

# Supplement to Report

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Several libraries (written by me) were used to run the experiments mentioned in the report. These libraries are described below.

**ccbase** A C++ utility library for formatting output, detecting platform-specific features, unit testing, error handling, loading dynamic libraries, and working with the filesystem. Downloadable at <https://github.com/adityaramesh/ccbase>.

**ctop** A C++ library for analyzing system topology information. Downloadable at <https://github.com/adityaramesh/ctop>.

**gcd** A small C++14 library used to solve systems of linear congruences. Downloadable at <https://github.com/adityaramesh/gcd>.

**z1d** A C++14 library for one-dimensional root-finding. Downloadable at <https://github.com/adityaramesh/z1d>.

**neo** A C++ library for high-performance binary IO. Included in archive.

**ntl** A C++ library for training feed-forward neural networks. Included in archive. The `cuda-convnet` library, written by Alex Krizhevsky, was used to help validate correctness during the development of `ntl`.

**ndmath** A C++ library for working with  $n$ -dimensional arrays. Included in archive.