Java Distributed Interactive Simulation to HLA Gateway

JDIS is a java code written for the performance analysis of parallel CMS and now it is planned to become a DIS<->HLA Gateway as a facility on JWORB server.

Current JDIS package has the following features:

1. displays the PDU flow on the channel

2. parse/send Entity State, Fire and Detonation PDUs. User can provided the values for each field in the PDU.

3. record PDUs on the network to a file and replay it.

4. frequency of PDU production either from file or GUIs can be defined by the user. This allows us to do stress test.

5. collects the performance statistics from CMS module(serial/parallel) and visualize the time, speedup, etc. information.

Future Plans

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1. define the DIS parse package as a facility under JWORB and combine with HLA paradigm so that HLA clients and DIS clients can talk to each seamlessly.