

ABOUT ENGINEERING-PSYCHOLOGICAL TEST AT TRAJECTORY CALCULATION KIND, WHICH HAS THE UNIFORMLY DISTRIBUTION OF INTERMEDIATE AND FINAL RESULTS

Zlobin A. I.¹, Koganov A. V.², Rakcheeva T. A.³

¹NIISI RAN, 117218, Nakhimovsky st. 36, corp. 1, Moscow, Russia; mr.zlobin@mail.ru

²NIISI RAN, 117218, Nakhimovsky st. 36, corp. 1, Moscow, Russia; koganow@niisi.msk.ru

³IMASH RAN, 117334, Bardina st. 4, Moscow, Russia; rta_ra@list.ru

We continue the work to testing the people ability of parallel logic data processing [1-3]. The basis principle of research is the producing two series of testes to tested man. In first series (C1) the parallel processing of initial date is effective. In other series (C2) that method gives not gain in solution time [2]. We measure the symbol number which the man treats in time unit with discount true solution. The realization of C1 tasks contents the search of maximum in the table, which is filled by two-digit numbers. The C2 task requires drawing the trajectory from above to down on triangle table by rule: on each step the trajectory continues in one at two cells which contents the larger number. If in series C1 the “channel capacity” (CC) increases by increasing of table size, and in C2 series CC do not depend long of trajectory, then we indicate the parallel logic work in C1 seres. The increasing CC in both series means the increasing speed of work without parallelism. The stagnation of CC in both series corresponds sequential work with constant speed. The increasing CC only on C2 is interpreted as non-adequate of method for present experiment member. Experiment confirms the effectiveness of that approach [3]. Approximately the half of experiment members shows parallel work. Non-adequate results are not observed. Bat analysis of series C2 discovers the theoretical regularity which permit (in principle) to guess the solution with advanced probability. If in each step the passes are equiprobable then resulting cells on final level have not-uniform statistic distribution. In current time we develop new task series of C2 kind in which all intermediate passes and results sells have uniform statistic distributions. To those purpose the trajectory calculating realizes on table of special type which imitates random walk of trajectory on cylinder. By task condition if the trajectory goes out table row then we realize the pass to other endpoint of that row. The purpose of that work is the compare of experiments results by two schemes C2.

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