

Electric Accelerator

Software Build Acceleration,
Analytics and Build Clouds



“The thing that made us look into ElectricAccelerator was the need for a huge need to boost software development productivity— getting developers back to developing code and getting the QA team to quickly test the changed code.”

Jon Burt, Development Group Manager, SCM, Intuit

ElectricAccelerator® dramatically speeds up software builds by automatically distributing build jobs over scalable resource clouds and multi-core desktops. ElectricAccelerator enables development organizations to improve software time to market, increase infrastructure utilization, and enhance developer productivity.

According to a survey of organizations using Electric Cloud tools by industry analyst firm Voke, Inc., monetary savings of up to \$1 to \$2 million per year were identified by 40% of participants. Respondents identified monetary savings through decreased wait time for builds, faster time-to-market, and eliminating the creation and maintenance of internally developed tools.

ElectricAccelerator dramatically improves developer productivity by speeding up software builds up to 20X, through intelligent and optimized parallelization across multi-core desktops or scalable clouds of development infrastructure.

ElectricAccelerator offers the following unique capabilities:

- Optimized Dependency Management
- Reliable Blazing Incremental Builds
- Fault-tolerant Workload Distribution
- Enterprise Scale, Centralized Build Cloud
- Rich Analytics and Monitoring

Key Benefits

Speed

Proven to speed up the world’s most complex builds by as much as 20x, enabling dramatic developer productivity gains.

Analytics

Identifies and addresses errors, bottlenecks and shortages through visibility into the details of builds and the build infrastructure.

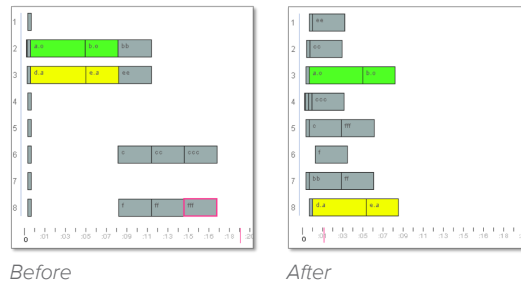
Cloud

Centralized build infrastructure, real-time resource allocation, and fault-tolerant workload distribution.

Up to
20X
faster than gmake

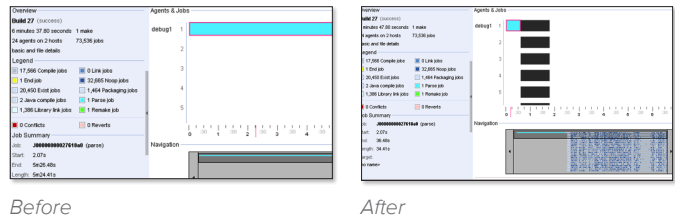
Optimized Dependency Management

Performance: Patented technology enables optimized dependency management for optimized, massive and safe parallelization.
Maintenance: Eliminates manual efforts to manage complex build dependencies.



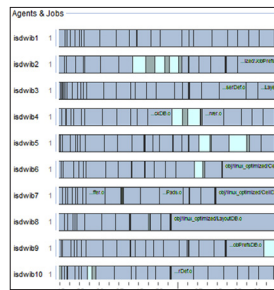
Reliable Blazing Incremental Builds

Correctness: Leverages automated dependency management for guaranteed correctness
Performance: Eliminates build system overhead



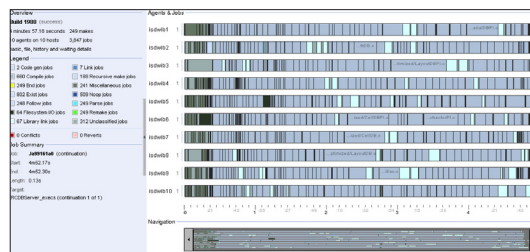
Fault-tolerant Workload Distribution

Scalability: Leverages hundreds of cores in single build. Run hundreds of concurrent builds.
Performance: Network caching, compressed P2P data transfers
Reliability: Resilient build cloud host management, end-to-end data correctness validation



Rich Analytics and Monitoring

Visualization to optimize build structure & IT infrastructure



Enterprise Scale and Centralization

Build Cloud: Supports thousands of developers in single deployment, handling hundreds of concurrent builds

Heterogeneous environments

Works with your existing tools: GNU Make, Microsoft Visual Studio and NMAKE. Integrates with SCons, Ant, Maven and other build tools.

“Even if we assume that each engineer does only one build per week, the money saved in lost productivity paid for the solution within 6 months.”
 – Glenn Salaman, Director of Software Development Qualcomm Boulder

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