

 Electric Accelerator

Life is Short. Make more time.

## Eliminate waiting for builds and tests by intelligently distributing workloads across local, network, or cloud resources.

The ultimate goal of digital transformation is doing development faster and more efficiently. However, long build and test times remain common bottlenecks. Scaling the status quo – giving every engineer a 64-core, 128GB RAM workstation - isn't feasible and doesn't solve the problem of managing complex dependencies within those builds and tests. What's needed is a way to accurately accelerate builds and tests while also optimizing available network and cloud resources, without spending a fortune.

### Solution

ElectricAccelerator is an acceleration platform that optimally parallelizes software tasks across clusters of physical or cloud CPUs. This gives software-driven organizations the ability to speed up any number of concurrent activities so they can deliver better software faster. Developers and testers can now choose how long a build or a test will take. Infrastructure managers can deliver better experiences to their development teams while optimizing resources and driving down costs.

### Speed

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

### Correctness

Safely parallelizes builds using patented dependency correction technology to use ElectricAccelerator for their release and production builds.

### Efficiency

Safely push builds and tests to a private or public build cloud to shrink CI cycle times by over 80%, saving millions of dollars on a reduced data center footprint.



*“Even if we assume that each engineer only does one build per week, the money saved in lost productivity pays for the system inside of six months.”*

— Glenn Salaman, Director of Software Development, Qualcomm

ElectricAccelerator is an acceleration platform that addresses common digital transformation bottlenecks.

up to **20X**  
faster than gmake

#### Long CI Cycles

- Speed up compile & test cycles by 20X
- Discover and optimize dependencies between software units
- Guarantee correctness of software builds
- Eliminate redundant work through build avoidance

#### Prolonged Visual Studio/Windows Builds

- Out of the box support for Visual Studio
- Build Visualization in Visual Studio
- Speed up Visual Studio/nmake/cygwin build times by as much as 20X
- Guarantee build correctness

#### Protracted QA & Security Testing Cycles

- Improve quality by running more tests more frequently as part of CI cycle
- “Shift Left” testing activities to find bugs earlier
- Shorten the time it takes to complete test runs

#### Interminable Android/Embedded Systems Builds

- Shorten AOSP and Linux build times by 20X
- Cut hardware costs by 60% by creating a private build cloud
- Guarantee build accuracy

 <p><b>Performance</b></p> <p>Proven to speed up the world's most complex builds by as much as 20X</p>	 <p><b>Reliability</b></p> <p>Patented technology guarantees correctness, even in the face of incomplete or incorrect dependencies</p>	 <p><b>Scalability</b></p> <p>Intelligently manage build clouds not only across multiple teams but across multiple data centers and clouds</p>	 <p><b>Cost Elimination</b></p> <p>Significantly reduce dedicated build hardware, greatly increase existing infrastructure utilization, and easily burst to the cloud</p>	 <p><b>Insight</b></p> <p>Visibility into single build and organization-wide utilization to pinpoint problems and identify bottlenecks</p>
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#### Acceleration Results at Global Handset Maker

**3x**  
**FASTER**



gmake  
on 64 cores



ElectricAccelerator  
on 23 cores

#### Works with your existing tools:

GNU make, Microsoft Visual Studio, Ninja, NMAKE, and more!

#### Supported Platforms

Microsoft Windows 8.1,7, XP, Microsoft Windows Server 2016, 2012, 2008, 2003, Red Hat Enterprise Linux, Ubuntu Linux, SUSE Linux, Solaris

Use it, FREE:  
[electric-cloud.com/ea](http://electric-cloud.com/ea)