

Parallel Crystal

COLD FUSION 5.0
SAMPLE DOCUMENTATION





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Disclaimer

Dynamivery Corporation provides sample source code, screencam movies, and other documentation only as aids for learning specifically about our Parallel Crystal Report Server while providing a general overview of Web Reporting.

These materials are subject to change without notice. We provide them on an "as is" basis without warranty.

Please do not treat them as production quality components to use within your own application without your own comprehensive testing.

Dynamivery recommends that its customers establish separate development, test, and production environments and promote applications and report templates step by step as they prove themselves in each environment, under conditions of realistic test data, network load, database load, and report concurrency.

In addition, Dynamivery recommends that Parallel Crystal is evaluated and operated on server computers that match or exceed the hardware specifications in our Installations Guide and with staff that have experience with the Seagate Crystal Reports Designer, Microsoft Windows NT network administration, and SDK level programming in the Web Application Server with which they are using Parallel Crystal.





Release Notes

This sample has been tested extensively and works without problems under most circumstances. However, there are certain special cases where it may not retain full functionality. The circumstances, environment and suggested resources are documented below:

Environment:

Operating System: Windows NT 4.0 SP 6a

Application Server: Macromedia ColdFusion 5.0

PCRE Version: 2.6/3.6

Other installed components: MDAC 2.5 and Microsoft IIS (from Win NT Option Pack)

Nature of the problem:

The web browser hangs when processing certain requests. The pattern of failure is random. At times, the machine hangs when trying to quit Windows NT.

Possible Cause:

ColdFusion 5.0 has a security manager from a third party vendor. This manager has been known to cause Windows NT to hang on exit. This has also caused us certain problems with Adobe Acrobat Reader and MS IE. If this security manager is disabled, we are confident our product will work without any problems.

Suggested fixes and resources

At this point, we do not have a fix for the problems associated with the security manager. As a workaround, we suggest that you remove the manager from your ColdFusion install. This can be done by running the installation program and removing the "Advanced Security Feature" component.

For more information, please visit these web sites:

Security Manger: www.netegrity.com

ColdFusion: www.macromedia.com





Sample Features

To see what Crystal Reports features are in the Dynalivery downloadable samples please go to this link:
http://www.dynalivery.com/customersupport/faq/Sample_Features.html

Related Topics

Load Balancing

<http://www/products/parallelcrystal/parallelcrystal.doc.html>

<<PATH TO>> ColdFusionSample\Docs **Load Balancing Guide to Installation and Configuration**

Data Source SetUp Guide

<http://www/products/parallelcrystal/parallelcrystal.doc.html>

<<PATH TO>> ColdFusionSample\Docs **Data Source SetUp Guide**

File Return

<http://www.dynalivery.com/customersupport/faq/filereturn.html>

Java API

http://www.dynalivery.com/products/parallelcrystal/v2_6/doc/JavaAPIQuickReference/index.html

Output Types

PDF Output

Adobe Acrobat Reader is needed to view .pdf output. Acrobat Reader is available free at www.adobe.com or can be loaded from the Parallel Crystal CD.

Excell and Word Output

Microsoft Word and Excel are needed to view .doc and .xls output types.





General Configuration Notes

Cold Fusion 5.0

This sample has been written and tested based on Cold Fusion 5.0 with Microsoft IIS server. Earlier versions of ColdFusion may not work with this sample. The sample requires a working installation of ColdFusion 5.0 Application Server. It also assumes that Parallel Crystal is installed on the same machine as ColdFusion.

Installation prerequisites

Before installing and running the sample please review the Data Source Setup Guide and make sure the DSNs have been configured prior to running the sample. Extract the **ColdFusionSample** folder to <<PATH_TO_inetpub>>\wwwroot directory on the ColdFusion server machine.

The **ColdFusionSample\Pcre** directory contains a file named **demos.cfm**, which contains configuration settings for this sample. You should make the following changes to this file:

- Edit line A to state the default output directory for the generated reports on the Cold Fusion e.g. `<cfset OutputDir = "C:\\inetpub\\wwwroot\\ColdFusionSample\\Pcre\\Reports">`
- Edit line B to state the default input directory of the report template files e.g. `<cfset InputDir = "C:\\Progra~1\\Dynamalivery\\Pcre\\SampleReports">`
- Edit line C to state the default URL of the output directory on the Cold Fusion server. Replace "MYPC" with your Cold Fusion server machine name. e.g. `<cfset OutputURL = "http://localhost#cgi.MYPC#/ColdFusionSample/Pcre/Reports">`
- Edit line D to state the DNS of the default report server. Replace "MYPC" with your Cold Fusion server machine name. e.g. `<cfset server="PCRE Server">`
- Edit line E to state the default path of the DORDataFile.dat `<cfset DORDataFilePath = "C:\\inetpub\\wwwroot\\ColdFusionSample\\DORDataFile.dat">`
- Edit line F to state the default data base user name `<cfset UserName = "scott">`
- Edit line G to state the default data base password `<cfset Password = "tiger">`
- Edit line H to state the default path of the images directory `<cfset imageDir = "C:\\inetpub\\wwwroot\\ColdFusionSample\\images">`





Using ColdFusion 5.0 with Parallel Crystal Java API

This demo contains ready to use class files in the `<path_to_ColdFusionSample>\Pcre\java` directory. To run the java client part of the demo, copy the contents of the folder `<path_to_ColdFusionSample>\Pcre\java` to the folder `<path_to_ColdFusion_install>\Java\classes`

The next step is to register these Java classes on the ColdFusion Server

Registering Custom Java Classes on the ColdFusion Server

- Log on to the ColdFusion Server Administrator. This can be found at:
Start -> Programs -> Macromedia ColdFusion Server 5 -> ColdFusion Administrator
- The welcome screen will prompt you for a password. This password is the same password you entered during installation.
- Once you are logged into the server, there is a list of links on the left. Select the "CFX Tags" option under the "Extensions" section.
- Click the "Register Java CFX" Button
- The tag name field should have "CFX_" prefix already assigned. Add "J_PCRE" to it so that the result reads CFX_J_PCRE. In the class name field, type in J_PCRE. Click the Submit changes button.
- Repeat the step above for the J_PCReport class. This means the tag names should read CFX_J_PCReport while the class names should be J_PCReport. Click the Submit changes button.
- Repeat the step above again for the DeleteFiles class. The tag name is CFX_DeleteFiles and the class name is DeleteFiles. Click the Submit changes button.

Configuring Java settings on the ColdFusion server:

- Under the "Extensions" section, click the "JVM and Java Settings".
- Do **NOT** check the "Load JVM when starting ColdFusion" check box.
- In the Java Virtual Machine Path field, enter the exact path to the JDK 1.2.x jvm.dll (For a default install of JDK 1.2.2 this should be **C:\jdk1.2.2\jre\bin\classic\jvm.dll**)
- In the classpath field, enter the following paths with a semicolon (;) between each entry:
`<path_to_ColdFusion_install>Java\classes;`
`<path_to_Dynalivery>\Pcre\jars\PCREJavaClient.jar;`
`<path_to_Dynalivery>\Pcre\jars\PCREJavaClient_SunStubs.jar;`
`<path_to_ColdFusionSample>\ReportTag.jar;`
`<path_to_ColdFusionSample>\sample_util.jar;`
`<path_to_ColdFusionSample>\pcre.properties`
- Ensure that the CFX Jar Path field reads **C:\CFusion\Java\classes**
- Click the Submit changes button.
- Restart the ColdFusion Application Server service using the Control Panel





Load Balancing

For detailed information on Load Balancing please review the "Load Balancing Guide to Installation and Configuration." It can be found at the link below on our website as well as in the <<PATH TO>> ColdFusionSample\Docs directory.

<http://www.dynalivery.com/products/parallelcrystal/parallelcrystal.doc.html>

To test load balancing, you must modify the <path to ColdFusionSample>\pcre.properties file to contain all of the machine names in the channel.

Running the Demo

Please review the Data Source Setup Guide and make sure the DSNs have been configured prior to any attempt at running the sample.

- Start Parallel Crystal from the Start Menu and run in desktop mode.
- Make sure that the ColdFusion service has been restarted since the last change was made in any of its settings.
- Point your browser to the following address:

<http://<Host Name>/ColdFusionSample/Pcre/index.html>

