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Dt : 11/8/2022

faq:

define Method Frame?

=>The partition of JavaStackArea where the method is loaded for

execution is known as Method Frame.

=>After method execution completed,the method frame will be

destroyed automatically.

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(d)PC-Register Area:

=>Program Counter(PC) registers will hold the status of method

execution in JavaStackArea.

=>Every method which is copied onto JavaStackArea for execution

will have its own PC-Register.

=>Method Frame destroyed from JavaStackArea,then related PC-R

also destroyed automatically.

=>All PC-Registers are opened in a separate partition known as

PC-Register Area.

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(e)Native Method Area:

=>The methods from library which are declared with 'native'

keyword are known as Native methods.

=>These native methods internally having c or c++ codes.

=>when these methods are used in program construction,the

Class Loader SubSystem will identify Native methods and load

onto separate partition known as 'Native Method Area'.

=>ExecutionEngine will execute Native methods using JNI(Java

Native method Interface) and this JNI internally having Native

method libraries.

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3.ExecutionEngine:

=>ExecutionEngine is an executor or processor of JVM and which

internally having two translators

(i)Interpreter

(ii)JIT(Just-In-Time) Compiler

=>ExecutionEngine will start the execution process with main()

available from JavaStackArea.

(i)Interpreter:

=>Interpreter will start the execution process and executes

normal instructions.(Non-Multimedia Instructions)

=>when Interpreter finds Stream data or Multimedia data,then

the execution control is transferred to JIT-Compiler.

(ii)JIT(Just-In-Time) Compiler:

=>JIT-Compiler will execute Stream data or Multimedia Data.

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faq:

why JavaLang use Interpreter in execution process?

=>when we have interpreter in execution process,then we can

accept request in the middle of execution process and which is

preferable in Server application development.

Note:

=>when we use Interpreter in Execution process,then the

JavaLang is also known as 'Interpreted Language'.

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Summary:

(i)Method Area where classes are loaded.

(ii)Heap Area where objects are created.

(ii)JavaStackArea where methods are executed.

