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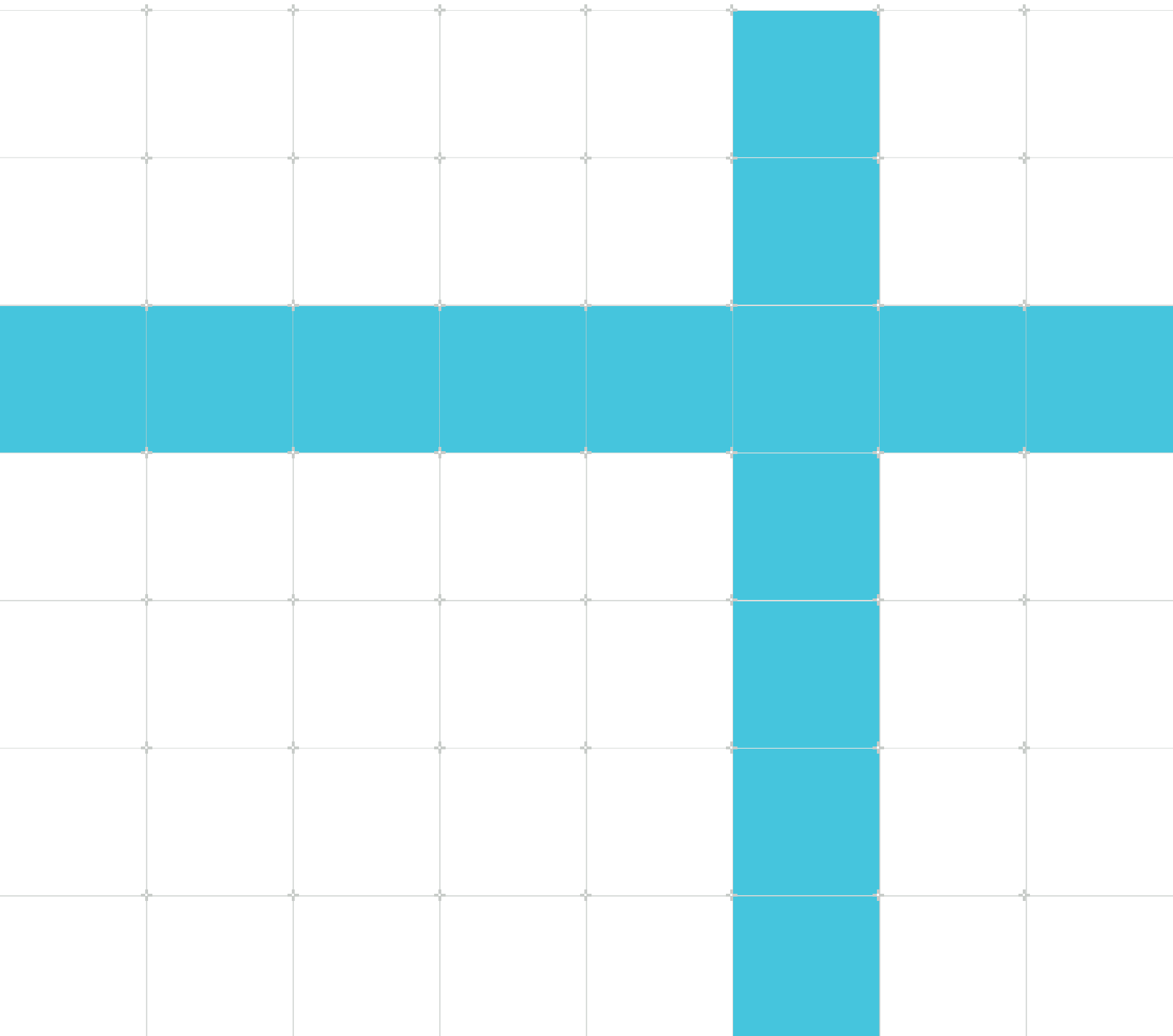
Version 23.10

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Issue

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Release information

Document history

Issue	Date	Confidentiality	Change
23.10	12 October 2023	Non-Confidential	Update for version 23.10
23.04.1	19 May 2023	Non-Confidential	Update for version 23.04.1
23.04	24 March 2023	Non-Confidential	Update for version 23.04
22.1	23 September 2022	Non-Confidential	Update for version 22.1
22.0.2	25 May 2022	Non-Confidential	Update for version 22.0.2
21.1.0	24 August 2021	Non-Confidential	Update for version 21.1.0
21.0.0	30 March 2021	Non-Confidential	Update for version 21.0.0
20.3.0	9 September 2020	Non-Confidential	Update for version 20.3.0
20.2.1	7 August 2020	Non-Confidential	Initial release

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Name:      SLEEF v3.2 and #84474d8
Summary:    SLEEF (SIMD Library for Evaluating Elementary Functions) Vectorized
            Math Library.
Home-page:  https://sleef.org/
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            license text.
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              v3.2: https://github.com/shibatch/sleef/tree/3.2
              #84474d8: https://github.com/shibatch/sleef/tree/84474d8
-----
Name:      FFTW header v3.3.5
Summary:    FFTW (Fast Fourier Transform in the West) is typically faster than
            other publically-available FFT implementations. This is the header file for FFTW.
Home-page:  https://github.com/FFTW/fftw3/blob/master/api/fftw3.h
License(s): BSD 2-clause "Simplified" License BSD-2-Clause). See later section for
            a copy of license text.
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              https://github.com/FFTW/fftw3/blob/master/api/fftw3.h
-----
Name:      Netlib LAPACK v3.9.1
Summary:    LAPACK (Linear Algebra PACKage) is written in Fortran 90 and provides
            routines for solving systems of simultaneous linear equations, least-squares
            solutions of linear systems of equations, eigenvalue problems, and singular value
            problems.
Home-page:  http://www.netlib.org/lapack/
License(s): BSD 3-Clause "New" or "Revised" License (BSD-3-Clause). See later
            section for a copy of license text.
Copyright(s): Refer to Sources:
              http://www.netlib.org/lapack/#_lapack_version_3_9_1
-----
Name:      OpenBLAS e8a68ef
Summary:    OpenBLAS is an optimized BLAS (Basic Linear Algebra Subprograms)
            library based on GotoBLAS2 1.13 BSD version
Home-page:  https://www.openblas.net/
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            section for a copy of license text.
Copyright(s): Refer to Sources:
              https://github.com/xianyi/OpenBLAS/tree/e8a68ef
-----
Name:      JSON for Modern C++ v3.1.2
Summary:    A library for manipulating JSON data in C++.
Home-page:  https://github.com/nlohmann/json

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               https://github.com/nlohmann/json/tree/v3.1.2
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Name:         optimized-routines (Arm) v20.11
Summary:      Optimized implementations of various library functions for Arm
               architecture processors.
Home-page:    https://github.com/ARM-software/optimized-routines
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Name:         Bionic 3de3a5f
Summary:      Bionic is the standard C library (including libc, libdl, libm, and
               libpthread) developed by Google for its Android operating system.
Home-page:    https://android.googlesource.com/platform/bionic/
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Copyright(s): Refer to Sources (bionic/libm/upstream-freebsd/lib/msun/src):
               https://android.googlesource.com/platform/bionic/+/refs/heads/master
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Name:         Cortex-A String Routines - 499d1a6
Summary:      Optimised string routines including memcpy(), memset(), strcpy(),
               strlen() for the ARM Cortex-A series of cores.
Home-page:    https://git.linaro.org/toolchain/cortex-strings.git/about/
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               section for a copy of license text.
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               https://git.linaro.org/toolchain/cortex-strings.git/tree/src/aarch64?
               id=499d1a6
-----
Name:         libpgmath - 202808e
Summary:      Run time library for Flang (Fortran compiler targeting LLVM).
Home-page:    https://github.com/flang-compiler/flang/tree/master/runtime
License(s):   Apache License 2.0 (Apache-2.0). See later section for a copy of
               license text.
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               https://github.com/flang-compiler/flang/tree/202808e/runtime/libpgmath
-----
Name:         libstdc++ v6.0.25 (GCC 10.2.0)
Summary:      C++ standard runtime library.
Home-page:    https://gcc.gnu.org/onlinedocs/libstdc++/faq.html
License(s):   GNU General Public License v3.0 WITH GCC Runtime Library exception
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               https://github.com/gcc-mirror/gcc/tree/releases/gcc-10/libstdc++-v3
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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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