JVM

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JVM

- :
  (Specification) .
- : . JVM ,
  .

- .java javac java . ex) javac
  HelloWorld.java

- JVM
- 1
  .
- .class .
- , .

JIT

- JIT (Just In Time)
- ,
  .
- .

JVM

JVM 3

1. (Class Loader)
   ◦ JAM , Runtime Data Area
     , .
   ◦ 3
     1. Loading
        1. (Bootstrap class loader) :

2.   (Extension class loader) :
3.   (Application class loader) :
  2. Linking
      1.   (verify)   :   ,
                      .
      2.   (prepare)   :   ,   .
      3.   (resolve)   :   (symbolic references)   (
      actual references)   .
  3.   (Initialization) :   ,
                  .

1.   (Runtime data area) :
   1. METHOD AREA
   2. HEAP AREA
   3. STACK MEMORY
   4. PC REGISTER
   5. NATIVE METHOD STACK

1. JVM   (JVM Execution Engine) :   ,
       .
   1. INTERPRETER :   ,   .
                 .
   2. JIT COMPILER
   3. GARBAGE COLLECTOR
   4. JAVA NATIVE METHOD INTERFACE

JDK   JRE

JRE	JDK
Java Runtime Environment	Java Development Kit
Java Java Virtual Machine( )	Java
Java	Java
JRE JDK	JDK JRE
JRE JVM, , Java	JDK JRE, API , Java , Webstart Java

Ref

[Where can I get technical information about Java?](#)
[Java   ?](#)

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Last update: **2022/03/10 19:52**