

```
##01C000: 00 00 000 #000  
##01C002: 00 2F sta RefObjectNumber  
##01C004: A2 02 ldx #002  
##01C005: 20 03 C1 jsr SetObjects  
  
##01C009: A2 05  
##01C00B: 95 05  
##01C00D: CA  
##01C00E: 10 FB  
##01C010: 00 00
```



ptc perc®

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.



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