

**PRESS RELEASE****NUMETRICS ANNOUNCES TOP-DOWN SOLUTION FOR ANALYZING IC DEVELOPMENT PIPELINE RESOURCE REQUIREMENTS****New Software Provides Early Warning of Downstream Staffing Constraints**

Cupertino, Calif., April 9, 2007 — Numetrics Management Systems, Inc., the leading provider of top-down project planning tools to the semiconductor industry, today announced the launch of LCM Pipeliner™, a multi-project, top-down pipelining software tool specifically tailored to integrated circuit (IC) development. LCM Pipeliner reveals whether total resource demand from projects in the execution pipeline exceeds availability during the target time horizon. Because it uses a top-down approach, LCM Pipeliner alerts managers in the early stages of project planning as to whether enough staffing of each role is available to finish all projects on schedule.

"What differentiates LCM Pipeliner from other pipeline analysis tools is its integration with LCM Project Planner™. The combination makes it a true top-down, pipelining solution," said Steve Gary, Numetrics' vice president of product marketing and professional services. "Well before detailed bottom-up plans are available, users can analyze projected headcount consumption and identify shortfalls. The Planner-Pipeliner combination enables early detection, which is critical for taking timely action to resolve resource shortfalls."

LCM Project Planner, a companion to LCM Pipeliner, automatically generates monthly staffing requirements for individual IC projects by assessing each chip's design complexity. Semiconductor companies throughout the industry use LCM Project Planner to estimate project staffing requirements, and with LCM Pipeliner, they now have unprecedented capability to instantaneously analyze the pipeline.

Using complexity as the basis for estimating staffing is what makes it a top-down solution. Project staffing estimates from LCM Planner flow directly into LCM Pipeliner, giving users a complete view of the execution pipeline from the moment the design manager provides a rough description of the new chip's specs. Top-down estimates guide creation of bottom-up plans. Once bottom-up plans<sup>1</sup> are available, they replace the corresponding top-down estimates previously fed to LCM Pipeliner. Allowing mixing of top-down and bottom-up plans

enables LCM Pipeliner to provide managers with the most up-to-date and accurate estimate of total headcount consumption.

With LCM Pipeliner, managers get a reliable estimate of not only the pipeline's total headcount requirements, but also whether projected staffing consumption exceeds availability of each role

(i.e. logic designers, verification engineers, etc.). It also analyzes staffing among workgroups and different geographic development sites. The combination enables managers to forecast peak staffing demands and identify resource conflicts among projects, workgroups, sites and individual roles.

Developing resource forecasts associated with long-range IC product development roadmaps is another application of LCM Pipeliner. Business lines creating roadmaps for 3- to 5-year time horizons typically have great difficulty generating reliable estimates of the engineering resources needed to implement these roadmaps. Moreover, identifying major gaps between the roadmap and the resources needed to implement it is a critical aspect of the roadmap development process. The combination of LCM Project Planner and Pipeliner provides a rapid and reliable solution to this challenge.

With LCM Pipeliner, not only can managers quickly spot oversubscription of critical resources, they can also prioritize project execution sequence and observe the impact on resource consumption. Once the manager defines the execution prioritization, LCM Pipeliner can automatically sequence project execution accordingly. It shifts each project's start date to the earliest point in time in which headcount oversubscriptions are eliminated. This multi-project, resource-leveling capability enables users to ensure that peak resource consumption within a given period does not exceed staffing availability of key roles.

Figures 1, 2, and 3 (below) illustrate three views from LCM Pipeliner that managers overseeing multiple projects use to determine whether available staffing meets projected demand. First they generate staffing estimates for each project using LCM Project Planner. Next the estimates are seamlessly imported into LCM Pipeliner (Figure 1). LCM Pipeliner then graphically displays the total headcount that all projects consume (Figure 2), as well as the utilization of each particular role (Figure 3). Most importantly, this process occurs far in advance of the availability of detailed bottom-up project plans, yet provides reliable, early estimates of the total staffing needed for an IC business line's project portfolio.

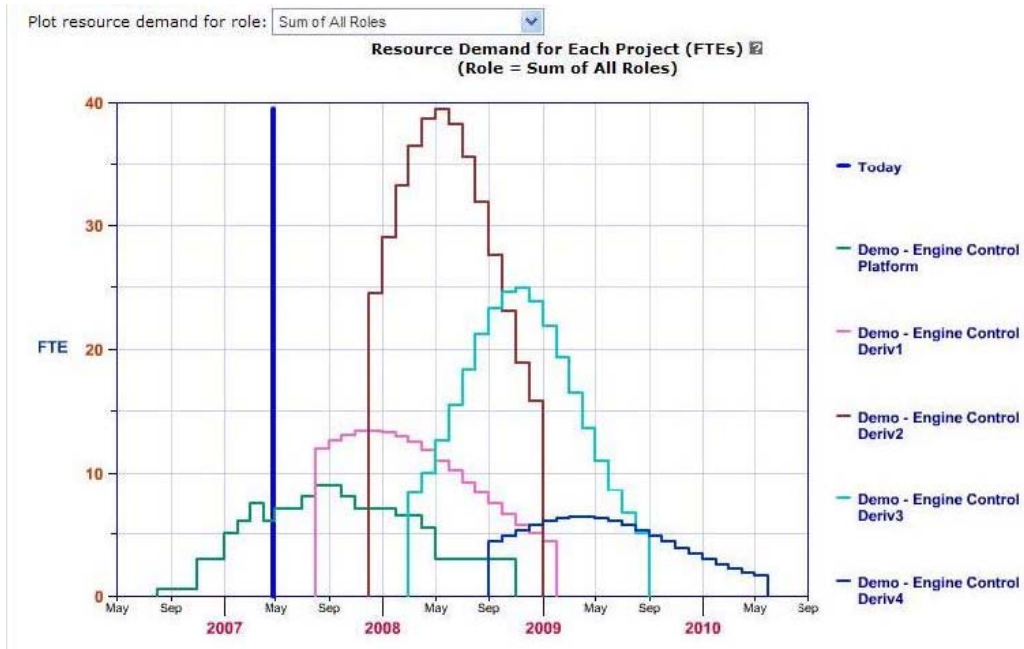


Figure 1. Graphical view of the project staffing (profiles) generated by LCM Project Planner (i.e., the resource demand of each project). FTE = Full Time Equivalent Person

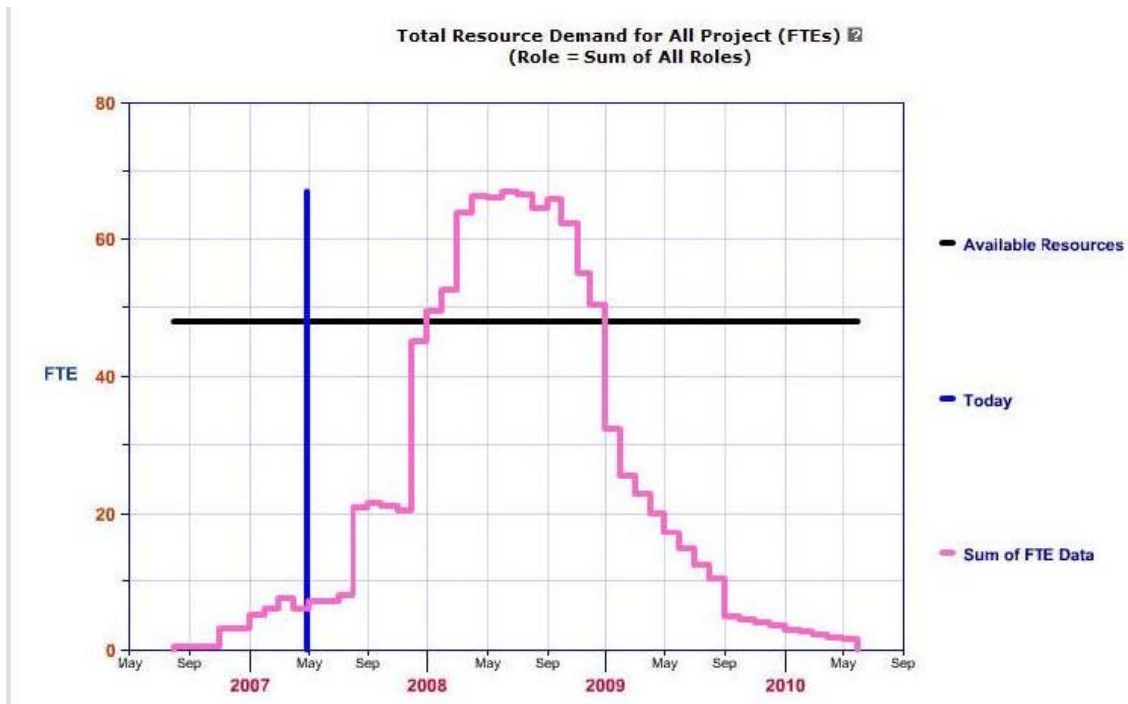


Figure 2. LCM Pipeliner sums of the demand of *all* projects in the execution pipeline (shown in Figure 1) and simultaneously displays the total available staffing (horizontal line). In this example, demand exceeds availability starting in 2008 and continuunt until 2009.

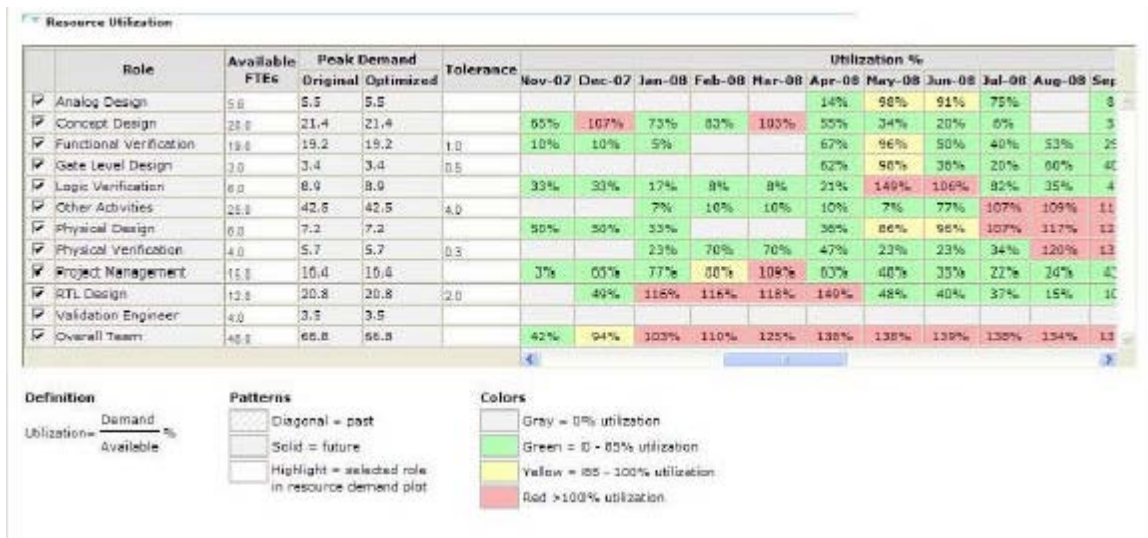


Figure 3. LCM Pipeliner generates a table displaying total utilization of each role for all projects in the execution pipeline (Figures 1 & 2) above on monthly basis.

"Organizations often find themselves with multiple IC projects in various stages of development and no means for quickly determining whether they have sufficient numbers of particular roles to meet overlapping time-to-market demands of several projects," added Steve Gary. "LCM Pipeliner assesses the collective staffing demand and utilization for any number of projects and automatically eliminates any oversubscription violations by adjusting execution sequence according to the time-to-market priorities set by the manager."

### About Numetrics

Numetrics Management Systems, Inc. provides enterprise software and services for IC development lifecycle management (LCM) to electronics companies throughout the world. In use in leading semiconductor and systems manufacturers, its solutions incorporate proprietary, advanced technologies tailored to integrated circuit (IC) development that dramatically improve a company's project planning and pipeline analysis capabilities. The company is headquartered at 20863 Stevens Creek Boulevard, Suite 510, Cupertino, CA 95014. Phone: (408) 351-5800. Fax: (408) 351-5850. E-mail: [info@numetrics.com](mailto:info@numetrics.com). Web site: [www.numetrics.com](http://www.numetrics.com)

<sup>1</sup> A bottom-up plan is one typically created using a spreadsheet or generic project planning tool such as Microsoft Project.®

Note: Microsoft Project is a registered trademark of Microsoft Corporation.