

LITERATURE WATCH

BUSES

PCI becomes entrenched in embedded boards. Eight flavors of PCI are available for use in embedded systems. Jeff Child, *Computer Design*, 9/96, p. 102, 4 pp.

DEVELOPMENT TOOLS

Simulation software eases modeling of analog functions. Meta-Software's HspiceHDLA combines an analog version of Verilog with HSPICE for simulating complex devices. Dave Bursky, *Electronic Design*, 9/3/96, p. 189, 2 pp.

Using architectural-level tools to estimate power. Power analysis at high levels of abstraction will give you the biggest power savings possible. You have to evaluate your architecture for power

consumption, just as you do for performance. Jerry Frenkil, Senté; *Computer Design*, 9/96, p. 127, 3 pp.

MEMORY

High-density flash memories tackle mass-storage needs. Future-generation flash memories with densities over 128 Mbits will reshape product directions. Dave Bursky, *Electronic Design*, 9/3/96, p. 69, 5 pp.

PERIPHERALS

Chip set keeps parallel SCSI ahead of serial competition. Symbios Logic's 53C895 combines an I/O processor with low-voltage differential terminator to push Ultra2 SCSI to 80 Mbytes/s. Richard Nass, *Electronic Design*, 9/3/96, p. 181, 2 pp.

PROCESSORS

16-/32-bit RISC tackles 68K embedded sockets. In the tradition of the 68K, processors such as Hitachi's SH, NEC's V-series, and ARM combine dense 16-bit instructions with 32-bit data paths. Ray Weiss, *Computer Design*, 9/96, p. 69, 4 pp.

Coping with success, thanks to choices and tools. Rising transistor budgets will lead to more single-chip embedded systems using core-based ASICs. Ray Weiss, *Computer Design*, 9/96, p. 65, 2 pp.

32-bit cores drive systems-on-a-chip. A number of vendors will embed 32-bit CPU cores in customized ASICs. Ray Weiss, *Computer Design*, 9/96, p. 82, 6 pp.

Buyer's guide to communication processors. With the growth in the communications market, more general-purpose microprocessors and microcontrollers have optimized members of their families for telecom and data-communications applications. Nicholas Cravotta, *Communication Systems Design*, 9/96, p. 56, 7 pp.

SYSTEM DESIGN

Avoiding the hazards of plug and play. Hot pluggability continues to heap more and more demands on circuit-protection components. Scott Birdsall, Raychem; *Electronic Design*, 9/3/96, p. 107, 3 pp.