Abstract

In this final project will be tested speed, accurasy, predictability and compatibility implementation of *Real Time Specification for Java* (RTSJ). Testing will be conducted to *Open Virtual Machine* (OVM) from Purdue University and *Java Real Time Extension* (JRATE) from Washington University. Testing will be pointed to predictability of OVM and JRATE. Furthermore testing will be conducted to OVM, JRATE compared to Sun JVM 1.4.2 at *automatic cruise control system* (ACCS).

Result from simulation show that JRATE have speed equal to Sun JVM 1.4.2, mean while OVM two time more slow then JRATE and Sun JVM 1.4.2. OVM and JRATE have same accurasy. If looking at predictability, JRATE more predictive then OVM for simulation that need of accurasy, for simulation that need speed, OVM and JRATE relative have same predictability.

Kata Kunci : *Real time system, Real time speciation for java, RTSJ, JSR-1, real time JVM*.