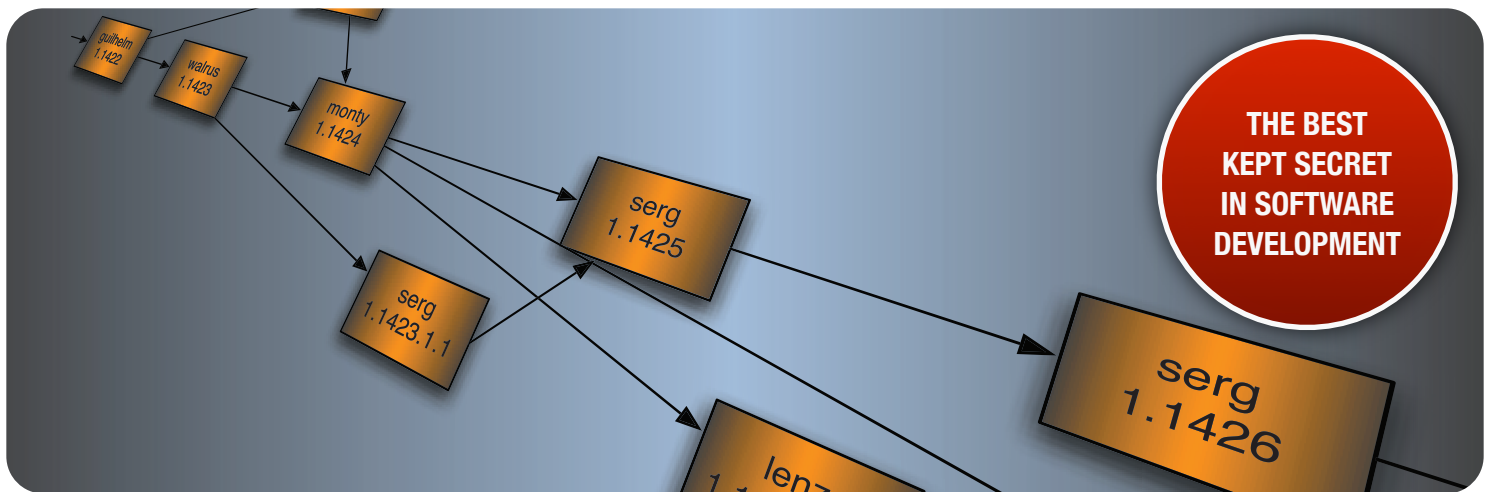


BITKEEPER

IMPROVING PRODUCTIVITY ONE DEVELOPER AT A TIME



BITKEEPER HAS BEEN SHOWN TO DOUBLE THE PACE OF SOFTWARE DEVELOPMENT IN THE MARKETPLACE. TOO GOOD TO BE TRUE?

Productivity begins at the source with the right developer tools

Software organizations are feeling increasing pressure to deliver more features in less time while adapting to shifting customer needs. Recently, new software development practices have been introduced to help organizations adopt a more agile and productive workflow in response to these demands.

While new processes may help, developer tools, and in particular software configuration management tools, have become a roadblock to efficiency. BitKeeper is a peer-to-peer revision control system that was designed to meet the modern challenges of a fast paced, scalable development environment.

Configuration management that goes where you need to go

Unlike legacy, client-server based SCM systems, BitKeeper creates a replica of the repository for each developer or workspace. Changes are grouped into atomic, immutable, and reproducible units of work called changesets which are committed to a developer's local repository. Committing changes no longer requires access to a bottlenecked network and the risk of polluting the main repository is eliminated.

At the same time, changesets can be propagated, or "pulled" and "pushed," to any other repository in a lightweight fashion as the only information going over the network is the difference in changesets (i.e. the incremental change).

The result is a hierarchical system of distributed repositories that adaptively supports the evolving structure of your project as well as the structure of your organization.

THE BITKEEPER CHALLENGE

If you don't see an improvement in your productivity after one year, qualified candidates can receive a full refund of the license fee. Take the challenge.

Take a free test drive at
www.bitkeeper.com

Making individuals more productive

A software organization's productivity is only as strong as the productivity of its individual developers. Other SCM solutions can erode productivity by introducing bottlenecks associated with a centralized repository or with pre-planned branches that quickly go out of sync. BitKeeper solves these issues by providing flexibility to individual developers without compromising group level coordination.

No server bottlenecks. All developer work is committed locally, eliminating problems with network latencies and offline servers. This is particularly advantageous for remote or offline development. Merges are done locally, keeping critical servers free. BitMover was able to host hundreds of open source projects involving thousands of developers with only a small \$2000 PC because the load was distributed across the developers' machines.

Improved debugging and maintenance. Developers can drill up and down from any line of code to all related modifications in the same changeset. The fully annotated history browser displays all previous versions of each line of work, showing how and why the code evolved the way it did.

Never lose valuable history. BitKeeper maintains more metadata than any other SCM tool, providing engineers with a detailed audit trail of their work. In particular, BitKeeper does not lose or obfuscate individual units of work on merges, preserving everyone's incremental work and authorship in the event of a rollback. In addition, all metadata can be queried for customized reports and scripts.

Making groups more productive

A project's potential to scale depends on an organization's ability to divide and conquer. BitKeeper enables developers within a group to share, merge, and test code collaboratively without affecting any other group. A rich set of triggers can then control how group level repositories are synchronized and updated. As a result, changes are more likely to be peer-reviewed and tested early in the cycle.

Peer-to-peer collaboration. While other SCM solutions only permit you to commit changes "up" against the development or release branch, BitKeeper enables sideways, peer-to-peer updates that leverage collaboration within groups. Whether you employ Scrum or some other variant of Agile Development, BitKeeper allows developers to push and pull from each other, promoting peer reviews and incremental merging and testing.

Flexible workflow. Legacy SCM solutions require you to predict the structure and progression of your project. Pre-planned branches often diverge due to changing requirements and priorities, causing developers to work outside of revision control or spend too much time synchronizing branches.

BitKeeper's branching is on-demand and adaptive. Workflow can quickly adjust to changing customer needs. If a developer's side project suddenly becomes top priority, for instance, the developer's repository can turn into the staging area for additional developers added to the project. Meanwhile, BitKeeper's best in class auto-merging and its rich set of triggers keep repositories in constant sync.

Customer Success

"It is clear that a modern, cost-effective development operation must employ flexible and lightweight infrastructure tools to quickly respond to the needs of customers. BitKeeper is the only tool on the market that allows us to exceed customer expectations and reduce costs."

- Asidua, Inc.

Key Features

- Hierarchical repositories
- Multi-site development
- Atomic changesets
- Peer-to-peer updates
- Dynamic branching
- Ability to undo changesets
- Browsable revision history
- Offline development
- Developer sandboxes
- Staging areas for testing
- File rename tracking
- File symlink tracking
- Automated integrity checks
- Fully annotated history
- Advanced automerging
- 3-way file merging GUI
- GUI and CLI support
- Scriptable process control
- Supported on all major platforms

About BitMover Inc.

BitMover is a technology innovator in developer productivity tools. Founded in 1998, BitMover develops and supports BitKeeper, its flagship SCM system. BitKeeper significantly increases development speed and overall productivity by providing the industry's only peer-to-peer collaborative development tool. Software and hardware companies ranging from start-ups to the Fortune 500 are using BitKeeper to more effectively manage their development projects. BitMover is privately held with headquarters in Silicon Valley and development teams in North America and Europe.