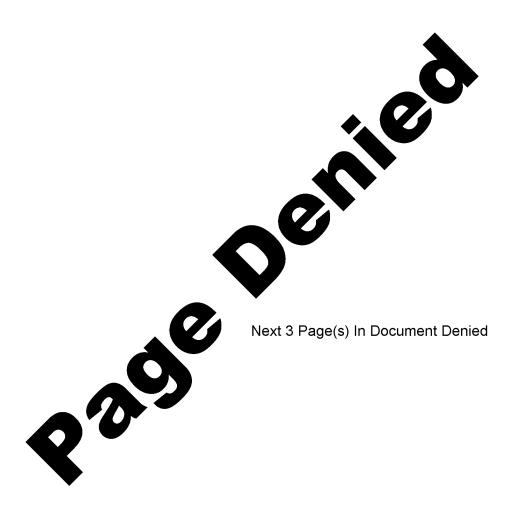
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Ways to Reduce the Time Required to Plan the Movement of Troops of an Army over a Great Distance

by
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The necessity of immediate movement of troops of operational formations at high rates of speed from the interior of the country for the purpose of their timely arrival at an area of combat operations to reinforce the first operational echelon urgently requires that such a movement be planned in advance, even in peacetime.

However, the experience of operational-strategic exercises and war games shows that with the beginning of military operations, especially when they begin with surprise massed nuclear strikes, the situation can be altered abruptly and as a result there is required not only a more precise definition of the plan worked out beforehand but also the adoption of a new decision and planning for the movement of large units and units of combined-arms and tank armies. Under such conditions planning will most often be carried out in an extremely limited time, parallel to bringing troops to full combat readiness and eliminating the aftereffects of enemy nuclear strikes.

The efficiency of the work of the commander and staff of the army and of the subordinate commanders and staffs during this period must be such as not to delay the beginning of the movement of troops. During the time of bringing forces to full combat readiness, it is necessary to plan out the movement as a whole and to convey the tasks to the units and subunits. In this way the forces can immediately begin movement into the area of combat operations without being exposed to danger of contamination from enemy nuclear and chemical weapons in combat alert assembly areas.

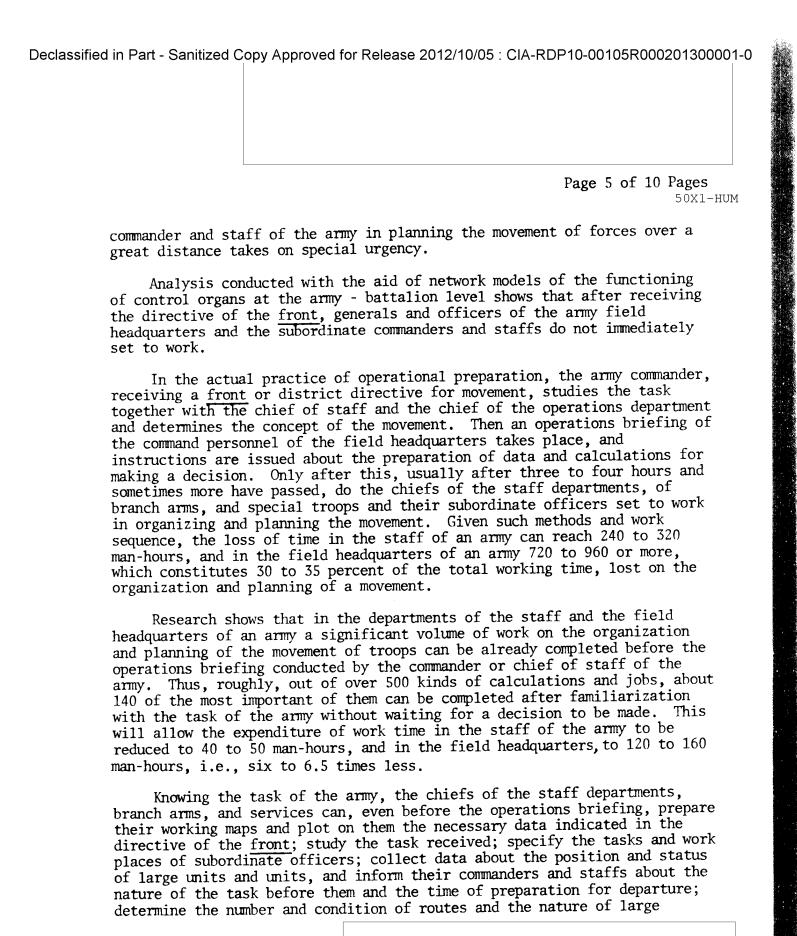
Calculations and the experience of exercises conducted in different military districts in 1963 to 1967* show that in all four to five hours are needed to bring divisions kept at wartime TO & E to full combat readiness, but planning the movement of the troops of an army takes, on the average, 14 to 15 hours. In this time troops could advance 200 to 250 kilometers, accomplishing a march of a day's march in depth. This is why research into ways to reduce the time and increase the efficiency of the work of the

*During our preparation of this article, materials of nine command-staff exercises and six war games were analyzed.

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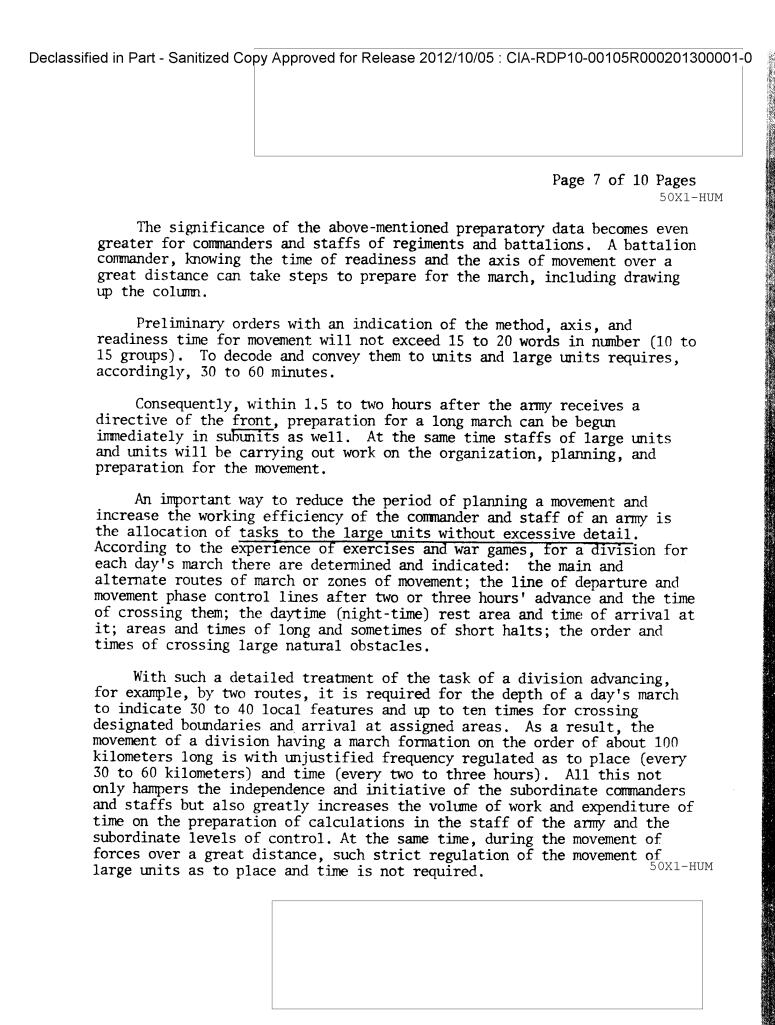
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natural boundaries in the zone indicated; specify the make-up of the enemy grouping and the nature of its possible operations; organize the work of subordinate officers in the preparation of calculations and suggestions for the decision to be made; prepare preliminary calculations of the march; organize communications with the staffs of cooperating operational formations; and carry out other tasks.
For example, in one operational-strategic exercise of the Red Banner Far East Military District, the officers of the field headquarters of the 15th Army (in the game) set to work on the organization and planning of a movement 35 to 40 minutes after, and in the 12th Tank Army (in the game) in an exercise of the Belorussian Military District in 1965, 25 to 30 minutes after receiving a directive of the front. Incidentally, in the 15th Army, two copies of the directive of the front were received. The commander of the army, the chief of staff, and the chiefs of the operations department, intelligence, and engineer troops worked with one copy, and the chiefs of the primary staff departments, branch arms, and services worked at the same time with the other. The commander of the 12th Tank Army familiarized the chiefs of the primary staff departments, branch arms, and services with the contents of the directive of the front in the course of 15 to 20 minutes after its receipt. With this method loss of working time in the control organs of the army was almost fully prevented and the period of organizing the planning of the movement could be shortened to six to ten hours.
A significant reduction in the period of planning the organization of a movement is attained by carrying out <u>parallel</u> planning at all levels of <u>control</u> . For this it is necessary to get the extremely necessary <u>preliminary</u> data for planning to subordinate commanders and staffs in good time. These data include primarily the method, axis, and routes of movement, time of preparation for the march and departure times, the area of the first day-time rest and the time of the beginning of the march.
The division commander and staff, knowing the method and axis of a movement and the time of preparation, can indicate the basic measures concerning the preparation of the routes and the forces and means necessary for this, determine the grouping of forces and means on the march and in the rest area, make calculations for the march, study the nature of large natural boundaries, take note of methods and times for negotiating them, make a decision, plan out the march along general lines, organize reconnaissance and the traffic control service, send out a reconnaissance group to the rest area, and begin preparing the units for the march. 50X1-HUM





The division commander and staff are fully able to plan the movement of units independently, especially for the first days' marches, when contact with enemy ground forces groupings and his large-scale airborne or amphibious landing forces is not very likely. For this it is necessary to inform them of the routes (zone) of movement and the beginning of the march, the rest area and the arrival time there, and also the security measures according to the army plan. Movement of large units under these conditions in the interests of fulfilling the operational plan is regulated in sufficient detail by the size and period of the day's march.

In the case where large units and units subordinate to the army or front move forward immediately after a division, it is advisable for the division to determine the beginning of the movement, periods of crossing large natural boundaries, times or areas of halts and one to two movement phase control lines for the movement to prevent bunching up of troops, especially before "bottlenecks".

A significant reduction of the number of fixed lines and areas for large units, as well as the times for crossing them will sharply reduce the length of planning in the army and the time of conveying tasks to the large units.

In the practice of operational preparation, the movement of an army is planned in detail for the entire depth by day's marches. The planning of each of them cannot be equally complete, as it is difficult or even impossible to foresee in every detail the probable changes of the situation in the area of combat operations and on the routes of the movement, especially towards its completion.

Abrupt and rapid changes in the situation in the zone of movement will necessitate the introduction of substantial changes in the plan, amplification or assignment of new tasks to the large units and units, especially for getting around or over extensive zones of contamination, areas of massive destruction, zones of flooding and large natural barriers. Therefore it is advisable in the army, based on the concept of the commander, at first to plan the movement of forces in detail only for the first two or three days' marches and along general lines for the subsequent marches. The tasks for the large units and units are assigned for one march and they are briefed on the axis of movement for the subsequent day or two.

This will allow tasks to be defined and conveyed to large units and units for the first day's march significantly before the movement of the



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troops of the army is planned for the entire depth. In this case, the beginning of a movement is not made to depend on the completion of the entire plan, and the goal and concept of the army's move also are kept secret. Experience with a series of exercises shows that the first day's march of the troops can be planned in 2.5 to three hours in an army, and in a division in 4.5 to five hours after receipt of a directive of a front. This time does not exceed the periods of bringing large units to full combat readiness.

In the work of the control organs of the army and division during planning of a move over a great distance, considerable time has usually been taken up by the making of various calculations, especially of the depth of the march columns, the time of crossing designated lines and the time of arrival at the assigned areas. The special feature of these calculations is that the initial data needed to make them are relatively constant in value. Therefore, the staff of the army and the division staffs can prepare beforehand tables, schedules and nomograms with which to speed up significantly the making of calculations in planning a movement. Thus, having data on the number of vehicles in subunits, units, and large units, it is possible to calculate beforehand the depth of their columns depending on the speed of movement and the amount of distance between them. Time for calculations of the march is thereby reduced by about 15 to 20 percent.

Estimates show that the general volume of work by the staff of an army in making all the necessary calculations for a day's march will constitute roughly 350 to 500 mathematical operations, and for the entire depth of the movement 1,750 to 2,500. With manual computations it has to take a significant number of officers a long time. So recently various calculators have been used more and more for calculations of the march.

The effectiveness of employing keyboard calculators and especially electronic computers in these calculations is confirmed by the following examples. In the exercise ELEKTRON, to estimate the depth of the columns of the march formation of an army manually required two hours. The same calculations were performed on a keyboard calculator in 40 minutes, that is, three times as fast. In one of the practical problems in the Military Academy i/n M. V. Frunze the march of a tank division for a 600-kilometer depth was calculated with the aid of an electronic computer in 20 to 25 minutes; at the same time, the manual method took about eight hours, that is, 19 to 24 times as long. It is also well known that calculations of the march performed with the aid of the electronic computer enjoy a high de50x1-HUM of accuracy.

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At the same time, experience in using e combined-arms staffs has revealed that office not always have the necessary practical skill problems for solution on the electronic compuncommonly, the time lost in programming the preliminary operations exceeds machine time paramount task of staff officers is the quice existing and forthcoming computers, which wi in the working efficiency of organs of contra	cers of combined-arms staffs do als in the preparation of outer. Therefore, not e problems and fulfilling the ten to 15 times and more. The ckest possible mastery of all facilitate a sharp increase
In conclusion, we stress that the ways time required for planning a movement of tro definite degree contribute to a significant developed between the period of bringing lar combat readiness and the time spent by contr of the movement.	pops of an army can to a reduction of the gap that has rege units and units to full rol organs in the organization
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