

CloudBees Build Acceleration™

Wait less. Innovate more.

The Keys to Innovation and Quality

In the industries of today, every company is a software company. Embedded systems, IoT, automotive and autotech companies find themselves competing more and more at the software level. They need to deliver innovation faster or risk missing the market. Long builds and non-value-add rework limit innovation and cause late releases. CloudBees Build Acceleration™ helps organizations create more time for experimentation and iteration by accelerating build times and shortening QA and security testing cycles.

How Does CloudBees Build Acceleration Work?

CloudBees Build Acceleration is a build and test acceleration platform for make-based, Android AOSP, Embedded Linux, BitBake and Visual Studio build environments. It intelligently and automatically parallelizes software tasks across clusters of physical or cloud CPUs to dramatically lower build and test cycle times.

CloudBees Build Acceleration

Hours to minutes. Minutes to seconds.

Build Acceleration

- » Accelerates Android AOSP, Embedded Linux and Visual Studio builds by 5x or more.
- » Discovers and optimizes dependencies.
- » Guarantees software build correctness.
- » Eliminates redundant work through build avoidance.

Test Acceleration

- » Improves quality by running more tests, more frequently as part of a CI cycle.
- » Accelerates both unit test and static code analysis test cycles.
- » Shifts testing left to find bugs earlier.

Resource Optimization

- » Builds faster on less than half the infrastructure.
- » Bursts to cloud during peak times.
- » Eliminates surprise cloud charges from zombie build or test instances.

The Business Benefit

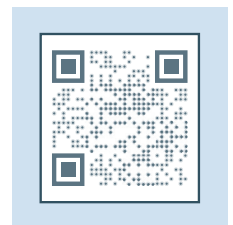
Accelerate your development velocity by 2-3x. Save 50% or more on your infrastructure costs.

At a Glance

- » Fault-tolerant workload distribution uses local, network or cloud resources.
- » Smart load balancing ensures optimal use of cores across the cluster.
- » Intelligent caching eliminates redundant work through build avoidance.
- » Dynamic resource provisioning provides instantaneous scale up/down.

“Build times of many of our IVI projects were reduced by 75% resulting in an overall development velocity increase of 200%. Furthermore, the wait time for engineers submitting build requests went from one hour to 10 minutes.”

John Penoyer
Engineering Group Manager
Panasonic Automotive Solutions





Acceleration

Deliver higher quality software up to 5 times faster, with less wasted effort.



Resource Optimization

Reduce dedicated build hardware by 50%, increase existing infrastructure utilization and easily burst to the cloud.



Insight

Pinpoint problems and identify bottlenecks with unprecedented visibility into build integrity and infrastructure utilization.

Key Features	Key Benefits
<ul style="list-style-type: none"> » Intelligently parallelizes software tasks across clusters of physical or cloud CPUs. » Automatic build dependency discovery and optimization. » Patented JobCache feature eliminates redundant work through build avoidance. » Architected for mission-critical, large-scale production environments. » Burst to Amazon Web Services (AWS), Microsoft Azure, or Google Cloud Platform (GCP) cloud infrastructure during peak times. 	<ul style="list-style-type: none"> » Development teams can focus on innovation and quality. » Less wasted time and effort. » Build faster on half the infrastructure. » Visibility into: <ul style="list-style-type: none"> - Processes. - Optimization. - Fault analysis. - Capacity planning.

Works with Your Existing Tools	Supported Platforms	Supported Clouds
<ul style="list-style-type: none"> » GNU Make » Ninja » BitBake » Buildroot » NMake » Visual Studio » Klocwork » Boost » CPPUnit » Google Test » Parasoft » Coverity and more 	<ul style="list-style-type: none"> » Red Hat Enterprise Linux » Ubuntu Linux » SUSE Linux » Solaris » Yocto Project » Android Open Source Project (AOSP) » Microsoft Windows Server 2016, 2012, 2008 	<ul style="list-style-type: none"> » Amazon AWS » Microsoft Azure » Google Cloud Platform

Schedule a Demo Today

Contact us: info@cloudbees.com