VIREX (VIRtual EXecuter) is a platform-independent virtual machine designed around a flexible intermediate language called **SASM** (Simulated Assembly). It's inspired by the **Java Virtual Machine** (**JVM**), but unlike JVM bytecode, SASM is **open, readable, and writable** — you can program directly in it.

Just like Java compiles to bytecode for the JVM, any language can be compiled into SASM for VIREX. The difference is:

- SASM is assembly-like, human-readable, and editable.
- SASM is **open**, letting anyone build tools and languages around it.

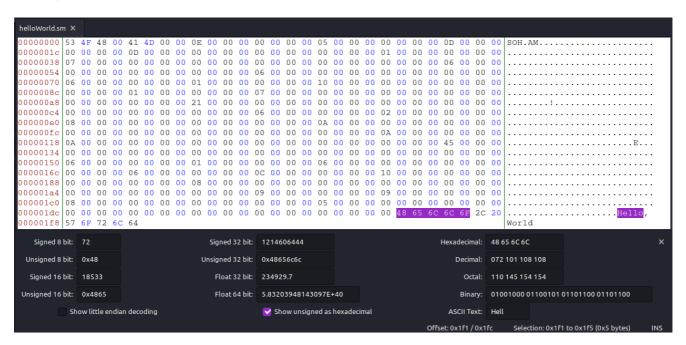
You can even create your own programming language that compiles into SASM and runs anywhere VIREX runs — making your language instantly portable.

Why SASM?

- Learn how assembly-level code works through a clean and simplified syntax.
- Build a **compiler** without worrying about machine-level code generation.
- Make your own language **platform-independent** by targeting SASM.

Examples

Binary Executable:



GUI:

