

Digital Arithmetic Ercegovac

Division algorithm

silicon behind the Pentium division bug” . Righto. Retrieved 30 Dec 2024. Ercegovac, Miloš D.; Lang, Tomás (2004). “Chapter 7: Reciprocal. Division, Reciprocal

A division algorithm is an algorithm which, given two integers N and D (respectively the numerator and the denominator), computes their quotient and/or remainder, the result of Euclidean division. Some are applied by hand, while others are employed by digital circuit designs and software.

Division algorithms fall into two main categories: slow division and fast division. Slow division algorithms produce one digit of the final quotient per iteration. Examples of slow division include restoring, non-performing restoring, non-restoring, and SRT division. Fast division methods start with a close approximation to the final quotient and produce twice as many digits of the final quotient on each iteration. Newton–Raphson and Goldschmidt algorithms fall into this category.

Variants of these algorithms...

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