

The result of my work is a system for distributed verification of properties of natural numbers. It has two parts – server and client. These communicate via HTTP protocol. The clients perform the computation, the server distributes the work (numbers) and gather results (properties of the given numbers). The input of one computation should be one natural number, as well as the result (output). The distribution can be used for verification of a given property for several natural numbers. Particular jobs can be added to the client as plugins. Two examples of plugins are a part of the work. The first one is very simple and shows how to create plugins. The second example searches for prime numbers (and has it's own arithmetics library for long numbers) - the server can distribute (possibly big) numbers, the client will verify whether a given number is a prime number.