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OR

No compiler is provided in this environment. Perhaps you are running on a JRE rather than a JDK?

I'm compiling a project in Eclipse using m2eclipse. I set the JDK path in Eclipse like this:

```
Windows-->preferences-->installed jres--> jdk1.7.xx  path
```

But this is showing an error

```
[ERROR] COMPILATION ERROR :
[INFO] -------------------------------------------------------------
[ERROR] No compiler is provided in this environment. Perhaps you are running on a JRE
rather than a JDK?
[INFO] 1 error
[INFO] -------------------------------------------------------------
[INFO] ------------------------------------------------------------------
[INFO] BUILD FAILURE
[INFO] ------------------------------------------------------------------
[INFO] Total time: 1.424s
[INFO] Finished at: Tue Oct 29 15:21:01 IST 2013
[INFO] Final Memory: 5M/15M
[INFO] ------------------------------------------------------------------
[ERROR] Failed to execute goal org.apache.maven.plugins:maven-compiler-
plugin:3.1:compile (default-compile) on project TEST-WEB: Compilation failure
[ERROR] No compiler is provided in this environment. Perhaps you are running on a JRE
rather than a JDK?
```

java   eclipse   maven   java-7   m2eclipse

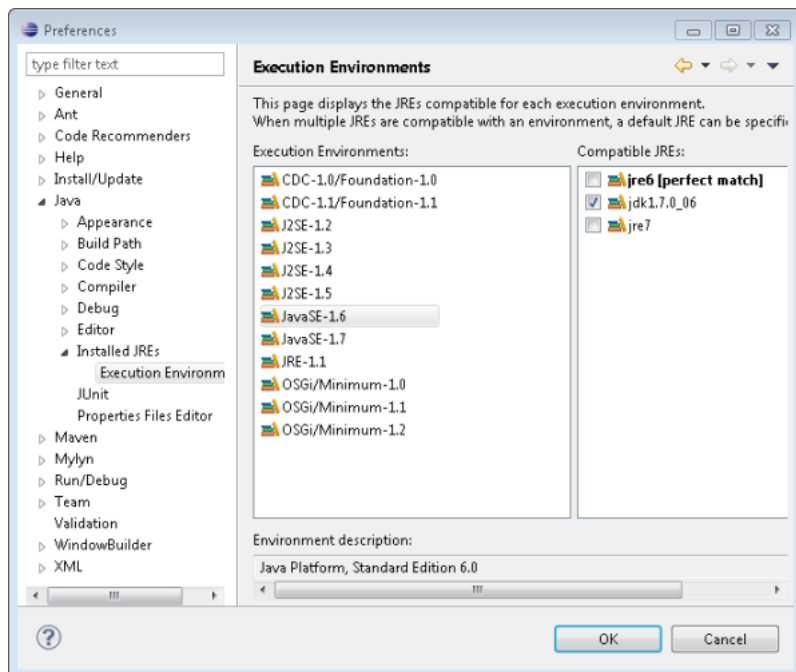| | edited Dec 31 '16 at 0:59 | asked Oct 29 '13 at 10:11 |
| | Peter Mortensen | Sai prateek |
| | **11.5k** 16 79 106 | **3,093** 3 21 46 |

1   how are you starting the compile? Commandline? Eclipse tool? – Joeri Hendrickx Oct 29 '13 at 10:15

from eclipse tool Run configuration--> Goals: clean install – Sai prateek Oct 29 '13 at 10:21

possible duplicate of Maven Package Compilation Error – mlt Aug 17 '15 at 18:56

3   Hey, This error is coming because Maven is trying to get JDK but in eclipse it is pointing to JRE. You can
change path to JDK and it will work. Check below post which will help you learn-automation.com/… –
Mukesh otwani Jul 2 '16 at 9:49

i'm posting link this so that someone in future may get benefited as i did.
stackoverflow.com/a/33873838/4525120 – divine Feb 25 at 0:21

21 Answers

1. On your Eclipse IDE, go into *Window* > *Preferences* > *Java* > *Installed JREs* > and
   check your *installed JREs*. You should have an entry with a JDK there.
2. Select the Execution Env as show below. Click *OK*
3. Then *Right-Click* on your Project -> *Maven* -> *Update Project*

Additionally, you may have to change Maven JRE (see @jlars62 answer) which is as follows.
Goto Run -> Run Configurations, selecting the Maven Build I was running (from the left panel).
Then, I clicked the JRE tab and selected the option Workspace default JRE

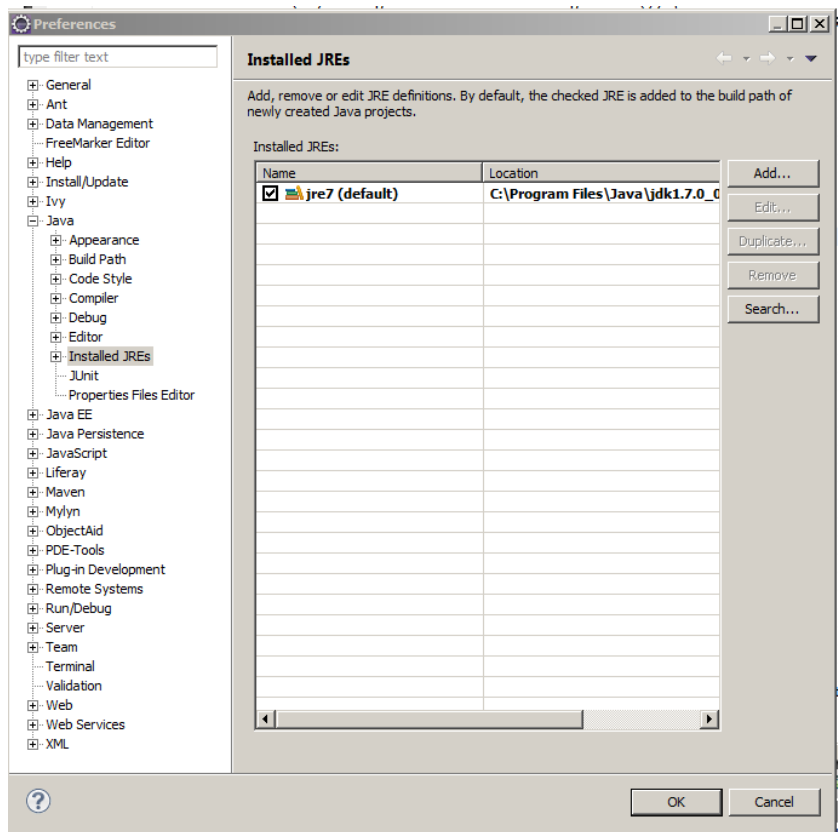answered Jan 22 '14 at 9:34

jaipster
6,474   1   16   21

8   @jaipster I tried to do this, but I could not find the jdk in the left panel, I only can see the jre7. Do you know why? – Diyoda_ Feb 26 '14 at 3:50

2   It could possibly be either you have jdk7 not installed on your machine or it is not configured in eclipse. Can you confirm. – jaipster Feb 26 '14 at 4:28

26   @Diode I had the same problem. I went to "Installed JREs" and clicked "Add..." From there I browsed to C:\Program Files\Java\jdk1.7.0_XX and then I could select the jre as jaipster described. – jlunavtgrad Jan 27 '15 at 21:03

5   For me it was enough just to add the JDK to the list of "Installed JREs" (not the best naming...) and checking the check box beside the new JDK entry making it the default VM. – Tom Fink Apr 1 '15 at 11:19

1   I clicked the "Search" button in the "Installed JREs" menu. Eclipse searched one the drives I pointed it to and came out with all the installed JREs and JDKs. – The Mitra Boy Nov 26 '16 at 22:58

For me, it is exactly what the maven of eclipse complains

So, I press `Edit` button and change path to the JDK Folder, then clean project and everything starts to work

answered Apr 25 '14 at 9:13

Thai Tran
6,692 4 31 46

2   I'd rather suggest to add the JRE using the "Add" button then manipulating a JRE entry to become a JDK entry! And after adding the JDK click the checkbox beside the JDK entry. This should already solve the issue(s) described in this post. – Tom Fink Apr 1 '15 at 11:18

3   It is weird . because as the title of dialog shows this should place the `Installed JREs` instead of jdk folder. But It really solved me problem. Thanks – Joe.wang Jan 13 '16 at 2:40

It's weired the title is Installed JREs but path is JDK but anyway it works thanks – Abhijit Chakra May 12 '16 at 7:48

worked for me.. thanks.. – santoshM Apr 8 at 18:23

For me, nothing worked until I made this change to my pom.xml:

```
<build>
...
    <plugins>
    ...
        <plugin>
            <artifactId>maven-compiler-plugin</artifactId>
            <version>3.1</version>
            <configuration>
                <fork>true</fork>
                <executable>C:\Program Files\Java\jdk1.7.0_45\bin\javac.exe</executable>
            </configuration>
        </plugin>
    </plugins>
</build>
```

Other Notes

I could see that m2e was executing in a JRE, not the JDK. Nothing I did changed this, including adding this to the eclipse.ini:

```
-vm
C:\Program Files\Java\jdk1.7.0_45\bin\javaw.exe
```

In the end I never got m2e to execute in a JDK, but setting the Java compiler explicitly (as above) did the trick.

answered Jan 1 '14 at 0:32

ksnortum
1,472 2 19 31

4   This solution should be implemented as a last resort, since the project itself is modified to be coupled to your current dev machine. – Xtreme Biker Aug 16 '16 at 11:38

@ksnortum thanks! this is the only thing that made it work for me. – Antony Fuentes Artavia Jul 26 at 20:26

What about us linux folks here? – PhoenixNoor Sep 4 at 2:11

I suspect it's pretty much the same, except the executable would be /path/to/java/bin/javac. Maybe try 'which java` to find your Java path. – ksnortum Sep 5 at 14:10

Thanks worked like a charm – Harshad Holkar Nov 6 at 12:25

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1. Set JAVA_HOME to JDK root - required if you run command line or maven(google for this variable)

2. In project properties in section Java Compiller select required JDK - if you run directly from eclipse

edited Oct 29 '13 at 15:39   answered Oct 29 '13 at 10:15

msangel
5,031   2   29   51

Why is step 1 required? – Duncan Jones Oct 29 '13 at 10:33

1   @DuncanJones, first is required if you run command line or maven(google for this variable), second - if you run directly from eclipse, – msangel Oct 29 '13 at 15:11

1   I would add that information to your answer. Otherwise it suggests both are necessary in all cases. – Duncan Jones Oct 29 '13 at 15:21

3   Pay attention that the JAVA_HOME does *not* end with "bin", but points to the *root* of the JDK. – koppor Dec 22 '13 at 15:44

Needed this for the release-plugin as it doesn't use the jre settings from eclipse (with external maven installation)... – Rob Feb 14 '14 at 14:37

I was getting this error when trying to do a maven build from within eclipse.

For me, the answer was going to `Run -> Run Configurations`, selecting the `Maven Build` I was running (from the left panel). Then, I clicked the `JRE` tab and selected the option `Workspace default JRE`

edited Sep 30 '14 at 18:15   answered Sep 2 '14 at 21:22
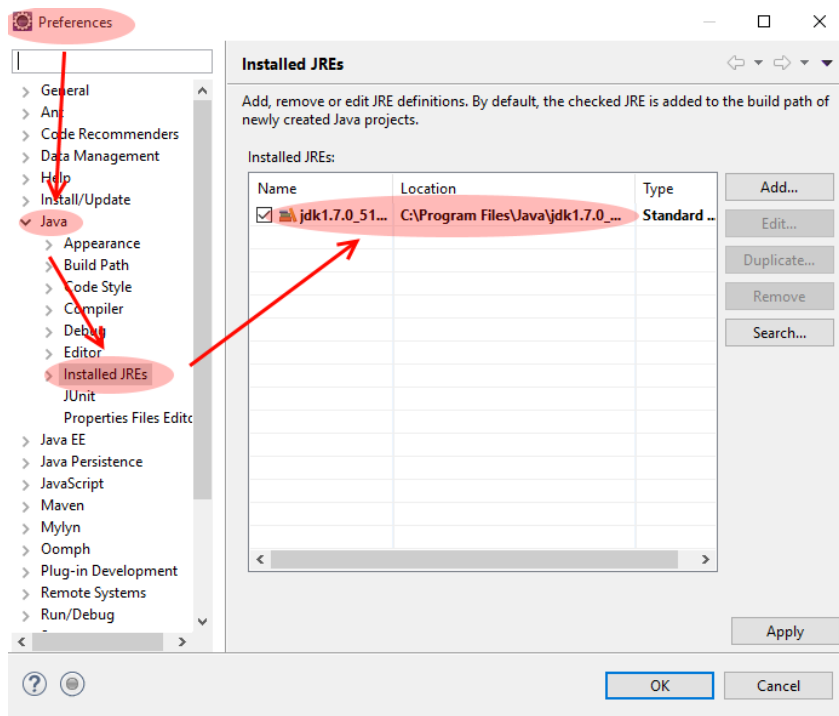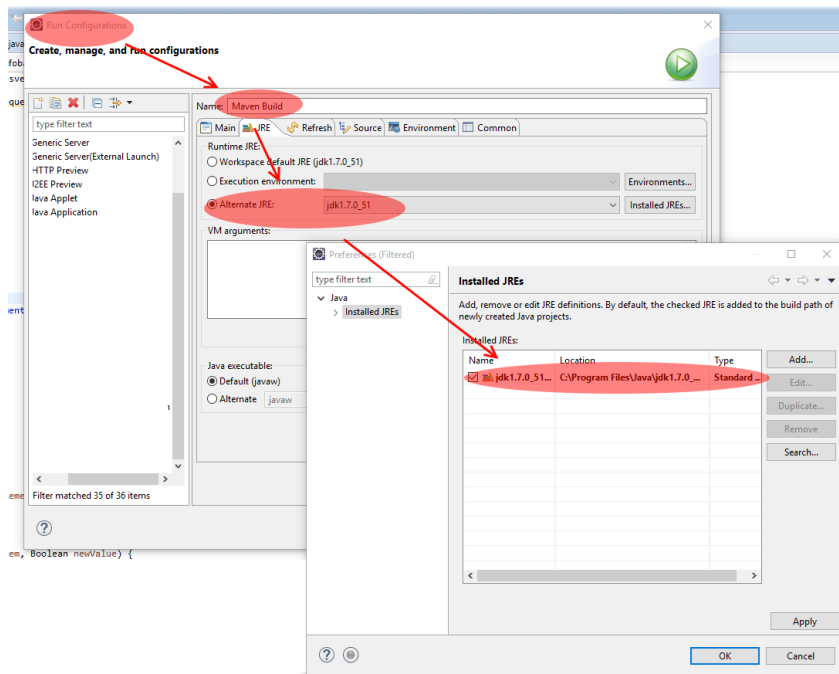
jlars62
3,443   3   21   39

1   This appears to be necessary to check in addition to the selected answer above. – nsandersen Sep 24 '15 at 13:55

1   I like this solution better, as it does not make you change the default java version for other projects. – user889742 Apr 8 '16 at 13:01

In my case it was solved by doing this:

Go to your 'Runtime Configuration' and configure your JRE to an JDK.

I copied answer just in case it is deleted for some reason, but the source is here

edited May 23 at 12:10   answered Apr 5 '16 at 21:31

Community ♦   Eduardo Dennis
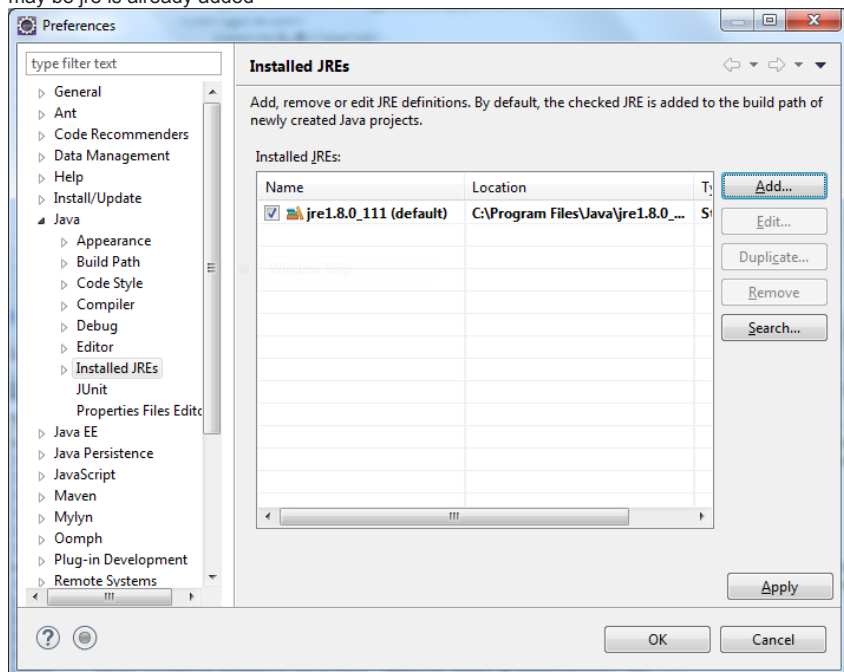1   1   7,416   8   51   73

1   Great work Bro........Thanks!!! – Anurag_BEHS Sep 25 at 19:33

Go to windows -> Preferences -> Java -> Installed JREs
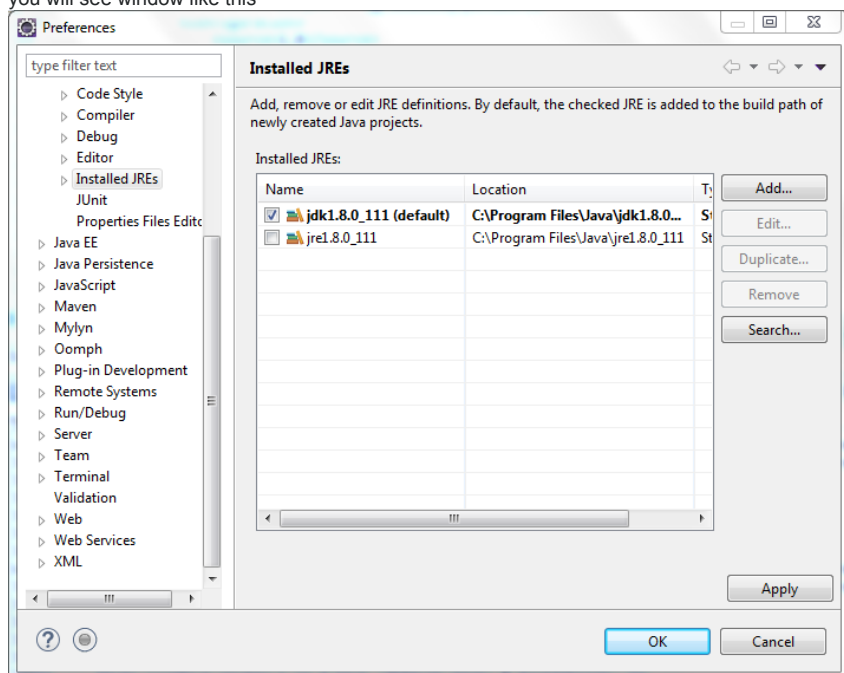
may be jre is already added

click on Add -> Standard VM -> Next -> Directory

and browse for the JDK in my case path was `C:\Program Files\Java\jdk1.8.0_111`

then Click on finish.

you will see window like this

select JDK -> Apply -> Ok

And You are done.

answered Dec 6 '16 at 16:43

ishu
214   2   8

Thanks for sharing the JDK path. It seemed as though people could choose another option to click JDK when I only had JRE displayed from the beginning. I added JDK from the path you had provided. –
In-young Choung Feb 12 at 21:59

An alternative if jaipster's answer does not work is to go to:
Window > Preferences > Java > Installed JREs

Then to edit the jre so that it points to the jdk and not the jre (the jre home filed in the jre package editor)

That worked for me.

answered Mar 17 '14 at 10:54

brunoais
1,660 3 22 42

> That was it for me. Funny is that sometimes I get errors that the default JRE is erroneously pointing to a JDK. – Salsero69 Feb 23 '16 at 20:11

If you are running the `Maven` command from `cmd` , make sure you set the jdk path before running the command. In my case, I have created a `.bat` file containing the following:

```
set JAVA_HOME=C:\Program Files\Java\jdk1.8.0_60
start cmd.exe /k "cd c:\aem_proj\sis\aau"
```

edited Jul 26 '16 at 10:17   answered Jul 21 '16 at 16:44

k0pernikus   **Mahder**
11.1k 14 66 139   **309** 2 8

I tried all of the above, however, still getting the same error message.

In my case an actual JRE was incorrectly used as JRE System Library in the project-specific build path which was obviously overriding all those other settings discussed here.

If that is so in your case try the following:

1. Open the project-specific libraries of the Java Build Path: Right-click "Project > Build Path > Configure Build Path..." and select "Libraries" tab.

2. Select the "JRE System Library" entry and hit "Remove".

3. Hit "Add Library...".

4. A wizard pops up. Select "JRE System Library" and hit "Next >".

5. Now select the correct JDK (in my case "Workspace default JRE", which I configured using a JDK).

6. Close wizard by hitting "Finish".

7. Close "Properties" dialog by hitting "OK".

edited Sep 6 '16 at 11:16   answered Sep 5 '16 at 12:26

                                      Sir Hackalot
                                      143 1 9

> I have tried all above option mentioned by @ishu, but still getting org.apache.maven.lifecycle.LifecycleExecutionException: Failed to execute goal org.apache.maven.plugins:maven-compiler-plugin:3.1:compile (default-compile) on project hibernateTest1: Compilation failure, then I tried your solution , but no change in error... Please help me. – Namrata Choudhary May 31 at 6:40

There is another possible answer to this question, and I may be the only person foolish enough to have stumbled upon this, but I think it's worth adding, since none of the other answers applied as I already had those settings correct.

When you install a JDK, the installer asks you where you want to install the files. By default, on Windows, this is something like C:\Program Files\Java\jdk1.8.0_74 (or whatever version you are installing).

It then asks you for a directory to install the JRE to, which by default is something like C:\Program Files\Java\jre1.8.0_74.

Note that one is **jdk**1.8.0_74 and the other is **jre**1.8.0_74

I was rushing things, and thinking the installer was asking me the same question twice, set both my JDK and JRE install locations to D:\devtools\jdk\jdk1.8.0_74, resulting in the installer overwriting the JDK with the JRE. This resulted in (among other things) a missing javac.exe in my JDK bin, and the same error the OP reported here in all my maven builds.
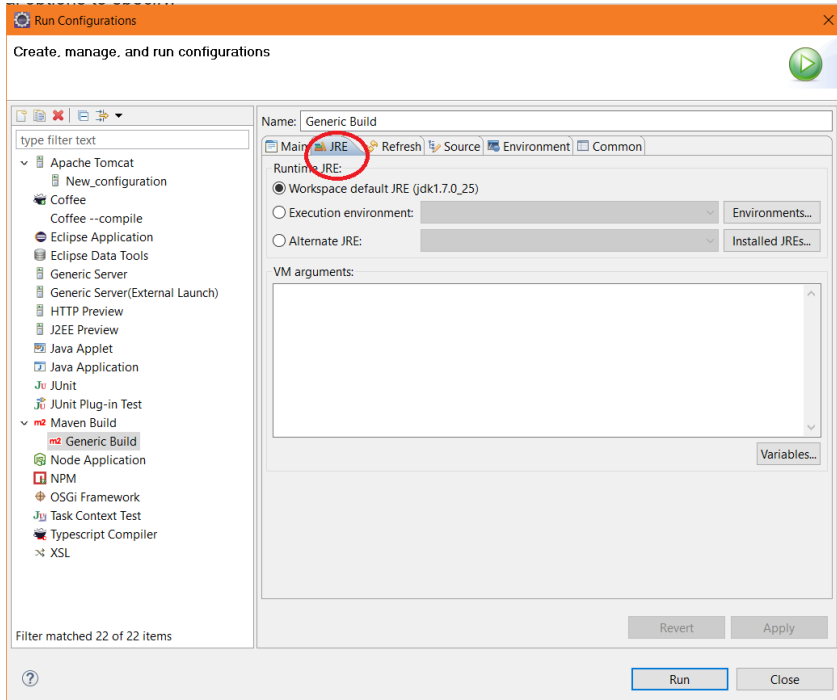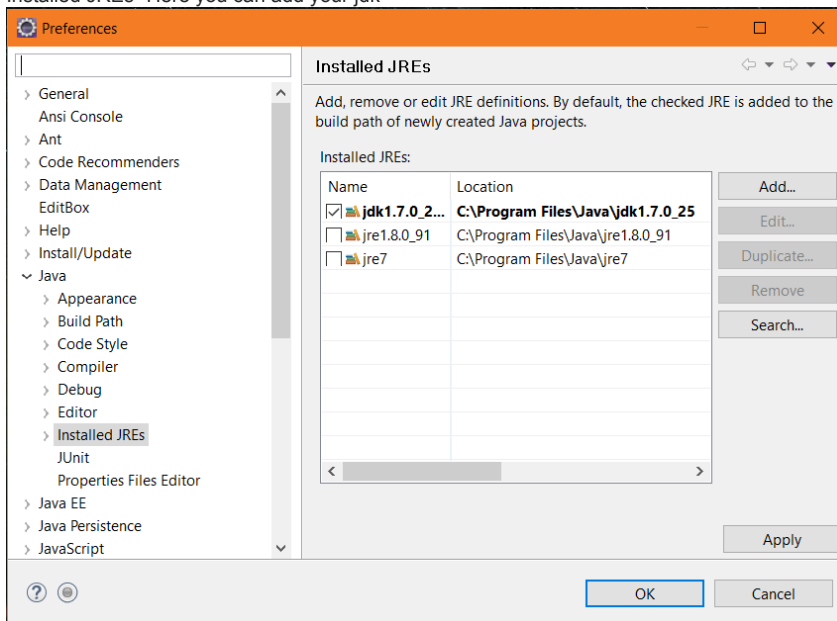
answered Feb 10 '16 at 2:54

Sam
147 7

There are several options to specify.

Steps: Right on project in project explorer Go to Run-> Run Configuration -> Click Maven Build
-> Click on your build config/or create a new config. You will see the window as the given
snapshot below, click on JRE tab there.

You see you have 3 options 1) Workspace Default JRE 2)Execution Environment 3)Alternate
JRE

1) Workspace Default JRE is set from 'Window' menu on the top -> Preferences -> Java ->
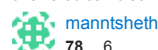Installed JREs -Here you can add your jdk

2) Execution Environment jdk can be set in pom.xml as mentioned by @ksnortum

```xml
<build>
<plugins>
    <plugin>
        <artifactId>maven-compiler-plugin</artifactId>
        <version>3.1</version>
        <configuration>
            <fork>true</fork>
            <executable>C:\Program Files\Java\jdk1.7.0_45\bin\javac.exe</executable>
        </configuration>
    </plugin>
</plugins>
```

3) Alternate JRE can be used to select a jdk from your directory

answered Jan 6 at 20:45

manntsheth
78   6

thanks it worked for me – Saurabh Verma Feb 22 at 5:31

i faced the same issue, the mistake i made was i added jre path only in the path var,not jdk path .When jdk path was added to path and build the maven project its working perfect .Thanks all

answered Jul 9 '15 at 17:50

Sapna
80   1   1   12

Add new JRE definition (select path JDK), worked for me.

http://help.eclipse.org/neon/index.jsp?topic=%2Forg.eclipse.jdt.doc.user%2Ftasks%2Ftask-add_new_jre.htm
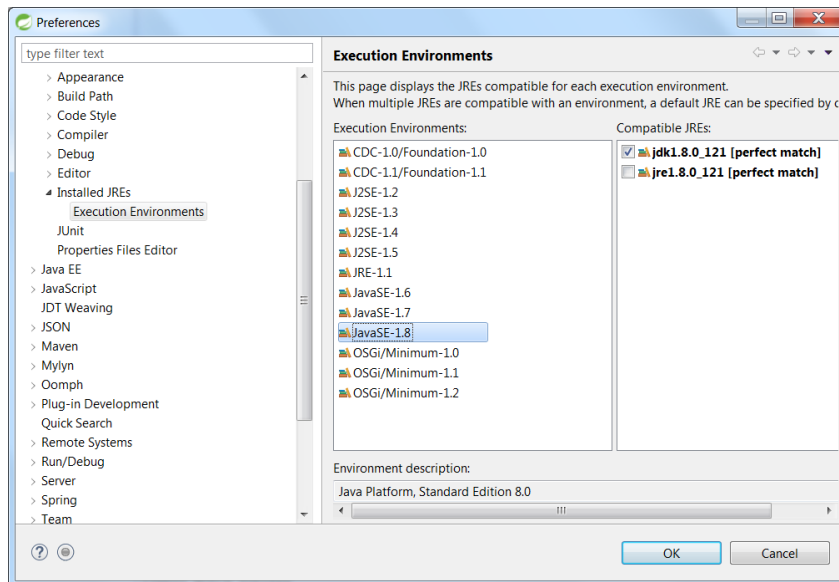
answered Feb 4 at 17:42

Lrodriguez84
89   3

I got a solution.

The most common solution for this problem is to change *jdk location* as my *Installed JREs* instead of the *JRE location* but that did not solve my problem this one time.

So I did the below to solve the problem. Expand the **Installed JREs** tab and you will find a *Execution environments* tab.

Click on your favourite execution environment. In my case it was *JAVASE-1.8*. There it shows 2 options. *JDK and JRE*. Select *JDK* there and the problem is solved.
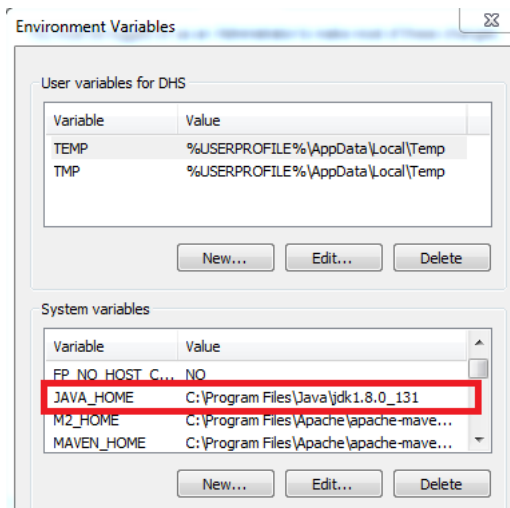

answered Mar 24 at 7:24

Vero J
61   5

I faced the same issue while trying to build a jar file of my project application using `mvn clean install` , though the application was working fine while running from Eclipse.

The issue was, indeed too naive, that I had not set the **JAVA_HOME** environment variable. All I had to do is set JAVA_HOME environment variable to JDK directory, make sure it is not till **"\bin"** and without **semi-colon ";"**.

How I understood it is as:

The application worked fine in Eclipse as *JRE System Library* was referring to JRE *inside* the JDK folder instead of external JRE folder without JDK. [As explained very well in other answers]

This configuration does not apply to *maven* command that we run on command prompt. It will still look for JAVA_HOME variable to access the JRE System library and when it is not found it refers to external JRE folder without JDK.
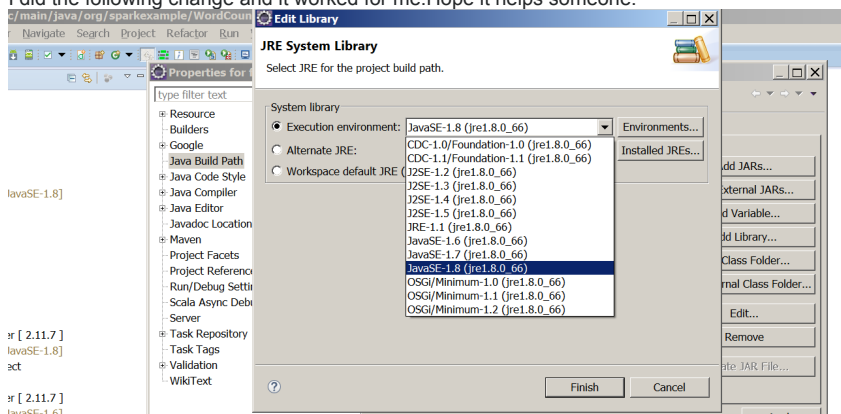
answered Aug 6 at 8:35

Dhaval Simaria
644   1   10   20

I did the following change and it worked for me.Hope it helps someone.

answered Jan 19 '16 at 8:24

Kunal Khaire
45   3

In addition to answer above, I could say that just try to run Maven from the terminal (outside of Eclipse). In this way, if it builds from outside but not in Eclipse, you can understand that the problem should be in Eclipse.

answered Jul 25 '16 at 11:11

Ad Infinitum
1,352   9   18

Try this.

```
<build>
...
    <plugins>
    ...
        <plugin>
            <artifactId>maven-compiler-plugin</artifactId>
            <version>3.1</version>
            <configuration>
                <fork>true</fork>
```

```
        <executable> path to jdk \bin\javac.exe</executable>
      </configuration>
    </plugin>
  </plugins>
</build>
```

edited Sep 6 '16 at 8:03	answered Sep 3 '14 at 13:14
Draken	Wagh
2,517 8 21 37	**1** 1

There are several answers regarding this question but all are related to right path configuration of JDK, but with JRE only we can solve this problem.

We just need to make use of deployment assembly to configure the path of packaged war file of the Java EE Project and then re-run the maven-install.

Steps to make use of deployment assembly:

1. Right click on the Jave EE project --> click on Properties --> click on Deployment Assembly

2. Click on Add button --> Click on Archives from the File System --> Click on next --> Click on Add --> Go to the .m2\respository directory and search for the war file generated --> Select war file --> Click on Open button --> Click on Apply --> OK

3. Right click on the project --> Click on Maven Install under Run As

This will build your project successfully, without any compiler error.

Hope this solves the problem without JDK.

answered Jan 25 at 10:18
S Kumar
72 8

Are you missing any maven build.

Apart from above JRE changes.I still faced similar issue.I was missing JUnit dependency after adding it is working fine.

Hope this will help.

answered Apr 9 at 8:28
Mohammed Sarfaraz
71 3

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protected by Community ♦ Sep 10 '14 at 5:41

Thank you for your interest in this question. Because it has attracted low-quality or spam answers that had to be removed, posting an answer now requires 10 reputation on this site (the association bonus does not count).

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