

Origin

MAKING SENSE OF MEASUREMENT



NEWSLETTER - FEBRUARY 2011



NEWSLETTER TOPICS

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UPCOMING WEBINAR

“Updating Segment Nominal’s from a Sample Average”

Date: Monday, February 28, 2011
Time: 11:00 am, EST

CHECKMATE POINT CLOUD METROLOGY FOR PROCESS IMPROVEMENT

The three part samples shown to the right are part of a multi piece sample used to evaluate and improve the manufacturing process. At the click of a mouse the software can display color gradient maps of a multiple part sample for, average deviation, 6 sigma spread, range, Cp, Cpk, or a gradient deviation map of any individual sample.

The middle screen shot shows a color gradient deviation map of a multipart sample along with the Root Cause Browser which was populated with critical data for features defined by a predetermined soft gage and randomly selected surface points.

The Root Cause Browser provides a user interface to the powerful SoftFIT Solver. The “what-if” functionality of SoftFIT Solver displays real time effect on the data of any proposed corrective action. This capability enables manufacturing engineers to perform capability studies and determine “best-fix” corrective action with confidence avoiding knee jerk solutions which invariably lead to cost and lead time overruns due to multiple tooling iterations.

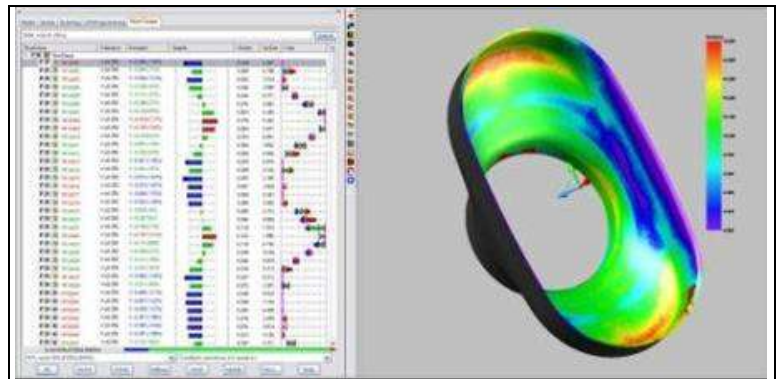
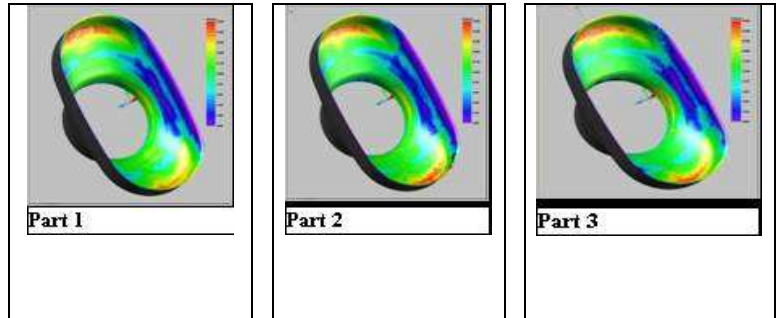



Figure 1-Average of Parts with Root Cause Browser

RootCause	Tolerance	Deviation	Graphic	Std.dev.	Cp/Cpk	X-bar
Soft Gage						
TR1A007	V:±0.350	V:0.172(49%)		0.063	4.345 / 2.214	

Root Cause Browser (Expanded View)

AFTER CLASS WEBINARS...

Origin International provides webinars for CheckMate customers with an annual support plan. These webinars cover applications, procedures, advance commands that time does not allow in a standard training class.

These Webinar sessions are online training sessions that you can either: 1) register to view live or 2) download and view at your convenience.

If you missed the after class webinar [Click Here to Download](#) and click on **Webinars** on the left to view at your own convenience

UPCOMING WEBINAR

“Updating Segment Nominal’s from a Sample Average”

Date: Monday, February 28, 2011

Time: 11:00 am, EST

Host: Cecil Deline

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1. [Click Here](#)
 2. Register for the meeting.

Once the host approves your request, you will receive a confirmation email with instructions for joining the meeting.

To view in other time zones or languages, please [click here](#)

For assistance

-
1. Go to <https://origin.webex.com/origin/mc>
 2. On the left navigation bar, click "Support".

You can contact me at:

support@origin.com

“We welcome your ideas for new webinar topics”

CHECKMATE REQUIREMENTS

UPGRADING to Vista or Windows 7

Take note of the following requirements:

- Install as Windows 7 - 32 bit system
- MDT2008 use a 32 bit version
- Must have “Administrator” rights
- Change your “Shortcuts” to run as administrator

[CLICK HERE](#) for the application note with more details (requires a login to our BBS)

ANNOUNCEMENT

The next major release of CheckMate is currently scheduled for the first quarter of 2011. It will be 64 bit and Windows 7 compliant.

Future Hardware Requirements for CheckMate:

- 64 bit capability - able to run Windows XP, Vista or Windows 7
- Minimum 4 gigabytes of RAM
- Ability to do Windows XP hardware simulation

- Multiple Cores – Scanning software uses multiple cores to increase the performance

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WHAT’S NEW... ENHANCEMENTS

Programming

- The Programming Browser was enhanced with columns/rows to view comments, component tolerances, Reporting Entities loaded, and Reporting Label Presence.
- The Programming Browser was also enhanced with Label and Reporting Entity Hot+ from the right-click menu.

Reporting

- After loading a CMM report, additional 'constructions' may be added to the programming browser and then execute 'cmsfcont' to generate reporting entities for them. (Command not yet in menus.)
-

- The Report Loader pays attention to only the features in the programming browser that are checked.
- Shift-mouseover a reporting entity displays all feature names in the graphics window. (Also works on segment features.)

SoftFIT Solver

- The Root Cause Browser added columns for Tolerance Override (to fit with other tolerances and not lose original tolerance info), User Notes, and Out-of-Tolerance.
- The Root Cause Browser enhanced the offset controls allowing offset of feature size (eg. Holes and slots where size may impact bonus tolerance earned.)

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TECHNICAL SUPPORT INFORMATION / TIPS

SERVICewise

Overview of Origin's Web Services

[Click Here](#) to go to Service Wise (login required)

- Incident List
- Conversation
- Incident Info
- Submit New
- Customer Info

TECH TIP #1

Hide/Unhide Segment Components

Is your Segment getting too long and becoming difficult to see? Or did you just import a long DMIS program into a CheckMate Segment and everything looks too 'busy' to debug?

By typing the command **CMPROGHIDE** (or the 5th icon on the Common Tools toolbar), you can easily hide components of a segment (such as connectors, tie lines, datum labels, coordinate systems and more) or all of your segments then just as quickly, unhide them.

BULLETIN BOARD

[Click Here](#) to go to the CheckMate 12 folder on the BBS (login required)

OR

- Go to WWW.ORIGIN.COM

TECH TIP #2

I've loaded a CMM results file into CheckMate and have reporting entities. **Is there a way to export CAD points of just the actuals to an IGES file?**

- From the menu- click Support > Existing User option- then login
- Select the Technical Support Option
- Search the Knowledge Base for answers. OR
- Submit/Search Incidents

- 1) Hide all of the program segments, including any other point data that you do not want to export.
- 2) Create CAD points from the reporting entities, under <Output/Extended Reporting Options> and select Actuals when prompted with a list of options.
- 3) Next, make the points HOT. Under <View/Hot Plus/Hot Plus - Menu Choice>, select Points from the list.
- 4) To IGES out the CAD points, type CMIGESOUT at the command line prompt.

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CONTACT US

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