

RETURN TO MAIN MENU

Recital/4GL and Java™

Using Java™ with the Recital/4GL

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Last Updated April, 2004

INTRODUCTION

All Recital products can call Java™ classes residing on the server machine, providing that server is a Java™ enabled platform. This is achieved using the Recital/4GL in Recital Terminal Developer and via the Recital Universal Application Server (UAS) for client products.

DB_CLASSDIR

The DB_CLASSDIR environment variable (set in the file profile.db for character mode products and the file profile.uas for the Universal Application Server) defines the default classes directory. When a request is made to instantiate a new Java™ object, the class file is sought in the directory defined by DB_CLASSDIR. If the class file does not exist in this directory, the objects.ini file is read.

OBJECTS.INI

The objects.ini file is a system-wide definition file for Java™ and other classes. It resides in the directory defined by the environment variable DB_ROOT in the profile.uas/profile.db file. DB_ROOT defines the home directory of the product in question.

The objects.ini file allows Java™ classes to be referred to by a single name from the Recital/4GL, while residing anywhere on the system. For example:

```
# Sample objects.ini file
[jnittest]
type=JNI
progid=/usr/recital/uas/myobjects/jnittest.class
```

The first line defines the name that will be used in the Recital/4GL to refer to the class. The **JNI** type defines the class as a Java™ class and the progid gives the full path for the class.

USING Java™ OBJECTS

The Recital/4GL NEW operator is used to instantiate a new object based on a Java™ class. For example:

```
ojava = new jnittest()
```

Once the object has been instantiated, its properties can be queried or set using the <object>.<property> syntax. For example:

```
? ojava.AVALUE  
hello world
```

Its methods are called using the <object>.<method>() syntax. For example:

```
// Returns parameter1 multiplied by (parameter2 + parameter3)  
? ojava.mIII(2,3,4)  
14
```

The example jnittest Java™ source file is included in the Universal Application Server distribution in the netobjects directory.