



Matrix Computations

3 Arrays in MATLAB

The array is a fundamental form that MATLAB uses to store and manipulate data. An array is a list of numbers arranged in rows and/or columns. The simplest array (one-dimensional) is a row or a column of numbers. A more complex array (two-dimensional) is a collection of numbers arranged in rows and columns. In science and engineering, one-dimensional arrays frequently represent vectors, and two-dimensional arrays often represent matrices.

3.1 Creating a Two-Dimensional Array (Matrix)

A matrix is created by assigning the elements of the matrix to a variable. This is done by typing the elements, row by row, inside square brackets [].

Variable_name = [1st row elements; 2nd row elements; 3rd row elements; ... ; last row elements]

Example:

If the matrix $A = \begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 7 & 8 & 10 \end{bmatrix}$, then A can be created typing the following syntax,

$$A = [1 \ 2 \ 3; 4 \ 5 \ 6; 7 \ 8 \ 10]$$

3.2 Array Addressing

Elements in an array (either vector or matrix) can be addressed individually or in subgroups. This is useful when there is a need to redefine only some of the elements, when specific elements are to be used in calculations, or when a subgroup of the elements is used to define a new variable.

The address of an element in a matrix is its position, defined by the row number and the column number where it is located. For a matrix assigned to a variable M, M(r,c) refers to the element in row r and column c.

For example if the matrix is, $M = [3 \ 11 \ 6 \ 5; 4 \ 7 \ 10 \ 2; 14 \ 9 \ 0 \ 8]$

Then,

$$\begin{aligned} M(3,1) &= 14 \\ M(2,4) - M(1,2) &= -9 \end{aligned}$$

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Gene H. Golub, Charles F. Van Loan



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Encyclopedia of Parallel Computing David Padua, 2011-09-08 Containing over 300 entries in an A Z format the Encyclopedia of Parallel Computing provides easy intuitive access to relevant information for professionals and researchers seeking access to any aspect within the broad field of parallel computing Topics for this comprehensive reference were selected written and peer reviewed by an international pool of distinguished researchers in the field The Encyclopedia is broad in scope covering machine organization programming languages algorithms and applications Within each area concepts designs and specific implementations are presented The highly structured essays in this work comprise synonyms a definition and discussion of the topic bibliographies and links to related literature Extensive cross references to other entries within the Encyclopedia support efficient user friendly searchers for immediate access to useful information Key concepts presented in the Encyclopedia of Parallel Computing include laws and metrics specific numerical and non numerical algorithms asynchronous algorithms libraries of subroutines benchmark suites applications sequential consistency and cache coherency machine classes such as clusters shared memory multiprocessors special purpose machines and dataflow machines specific machines such as Cray supercomputers IBM s cell processor and Intel s multicore machines race detection and auto parallelization parallel programming languages synchronization primitives collective operations message passing libraries checkpointing and operating systems Topics covered Speedup Efficiency Isoefficiency Redundancy Amdahls law Computer Architecture Concepts Parallel Machine Designs Benmarks Parallel Programming concepts design Algorithms Parallel applications This authoritative reference will be published in two formats print and online The online edition features hyperlinks to cross references and to additional significant research Related Subjects supercomputing high performance computing distributed computing

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interpolation are described In particular the application of error free discrete Fourier transforms for polynomial matrix computations is considered **A Survey of Matrix Computations** Charles F. Van Loan,1990 U.S. Government Research & Development Reports ,1970 **Matrix Computations & Mathematical Software** J. Richard Rice,1983

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