G Thomas

The VC-1 and H.264 Video Compression Standards for Broadband Video Services Jae-Beom Lee, Hari Kalva, 2008-12-18 This book covers the MPEG H.264 and MS VC-1 video coding standards as well as issues in broadband video delivery over IP networks. This professional reference is designed for industry practitioners, including video engineers, and professionals in consumer electronics, telecommunications and media compression industries. The book is also suitable as a secondary text for advanced-level students in computer science and electrical engineering.

The H.264 Advanced Video Compression Standard Iain E. Richardson,2011-08-24 H.264 Advanced Video Coding or MPEG-4 Part 10 is fundamental to a growing range of markets such as high definition broadcasting, internet video sharing, mobile video and digital surveillance. This book reflects the growing importance and implementation of H.264 video technology. Offering a detailed overview of the system, it explains the syntax, tools and features of H.264 and equips readers with practical advice on how to get the most out of the standard. Packed with clear examples and illustrations to explain H.264 technology in an accessible and practical way. Covers basic video coding concepts, video formats and visual quality. Explains how to measure and optimise the performance of H.264, case studies of H.264 codecs and new technological developments such as the popular High Profile extensions. An invaluable companion for developers, broadcasters, system integrators, academics and students who want to master this burgeoning state-of-the-art technology. [This book] unravels the mysteries behind the latest H.264 standard and delves deeper into each of the operations in the codec. The reader can implement (simulate, design, evaluate, optimize) the codec with all profiles and levels. The book ends with extensions and directions (such as SVC and MVC) for further research. Professor K. R. Rao, The University of Texas at Arlington, co-inventor of the Discrete Cosine Transform

US-264, Wilson Bypass Construction, Wilson County, 1991

Messerschmitt Me 264 Amerika Bomber Robert Forsyth,2016-09-22 As Europe plunged into World War II, Hitler ordered the development of a hi-tech secret weapon capable of taking the war across the Atlantic – the Messerschmitt Me 264. Chosen from designs for an 'Amerika Bomber' tendered by Messerschmitt, Junkers and Focke-Wulf, this ultra-long-range aircraft would be capable of attacking cities in the United States. Just one month before the attack on Pearl Harbor and the

American entry into World War II Hitler was promising, privately, to wage a 'new war' against the USA after his victories in Europe. Dazzling digital artwork and 50 rare archive photographs perfectly complement the detailed analysis offered by Robert Forsyth as he examines the development, intended role and influence of the aircraft that Hitler planned to use to bomb New York City.

Entropy Coders of the H.264/AVC Standard Xiaohua Tian, Thinh M. Le, Yong Lian, 2010-10-17 This book presents a collection of algorithms and VLSI architectures of entropy (or statistical) codecs of recent video compression standards, with focus on the H.264/AVC standard. For any visual data compression scheme, there exists a combination of two, or all of the following three stages: spatial, temporal, and statistical compression. General readers are first introduced with the various algorithms of the statistical coders. The VLSI implementations are also reviewed and discussed. Readers with limited hardware design background are also introduced with a design methodology starting from performance-complexity analyses to software/hardware co-simulation. A typical design of the Contextbased Adaptive Binary Arithmetic Coding (CABAC) encoder is also presented in details. To support System-on-Chip design environment, the CABAC design is wrapped with a SoC-based Wishbone system bus interface.

Scalable Parallel Programming Applied to H.264/AVC Decoding Ben Juurlink, Mauricio Alvarez-Mesa, Chi Ching Chi, Arnaldo Azevedo, Cor Meenderinck, Alex Ramirez, 2012-06-01 Existing software applications should be redesigned if programmers want to benefit from the performance offered by multi- and many-core architectures. Performance scalability now depends on the possibility of finding and exploiting enough Thread-Level Parallelism (TLP) in applications for using the increasing numbers of cores on a chip. Video decoding is an example of an application domain with increasing computational requirements every new generation. This is due, on the one hand, to the trend towards high guality video systems (high definition and frame rate, 3D displays, etc) that results in a continuous increase in the amount of data that has to be processed in real-time. On the other hand, there is the requirement to maintain high compression efficiency which is only possible with video codes like H.264/AVC that use advanced coding techniques. In this book, the parallelization of H.264/AVC decoding is presented as a case study of parallel programming. H.264/AVC decoding is an example of a complex application with many levels of dependencies, different kernels, and irregular data structures. The book presents a detailed methodology for parallelization of this type of applications. It begins with a description of the algorithm, an analysis of the data dependencies and an evaluation of the different parallelization strategies. Then the design and implementation of a novel parallelization approach is presented that is scalable to many core architectures. Experimental results on different parallel architectures are discussed in detail. Finally, an outlook is given on parallelization opportunities in the upcoming HEVC standard.

H.264 and MPEG-4 Video Compression Iain E. Richardson, 2004-02-06 Following on from the successful MPEG-2

standard, MPEG-4 Visual is enabling a new wave of multimedia applications from Internet video streaming to mobile video conferencing. The new H.264 'Advanced Video Coding' standard promises impressive compression performance and is gaining support from developers and manufacturers. The first book to cover H.264 in technical detail, this unique resource takes an application-based approach to the two standards and the coding concepts that underpin them. Presents a practical, step-by-step, guide to the MPEG-4 Visual and H.264 standards for video compression. Introduces the basic concepts of digital video and covers essential background material required for an understanding of both standards. Provides side-by-side performance comparisons of MPEG-4 Visual and H.264 and advice on how to approach and interpret them to ensure conformance. Examines the way that the standards have been shaped and developed, discussing the composition and procedures of the VCEG and MPEG standardisation groups. Focussing on compression tools and profiles for practical multimedia applications, this book 'decodes' the standards, enabling developers, researchers, engineers and students to rapidly get to grips with both H.264 and MPEG-4 Visual. Dr Iain Richardson leads the Image Communication Technology research group at the Robert Gordon University in Scotland and is the author of over 40 research papers and two previous books on video compression technology.

Greenville Southwest Bypass Study, Improvements to NC11 and US 264 Business, Pitt County ,2006 Spawn #264 Todd Mcfarlane,2016-07-06 Spawn has to come to grips with his new powers or lack thereof. US-264 Northwest Bypass Between Relocated US-264 and US-13, NC-11 at SR-1590, Greenville ,1985 US-264 Improvement, Wilson to Greenville ,1980

Archie #264 Archie Superstars,2018-02-21 Welcome to Riverdale, the home of everyone's favorite teenager, Archie Andrews - and his closest friends! Dive into these beloved and classic Archie stories, which feature all the elements that have become an important part of pop culture. See the love triangle that includes girl-next-door Betty Cooper and wealthy socialite, Veronica Lodge! Share a burger with Archie's best pal, Jughead Jones! Square off with tough-talking Reggie Mantle! Sit back and enjoy a chocolate shake at Pop's! It's all here for you to enjoy. Prepare to experience wonders of the teens' beloved hometown with stories like Catch a Falling Star, Shop Worn, and more!

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I-264, Watterson Expressway Improvements from Dixie Hwy to Shelbyville Road, Jefferson County ,1981 Greatest Hits #264 Terese Helscheid,2007

Savage Dragon #264 Erik Larsen, 2023-03-01 "THE STORY OF PAUL!" Paul Dragon's secrets revealed! Malcolm's

father from another dimension has been something of a mystery man – but at long last – we'll see how his story diverges from his Image Universe counterpart's. It's a fascinating glimpse into the past of this hallowed hero!

Archie Comics Double Digest #264 Archie Superstars,2015-12-02 The town leaders are planning a dazzling holiday show right in the center of Riverdale Square! Unfortunately, the Christmas spectacular turns into holiday havoc when they experience unforeseen technical difficulties! It's up to Archie and his friends to revive this merry meltdown—and quick! Can they turn the show around and get everyone back into the holiday spirit in time? Find out in "Holiday Light," the fun, new lead story to this comics double digest!

Betty & Veronica #264 Dan Parent, Jeff Shultz, Bob Smith, Jack Morelli, Digikore Studios, In this retelling of the storybook classic "Rapunzel," we find two princesses cursed to remain in a tower until they are married off. The only way suitors can get up to the tower is by climbing the long locks of hair theyve been cursed with. Prince Charming cant wait, so the girls sneak out and run into a commoner named Archie. Risking their place in the kingdom, the girls naturally compete for Archies affections; however, leaving the tower can jeopardize the magic spell! Who will win his love before the sorceress who banished them to the tower catches up with them?

Sonic the Hedgehog #264 Ian Flynn, Joey Esposito, Benjamin Bailey, Patrick "SPAZ" Spaziante, John Workman, James Fry, Terry Austin, Gabriel Cassata, 2014-09-17 A-WOOOOOOOO! THE WAIT IS OVER! Prepare yourself for the terrifying debut of SONIC THE WEREHOG! "Control Part One: Sonic, Amy and Sally venture deep into the rainforest in search of a Chaos Emerald. What they find are Mighty, Ray – and serious trouble! Will Egg Boss Thunderbolt push Sonic to the breaking point? Then, in "A Nice Day to Start Again," Bunnie and Antoine experience the effects of the Shattered World Crisis in a very personal way! Featuring new cover art from PATRICK SPAZ SPAZIANTE!

<u>B&V Friends Double Digest #264</u> Archie Superstars,2018-09-19 BRAND NEW LEAD STORY: "The Snow Queen" Veronica is the Snow Queen, a teen with special powers and a heart of ice. Will anyone be able to warm her heart and turn her back to normal?

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