UTAustinX UT.5.05x
Linear Algebra - Foundations to Frontiers

Help

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1.7.4 A Bit of History

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Calculator

1.7.4 A Bit of History

The functions that you developed as part of your LAFF library are very similar in functionality to Fortran routines known as the (level-1) Basic Linear Algebra Subprograms (BLAS) that are commonly used in scientific computing libraries. These were first proposed in the 1970s and were used in the development of one of the first linear algebra libraries, LINPACK. Classic references for that work are

- C. Lawson, R. Hanson, D. Kincaid, and F. Krogh, "Basic Linear Algebra Subprograms for Fortran Usage," *ACM Transactions on Mathematical Software*, 5 (1979) 305-325.

- J. J. Dongarra, J. R. Bunch, C. B. Moler, and G. W. Stewart, *LINPACK Users' Guide*, SIAM, Philadelphia, 1979.

The style of coding that we use is at the core of our FLAME project and was first published in

- John A. Gunnels, Fred G. Gustavson, Greg M. Henry, and Robert A. van de Geijn, "FLAME: Formal Linear Algebra Methods Environment," *ACM Transactions on Mathematical Software*, 27 (2001) 422-455.

- Paolo Bientinesi, Enrique S. Quintana-Orti, and Robert A. van de Geijn, "Representing linear algebra algorithms in code: the FLAME application program interfaces," *ACM Transactions on Mathematical Software*, 31 (2005) 27-59.

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Reading Assignment

1/1 point (ungraded)
Read Unit 1.7.4 of the notes. [LINK]

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