

# How does a program detect at runtime whether it is running standalone GUI, thin client or with Web Direct 2.0?

Author: Veryant Support

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To determine where the user interface is running, whether standalone (Java Swing), thin client or in a web browser (Web Direct 2.0), add the following to your program:

```
01 GUI-FACTORY-NAME PIC X(44) VALUE SPACES.
   ^ ^ 88 IS-JAVA-SWING VALUE SPACES.
   ^ ^ 88 IS-WEB-DIRECT-2-0 VALUE
       ^ ^ ^ "com.iscobol.gui.client.zk.GuiFactoryImpl".
   ^ ^ 88 IS-CHARACTER VALUE
       ^ ^ ^ ^ ^ "com.iscobol.gui.client.charva.GuiFactoryImpl".

   ^ ^ ^ ACCEPT GUI-FACTORY-NAME
       ^ ^ ^ ^ ^ FROM ENVIRONMENT "guifactory.class".
```

and then you can test for the UI type using the condition variables. For example, to test for Web Direct 2.0:

```
^ ^ ^ IF IS-WEB-DIRECT-2-0 THEN
   ^ ^ ^ ^ ^ ...
   ^ ^ ^ END-IF.
```

If IS-JAVA-SWING is true then use the following code to determine whether the Java Swing GUI is running locally or remotely via thin client:

```
^ ^ ACCEPT TERMINAL-ABILITIES FROM TERMINAL-INFO
   ^ ^ ^ IF IS-REMOTE THEN
   ^ ^ ^ ^ ^ ...
   ^ ^ ^ END-IF
```