

SPECIAL COMPUTER SYSTEMS FOR PROCESSING MEASURING INFORMATION

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Current century is a century of innovative technologies and one of the most exciting innovation of 21 century is development of computer systems. Everything in modern world is interconnected. Nowadays all so arranged that all the processes as well as scientific research, usually accompanied by a huge amount of measurement information.

The complexity of algorithms for processing measuring information is different for each of measuring informations. Often the processing of measuring information without computational technologies takes a huge time, than required for providing normal functioning of the object of research or production process.

Therefore, the implementation of information-measuring and control systems on the basis of personal and industrial computers allows to achieve the reduction of time control, measurement and data processing, improve the reliability of controls in order to provide measurement information in easy to read format, to automate the procedures of the formation of accounting documents.

The report shows the necessity of creating a modern system of processing measuring information in order to control the position of the contact rail using special devices - measuring trolleys or measuring wagons which are used underground. The control of the position of the contact rail is due to the measurement of the spatial position contact rail relatively to the rails.

The system of processing of measuring information is designed to document and display the received data in a convenient form to the end users. Furthermore, it allows on the basis of processing of measuring information to take a decision of necessity preventive and repair work.