

Multiple-Valued Programmable Logic Arrays with Universal Literals

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Abstract

A universal literal is a single-variable function and has an ability to manipulate more information than a set literal. The array size therefore could be eliminated by using universal literal generators (ULGs for short) in programmable logic arrays (PLAs), compared to PLAs with set literals. This paper discusses what operator is the most suitable in the term of eliminating the array size. We find four solutions as the good operator structures to eliminate the array size. A speculation of the upper bound of the array sizes is shown. Experiments are also done for randomly generated functions and some arithmetic functions. The experimental results show that the MAX-of-TPRODUCT form PLAs require the smallest array size.

1 Introduction

A multiple-valued very-large-scale-integration (VLSI) has attracted great interest in recent years as one of the most promising approaches for reducing interconnection complexity, both on-chip and between-chip. Multiple-valued logic design, however, requires much time and expensive costs because it is more complicated than that of binary logic circuits. As one of the circuit structures that succeed in overcoming this problem, multiple-valued programmable logic arrays (PLAs) have been studied by many researchers[1]-[6]. On multiple-valued PLAs, minimizing the array size is interesting because it reduces the chip area, the propagation delay and power dissipation. Generally, multiple-valued PLAs consists of literal generators, a first level array and a second level array[1]-[6]. The literal generator generates set literal functions. The signals of set literals and constants are connected to the first-level array. p -Valued set literal generators convert p -valued signals, 0, 1, ..., and $p-1$ into binary signals, 0 and $p-1$. Universal literal function was introduced by

Lei and Vranesic[7][8] and discussed in Refs.[9] and [10]. A universal literal is a single-variable function and convert p -valued signals into p -valued signals. Universal literals have an ability to manipulate more information than set literals.

This paper introduces multiple-valued programmable logic array with universal literals and investigate what operator is the most suitable in the term of eliminating the array size among MAX, MIN, TSUM or TPRODUCT. The size (i.e. the number of outputs) of a universal literal generator[12] (ULG for short) depends on the operator in the first-level array. Considering the size of ULG, this paper picks up four form PLAs: the MAX-of-TPRODUCT form, the MIN-of-TSUM form, the TSUM-of-TPRODUCT form and the TPRODUCT-of-TSUM form. It is shown that a upper bound of the array size is smaller than or equal to $(\lceil \log_2 p \rceil p^e + p(n-e) + 1) \times p^{n-1}$ for p -valued n -variable functions. Experiments are done for 10000 randomly generated functions and some arithmetic functions to evaluate the array size. The results show that the MAX-of-TPRODUCT form PLA is the most useful in eliminating the array size among the four form PLAs.

This paper is organized below. Section 2 describes preliminaries to introduce multiple-valued PLAs with universal literals. Section 3 discusses some structures of the PLAs and shows a speculation for the upper bound of the array size. Section 4 shows the experimental results on randomly generated functions and some arithmetic functions. Section 5 concludes the technical results.

2 Preliminaries

Let $Q = \{0, 1, \dots, p-1\}$ be the set of p -valued logic values, and let $X = (x_1, x_2, \dots, x_n)$ be an input vector of n variables where x_i takes on values from Q . A p -valued n -variable logic function $f(X)$ is a mapping

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