



# PressRelease

**For Immediate Release:**  
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## **Galil Introduces Frequency Analysis Software** *Allows Tuning in the Frequency Domain*

**(Rocklin, CA)** — Galil Motion Control, an industry pioneer in motion control technology, is announcing Frequency Analysis Software (FAS) which allows tuning of servo control systems in the frequency domain. Tuning in the frequency domain is often preferred for systems with resonances or when the design engineer is comfortable with classroom control theory.

"While in most cases tuning servo systems in the time domain works well (Galil's GalilTools software provides tuning in the time domain), Galil's new Frequency Analysis Software provides an alternative option for tuning systems," said Lisa Wade, Vice President of Sales and Marketing. "It is especially useful for tuning systems with resonances."

The new software in conjunction with a Galil motion controller measures the frequency response of the plant to be controlled. It simulates the possible control solutions and synthesizes the two to allow for Bode analysis of the closed loop system.

FAS plots the magnitude versus frequency and phase versus frequency for both the Galil motion controller and the plant. The plant's frequency response is measured from the actual plant. The controller's response is simulated based on the selected control parameters. The product of the two functions is the system open loop frequency response.

The Frequency Analysis Software allows the designer to try various simulations of the controller parameters such as the PID filter and notch parameters and combine them with the plant to give the open loop frequency response. Based on the simulations, the designer can determine the best controller parameters to meet the desired performance criteria of phase margin and cross-over frequency for his system.

FAS software is available for Galil's DMC-41x3 Econo and DMC-40x0 Accelera motion controllers. The U.S. list price is \$195, and it is available for immediate shipment.

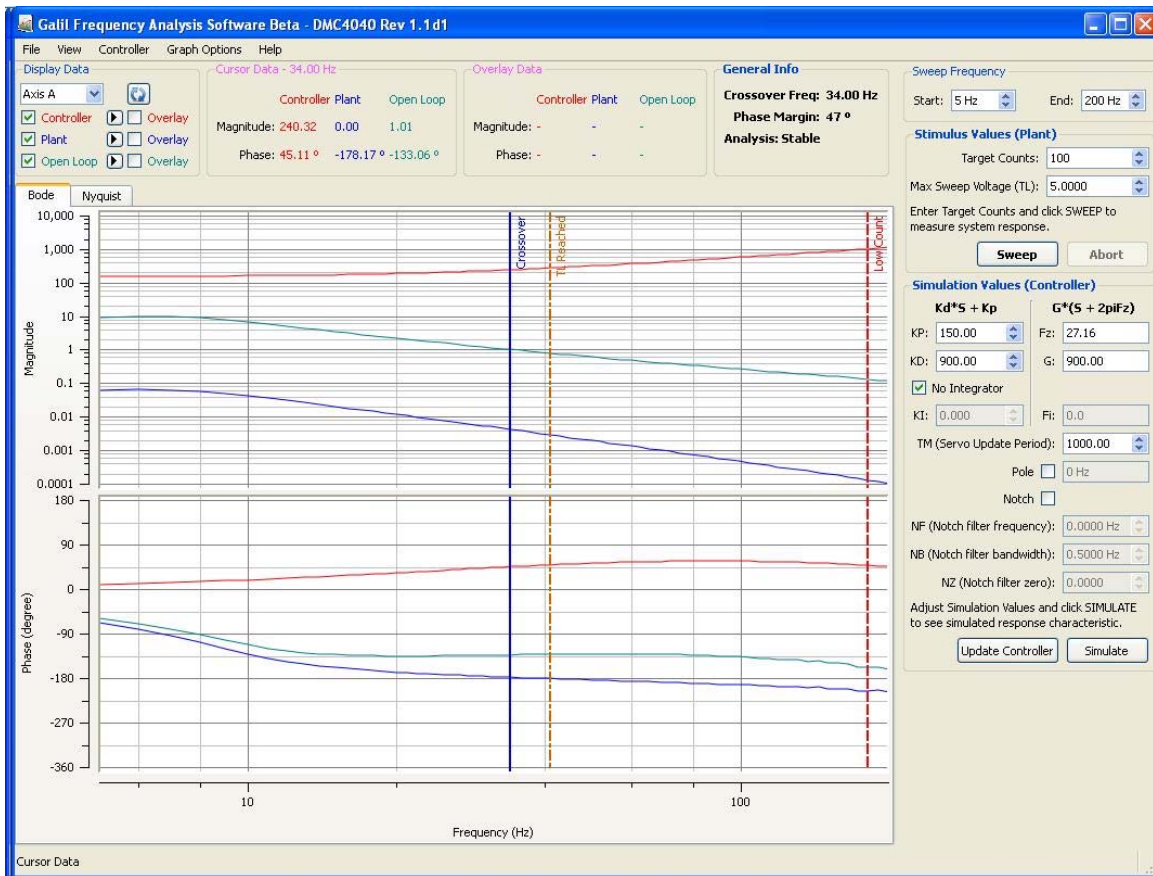
For more information about FAS, please see  
[http://www.galilmc.com/support/servotrends/st\\_07\\_11/frequency-analysis-software.php](http://www.galilmc.com/support/servotrends/st_07_11/frequency-analysis-software.php)

For more information about Galil, please see <http://www.galilmc.com/> or contact Lisa Wade, VP-Marketing and Sales, at Galil Motion Control, Inc., 270 Technology Way, Rocklin, CA 95765, Ph. 800-377-6329 or email [lisaw@galilmc.com](mailto:lisaw@galilmc.com).

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### About Galil Motion Control, Inc. ([www.galilmc.com](http://www.galilmc.com))

Privately held and profitable for over 100 consecutive quarters, Galil Motion Control, Inc. was founded in 1983 by Jacob Tal and Wayne Baron. Galil became the first company to produce a microprocessor-based servo motor controller without tachometer feedback. Since then, Galil has continued to advance motion control technology and has found industry-leading acceptance with over 500,000 controllers successfully installed worldwide. Various applications include machines for the medical, semiconductor, machine tool, food processing, and textile industries. Recently, Galil has introduced several motion and I/O controllers for the Ethernet including the high-speed Accelera motion controllers, lowest cost Econo motion controllers and the RIO Pocket PLC series.



Bode Plot as generated by Galil Frequency Analysis Software