Simulacron-3 21:15 01:00 Day: 4 Track: Hardware & Making en

Chef: 2433 Lindworm: 5463 Emergency: 112 Security: 110 Heaven: 1023 Speakers Desk: 1020 Info Desk: 1111

Translation (check if available): 8012 Technical Coordinator: 1621

Title: FPGAs for everyone

Subtitle: Integrating FPGAs with standard personal computers

Speaker: byterazor

Short: FPGAs are becoming more and more common in research and industrial projects. They are

mostly used to accelerate problems of High Performance Computing. But standard personal computers can also benefit from them, e.g. with cryptographic accelerators, additional pro-

cessor cores, hardware for special projects. This talk describes possible benefits for FPGAs

in General Purpose Computing, and their requirements to the FPGA Host connection and

the operating system support.