

PowerPC 603e Hits 300 MHz 1
 By becoming the first vendor to ship a 0.25-micron microprocessor, Motorola has pushed the speed of its 603e to 300 MHz, giving Apple and other Mac vendors a clock-speed advantage, although not a performance advantage, over Intel. IBM moved the 604e's clock speed to 233 MHz, with faster parts such as Mach 5 due later this year.

Editorial: Intel Fab Crunch Slows MMX Rollout 3
 As quickly as Intel expands its fab capacity, its new chips soak it up. The company's strategic goals call for pushing Pentium II into the marketplace as quickly as possible, but the chip is so large it effectively decreases Intel's production volume.

Most Significant Bits 4
 Digital to ship 600-MHz Alpha; NEC's R4102 boosts speed to 66 MHz; LSI Logic, Philips join ARM band; Rockwell signs on as new PicoJava licensee; MoSys debuts high-speed SGRAM cache; S3 introduces third-generation 3D chip.

Hyperstone Merges CPU and DSP Cores 8
 A perennial 10-year-old startup from Germany has put a new twist on the RISC+DSP theme. Hyperstone's E1-32 chip has single-cycle execution of most integer instructions but also boasts a rich set of digital-signal-processing operations as well as emulated floating-point routines. The company is projecting a tenfold increase in its chip sales in 1997 and plans to add licensees.

Intel's RDRAM Strategy a Sure Winner 12
 After Intel anointed Rambus's Direct RDRAM the memory technology of choice for the next decade, the DRAM community found itself dancing to Rambus's tune. But Intel may end up on a different path, either to SyncLink, DDR SDRAMs, or something new. No matter what the choice, Intel is certain to get what it wants.

Microprocessors Follow Mainframe Path 15
 In part two of our series, we look at how 50 years of mainframe computer development have been encapsulated in 25 years of microprocessor development. Now that microprocessors have reached the same level of maturity as mainframes, how will their development change in the future?

The Slater Perspective: Realizing the Potential of the Internet 19
 The Internet has changed the way computer standards are defined, with Microsoft but one of several players implementing open standards. With the tools for building sophisticated Web sites still in a state of rapid evolution, however, and with the increasing dominance of the Windows platform, Microsoft could divert much of the development to Windows-centric approaches.

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