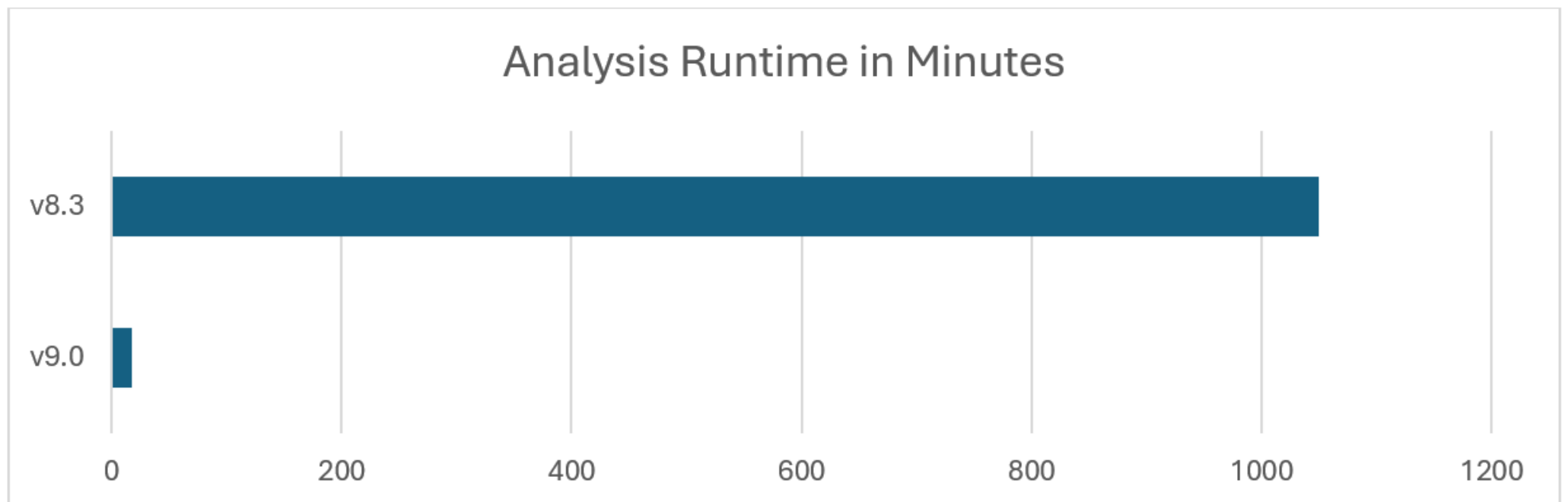# Performance improvements in CodeSonar 9.0

We are pleased to announce significant performance improvements in CodeSonar 9.0. The team of CodeSecure has successfully reduced analysis times, with analyses finishing on average, up to 20 times faster in our tests. Customers have already reported analyses running in minutes rather than hours depending on their codebase size and number of warning classes checked.

CodeSecure optimized hardware usage by parallelizing tasks, leading to significant performance gains based on server cores, code size, and warning counts. These enhancements lead to quicker results for your developers and more builds in your DevSecOps pipeline.

Analyses that spend substantial amounts of time in the Collecting Constants or Flushing Transactions will see the largest gains. MISRA and AUTOSAR settings tend to spend more time in these phases. For example, in this C++ project (190K lines of code) CodeSecure saw a near 60-fold performance improvement using the MISRA preset, 44 cores (88 hyperthreaded), and 8 concurrent hub connections.

In addition to improved performance, CodeSonar 9.0 brings new MISRA and AUTOSAR checkers, enhanced reporting and Android support.

For further information or questions, please feel free to contact us via info@verifysoft.com.