

# Systems, Methods and Apparatus for Implementation of Formal Specifications Derived from Informal Requirements

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## DESCRIPTION

This invention is a computer-accessible storage medium for generating high level program source code from software development systems. The data of informal specification is mapped into formal specification segments by automated logic engine by concurrent laws. The set of rules are applied to data representing the problem to determine problem solution by logical manipulation and data analysis by concurrent laws. The data sequences of informal and formal specifications are matched before mapping when performing translation without using automated logic engine. The formal specification segments are translated into instructions of high level computer language using concurrent laws.

## FEATURES AND BENEFITS

- Complete and consistent requirements of software development system can be ensured with respect to the formal specifications.
- Accurate representation of system throughput is ensured.
- The generation of errors of the software development system is reduced, so that the durability of the software development system is improved without the need for revalidation or retesting.
- The need for performing consequential changes of the software development system and large computational facilities are avoided, so that the maintenance cost is reduced.

## APPLICATIONS

- Electrical Engineering
- Business Management
- Artificial Intelligence

## FOR MORE INFORMATION

If you are interested in more information or want to pursue transfer of this technology, GSC-14941-1, please contact:

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