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## Multiple Constant Multiplication Optimizations Field Programmable

**multiplierless multiple constant multiplication** - multiplierless multiple constant multiplication yevgen voronenko and markus puschel" carnegie mellon university a variable can be multiplied by a given set of fixed-point constants using a multiplier block **design of multiple constant multiplication ... - ijcsmc** - direct fir filter the multiple constant multiplication are implemented using the improved version of truncated multipliers. key words --- fir filter; multiple constant multiplication; truncated multiplier; compressors 1. introduction the finite impulse response filter is an important component for designing an efficient digital signal processing system. in this paper fir filters are ... **multiple constant multiplication optimization using common ...** - abstract the multiple constant multiplication (mcm) operation is a fundamental operation in digital signal processing (dsp) and digital image processing (dip). **multiple constant multiplication algorithms for fir filters** - of these algorithms can provide a way by which the requirements for time and energy of the embedded systems can be met. the core of many of these algorithms is the multiplication of a variable by a set of **optimization algorithms for multiple constant multiplications** - quired for a multiplication with a constant with  $n$  bits set to 1 are simply  $n-1$  adders figure 4 presents an example of how  $11x$  can be implemented using a shift-add approach. **efficient multiple constant multiplication using dsp ...** - fig. 1. simplified architecture of xilinx dsp48e1 block. fig. 2. an example constant manipulation. table i. maximum number of constants per dsp block **multiple constant multiplication by time-multiplexed ...** - multiple constant multiplication by time-multiplexed mapping of addition chains peter tummeltschammer computer science university of technology, vienna, austria **reduced complexity single and multiple constant ...** - reduced complexity single and multiple constant multiplication in floating point precision martin kumm, katharina liebisch, peter zipf digital technology group **multiplication by a constant is sublinear** - multiple precision arithmetic, cryptography and in the design of compilers. in certain applications, like the discrete cosine transform (dct), the implementation of integer constant multiplications is the bottleneck as it largely determines the speed of the entire process. therefore, it is imperative that multiplications by integer constants in these high throughput applications are ... **uncertainty calculations (multiplication) - wilfrid ...** - multiplication by a constant multiplication with multiple uncertainties multiplication with multiple uncertainties calculations with uncertainties when quantities with uncertainties are combined, the results have uncertainties as well. following is a discussion of multiplication. for the following examples, the values of  $x = 2$  and  $y = 32:0$  will be used. terry sturtevant uncertainty ... **multiple constant multiplication with ternary adders** - multiple constant multiplication with ternary adders martin kumm†, martin hardieck†, jens willkommen†, peter zipf†, uwe meyer-baese† †university of kassel, digital technology group, germany **multiple constant multiplication for digit-serial ...** - multiple constant multiplication for digit-serial implementation of low power fir filters kenny johansson, oscar gustafsson, and lars wanhammar **approximation of multiple constant multiplications using ...** - note that the multiplication of a negative constant can be obtained by negating the related output of the mcm block. for our example, the target set  $t$  consists of 11 and 25. **efficient substitution of multiple constant ...** - hwa79] that is often used in dsp to reduce the number of shifts and additions after a multiplication with a constant is replaced by shifts and additions. **optimization of fir filters using mcm and cse techniques** - techniques [20]e multiple constant multiplication (mcm) is defined as a technique to find out the minimum number of adders and subtractors required for the multiplication of multiple constants by an input variable. the cse is defined as a technique to find out the minimum number of addition and subtraction operators by taking operators as common [21]. 3. literature survey there is a lot of ...

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