



“Short Takes” on Galaxy Optimizer

Who is Galaxy?

Galaxy is an international company focussed on providing software solutions to the semiconductor industry. Our facilities are in key locations in Europe, Asia and N. America.

What is Optimizer?

The Galaxy *Optimizer* is a software product that reduces test time required for analog and mixed signal devices.

What will Optimizer do?

- Increase throughput
- Lower cost to develop and support test programs
- Boost efficiency of ATE capital assets
- Boost efficiency of Test Engineering staff

How does Optimizer work?

First, *Optimizer* shortens the test time of almost any analog or mixed signal test program. Three classes of test programs are identified.

- New test programs
- Test programs in production that are optimized
- Test programs in production that have been modified over time to accommodate environmental variations

Virtually all cases fall between a **5%-45% test time improvement**.

Second, and most important, the **dynamic** feature of *Optimizer* will continuously and automatically adjust test programs parameters to remain at their optimum performance levels and maintain correlation with yield, with no intervention required of valuable Test Engineering resources.

Optimizer achieves this through the application of **statistical optimization techniques**, which reduce test time while maintaining correlation. Test programs are statistically optimized initially by using actual devices. Once the test program is optimized, Galaxy *Optimizer* continues to monitor and dynamically adjust the typically huge number of test parameters in order to keep the test time to a minimum while maintaining correlation. As such, yield is not affected.

What testers can use Optimizer?

Currently, *Optimizer* is available for Teradyne A5xx, Catalyst and Tiger testers.

Advantages of our solution

- Applies to all analog/mixed devices
- Integrates within your production environment
- Supports Multi-site capability
- Rapid deployment on the test floor
- Easy to maintain and upgrade
- ROI measured in months, not years
- Zero footprint
- Provides process monitoring tools

What's involved in “Galaxification”?

Typically it takes only hours to introduce an optimized test program to production. New test programs are developed more quickly using Galaxy *Optimizer* because the Test Engineer needn't empirically converge on “optimum” values. The software does this dynamically and continuously.

What's new at Galaxy?

Galaxy has doubled its staff and opened several additional offices in key locations around the world. Additions to staff are primarily in the Support organization providing training and technical support to our growing list of users.

What's the next step?

Call, write, fax or email for a free demonstration/evaluation of the Galaxy *Optimizer* and we'll show you what you can accomplish.

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