
Subject: Variable Number Of Cores

Posted by [anonzzz](#) on Wed, 08 Feb 2006 10:15:56 GMT

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Strange projects: "PC without a PC CPU" and MAFA:

<http://neil.franklin.ch/Projects/FPGA-PC/>

[http://www.opencores.org/projects.cgi/web/mafa-pc-board/over view](http://www.opencores.org/projects.cgi/web/mafa-pc-board/over%20view)

At present there is only single X86 cores+system inside the FPGA CPU. IMO The performance is slow (486/Pentium I).

Perhaps in the future they can create multiple X86 cores+system on the FPGA or multiple architectures (SPARC, 68K etc).

Can this multiple cores on FPGA CPU (more than 20) compete with modern X86 CPU?

Is it possible to combine multiple cores with OpenVZ?

1. At boot there is a single X86 core for running OpenVZ /Hypervizor.
2. The Hypervizor can create multiple X86 Cores+virtual machine on FPGA CPU, depending on applications / number of OS. Perhaps Hypervizor can also create non X86 Cores+System.
3. OpenVZ will start each Cores.

Is this idea possible?

FPGA machine vendors: Starbridge, Nallatech, Annapolis Micro.

Thank you.
