

How to find the CPU Time Usage in your WebSphere V5 and V6 for z/OS applications

You can determine the amount of CPU time used by your java applications in WebSphere Application Server V.5 and V.6 for z/OS with the `obtainTotalCpuTimeUsed()` method in the `SMFJActivity` class. This returns the total CPU time in microseconds accumulated for the enclave in which you are running.

You can use this method at different points (beginning and ending) in your java programs (EJBs, servlets, or JSPs) and it will return the accumulated CPU time for the enclave. Then subtract the beginning `timeUsed` from the ending `timeUsed` to get the CPU time used in the enclave between the two calls.

Usage:

The `obtainTotalCpuTimeUsed()` method is packaged in the `pmi.jar` file in the `/usr/lpp/WebSphere/lib/` directory. Import the `com.ibm.ws390.sm.smf.SMFJActivity` class in your program.

Here is an example of a simple JSP that uses this method:

```
<HTML>
  <BODY>
    <%@ page import="com.ibm.ws390.sm.smf.SmfJActivity" %>
    <%
      long startTime;
      long stopTime;
      long cpuTime;
      startTime = SmfJActivity.obtainTotalCpuTimeUsed();
    %>
    <IMG SRC="/MyIVT/Logo.jpg">
    <H2>The Application Server thinks today's date and time is:</H2>
    <UL>
      <LI><B><%= new java.util.Date() %></B>
    </UL>
    <%
      stopTime = SmfJActivity.obtainTotalCpuTimeUsed();
      cpuTime = stopTime - startTime;
      System.out.println("### JSP CPU Time = "
        + cpuTime + " microseconds.");
    %>
    <P>CPU Time for JSP = <%= cpuTime %> microseconds.
    <P>Click <A HREF="/MyIVT/index.html">here</A> to return.
  </BODY>
</HTML>
```