A screenshot of a computer program

Description automatically generated

Front-end HIR, High, Mid compiler phases shared b/w JIT and AOT:-

Different backends implement LIRGenerationProvider interface.

Check if any commonality in lower b/w backends looks:-

1. Substrate VM AOT Backend: SubstrateAMD64Backend
2. Hotspot JIT Top Tier Compiler Backend: AMD64HotSpotBackend

Build Steps:-

cd compiler

mx build

mx vm

mx graaljdk-home

Root cause VectorAPI MulReduction failure.

-XX:+JVMCIPrintProperties



Native VM calls JavaCalls::call\_special which directly invokes Java methods

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emitFrontEnd()

* Front-end -> GraphBuilderPhase -> createBytecodeParser -> HotSpotBytecodeParser ->

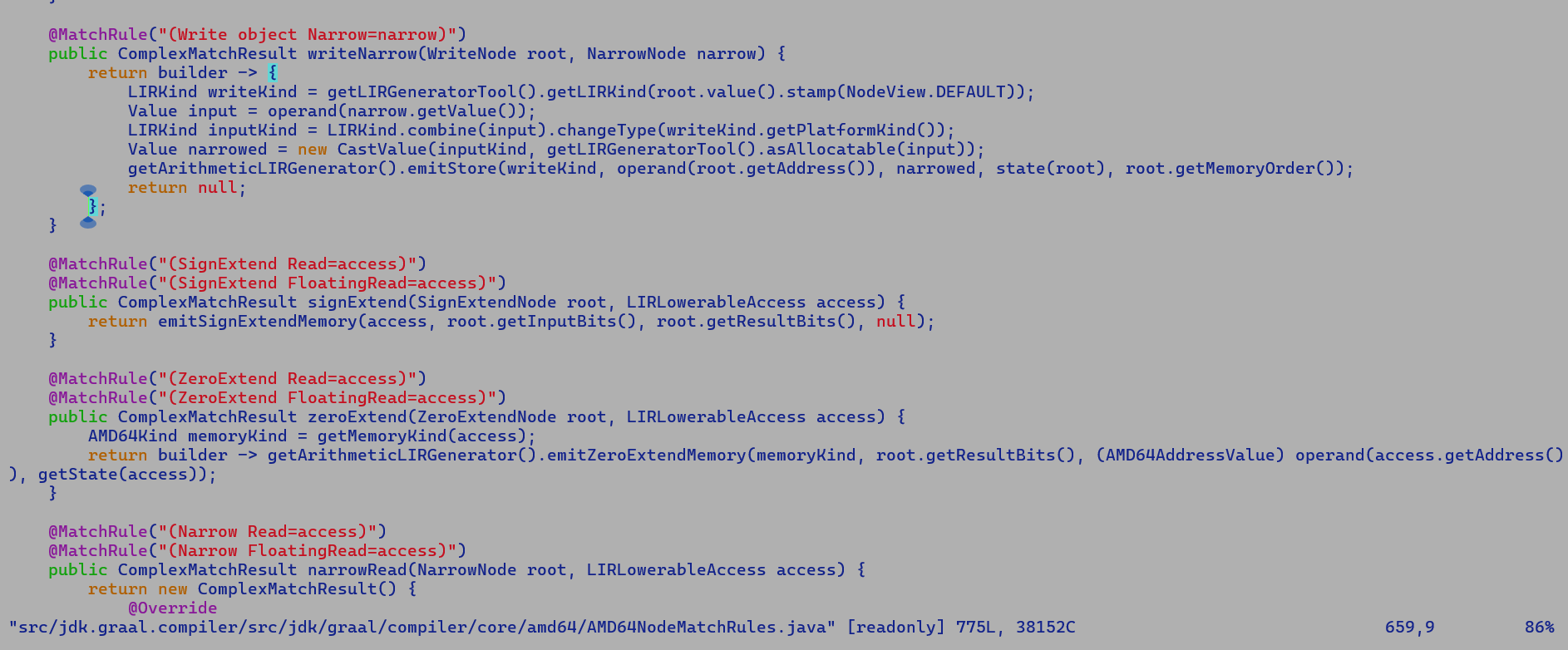
A screenshot of a computer program

AI-generated content may be incorrect.

* + processBytecode
* StructuredGraph
* Optimization MidTier.

emitBackend()

* LIG generation – Matching



* createJVMCIBackend()

