Device and System Design University of Cadence

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Development and research of IP-blocks verification method by Perl language



System on a printed circuit board



System on a chip (SoC)



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Creation process "system on a chip" means the decision of following tasks:

- I) Working out of IP-blocks;
- 2) IP-blocks verification;
- Designing SoC at systemic-functional level from Virtual Component;
- 4) Integration of all blocks on a chip.



Examples of IP-blocks which are most often used in projects SoC:

- Programmed devices: RISC, DSP;
- Memory: RAM, DRAM, Flash;
- Standard interfaces: PCI, USB;
- Video and audio decoders: MPEG2;
- Digital-to-analogue blocks: ЦАП, АЦП;
- Analog and high-frequency components: PLL (Phase-Locked Loop).



Thank you for your attention!