustomItemTest ();
this.item18 = new CustomItemTest ();
this.item19 = new CustomItemTest ();
this.item20 = new CustomItemTest ();
this.item21 = new CustomItemTest ();
this.item22 = new CustomItemTest ();
this.item23 = new CustomItemTest ();
this.item24 = new CustomItemTest ();
this.item25 = new CustomItemTest ();
this.item26 = new CustomItemTest ();
this.item27 = new CustomItemTest ();
this.item28 = new CustomItemTest ();
this.item29 = new CustomItemTest ();
```

```
append(this.item00);
append(this.item01);
append(this.item02);
append(this.item03);
append(this.item04);
append(this.item05);
append(this.item06);
append(this.item07);
append(this.item08);
append(this.item09);
append(this.item10);
append(this.item11);
append(this.item12);
append(this.item13);
append(this.item14);
append(this.item15);
append(this.item16);
append(this.item17);
append(this.item18);
append(this.item19);
```

```
append(this.item20);
append(this.item21);
append(this.item22);
append(this.item23);
append(this.item24);
append(this.item25);
append(this.item26);
append(this.item27);
append(this.item28);
append(this.item29);
}
```

```
public void open(int pFocus) {
```

```

        display.setCurrentItem(get(pFocus));
    }
}

```

### The CustomItem:

```

package main;

import javax.microedition.lcdui.CustomItem;
import javax.microedition.lcdui.Graphics;

public class CustomItemTest extends CustomItem {

    public CustomItemTest() {
        super("");
    }

    protected void paint(Graphics pGraphics, int pWidth, int pHeight) {
        pGraphics.setColor(0x00ffffaa);
        pGraphics.fillRect(1, 1, pWidth - 2, pHeight - 2);
        pGraphics.setColor(0x00000000);
        pGraphics.drawString("TEST", 0, 0, Graphics.TOP | Graphics.LEFT);
    }

    protected int getMinContentHeight() {
        return 20;
    }

    protected int getMinContentWidth() {
        return 40;
    }

    protected int getPrefContentHeight(int arg0) {
        return 20;
    }

    protected int getPrefContentWidth(int arg0) {
        return 40;
    }
}

```

## Solution

This issue is expected to be fixed in future software versions starting from S60 5th Edition.