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Digital Computer Arithmetic Datapath Design

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importance for each design is on the algorithm and not the circuit implementation.

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These operations are handled by computer's arithmetic logic unit (ALU). The ALU is the mathematical brain of a computer. The first ALU was INTEL 74181 implemented as a 7400 series is a TTL integrated circuit which was released in 1970. The ALU is a digital circuit that provides arithmetic and logic operation. It is the fundamental building ...

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Design a dedicated datapath for the digital computer system that can execute the algorithm in SNIPPET 1. Implement the datapath using only one adder (i.e. no adder-subtractor and no ALU) for all the arithmetic operations and also include the circuits for generating all of the status signals. The datapath is 4-bit wide.

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Number Representations 3.1 Binary Number Systems (BNS) 3
Number Representations 3.1 Binary Number Systems (BNS)
Radix-2, binary number system (BNS) : irredundant, weighted, positional, monotonic [1, 2]

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A digital signal processor (DSP) is a specialized microprocessor chip, with its architecture optimized for the operational needs of digital signal processing. DSPs are fabricated on MOS integrated

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circuit chips. They are widely used in audio signal processing, telecommunications, digital image processing, radar, sonar and speech recognition systems, and in common consumer electronic devices ...

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