Challenges

- Technically, the Java language uses both AOT and JIT. It uses AOT to convert the Java code into Java bytecode, an intermediary language, which is then run with the JIT compiler. This makes it more difficult to fairly compare the two. To account for this, “Java Compile and Run” includes this time on the graph.
- It was difficult to find a way to compare AOT and JIT in the same language. There are not many languages that have both types of compilers built, much less maintained.
- My results represent neither a typical nor an extraordinary usage of either method. Both may perform better or worse in other implementations.

Additional Work

There is significant room for additional work in this area. This work includes:
- Comparisons using other programming languages.
- More thorough and varied tests, rather than a single program.
- Robust automated testing.
- Analysis of structures on which each method excels.

References

