



KEY FEATURES

Transforms Legacy Applications for Web or Cloud Enablement

Ensures High Quality Software

Leverages Existing Business Logic

Provides Graphical Representation

Enhances Software Performance

Re-uses Code Components

Automates Development Process

Simplifies Software Maintenance

Generates Documentation for Current and Future State

Reduces Operational Costs

Patented Mathematical Foundation

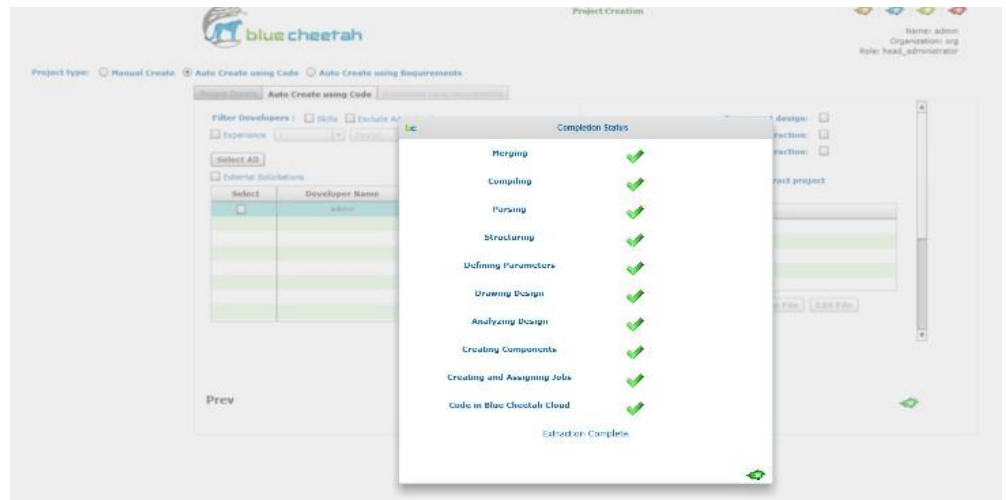
Blue Cheetah is the code development ecosystem designed by Massively Parallel Technologies to provide the power to create, analyze, maintain and deploy modern applications to any device from one integrated platform with unprecedented levels of automation, reliability and optimization. MPT was founded in 2000 to redefine software development and to this end we currently have thirty issued patents and one patent pending on this technology.

Methodology

Blue Cheetah’s approach to application modernization leverages existing business logic to accelerate the transformation of existing code automatically and accurately. This approach preserves the business’s competitive advantages while reducing risk and code maintenance costs. Transformed applications are ready to be re-deployed to a cloud or web environment.

Step 1: Extraction

Importing legacy code into the Blue Cheetah extractor provides a graphical analysis and creates a design diagram of that code. It enables instantaneous visualization of the existing business logic and code structure. This automatically generated design diagram is more than a simple flow chart, it is a repository for **all** the code from which all changes are initiated.



Step 2: Graphical Analysis

Blue Cheetah’s analysis of the graphical design diagram highlights software interdependencies, inefficient structures, back doors and opportunities for parallelization and other code improvements. This level of insight into legacy code immeasurably expedites any code development or functional improvements. A developer has immediate access to the relevant code by simply clicking on the object within the graph or hovering over an object. Any code changes are immediately updated in the design diagram and are accessible to all the developers assigned to the project. Another advantage of this design structure is that the documentation is automatically updated simultaneously.

BENEFITS

Create modern application architectures based on existing business requirements to protect the organizations competitive edge

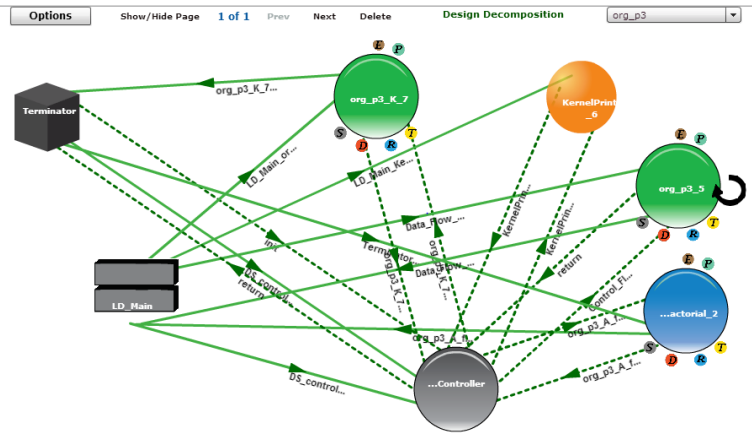
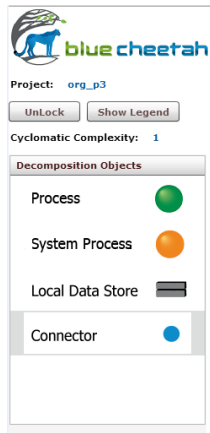
Increase business productivity, quality and control with service oriented architectures enabled for the cloud or mobile environments

Reduce operational costs of supporting and maintaining legacy applications without changing core business model

Ensure that all stakeholders have accurate and up to date information on the project's process and progress

Automatically document the current and enhanced design states

Reduces the analysis of legacy code from man years to a few days



Step 3: Transformation

Blue Cheetah transforms all code into state machine (mathematical structure) for analysis. This allows calculations to be performed for optimization, accuracy and consistency. For instance, Blue Cheetah will provide a cyclomatic complexity analysis to indicate how efficiently the code will be able to be maintained. This also allows all control flow and data flow to be separated on the design diagram and compilation and interpretation to be blended for optimal speed and flexibility within the code. Blue Cheetah also requires that a test procedure be written for each individual process created.

Step 4: Execution

Newly transformed and/or created code is ready to be run in the Blue Cheetah cloud or other environment. The state machine formulation of the software in Blue Cheetah provides the capability to verify the validity of each step in the execution of an application.

Management:

The Blue Cheetah environment not only assists developers with the task of understanding and improving legacy code, but also provides tools for managing the project. As requirements are defined, developers assigned and work is created, Blue Cheetah dynamically and automatically creates a Gantt chart of personnel, time and budget. This chart is not a static element, but is continuously updated by Blue Cheetah as progress is made towards the completion of the project. This valuable tool is also predictive, identifying and highlighting any design elements that are in danger of schedule slips at a glance eliminating the need recurring status meetings.

Blue Cheetah - bringing software to market on time, fully tested and structurally optimized.



ABOUT US

MPT is committed to creating a holistic ecosystem for software development and rejuvenation, providing the best ROI for scalable and reliable solutions.

Massively Parallel Technologies
 ASU SkySong Facility
 1475 N Scottsdale Road
 Suite 200
 Scottsdale, AZ 85257-3538

(303) 926 8555

www.massivelyparallel.com