

Eclipse导入sun.misc.Unsafe类及其源码

原创

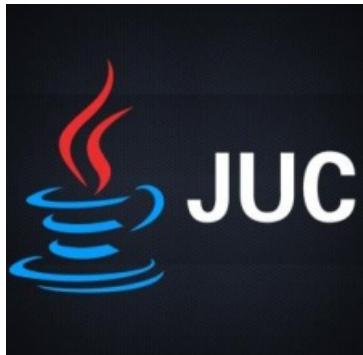
Jeremy_Lee123 于 2020-01-06 11:09:43 发布 1463 收藏 2

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27 篇文章 1 订阅

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一、Eclipse导入sun.misc.Unsafe类报错的解决方法

在eclipse中导入sun.misc.Unsafe类后, 错误如图所示:

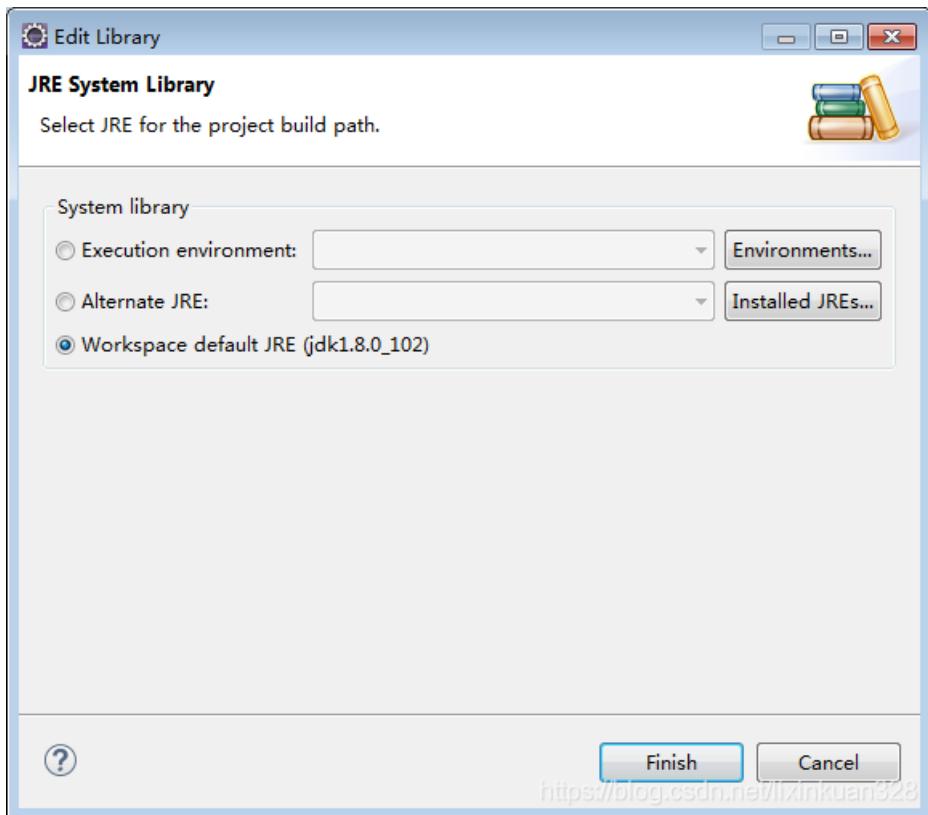
The screenshot shows a code editor with the following Java code:

```
5
6 import sun.misc.Unsafe;
7 import sun.refle[Access restriction: The type 'Unsafe' is not API (restriction on required library 'C:\Program
8
9 class User {
10     private Stri[1 quick fix available:
11     private long
12     private int]
```

A tooltip box is displayed over the 'Unsafe' import statement, containing the message: "Access restriction: The type 'Unsafe' is not API (restriction on required library 'C:\Program Files\Java\jdk1.8.0_102\jre\lib\rt.jar')". Below this, it says "1 quick fix available:" followed by a link "Search repositories for 'sun.misc'". At the bottom right of the tooltip box, it says "Press 'F2' for focus".

错误很明显, 提示找不到这个类。具体解决方案如下:

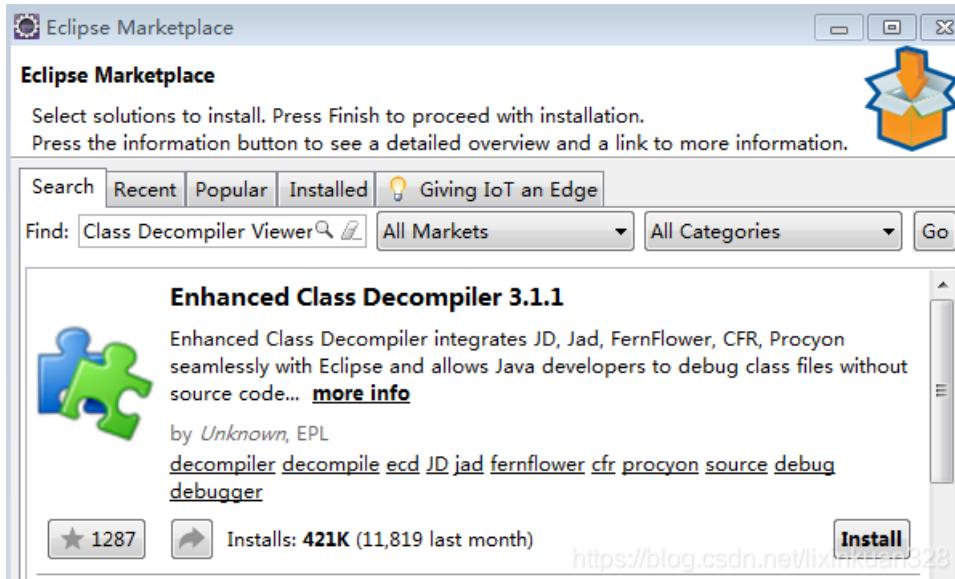
点击Windows-Preferences-Java-Installed JREs, 选择右边默认的JRE, 点击Edit, 在弹出的界面中, 更改JRE home为JDK目录下面的那个JRE。具体如图所示。(这就是JDK和JRE的区别)



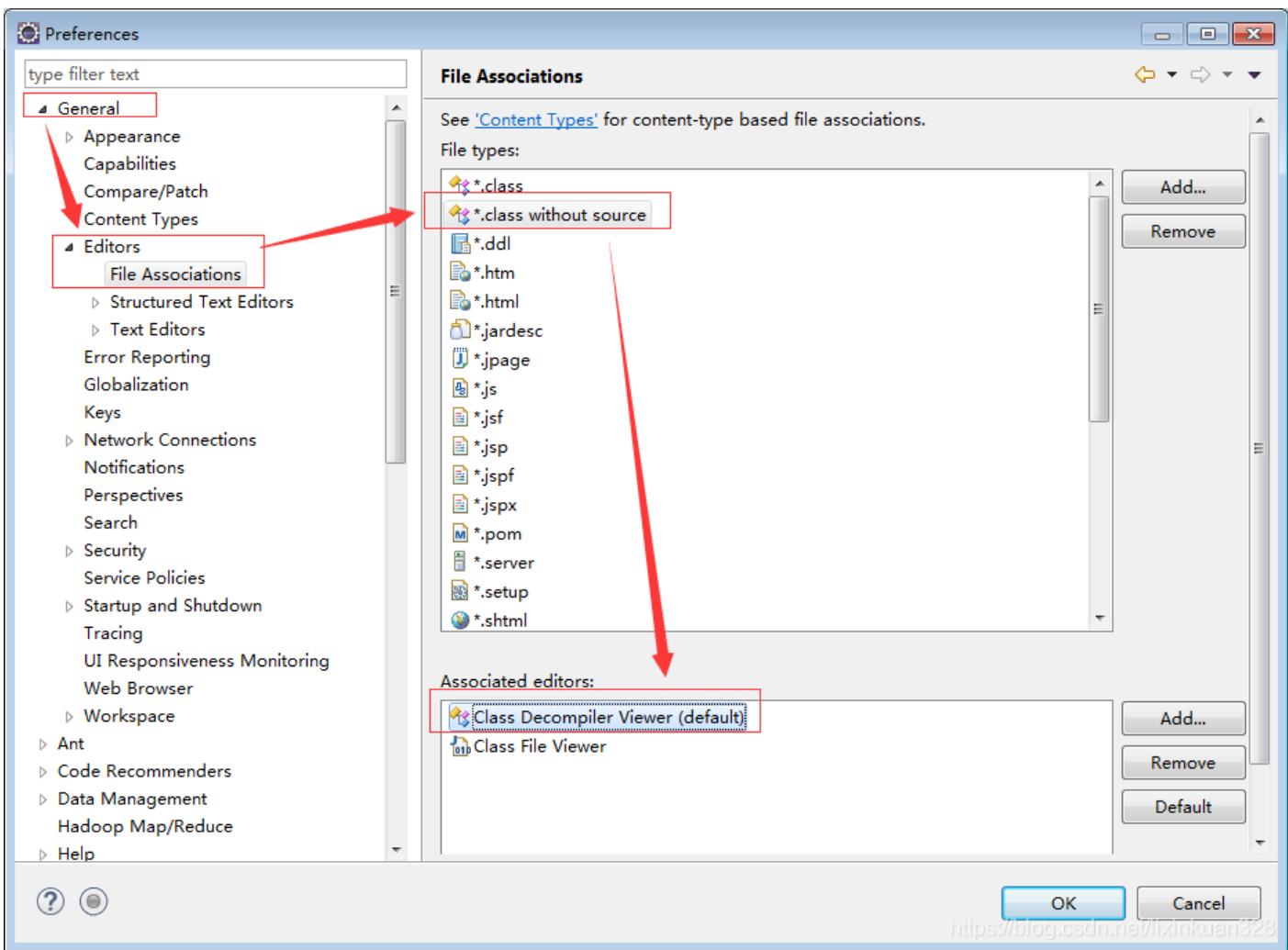
二、如何查看sun包源码

在csdn下载中看到很多sun包源码换积分的资源，在这里想说明一下如何在eclipse里看sun包源码

1.下载eclipse反编译插件Enhanced Class Decompiler。{在help下的Eclipse Marketplace popular下}



2.windows-->preferences -->File Associations -->*.class without source-->Class Decompiler Viewer(default)



3.Ctrl+T 搜索即可

The screenshot shows the Eclipse IDE Java editor with two tabs open: 'UnsafeDemo.java' and 'Unsafe.class [FernFlower]'. The code editor displays the Unsafe class definition, which includes various static final fields representing memory offsets for different primitive arrays. The 'Outline' view on the right shows the class structure with methods like 'Unsafe()', 'registerNatives()', and various getters and setters for the static fields.

```

1 package sun.misc;
2
3 import java.lang.reflect.Field;
4 import java.lang.reflect.Modifier;
5 import java.security.ProtectionDomain;
6 import sun.reflect.CallerSensitive;
7 import sun.reflect.Reflection;
8
9 public final class Unsafe {
10     private static final Unsafe theUnsafe;
11     public static final int INVALID_FIELD_OFFSET = -1;
12     public static final int ARRAY_BOOLEAN_BASE_OFFSET;
13     public static final int ARRAY_BYTE_BASE_OFFSET;
14     public static final int ARRAY_SHORT_BASE_OFFSET;
15     public static final int ARRAY_CHAR_BASE_OFFSET;
16     public static final int ARRAY_INT_BASE_OFFSET;
17     public static final int ARRAY_LONG_BASE_OFFSET;
18     public static final int ARRAY_FLOAT_BASE_OFFSET;
19     public static final int ARRAY_DOUBLE_BASE_OFFSET;
20     public static final int ARRAY_OBJECT_BASE_OFFSET;
21     public static final int ARRAY_BOOLEAN_INDEX_SCALE;
22     public static final int ARRAY_BYTE_INDEX_SCALE;
23     public static final int ARRAY_SHORT_INDEX_SCALE;
24     public static final int ARRAY_CHAR_INDEX_SCALE;
25     public static final int ARRAY_INT_INDEX_SCALE;
26     public static final int ARRAY_LONG_INDEX_SCALE;
27     public static final int ARRAY_FLOAT_INDEX_SCALE;
28     public static final int ARRAY_DOUBLE_INDEX_SCALE;
29     public static final int ARRAY_OBJECT_INDEX_SCALE;
30     public static final int ADDRESS_SIZE;
31
32     private static native void registerNatives();
}

```

Outline view:

- Unsafe
 - Unsafe()
 - theUnsafe : Unsafe
 - INVALID_FIELD_OFFSET : int
 - ARRAY_BOOLEAN_BASE_OFFSET : int
 - ARRAY_BYTE_BASE_OFFSET : int
 - ARRAY_SHORT_BASE_OFFSET : int
 - ARRAY_CHAR_BASE_OFFSET : int
 - ARRAY_INT_BASE_OFFSET : int
 - ARRAY_LONG_BASE_OFFSET : int
 - ARRAY_FLOAT_BASE_OFFSET : int
 - ARRAY_DOUBLE_BASE_OFFSET : int
 - ARRAY_OBJECT_BASE_OFFSET : int
 - ARRAY_BOOLEAN_INDEX_SCALE : int
 - ARRAY_BYTE_INDEX_SCALE : int
 - ARRAY_SHORT_INDEX_SCALE : int
 - ARRAY_CHAR_INDEX_SCALE : int
 - ARRAY_INT_INDEX_SCALE : int
 - ARRAY_LONG_INDEX_SCALE : int
 - ARRAY_FLOAT_INDEX_SCALE : int
 - ARRAY_DOUBLE_INDEX_SCALE : int
 - ARRAY_OBJECT_INDEX_SCALE : int
 - ADDRESS_SIZE : int
 - registerNatives() : void
 - getUnsafe() : Unsafe
 - getInt(Object, long) : int
 - putInt(Object, long, int) : void
 - getObject(Object, long) : Object
 - putObject(Object, long, Object) : void
 - getBoolean(Object, long) : boolean



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