

Ryan McFarland COBOL and LPI CodeWatch Chosen By Japan's GMICRO Group

Liant Software Corporation recently announced an agreement with the GMICRO Group, which consists of Fujitsu, Ltd., Hitachi, Ltd., and Mitsubishi Electric Corp., all based in Japan. The agreement marks a major endorsement for Liant's software development products by the Group, whose open-hardware system is rapidly gaining acceptance in Japan's end-user community.

Under the agreement, Liant's Ryan McFarland Corporation, which specializes in commercial programming systems, will provide its merged RM/COBOL-85 and LPI-COBOL development system. This fused COBOL product is an innovative programming language technology that will enable end users to develop hardware-independent UNIX applications for the Group's 32-bit microprocessor, called GMICRO, developed jointly by the three *(continued on page 4)*

FIGARO+ now supports Du Pont MacBLITZ Add-In Co-Computer Card. At right, an example of a graphic produced by FIGARO+.



TGS Enters Apple Market

Template Graphics Software, Inc. (TGS) has entered the Apple market for the first time by announcing an agreement with Du Pont's Electronics Imaging System Division to develop FIGARO+ support for Du Pont's new MacBLITZ co-computer for the Apple Macintosh II.

According to the agreement, TGS's FIGARO+ will be bundled with the board-level MacBLITZ for engineering and scientific application programmers requiring interactive, platform-independent 2D or 3D graphics running on the Macintosh II via the X Windows environment.

FIGARO+'s platform-independent portability will, in turn, allow any application written on high-end UNIX workstations using FIGARO+ *(continued on page 5)*

Summer 1990

Quarterly newsletter for customers and prospects of Liant Software Corporation

Members of the Liant group:
Language Processors, Inc.
Ryan McFarland Corporation
Template Graphics Software, Inc.

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DuPont MacBLITZ
- 2 **Danish Distributor**
Mexico ComExpo '90
From the President
- 3 **IBM RS/6000 Products**
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NAG Libraries
- 8 **Motorola Agreement**

Liant Products to be Distributed in Denmark

Liant Software Limited has recently signed a distribution agreement with Uniware, A.S., of Denmark. "Uniware is the principal distributor of UNIX software products for the Danish marketplace," explained Jeff Day, Liant's European distribution manager. "They are favored by IBM to become the local supplier of Liant products."

Sales director for Uniware, Kim Biel Nielsen, plays a prominent role for the Danish UNIX Users group and plans a Liant Software Open Day in Copenhagen later this year.

Liant Attends Mexico ComExpo '90

Liant Software Corporation made its Central American debut at Mexico ComExpo '90, an international computer and communications trade show held in Mexico City March 7-9. Liant distributor MMC (Multisistemas Modulares de Computo) provided booth space, and Robert Halverson, distribution sales manager for Liant products, was on hand to answer questions.

**"LPI-FORTRAN was
unbreakable."**

**- Bob Morein
UNIX Today!**



*Roy Finney, president and CEO
of Liant Software Corporation*

From the President....

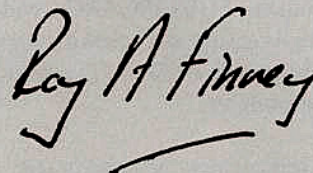
Liant is composed of three companies, each focusing on its own niche market. Although each company is unique, a common theme runs throughout each company's product line. That theme is *application portability*.

For example, LPI specializes in application development for scientific and engineering markets. Each of the LPI languages is the same across diverse hardware platforms. To migrate a program written in LPI's NEW C, the developer need only buy NEW C for the new environment. The application can be moved over with minimal effort. Southwest Power Pool is one company that took advantage of this portability. It used LPI-FORTRAN to port its application from a proprietary Prime system to a series of AT&T PCs running UNIX.

Ryan McFarland focuses on commercial application development. Its COBOL technology enables its Application Developer/Resellers (ADRs) and other customers to port applications to a new machine, without recompiling, simply by buying a new Runtime Environment.

TGS provides a portable solution for developers of graphics applications. A developer can build an application on top of FIGARO+ (as Comutec Robotics did) and achieve hardware independence. This results in substantial advantages: easing and speeding product maintenance, easing and speeding migration of products to new platforms, and ultimately decreasing costs.

Most issues of *watchpoints* contain examples of customers who have achieved application portability through products from the three Liant companies. Although the Liant companies were separately created and developed, they share a common mission. They all enable customers to construct, deploy, and maintain truly portable applications.



LPI-FORTRAN and CodeWatch Join RM/COBOL-85 on IBM's RS/6000

Liant is pleased to announce the availability of LPI-FORTRAN, the LPI-FORTRAN Runtime Environment and the CodeWatch debugger for IBM's RISC System/6000 family of workstations running on the company's AIX operating system. Their RM/COBOL-85 compiler and runtime system were already announced for the RS/6000. Thousands of existing applications will be transferable to this new high-performance architecture as a result.

"Liant is pleased to be offering such a wide selection of software development products for IBM's recently announced RISC System/6000, a family of workstations that is estimated to be up to 20 percent faster than any workstation currently on the market," said Roy A. Finney, president and chief executive officer of Liant. "Liant's products will enable software developers to create powerful new applications, as well as migrate existing applications to this high-performance platform, for a superior price/performance ratio."

These products will be released simultaneously with the release of the IBM RS/6000. Additional products available from Liant will be announced at a later date.



Liant's booth at CeBIT '90 in Hannover, Germany attracted much interest. Shown left to right in front of the booth are Reinhard Wenske, Liant's sales manager in Frankfurt; Valerie Scadeng, support manager, scientific products in London; Peter Cassidy, director of OEM sales; Don Dudley, vice president of research and development for LPI; and Tom Morrison, director of marketing for Ryan McFarland.

TGS Demos New Workcell Simulation Software; Debuts PHIGS Command Interpreter at NCGA '90

A new robotics simulation and off-line programming system developed with FIGARO+ was introduced at NCGA '90 and attracted much attention throughout the show.

Robots Animated on Screen

Developed by Comutec Robotics, a manufacturing automation software supplier based in Troy, N.Y., the "WORK-OUT" application package simulates the actions of up to four robots in a factory workcell.

Using FIGARO+ software that applies advanced lighting and shading techniques to sophisticated, interactive 3D graphics, WORK-OUT animates the robots in real time on the computer screen. The animation graphically shows the programmer how the robots will react and interact in the assembly-line environment.

PHIGS Command Interpreter

TGS's new PHIGS Command Interpreter (PCI), announced last fall, also made its debut at NCGA '90. PCI is a front-end option to FIGARO+ that lets users enter and execute FIGARO+ commands interactively without writing programs. It can be used in prototyping, debugging, as a learning tool for 3D application programmers, and to create complete application programs.

PCI accepts free-form input, prompts the user for missing information, and reads script files of PCI commands, which correspond directly to FIGARO+ commands. PCI can be called as a subroutine by a FIGARO+ application program or it can be used as a stand-alone program.