Literature Watch

Buses

The impact of PCMCIA by 1996. The future of PCMCIA is discussed at an executive roundtable at IC Card Expo. *IC Card Systems & Design,* 9/94, p. 11, 3 pp.

Development Tools

PowerPC platforms could offer choice of operating systems. The Prep standard may allow a choice of operating systems for PowerPC platforms. Tom Williams, *Computer Design,* 9/94, p. 56, 2 pp.

3-D simulators let you analyze high-speed IC designs. High-speed IC design is assisted by 3-D field tools. Mike Donlin, *Computer Design,* 9/94, p. 150, 1 pg.

Successfully applying software metrics. Proper parameter selection in applying software metrics is important. Robert B. Grady, Hewlett-Packard; *IEEE Computer,* 9/94, p. 18, 8 pp.

Miscellaneous

Teleporting in an X Window system environment. Techniques allowing users multiple physical access points in X Windows. Tristan Richardson, Frazer Bennett, et al, Olivetti; *IEEE Personal Communications,* 3Q94, p. 6, 7 pp.

Sharing multimedia data over a client-server network. Multimedia in a client-server environment. Giacomo Bucci, Riccardo Detti, University of Florence, et al; *IEEE Multimedia*, Fall '94, p. 44, 12 pp.

Structured video computing. Proposals on structuring video for computing. Yoshinobu Tonomura, Akihito Akustu, et al, NTT Human Interface Laboratories; *IEEE Multimedia*, Fall '94, p. 34, 10 pp.

The templates are coming. Templates offer advantages in C++. P.J. Plauger, *Embedded Systems Programming,* 10/94, p. 109, 4 pp.

A new vertical interconnection technique is ideal for high density packaging. Dramatic packaging densities may be available with vertical wafer-stacking technique. Chet Brown, Cubic Memory; *IC Card Systems & Design,* 8–9/94, p. 34, 5 pp.

Commercial image processing learns from military mentors. Image processing spans a variety of applications, but high-end hardware is the rule. Stephen Ohr, *Computer Design,* 9/94, p. 83, 6 pp.

Get ready for a merger surge. Recent interconnect consolidations. Heidi Elliot, *Electronic Business Buyer,* 9/94, p. 30, 2 pp.

Elastomerics squeeze into mobile computing. Smaller is cheaper as elastomeric connectors find applications in mobile computing. Lee Goldberg, *Computer Design,* 9/94, p. OEM-16, 5 pp.

Peripherals

Data-movement chip does 1.6 Gbit/s over serial lines. Single-chip transceiver sustains 1.6 Gbits/s on serial lines. Jeff Child, *Computer Design,* 9/94, p. 152, 1 pg.

Next-generation modems will offer far more than high performance. Future modems to offer multiple operating modes. Rich Mason, AT&T Paradyne; *IC Card System & Design,* 8–9/94, p. 16, 5 pp.

Processors

Bye bye BiCMOS processors but Intel bucks the trend. BiCMOS processors are becoming a thing of the past. Robert Ristelhueber, *Electronic Business Buyer,* 9/94, p. 29, 2 pp.

System Design

Struggling Convex tries to rebuild success with desktop technology. Convex's massively parallel Exemplar series uses multiple PA-RISC chips and may leverage its binary compatibility: 4,000 existing applications run on HP workstations. J. Robert Lineback, *Electronic Business Buyer,* 9/94, p. 86, 5 pp.

Tiny PCs try to invade MCU turf. Miniature PC's to bring standard software to embedded design. J. Robert Lineback, *Electronic Business Buyer,* 9/94, p. 33, 2 pp.

Eliminating the hard/soft real-time dichotomy. The definition of timeliness can assist real-time embedded design. E. Douglas Jensen, Digital Equipment; *Embedded Systems Programming,* 10/94, p. 28, 6 pp.

Tasking design descriptions. Suggestions on easing the burden of software documentation. M.F. Moon, Hughes Aircraft; *Embedded Systems Programming,* 10/94, p. 36, 5 pp.

Modeling the relationship between source code complexity and maintenance difficulty. Canonical correlation relates ease of maintenance to source-code complexity. David L. Lanning, IBM, Taghi M. Khoshgoftaar, Florida Atlantic University; *IEEE Computer,* 9/94, p. 35, 6 pp.