Debugging and Profiling C++ Applications on Linux

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Debugging C++ Applications

- Debug Symbols, Compiler Optimizations
- Testing
- Code Coverage
- Tracing
- Debugger
- RenderDoc
- Valgrind
- Sanitizers
- Assertions
- Static Code Analysis
- Crash Reporting

Profiling C++ Applications

- Introduction
- Profiling Setup for C++ Applications
- Manual Timing
- Linux Perf
- VTune
- Valgrind Profiling Tools
- Heaptrack
- LTTng
- OpenGL
- Conclusion

Appendix

- Tracing
- Instrumentation
- Sampling
- Performance Counters
- Backtraces
- Other Notes
- Further Reading