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java.lang.NoClassDefFoundError: How to resolve – Part 1

6/08/2012 PIERRE-HUGUES CHARBONNEAU [50 COMMENTS](#)

Exception in thread "main" java.lang.NoClassDefFoundError is one of the most common and difficult problems that you can face when developing Java EE enterprise or standalone Java applications. The complexity of the root cause analysis and resolution process will depend of the size of your Java EE middleware environment, especially given the high number of class loaders present across the various Java EE applications.

What I'm proposing to you is a series of articles which will provide you with a step by step approach on how to troubleshoot and resolve such problem. I will also share the most common Java NoClassDefFoundError problem patterns I have observed over the last 10 years. Sample Java programs will also be available in order to simplify your learning process. I also encourage you to post comments, share your problem case and ask me any question on this subject.

The part 1 of the series will focus on a high level overview of this Java runtime error along with a Java ClassLoader overview.

java.lang.NoClassDefFoundError – what is it?

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Now let's begin what a simple overview of this problem. This runtime error is thrown by the JVM when there is an attempt by a ClassLoader to load the definition of a Class (*Class referenced in your application code etc.*) and when such Class definition could not be found within the current ClassLoader tree.

Basically, this means that such Class definition was found at compiled time but is not found at runtime.

Simple enough, what about adding the missing Class to the classpath?

Well not so fast, this type of problem is not that simple to fix. Adding the missing Class / JAR to your runtime application classpath / ClassLoader is just one of the many possible solutions. The key is to perform proper root cause analysis first. This is exactly why I'm creating this whole series.

For now, just keep in mind that this error does not necessarily mean that you are missing this Class definition from your "expected" classpath or ClassLoder so please do not assume anything at this point.

Java ClassLoader overview

Before going any further, it is very important that you have a high level of understanding of the Java ClassLoader principles. Quite often individuals debugging NoClassDefFoundError problems are struggling because they are lacking proper knowledge and understanding of Java ClassLoader principles; preventing them to pinpoint the root cause.

A class loader is a Java object responsible for loading classes. Basically a class loader attempts to locate or generate data that constitutes a definition for the class. One of the key points to understand is that Java class loaders by default use a *delegation* model to search for classes. Each instance of ClassLoader has an associated parent class loader. So let's say that your application class loader needs to load class A. The first thing that it will attempt to do is to *delegate* the search for Class A to its parent class loader before attempting to find the Class A itself. You can end up with a large class loader chain with many parent class loaders up to the JVM system classpath bootstrap class loader.

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ABOUT THE AUTHOR



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P-H is an IT Architect currently working for CGI Inc. in Canada. He has 15 years+ of experience developing and troubleshooting Java & Web enterprise systems. Email: phcharbonneau@hotmail.com.

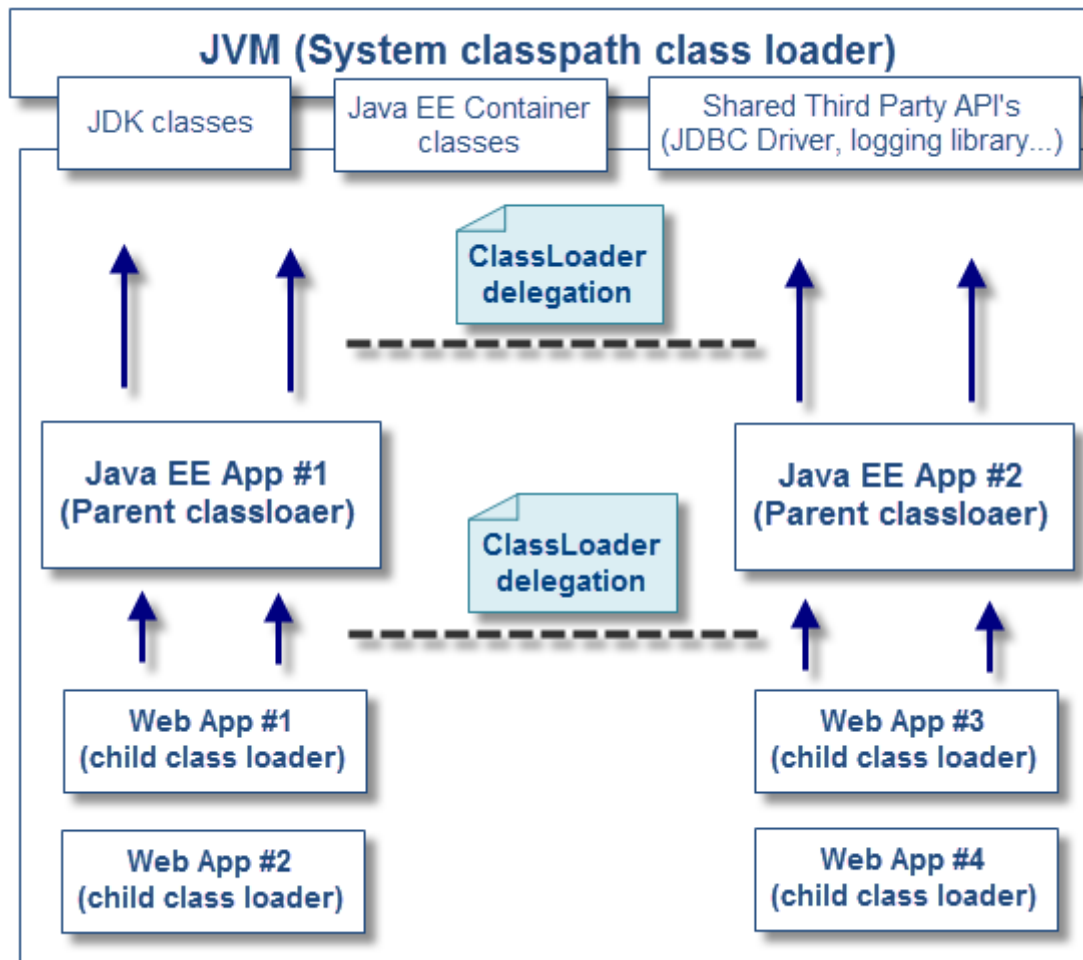
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What is the problem? Well if Class A is found from a particular parent class loader then it will be loaded by such parent which open the doors for NoClassDefFoundError if you are expecting Class A to be loaded by your application (child) class loader. For example, third part JAR file dependencies could only be present to your application child class loader.

Now let's visualize this whole process in the context of a Java EE enterprise environment so you can better understand.



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As you can see, any code loaded by the child class loader (Web application) will first delegate to the parent class loader (Java EE App). Such parent class loader will then delegate to the JVM system class path class loader. If no such class is found from any parent class loader then the Class will be loaded by the child class loader (assuming that the class was found).

Please note that Java EE containers such as Oracle Weblogic have mechanisms to override this default class loader delegation behavior. I will get back to this in the future articles.

Please feel free to post any comment or question of what you learned so far.
The [java.lang.NoClassDefFoundError: How to resolve – Part 2](#) is now available.

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50 comments:



Javin says:

June 12, 2012 at 8:31 AM

Hi P-H, yet again great post. I think key to work with this error is good knowledge of [How Classpath works in Java](#) and Classloaders. I have seen many programmer not able to differentiate between NoClassDefFoundError and [ClassNotFoundException](#) which adds into nightmare. I can say Core Java is little bit different than J2EE where Classloader comes lot more in picture.

Reply



P-H says:

June 12, 2012 at 1:29 PM

Thanks Javin for our comments and sharing,

You are totally correct. Good knowledge on Classloaders, especially in the JavaEE space is very

important.

P-H

Reply



safik says:

June 14, 2012 at 2:57 PM

It is very useful. Waiting for the next part.
Safik

Reply



P-H says:

June 14, 2012 at 4:42 PM

Thanks Safik,

The part 2 will follow shortly.

Regards,
P-H

Reply



Anonymous says:

August 8, 2012 at 10:53 AM

Hello sir,
I am developing an application in which i am using android plugins developed in Eclipse IDE. I have created two classes, first is the main activity class and second is a service class. But when i export and extract the JAR file; it only shows the main activity class (and not the service class) and when i use this plugin in my application it shows the following error:
=> java.lang.NoClassDefFoundError

Note:1)for plugin development i am using Eclipse.
2)i have entered both classes in android manifest file.
3)both classes are in the same package.

how can i fix this?
Thanks in advance.

Reply



P-H says:

August 9, 2012 at 8:21 AM

Hi Anonymous,

It looks like that your export process is not properly packaging your service class. Since at runtime your main activity class is looking for your service class, `java.lang.NoClassDefFoundError` will be thrown since the runtime reference of this class is not found.

Can you please open your exported JAR file and let me know what you see? You can also try to manually create your JAR file e.g. simply grab your missing service class from the generated Eclipse output folder and add it back to the exported JAR file.

Regards,
P-H

Reply



praneeth says:

September 5, 2012 at 2:20 AM

hai P-H i was just a beginner core java, at the beginning our teacher asked us to put path environment variable using system settings and i put "E:\Program Files\Java\jdk1.6.0\bin;" this path value, instead of setting path every time,
@ that time i dint face any problem i can execute my program easily...

now the thing is i am getting "java.lang.noclassdeffounderror" main thread exception! i cant

even able 2 execute previously programs!!
can u plz helm me out

Reply



P-H says:

September 5, 2012 at 9:53 AM

Hi Praneeth,

Can you please share the full StackTrace of your java.lang.noclassdeffoundererror?

It's likely a classpath problem e.g. some code dependencies not properly added to the runtime classpath.

Thanks.

P-H

Reply



Anonymous says:

September 18, 2012 at 8:03 PM

excellent web site with tons of useful information. Keep up the good work.

Reply



Anonymous says:

October 10, 2012 at 6:46 AM

hi,

I have checked out a project from our CVS repository and trying to run. But it shows the following error:

Exception in thread "main" java.lang.NoClassDefFoundError:
com/sankya/itech/dao1/CustomersDAO

Caused by: java.lang.ClassNotFoundException: com.sankya.itech.dao1.CustomersDAO
at java.net.URLClassLoader\$1.run(URLClassLoader.java:217)
at java.security.AccessController.doPrivileged(Native Method)
at java.net.URLClassLoader.findClass(URLClassLoader.java:205)
at java.lang.ClassLoader.loadClass(ClassLoader.java:323)
at sun.misc.Launcher\$AppClassLoader.loadClass(Launcher.java:294)
at java.lang.ClassLoader.loadClass(ClassLoader.java:268)
at java.lang.ClassLoader.loadClassInternal(ClassLoader.java:336)

Please help

Reply



P-H says:

October 10, 2012 at 9:11 AM

Hi anonymous,

Can you please post the complete stack trace? e.g. you first need to identify the Java class referencing the com/sankya/itech/dao1/CustomersDAO

Please also locate in which JAR file the missing class is packaged and determine if your classpath is setup properly.

Thanks.

P-H

Reply



Anonymous says:

October 15, 2012 at 6:28 AM

Hello P-H,

I've gone through your article as well as Javin Paul's article described in the very first comment. But I'm still not able to find solution. Can you help me?

Thanks in advance.

Reply



P-H says:

October 15, 2012 at 8:42 AM

Hi Anonymous,

Sure, please describe your problem and post the error with full stacktrace so I can have a quick look.

Thanks.

P-H

Reply



Anonymous says:

October 15, 2012 at 8:50 AM

I'm trying to run swt-java project from command prompt (without eclipse) & getting the following exception :

```
Exception in thread "main" java.lang.NoClassDefFoundError: com/beans/MyBean
at java.lang.ClassLoader.defineClass1(Native Method)
at java.lang.ClassLoader.defineClassCond(ClassLoader.java:631)
at java.lang.ClassLoader.defineClass(ClassLoader.java:615)
at java.security.SecureClassLoader.defineClass(SecureClassLoader.java:141)
at java.net.URLClassLoader.defineClass(URLClassLoader.java:283)
at java.net.URLClassLoader.access$000(URLClassLoader.java:58)
at java.net.URLClassLoader$1.run(URLClassLoader.java:197)
at java.security.AccessController.doPrivileged(Native Method)
at java.net.URLClassLoader.findClass(URLClassLoader.java:190)
at java.lang.ClassLoader.loadClass(ClassLoader.java:306)
at sun.misc.Launcher$AppClassLoader.loadClass(Launcher.java:301)
at java.lang.ClassLoader.loadClass(ClassLoader.java:247)
```

```
at java.lang.Class.forName0(Native Method)
at java.lang.Class.forName(Class.java:169)
at org.hibernate.util.ReflectHelper.classForName(ReflectHelper.java:100)
at org.hibernate.util.ReflectHelper.reflectedPropertyClass(ReflectHelper.java:70)
at org.hibernate.mapping.SimpleValue.setTypeUsingReflection(SimpleValue.java:276)
at org.hibernate.cfg.HbmBinder.bindSimpleId(HbmBinder.java:401)
at org.hibernate.cfg.HbmBinder.bindRootPersistentClassCommonValues(HbmBinder.java:334)
at org.hibernate.cfg.HbmBinder.bindRootClass(HbmBinder.java:273)
at org.hibernate.cfg.HbmBinder.bindRoot(HbmBinder.java:144)
at org.hibernate.cfg.Configuration.add(Configuration.java:669)
at org.hibernate.cfg.Configuration.addInputStream(Configuration.java:504)
at org.hibernate.cfg.Configuration.addResource(Configuration.java:566)
at org.hibernate.cfg.Configuration.parseMappingElement(Configuration.java:1587)
at org.hibernate.cfg.Configuration.parseSessionFactory(Configuration.java:1555)
at org.hibernate.cfg.Configuration.doConfigure(Configuration.java:1534)
at org.hibernate.cfg.Configuration.doConfigure(Configuration.java:1508)
at org.hibernate.cfg.Configuration.configure(Configuration.java:1428)
at
com.facadeimplementation.hibernate.util.HibernateFactory.configureSessionFactory(HibernateF
actory.java:83)
at com.facadeimplementation.model.dao.MyDao.(MyDao.java:23)
at com.facadeimplementation.model.dao.MappingDao.(MappingDao.java:23)
at com.ui.MainForm.(MainForm.java:45)
at com.ui.MainForm$1.run(MainForm.java:77)
at org.eclipse.core.databinding.observable.Realm.runWithDefault(Realm.java:332)
at com.ui.MainForm.main(MainForm.java:74)
Caused by: java.lang.ClassNotFoundException: com.beans.MyBean
at java.net.URLClassLoader$1.run(URLClassLoader.java:202)
at java.security.AccessController.doPrivileged(Native Method)
at java.net.URLClassLoader.findClass(URLClassLoader.java:190)
at java.lang.ClassLoader.loadClass(ClassLoader.java:306)
at sun.misc.Launcher$AppClassLoader.loadClass(Launcher.java:301)
at java.lang.ClassLoader.loadClass(ClassLoader.java:247)
... 37 more
```

I'm able to run this project successfully in Eclipse.

MyBean.java is contained in a jar. I have so many POJOs used in the project so it's not possible to use them directly instead of using them from within a jar.

Reply



P-H says:

October 15, 2012 at 8:55 AM

Hi anonymous,

Did you packaged this class properly in your Jar and also added it to your start-up classpath?

P-H

Reply



Anonymous says:

October 15, 2012 at 9:03 AM

Yes, I'm able to see it into my jar as well as in the list I've got by running the following command in linux :

```
jar tf mybeans.jar
```

I have added the same in .classpath. But it seems like it's not even reaching upto that point as I've tried changing its path but got the same error.

Reply



P-H says:

October 15, 2012 at 9:04 AM

Hi anonymous,

At this point, please email me the command you used along with the JAR file itself and I will have a look:

phcharbonneau@hotmail.com

Thanks
P-H

Reply



Anonymous says:

October 15, 2012 at 11:18 AM

Hello Sir,

Sorry but I'm not able to send you e-mail on this id: phcharbonneau@hotmail.com

I'm getting Mail Delivery System Failure.

Thanks.

Reply



P-H says:

October 15, 2012 at 11:26 AM

Alright, so can you please please provide the following:

- Full start-up command you are using
- Open the JAR file and let me know the directory structure, do you see your MyBean.class under the com/beans/ directory structure?

P-H

Reply



Anonymous says:

October 15, 2012 at 11:42 AM

I have made a file Startup.sh which contains the following data :

```
java -classpath
.:swt.jar:jfacedb.jar:equinox.jar:coredb.jar:coreob.jar:hibernate3.jar:log4j.jar:comlog.jar:dom4j.jar:commons-collections.jar:gwt-servlet.jar:jtds-1.2.5.jar:cglib-2.1.3.jar:antlr-2.7.6.jar:asm-attrs.jar:asm.jar:beans-dm.jar:jta.jar:beanlib-hibernate-5.0.1beta.jar:gwt-crypto-1.0.3.jar:commons-beanutils-1.7.0.jar:beanlib-5.0.1beta.jar:commons-io-1.2.jar:beanlib-5.0.1beta-sources.jar:beanlib-hibernate-5.0.1beta-sources.jar:beanlib-joda-5.0.1beta.jar:business-interfaces.jar:commons-collections.jar:commons-digester-1.8.jar:commons-lang-2.4.jar:commons-logging-api.jar:DM-Beans-Utills.jar:DynamicJasper-2.0.8:groovy-all-1.5.5.jar:hibernate-annotations.jar:hibernate-commons-annotations.jar:hibernate-entitymanager.jar:hibernate-tools.jar:iText-2.1.5.jar:iText-rtf-2.1.5.jar:jasperreports-1.2.7.jar:jasperreports-3.5.1.jar:javassist.jar:jbossall-client.jar:jcommon-1.0.0.jar:mybeans.jar:slf4j-api-1.6.1.jar:sqljdbc4.jar:mail.jar:mysql-connector-java-5.1.6-bin.jar:jxl.jar:jdtcore-3.1.0.jar:jdo2-api-2.3-SNAPSHOT.jar:DM.zip MainForm.java
```

mybeans.jar contains MyBean.java.

Double clicking this file runs the project.

Apart from that I can see MyBean.class under mybeans.jar at the specified location.

Reply



P-H says:

October 15, 2012 at 12:23 PM

Hi anonymous,

I found a typo in your start-up command ":DynamicJasper-2.0.8:". It is missing .jar and could prevent the rest of the classpath. Also, please move mybeans.jar at the beginning to we can ensure that it is being picked-up and added to the system classloader.

Thanks.

P-H

Reply



Anonymous says:

October 16, 2012 at 2:45 AM

Hello P-H,

Thanks for pointing my mistakes. I have improved that & also placed mybeans.jar at the very first. But still I'm getting the same error.

Thanks.

Reply



P-H says:

October 16, 2012 at 6:28 AM

Hi anonymous,

At this point it would be useful to isolate the problem. Can you remove most jar files and simply write a small problem that reference this missing Java class? e.g simple create a simple class with main method creating a new instance of the class com.beans.MyBean and try to replicate similar to error Spring is getting.

Also, please zip the mybeans.jar and resend to phcharbonneau@hotmail.com if you can or share this file via any free file sharing site.

Thanks.

P-H

Reply



Anonymous says:

October 26, 2012 at 5:25 AM

Hello P-H,

I have figured out the problem. In my script you can see a line "MainForm.java" which points to the class contained main() method. There were 2 problems:

1. The class name should be fully qualified. In my case it should be com.MainForm.java.
2. When I write a dot, it means a folder structure. So I need to write com.MainForm only & not com.MainForm.java.

And it worked.

But thank you so much for your support.

Reply



P-H says:

October 26, 2012 at 8:56 AM

Thanks anonymous,

Very often it is useful to start checking for simple mistakes vs. more complex root causes.

Regards,

P-H

Reply



Uma Chikkegowda says:

October 27, 2012 at 1:07 PM

hi P-H

i am running an application using java -cp command but i am getting no class definition found error can you pls help me?

I am using below command

"java -cp MapMatching.jar:lib/kd.jar com.ibm.MapMatching.HMMMapMain -edge false"

Reply



P-H says:

October 29, 2012 at 5:26 AM

Hi Uma,

Can you please post the entire NoClassDefFoundError along with the full stack trace?

Thanks.

P-H

Reply



Willy says:

November 3, 2012 at 6:44 AM

Hello P-H,

I was having serious problems trying to set up a small Java application containing multiple jar files and after reading your articles everything turned clear to me. THANK YOU VERY MUCH.

Reply



Anonymous says:

November 7, 2012 at 6:33 AM

Hi

How to add class to start-up classpath

Reply



P-H says:

November 8, 2012 at 7:58 AM

Thanks Willy for your comments,

Happy to see that the article helped with your problem case.

Regards,
P-H

Reply



P-H says:

November 8, 2012 at 8:01 AM

Hi anonymous,

The first question is how you are deploying your application? Are you using a standalone Java application, or Web application etc.?

Java classes and jar files can be added to the system classloader via the -classpath or -cp argument.

<http://javaeesupportpatterns.blogspot.com/2011/08/jvm-options-hotspot-vm-standard-options.html>

Thanks.
P-H

Reply



Yu Mon says:

March 9, 2013 at 9:14 AM

Dear Sir,

I use to write J2EE project quite well but I'm a new comer of JADE. I want to combine J2EE and Multi-Agents for Information Retrieval from different Web services. I want to Know is JADE agent can call Web Services which are hosted in VM machine.

In fact,I want to publish this post with my testing code but because of limitation.

WSAgent1 can properly create and start using JADE GUI. But cannot

start inside code (eg. calling function Searching(String doctorName, String disease, String day, String time) inside interface agent.
I want know that why WSAgent1 can't properly start inside J2ee struts project. Why java.lang.NoClassDefFoundError is encountered. Or Jade Agent cannot call Web Service in this way. I'm so nervous and very tired now.
I need your help sir. Give me a hand please.
Thanks in advance
Yu Mon Zaw

Reply



Pierre-Hugues Charbonneau says:

March 12, 2013 at 9:19 AM

Hi Yu,

Can you please provide the full Java error and stack trace regarding java.lang.NoClassDefFoundError ? This will allow us to identify which Java class did not get loaded within the class loader/class path at runtime.

Thanks.
P-H

Reply



Anuj harshe says:

June 5, 2013 at 1:57 AM

Dear Sir,
I just wrote simple "helloworld" program... it compile fine but at runtime it gives same java.lang.NoClassDefFoundError... I already set the path it gives same error with any java program...

Thanks

Reply



Pierre-Hugues Charbonneau says:

June 10, 2013 at 4:50 PM

Hi Anuj,

Can you please post the complete NoClassDefFoundError stack trace including the Java class that it is complaining about? Please also include your Java command you are using to execute your program.

Regards,
P-H

Reply



Tirus says:

June 12, 2013 at 7:47 AM

I need your kind assistance. I am able to run an applet on my local pc (development PC), but once I publish this on the server where I want it to be accessed I can't run the applet. I am getting the error NoClassDefFoundError.

Local CLASSPATH

d:\java\jdk1.6.0\bin\mail.jar;d:\java\jdk1.6.0\bin\activation.jar;d:\java\jdk1.6.0\bin

Server CLASSPATH C:\inetpub\SUAP\mail.jar; C:\inetpub\SUAP\activation.jar; C:\inetpub\SUAP;\inetpub\SUAP

What am I doing wrong?

Reply



Pierre-Hugues Charbonneau says:

June 12, 2013 at 11:27 AM

Hi Tirus,

Can you please include the full NoClassDefFoundError error and stack trace, including the Java class the JVM is complaining about. This will allow you to understand if you are dealing with a missing JAR file on the server side.

Regards,
P-H

Reply



Tirus says:

June 13, 2013 at 1:04 AM

JVM is complaining about the class javax.mail.Address

```
D:\Java\jdk1.6.0\bin>appletviewer SUAPLevel2.java
java.lang.NoClassDefFoundError: javax/mail/Address
at SUAPLevel2.init(SUAPLevel2.java:533)
at sun.applet.AppletPanel.run(AppletPanel.java:417)
at java.lang.Thread.run(Thread.java:619)
```

Reply



Pierre-Hugues Charbonneau says:

June 14, 2013 at 11:54 AM

Hi Tirus,

It is complaining about one class from mail.jar. It is obviously due to missing JAR file in your SERVER classpath. Can you please double check once again the classpath and this JAR file location?

I see drive C for the classpath but you are running the applet from the server drive D?

Thanks.
P-H

Reply



Vasantha Devi says:

July 30, 2013 at 3:47 AM

hi this is vasantha arise a problem like classnotfoundexception with org.hibernate.criteria and i tried to insert related jar files also its not working kindly solve my problem

Reply



mano says:

July 31, 2013 at 2:31 AM

hi sir,

I have this NoClassDefFoundError in my applet when i try to embed a jar file into my webpage.This is my code.

I have java 7 on my pc.

```
code="Dotlet.class" codebase="..\dotplot1.5\" archive="dotlet.jar" width="378" height="380"
```

```
PARAM NAME="HELPURL" VALUE="input.txt"
```

Reply



Pierre-Hugues Charbonneau says:

August 19, 2013 at 4:11 PM

Hi Vasantha,

Can you please post the complete stack trace of the ClassNotFoundException error?

Regards,

P-H

Reply



Johnmichael Pineda says:

May 31, 2014 at 5:34 AM

hi sir, i'm having trouble in using array descriptor with IBM Websphere Application Server Liberty Profile v8.5 as my server, like any other, it's regarding NoClassDefFoundError, here's the stackTrace:

```
java.lang.reflect.InvocationTargetException
at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
at sun.reflect.NativeMethodAccessorImpl.invoke(Unknown Source)
at sun.reflect.DelegatingMethodAccessorImpl.invoke(Unknown Source)
at java.lang.reflect.Method.invoke(Unknown Source)
at org.apache.axis2.rpc.receivers.RPCUtil.invokeServiceClass(RPCUtil.java:194)
at
org.apache.axis2.rpc.receivers.RPCMessageReceiver.invokeBusinessLogic(RPCMessageReceiver.java:98)
at
org.apache.axis2.receivers.AbstractInOutMessageReceiver.invokeBusinessLogic(AbstractInOutMessageReceiver.java:40)
at
org.apache.axis2.receivers.AbstractMessageReceiver.receive(AbstractMessageReceiver.java:96)
at org.apache.axis2.engine.AxisEngine.receive(AxisEngine.java:145)
at
org.apache.axis2.transport.http.HTTPTransportUtils.processHTTPPostRequest(HTTPTransportUtils.java:275)
at org.apache.axis2.transport.http.AxisServlet.doPost(AxisServlet.java:120)
at javax.servlet.http.HttpServlet.service(HttpServlet.java:595)
at javax.servlet.http.HttpServlet.service(HttpServlet.java:668)
at com.ibm.ws.webcontainer.servlet.ServletWrapper.service(ServletWrapper.java:1240)
at com.ibm.ws.webcontainer.servlet.ServletWrapper.handleRequest(ServletWrapper.java:760)
at com.ibm.ws.webcontainer.servlet.ServletWrapper.handleRequest(ServletWrapper.java:443)
at
com.ibm.ws.webcontainer.filter.WebAppFilterManager.invokeFilters(WebAppFilterManager.java:1033)
at com.ibm.ws.webcontainer.webapp.WebApp.handleRequest(WebApp.java:4499)
at
com.ibm.ws.webcontainer.osgi.DynamicVirtualHost$2.handleRequest(DynamicVirtualHost.java:282)
at com.ibm.ws.webcontainer.WebContainer.handleRequest(WebContainer.java:954)
at com.ibm.ws.webcontainer.osgi.DynamicVirtualHost$2.run(DynamicVirtualHost.java:252)
at
com.ibm.ws.http.dispatcher.internal.channel.HttpDispatcherLink$TaskWrapper.run(HttpDispatcherLink.java:584)
```

```
at com.ibm.ws.threading.internal.Worker.executeWork(Worker.java:439)
at com.ibm.ws.threading.internal.Worker.run(Worker.java:421)
at java.lang.Thread.run(Unknown Source)
Caused by: java.lang.NoClassDefFoundError: oracle/sql/ArrayDescriptor
```

Reply



Anonymous says:

October 23, 2014 at 4:46 AM

Morning P-H, i just finishing watching your video and i still cant resolve this problem.

```
Class not found com.pagatech.test.web.pc.agent.AgentSuiteRunner
java.lang.ClassNotFoundException: com.pagatech.test.web.pc.agent.AgentSuiteRunner
at java.net.URLClassLoader$1.run(URLClassLoader.java:372)
at java.net.URLClassLoader$1.run(URLClassLoader.java:361)
at java.security.AccessController.doPrivileged(Native Method)
at java.net.URLClassLoader.findClass(URLClassLoader.java:360)
at java.lang.ClassLoader.loadClass(ClassLoader.java:424)
at sun.misc.Launcher$AppClassLoader.loadClass(Launcher.java:308)
at java.lang.ClassLoader.loadClass(ClassLoader.java:357)
at
org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.loadClass(RemoteTestRunner.java:693)
at
org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.loadClasses(RemoteTestRunner.java:429
)
at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.runTests(RemoteTestRunner.java:452)
at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.runTests(RemoteTestRunner.java:683)
at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.run(RemoteTestRunner.java:390)
at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.main(RemoteTestRunner.java:197)
```

Please kindly help me out and also it it possible through team viewer.

Thanks

Reply



Pierre-Hugues Charbonneau says:

November 3, 2014 at 8:34 AM

Hi,

First locate the missing class: `com.pagatech.test.web.pc.agent.AgentSuiteRunner`

This is very likely a Classpath issue from Eclipse, Double check your classpath settings and ensure this Class is loaded properly when running your JUnit test.

P-H

Reply



K. Sai Vignan says:

April 22, 2015 at 12:36 PM

Bro, use Netbeans IDE. It will resolve everything. (From personal experience :D)

Reply



shiv kumar Pal says:

February 23, 2016 at 1:55 PM

I am new to java world . i had written my first program in eclipse and geting following error ..
please let me know what i am missing

```
Exception in thread "main" java.lang.NoClassDefFoundError:
org/apache/commons/logging/LogFactory
at org.apache.hadoop.conf.Configuration.(Configuration.java:146)
at WordCount.main(WordCount.java:33)
Caused by: java.lang.ClassNotFoundException: org.apache.commons.logging.LogFactory
at java.net.URLClassLoader$1.run(Unknown Source)
at java.net.URLClassLoader$1.run(Unknown Source)
at java.security.AccessController.doPrivileged(Native Method)
at java.net.URLClassLoader.findClass(Unknown Source)
at java.lang.ClassLoader.loadClass(Unknown Source)
```


at sun.misc.Launcher\$AppClassLoader.loadClass(Unknown Source)
at java.lang.ClassLoader.loadClass(Unknown Source)
... 2 more

Reply



Durgababu Deva says:

April 10, 2016 at 12:49 PM

Can you please help to resolve this error

I excuted this command `"/bin/nutch dump -segment crawl/segments -outputDir crawl/dump/"`

i got below error

```
Exception in thread "main" java.lang.NoClassDefFoundError: dump
Caused by: java.lang.ClassNotFoundException: dump
at java.net.URLClassLoader$1.run(URLClassLoader.java:217)
at java.security.AccessController.doPrivileged(Native Method)
at java.net.URLClassLoader.findClass(URLClassLoader.java:205)
at java.lang.ClassLoader.loadClass(ClassLoader.java:323)
at sun.misc.Launcher$AppClassLoader.loadClass(Launcher.java:294)
at java.lang.ClassLoader.loadClass(ClassLoader.java:268)
Could not find the main class: dump. Program will exit.
```

```
Exception in thread "main" java.lang.NoClassDefFoundError: dump
Caused by: java.lang.ClassNotFoundException: dump
at java.net.URLClassLoader$1.run(URLClassLoader.java:217)
at java.security.AccessController.doPrivileged(Native Method)
at java.net.URLClassLoader.findClass(URLClassLoader.java:205)
at java.lang.ClassLoader.loadClass(ClassLoader.java:323)
at sun.misc.Launcher$AppClassLoader.loadClass(Launcher.java:294)
at java.lang.ClassLoader.loadClass(ClassLoader.java:268)
Could not find the main class: dump. Program will exit.
```

Reply



Anonymous says:

September 8, 2017 at 6:58 AM

```
Exception in thread "main" java.lang.NoClassDefFoundError: org/slf4j/Logger
at org.apache.logging.slf4j.SLF4JLoggerContext.getLogger(SLF4JLoggerContext.java:39)
at org.apache.logging.log4j.jcl.LogAdapter.newLogger(LogAdapter.java:34)
at org.apache.logging.log4j.jcl.LogAdapter.newLogger(LogAdapter.java:30)
at
org.apache.logging.log4j.spi.AbstractLoggerAdapter.getLogger(AbstractLoggerAdapter.java:52)
at org.apache.logging.log4j.jcl.LogFactoryImpl.getInstance(LogFactoryImpl.java:40)
at org.apache.logging.log4j.jcl.LogFactoryImpl.getInstance(LogFactoryImpl.java:55)
at org.apache.commons.logging.LogFactory.getLog(LogFactory.java:655)
at org.apache.http.conn.ssl.AbstractVerifier.(AbstractVerifier.java:61)
at org.apache.http.conn.ssl.AllowAllHostnameVerifier.(AllowAllHostnameVerifier.java:44)
at org.apache.http.conn.ssl.AllowAllHostnameVerifier.(AllowAllHostnameVerifier.java:46)
at org.apache.http.conn.ssl.SSLConnectionSocketFactory.(SSLConnectionSocketFactory.java:146)
at
org.openqa.selenium.remote.internal.HttpClientFactory.getClientConnectionManager(HttpClient
Factory.java:71)
at org.openqa.selenium.remote.internal.HttpClientFactory.(HttpClientFactory.java:57)
at org.openqa.selenium.remote.internal.HttpClientFactory.(HttpClientFactory.java:60)
at
org.openqa.selenium.remote.internal.ApacheHttpClient$Factory.getDefaultHttpClientFactory(Ap
acheHttpClient.java:252)
at org.openqa.selenium.remote.internal.ApacheHttpClient$Factory.(ApacheHttpClient.java:229)
at
org.openqa.selenium.remote.HttpCommandExecutor.getDefaultClientFactory(HttpCommandEx
ecutor.java:96)
at org.openqa.selenium.remote.HttpCommandExecutor.(HttpCommandExecutor.java:70)
at org.openqa.selenium.remote.HttpCommandExecutor.(HttpCommandExecutor.java:58)
at
org.openqa.selenium.firefox.internal.NewProfileExtensionConnection.start(NewProfileExtension
Connection.java:87)
at org.openqa.selenium.firefox.FirefoxDriver.startClient(FirefoxDriver.java:271)
at org.openqa.selenium.remote.RemoteWebDriver.(RemoteWebDriver.java:119)
at org.openqa.selenium.firefox.FirefoxDriver.(FirefoxDriver.java:216)
at org.openqa.selenium.firefox.FirefoxDriver.(FirefoxDriver.java:211)
```

at org.openqa.selenium.firefox.FirefoxDriver.(FirefoxDriver.java:207)
at org.openqa.selenium.firefox.FirefoxDriver.(FirefoxDriver.java:120)
at login.checkbox.main(checkbox.java:10)
Caused by: java.lang.ClassNotFoundException: org.slf4j.Logger
at java.net.URLClassLoader.findClass(Unknown Source)
at java.lang.ClassLoader.loadClass(Unknown Source)
at sun.misc.Launcher\$AppClassLoader.loadClass(Unknown Source)
at java.lang.ClassLoader.loadClass(Unknown Source)
... 27 more

Reply



Pierre-Hugues Charbonneau says:

October 20, 2017 at 7:02 AM

Please verify your packaging, it is missing the SLF4J Logging library at runtime.

Reply

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Amitabh Mandal ▾

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