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Scalable Linear Algebra Nicola Spallanzani - n.spallanzani@cineca.it SuperComputing Applications and Innovation Department. Basic Linear Algebra Algorithms Linear algebra constitutes the core of most technical-scientific applications Scalar products Linear Systems

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The majority of SimSQL's built-in linear algebra operations (indeed, the majority of any linear algebra system's built-in operations), are simple and easy to implement efficiently: extracting/setting the diagonal of a matrix, computing the outer product of two vectors (which is of linear cost in the size of the output matrix), scalar/matrix and scalar/vector multiplication, etc. All such "simple" operations are implemented in Java, directly on top of our in-memory representation.

Scalable Linear Algebra on a Relational Database System Shangyu Luo, Zekai J. Gao, Michael Gubanov, Luis L. Perez, and Christopher Jermaine Abstract—As data analytics has become an important application for modern data management systems, a new category of data management system has appeared recently: the scalable linear algebra system.

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