An Efficient Digit-by-Digit Decimal Square Root Algorithm Using Non-restoring Pseudo-Division

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Abstract

A square root algorithm optimized for hand held calculators has been previously disclosed in an article by Egbert [1]. The algorithm is similar to other digit-by-digit decimal algorithms published elsewhere, but with a number of improvements to better adapt the method to a class of BCD calculators. In this paper, a further improvement is disclosed which brings the advantages of non-restoring division, also described in the literature, to the pseudo-division process used in taking square roots.

1 BCD Square Root Algorithm

The basic algorithm we will use is completely described in the article by Egbert and the reader is advised to consult the original paper for a detailed explanation.

Egbert shows that the method for computing square roots closely follows the pencil and paper methods taught in school, but includes modifications to reduce the number of extraneous computations. He also shows how to exploit certain properties of the electronic storage medium. For example, a decimal digit can be easily multiplied by ten by simply shifting it to the adjacent position.

1.1 Pseudo-division

The central computation in the algorithm involves calculating each result digit successively, from highest to lowest. The method used for each digit is the same, and requires subtracting an iteratively modified quantity from a suitable starting value until underflow occurs.[1] This process resembles division, except for the repeated updates to the subtractor, and is referred to as pseudo-division in the literature.

When underflow occurs, according to Egbert, the last subtractor is added back in, thus restoring the least positive value of the result for the next operation. Note that when this strategy is applied to

[1] Egbert refers to underflow as *overdraft* in the article.

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