

evolved until 300 generations.

The table 1 shows the results when use this algorithm of this paper and the number of testing vehicles, C , are 6, 7, 8, 9, 10, 11, 12, and the results by using serial and parallel method.

TABLE1 THE RESULTS OF THE ALGORITHM

	Serial Testing	The Algorithm of This Paper							Parallel Testing
number of testing vehicles	1	6	7	8	9	10	11	12	20
total testing time(hour)	411	74	57	57	49	45	37	37	25

From table 1, given the number of missiles, types of missiles and the maximum testing time, the algorithm of this paper can get optimum number of missile testing vehicle in different cases. In the experiment, when the number, types, testing times of under-testing missiles are definite, if the maximum limited time given is 57 hours, then 7 missile testing vehicles can meet the request of wartime. Above all, the algorithm has a unique advantage, the corresponding optimum numbers of the testing vehicles using it can be determined simultaneously with different maximum testing times. That is only the number and types of missiles are given,

the optimum vehicle within some maximum deadline testing time can be easily confirmed by this algorithm. So this method can optimize the support scheme and save the support cost.

V. CONCLUSION

To adapt for the needs of accurate support, we investigated the optimization method based on GA of the missile testing vehicles using for precision-guided missiles. Compared with the traditional algorithms, the method proposed in this paper not only definitely can get optimum value, but also can get a very perfect balance between missile testing cost and testing time. Compared with the traditional method, the method can better meet the future war and can improve the support efficiency

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