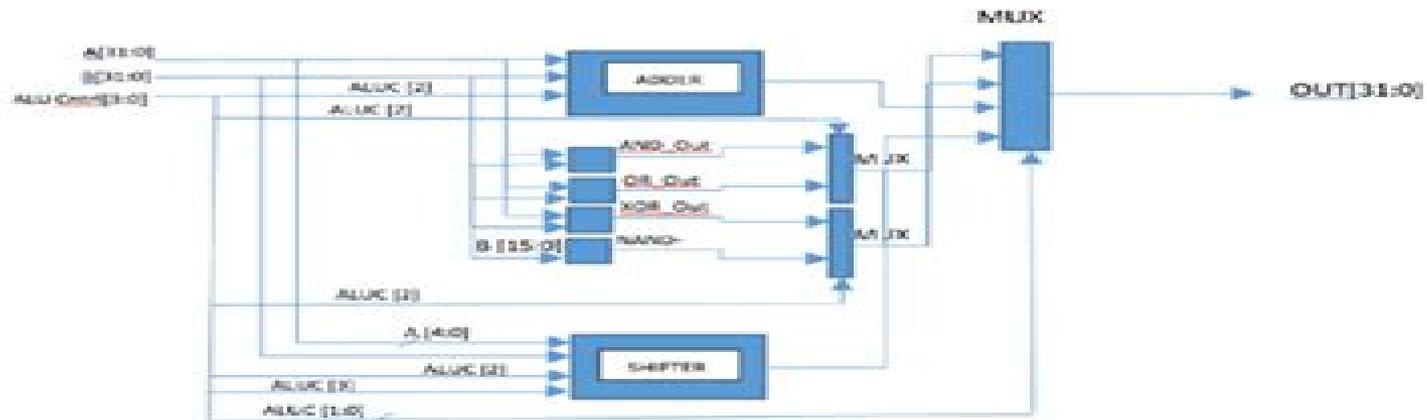


# VLSI Architectures

## Assignment 1 - Design of ALU

Yeshvanth M, 2023HT01517

High-level design in question



### Solution

#### AND Gate

```

////////////////////////////////////
/* 32-bit AND Gate used in ALU */
: module AND
(
    input [31:0]  A_i,    // Input 1
    input [31:0]  B_i,    // Input 2
    output [31:0] AND_o  // AND result
);

    assign AND_o = A_i & B_i; // Behavioral modelling of AND gate
: endmodule

```

# Vlsi Algorithms And Architectures

**Gerez**



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High-Performance VLSI Signal Processing Innovative Architectures and Algorithms, Algorithms and Architectures K. J. Ray Liu, Kung Yao, 1998 Electrical Engineering Signal Processing High Performance VLSI Signal Processing Innovative Architectures and Algorithms Volume 1 Algorithms and Architectures The first volume in a two volume set High Performance VLSI Signal Processing Innovative Architectures and Algorithms brings together the most innovative papers in the field focused introductory material and extensive references The editors present timely coverage of algorithm and design methodologies with an emphasis on today's rapidly evolving high speed architectures for VLSI implementations These volumes will serve as vital resources for engineers who want a comprehensive knowledge of the extremely interdisciplinary field of high performance VLSI processing The editors provide a practical understanding of the merits of total system design through an insightful synergistic presentation of methodology architecture and infrastructure Each volume features Major papers that span the wide range of research areas in the field Chapter introductions including historical perspectives Numerous applications oriented design examples Coverage of current and future technological trends Thorough treatment of high speed architectures

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**Algorithms and Parallel VLSI Architectures III** M. Moonen, F. Catthoor, 1995-03-16 A comprehensive overview of the current evolution of research in algorithms architectures and compilation for parallel systems is provided by this publication The contributions focus specifically on domains where embedded systems are required either oriented to application specific or to programmable realisations These are crucial in domains such as audio telecom instrumentation speech robotics medical and automotive processing image and video processing TV multimedia radar and sonar The book will be of particular interest to the academic community because of the detailed descriptions of research results presented In addition many contributions feature the real life applications that are responsible for driving research and the impact of their specific characteristics on the methodologies is assessed The publication will also be of considerable value to senior design engineers and CAD managers in the industrial arena who wish either to anticipate the evolution of commercially available design tools or to utilize the presented concepts in their own R D programmes

*VLSI Algorithms and Architectures* John H. Reif, 2014-01-15

**VLSI** Fabrizio Luccio, 1985 VLSI Algorithms and Architectures, 1986 *VLSI Algorithms and Architectures for Real-time Computation Over Finite Fields* Yongjin Jeong, 1995 VLSI Algorithms and Architectures: Aegean Workshop on Computing, AWOC 88, Corfu, Greece, June 28-July 1, 1988, Proceedings Computer Technology Institute (Patras) Aegean Workshop on Computing: VLSI Algorithms and Architectures (AWOC 88), 1988

**Algorithms Vlsi Design Automation** Gerez, 2006-06 Market\_Desc Electrical Engineering Students taking courses on VLSI systems CAD tools for VLSI Design Automation at Final Year or Graduate Level Computer Science courses on the same topics at a similar level Practicing Engineers wishing to learn the state of the art in VLSI Design Automation Designers of CAD tools for chip design in software houses or large electronics companies Special Features Probably the first book on Design Automation for VLSI Systems which covers all stages of design from layout synthesis through logic synthesis to high level synthesis Clear precise presentation of examples well illustrated with over 200 figures Focus on algorithms for VLSI design tools means it will appeal to some Computer Science as well as Electrical Engineering departments About The Book Enrollments in VLSI design

automation courses are not large but it s a very popular elective especially for those seeking a career in the microelectronics industry Already the reviewers seem very enthusiastic about the coverage of the book being a better match for their courses than available competitors because it covers all design phases It has plenty of worked problems and a large no of illustrations It s a good list builder title that matches our strategy of focusing on topics that lie on the interface between Elec Eng and Computer Science

**VLSI Algorithms and Architectures for Pattern Matching** Raghu Sastry,1994 *VLSI Algorithms and Architectures; Proceedings of the International Workshop on Parallel Computing and VLSI; Amalfi, Italy, May 23-25, 1984* P. Bertolazzi (ed),1985 VLSI Systems and Computations H.T. Kung,R. Sproull,G. Steele,2012-12-06 The papers in this book were presented at the CMU Conference on VLSI Systems and Computations held October 19 21 1981 in Pittsburgh Pennsylvania The conference was organized by the Computer Science Department Carnegie Mellon University and was partially supported by the National Science Foundation and the Office of Naval Research These proceedings focus on the theory and design of computational systems using VLSI Until very recently integrated circuit research and development were concentrated in the device physics and fabrication design disciplines and in the integrated circuit industry itself Within the last few years a community of researchers is growing to address issues closer to computer science the relationship between computing structures and the physical structures that implement them the specification and verification of computational procosses implemented in VLSI the use of massively parallel computing made possible by VLSI the design of special purpose computing architectures and the changes in general purpose computer architecture that VLSI makes possible It is likely that the future exploitation of VLSI technology depends as much on structural and design innovations as on advances in fabrication technology The book is divided into nine sections Invited Papers Six distinguished researchers from industry and academia presented invited papers Models of Computation The papers in this section deal with abstracting the properties of VLSI circuits into models that can be used to analyze the chip area time or energy required for a particular computation

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