

The history of our country proves that bringing the computer industry to the world's leaders using "cloning" of traditional systems and technologies is unacceptable. This strategy in best cases preserves the backlog. The solution could be found only by means of creation of fundamentally new products.

The project «Series production and product line market launch of highly performant processors with a principally new multicellular architecture and minimal power consumption" corresponds precisely to the fundamental condition of novelty. As you know, the processor architecture is the key to the development of the computer industry. It directly or indirectly affects virtually both hardware and software components of computer systems. Dominance in the field of architectural design automatically provides leadership in microprocessor technology. Multicellular architecture proposed in the project solves a number of problems within computer industry, which cannot be effectively solved by means of traditional Von-Neumann model. In particular, the growth of computing performance, reduction of energy consumption, scalability, natural implementation of parallelism (without involving the solution of problem with paralleling) are solved in the proposed project by means of the architecture of the processor, not by increasing its complexity as in traditional processors.

The project has an outstanding attractiveness for us considering that the architectural features of the processor afford to design commercially highly sought applications based on original Russian technology, applicable for the production on the accessible for us technological level. As we know, accessible technological level is a population of 90 nanometer microchip technological production processes, which we plan to implement in a fairly short time in another project which has already received the approval of RUSNANO, with participation of Sitronics based in JSC Mikron.

We believe that derived data on market outlet availability for new processor based devices from project initiators (originally planned to apply in hearing aids, but now the product goes beyond this application sphere) is very convincing. In case of project realization Sitronics receives commercially promising chip design for production at new 90 nm plant. Such synergy is very important for both projects, providing a guaranteed domestic industrial base for multicellular processors and simultaneous utilization of 90 nm production capacity.

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