

The main, unfortunate drawback with the programmability of Quine-McCluskey is exponential time complexity. The upper bound for the worst-case running time of the algorithm is given by the following:

$$O\left(\frac{2^n}{n}\right) \quad (1)$$

where n is the number of unique Boolean variables present in the logical expression [3]. This compares poorly to the running time of the Espresso heuristic logic minimizer [5], upper bounded by:

$$O(n.p^2 + n^2.p) \quad (2)$$

where n is the number of unique variables and p is the number of given minimum terms [6]. However, it must be taken into account that for our purposes, given the design on the Karnaugh Map solver, logical expressions with a magnitude of no more than 5 variables will require a correctness check using the algorithm. Hence, the exponential time complexity does not pose a problem with user experience or otherwise. In addition, and following the same logic, there is not reason to use a heuristic logic minimizer, because such an algorithm is designed to handle logic expressions of large magnitudes (i.e., 50 variables or higher), and the end result is a *near-optimal solution*, obtained using a heuristic approach [7]. For our purposes, a near-optimal solution is not the goal; rather, it is to obtain all confidently optimal solutions of a given non-large logical expression, because they are all required for error checking. For a more complex solver implementation primarily concerned with trading accuracy for speed, the Espresso logic minimizer would be the best option.

III. CHALLENGES

A significant challenge in implementation was the branching of the algorithm after the DERIVE-NTH-ORDER routine. It was not immediately obvious that certain permutations of minimum term array T predict multiple confidently optimal solutions, which are all correct solutions, while others permit only one. The implementation of Petrick's method [8] solved this problem, but such a solution may significantly increase the running time as added overhead, for example, if the magnitude is set to 7 or 8 variables, and all optimal solutions must be computed.

Another limitation of the algorithm lies in the cases when certain minimum term combinations producing very large prime implicant charts, yet yielding no essential prime implicants for the function, known as the cyclic covering problem [9]. This problem is usually circumvented using the Petrick's method, but such a solution is unrealistic when the prime implicant chart is too large. In this case, the running time increases so rapidly that it is no longer practical to use the algorithm to obtain an optimal solution for this particular set of minimum terms.

We developed a special technique for creating a comparator that would check if two minimum terms, expressed

in the binary system, differed in only one bit at an arbitrary position. For a binary representation of a term stored as a string type, it was merely a question of string manipulation. However, when it was necessary to compare unsigned integer values, a different approach was used:

$$x = m_1 \text{ XOR } m_2 \quad c = \log_2 x \quad (3)$$

where m_1 and m_2 are minimum terms to be compared. If $c \in \mathbb{N}$ then the two terms differ by one bit.

IV. PROTOTYPE

The user experience of the Karnaugh Map solver will give the user freedom to arbitrarily set the challenge with regards to the Karnaugh Map he or she is about to solve. The user interface will prompt the user with a magnitude selection dial (with values ranging from 2 to 5) and a difficulty slider, the value of which will determine the quantified "difficulty" of the minimization problem. This property is defined as follows: suppose that the problem is given as an array T of terms with size n containing random (non-repeating) values in the range $[0, 2^m - 1]$ where m is the magnitude of the expression. Then n will be calculated as the floor of $(m + (\text{SLIDER_VALUE}) / 1.7)$, where m is the magnitude and the SLIDER_VALUE is can take value in the range $[1..6]$. Based on these properties set by the user, a pseudorandom array of minimum terms is generated, which will populate the Karnaugh Map to be solved with $ON(1)$ terms.

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