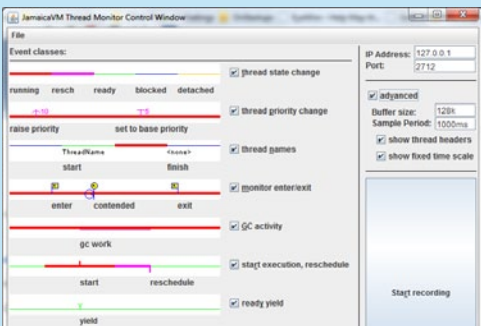
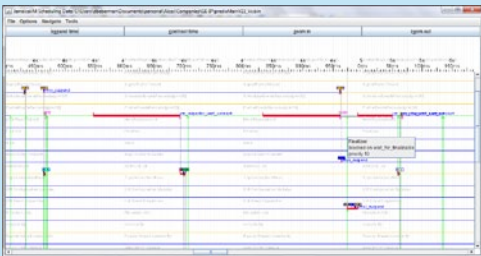




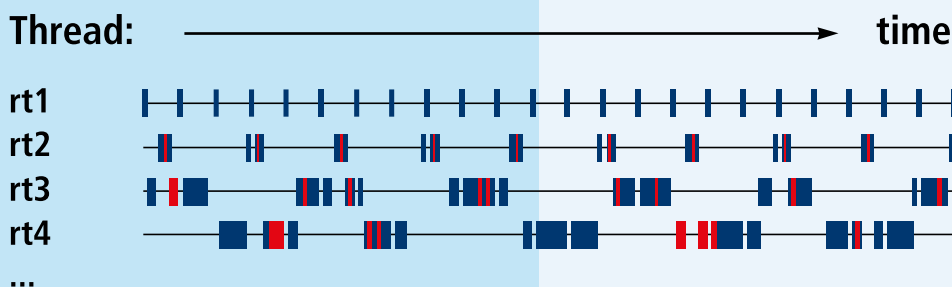

JamaicaTrace

Visualize Java Threads

- Java name
- Execution start time
- Rescheduling events
- State changes and dependencies
- Priority changes
- Monitor enter and exit events
- Garbage Collector activity
- User defined messages
- Memory allocation



Realtime Garbage Collection



Key Technologies

Hard Realtime

The JamaicaVM offers full Java functionality for hard realtime environments with throughput jitter of less than 500 nanoseconds on 1GHz+ CPUs.

Realtime Garbage Collection

JamaicaVM is the only VM with a fully deterministic, self-pacing Garbage Collector, achieving scheduling preemption latencies of only a few μ s.

Real-Time Specification for Java (RTSJ)

Using the RTSJ, portable interrupt handlers and device drivers can be written in Java.

Safety Critical Support

Certifiable for DO-178C, ISO 26262 and IEC 61508.

Small and Fast

The JamaicaVM is equipped with a highly optimizing static compiler and a profiler. The tradeoff between run-time performance and code size can be chosen freely.

Dynamic Loading

The Jamaica JAR Accelerator enables dynamic class loading of static compiled and interpreted code for upgrading applications at runtime.

Multicore Support

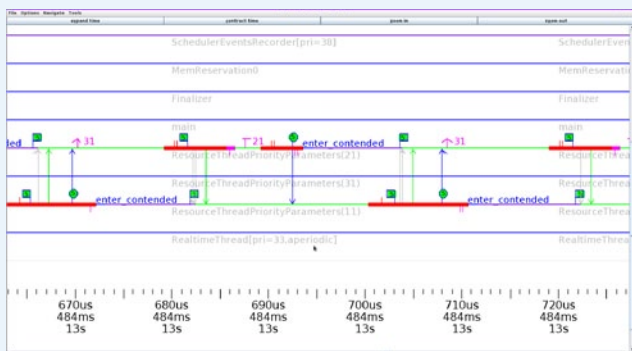
Automatic allocation of Java threads to CPU cores. Fully parallel memory management with non-blocking locks. Libraries for CPU affinity and parallel constructs.

Remote Debugging

Applications running on a target system can be debugged with standard IDEs such as Eclipse and NetBeans.

ROMable Code

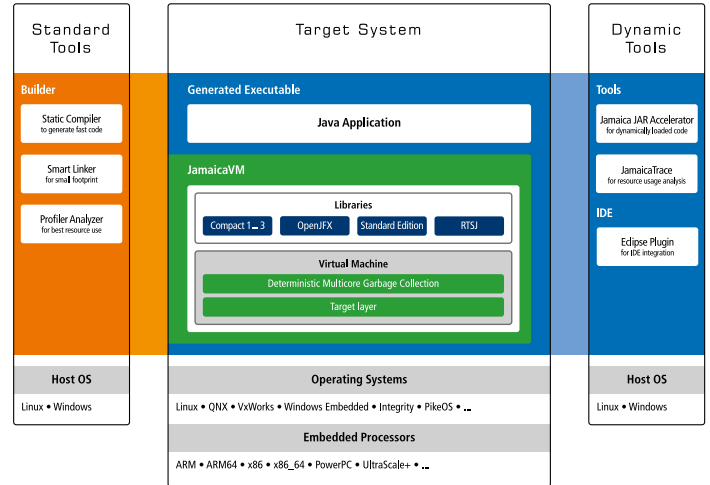
Java applications and resources can be stored in a single executable binary in ROM.



JamaicaVM Thread Monitor

Visualize Java Threads

JamaicaVM Toolset Overview



Jamaica VM Toolchain

JamaicaTrace

JamaicaTrace captures and visualizes the realtime behavior of applications to help developers fine tune their multi-threaded Java applications running on the JamaicaVM runtime.

Once the JamaicaVM runtime is configured for trace capture, JamaicaTrace may be invoked at anytime to connect, collect and display the trace data.

Optionally, the JamaicaVM runtime may be configured to pause at application startup until JamaicaTrace is invoked and connects to the application. Trace data may be examined immediately upon capture or stored in files for future analysis.

Additional features include selectable trace parameters, and programmatic insertion of user defined tags.

Although the information herein is provided with good faith, the supplier gives neither warranty nor guarantee that the information is correct or that the results described are obtainable under end-user conditions.



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