

```
##1C0B2: A9 00 100 #300
##1C0B2: 85 2F sta RefObjectNumber
##1C0B4: A2 02 ldx #902
##1C0B5: 20 63 C1 jsr SetWObjects
##1C0B9: A2 05
##1C0B9: 95 05
##1C0B9: C1
##1C0BE: 10 FB
```



PTC PERC REAL-TIME JAVA FOR AEROSPACE & DEFENSE

WHAT IS PTC PERC?

- PTC Perc consists of a Java Virtual Machine and Developer Tools for building and running Java programs in mission-critical systems.
- Perc supports customers with sub-millisecond response time requirements.
- Perc provides the ability to Ahead-of-Time compile Java code to native instructions for performance and to prevent reverse engineering.
- Perc has been deployed in thousands of systems for over 20 years.

THE VALUE OF JAVA

- High-level Object-Oriented language for building modular open systems.
- Memory safety avoids common coding errors and buffer overflow attacks.
- Huge ecosystem of supporting libraries, frameworks, and tools.
- Millions of trained developers.

WHAT PERC ADDS TO JAVA

- Real-time deterministic execution – no delays caused by garbage collection.
- Explicit control of thread scheduling and CPU core assignment.
- Package entire Java applications in a single executable.
- Security through hardware-based end-to-end encryption.

A CUSTOMER USE CASE

- The Aegis Combat System on Arleigh Burke class DDG-51 Guided Missile Destroyers runs on PTC Perc.
- Aegis has real-time requirements for tracking and targeting air and missile threats.
- Aegis with Perc is adapted to run on ships in five allied navies and in Aegis Ashore systems in Romania and Poland.
- Foreign Military Sales requires protection against reverse engineering provided by Perc.

