

Compression Ratio

Kamisetty Ramam Rao,Patrick C. Yip

Cost, Effectiveness, and Deployment of Fuel Economy Technologies for Light-Duty Vehicles National Research Council, Division on Engineering and Physical Sciences, Board on Energy and Environmental Systems, Committee on the Assessment of Technologies for Improving Fuel Economy of Light-Duty Vehicles, Phase 2, 2015-09-28 The light-duty vehicle fleet is expected to undergo substantial technological changes over the next several decades. New powertrain designs, alternative fuels, advanced materials and significant changes to the vehicle body are being driven by increasingly stringent fuel economy and greenhouse gas emission standards. By the end of the next decade, cars and light-duty trucks will be more fuel efficient, weigh less, emit less air pollutants, have more safety features, and will be more expensive to purchase relative to current vehicles. Though the gasoline-powered spark ignition engine will continue to be the dominant powertrain configuration even through 2030, such vehicles will be equipped with advanced technologies, materials, electronics and controls, and aerodynamics. And by 2030, the deployment of alternative methods to propel and fuel vehicles and alternative modes of transportation, including autonomous vehicles, will be well underway. What are these new technologies - how will they work, and will some technologies be more effective than others? Written to inform The United States Department of Transportation's National Highway Traffic Safety Administration (NHTSA) and Environmental Protection Agency (EPA) Corporate Average Fuel Economy (CAFE) and greenhouse gas (GHG) emission standards, this new report from the National Research Council is a technical evaluation of costs, benefits, and implementation issues of fuel reduction technologies for next-generation light-duty vehicles. Cost, Effectiveness, and Deployment of Fuel Economy Technologies for Light-Duty Vehicles estimates the cost, potential efficiency improvements, and barriers to commercial deployment of technologies that might be employed from 2020 to 2030. This report describes these promising technologies and makes recommendations for their inclusion on the list of technologies applicable for the 2017-2025 CAFE standards.

A Correlation of the Effects of Compression Ratio and Inlet-air Temperature on the Knock Limits of Aviation Fuels in a CFR Engine - 2 Henry E. Alquist, Leon O'Dell, John C. Evvard, 1946 The knock-limited performance of nine fuels, comprising isolated members of four classes of hydrocarbons, paraffins, cycloparaffins, and olefins), is presented in the form of three-dimensional plots of fuel-air ratio, compression temperature, and compression-air density. The plots are based on a correlation that is shown to apply for these fuels over a wide range of compression that is shown to apply for these fuels over a wide range of compression ratios and inlet-air temperatures. The significance of the term temperature sensitivity is sketched, and it is emphasized that no generalized number such as octane number can be applied even to members of a given class of hydrocarbons when broad ranges of engine severity are encountered.

The Effect of Compression Ratio on Performance of a Single Cylinder Spark Ignition Engine Fueled with Producer Gas Generated from Rice Hulls Inigo Reyes Camacho, 1988

Optimization Between Image Quality and Compression Ratio Jagadeesh Bandi, 2012-03 The demand of digital information compression is increasing dramatically because of the dominance of multimedia technology and the bandwidth limitations of the physical media. The goal of image compression is to represent an image with as few number of bits as possible while preserving the quality required for the given application. JPEG and JPEG2000 are the international standard for still image compression with a fixed quantization matrix. This work presents the impact of varying the elements of this matrix by multiplying and dividing them with integers. The process results in the reduction of the number of bits used to represent the pixels in the compressed image. In this proposed scheme, the trade-off between compression ratio and quality of the image are optimized using Genetic Algorithm. A comparison of the various compression indices are made to validate the proposed method with the benchmark still image 'LENA'.

Image and Text Compression James A. Storer, 2012-12-06 James A. Storer Computer Science Dept. Brandeis University Waltham, MA 02254 Data compression is the process of encoding a body of data to reduce storage requirements. With Lossless compression, data can be decompressed to be identical to the original, whereas with lossy compression, decompressed data may be an acceptable approximation (according to some fidelity criterion) to the original. For example, with digitized video, it may only be necessary that the decompressed video look as good as the original to the human eye. The two primary functions of data compression are: Storage: The capacity of a storage device can be effectively increased with data compression software or hardware that compresses a body of data on its way to the storage device and decompress it when it is retrieved. Communications: The bandwidth of a digital communication link can be effectively increased by compressing data at the sending end and decompressing data at the receiving end. Here it can be crucial that compression and decompression can be performed in real time.

Novel Variable Compression Ratio (VCR) Engine Milind Yadav, 2012-03 Conventional gasoline engines work on the fixed compression ratio which is a golden mean between the knocking at high loads and fuel economy at low loads. A variable compression ratio engine can work at various compression ratios depending upon the vehicle performance needs. Engine downsizing, great fuel economy, no knocking operation and flexibility in fuel used make them a brilliant choice as automotive engines in near future. However the VCR engines also suffers from disadvantage of mass manufacturing due to their complexity. The author of the present book studied the details of VCR engines and proposed a concept of conversion of fixed compression ratio into a variable compression ratio engine. The newly designed mechanism makes use of a split type of cylinder block which varies the compression ratio by lifting the cylinder head. The mechanism can be loaded on two stroke as well as four stroke engines. Mechanical simplicity, improved fuel economy and increase in the brake thermal and volumetric efficiency are the major advantages after conversion of fixed compression ratio engine into a variable compression ratio engine.

Image and Video Compression Madhuri A. Joshi, Mehul S. Raval, Yogesh H. Dandawate, Kalyani R. Joshi, Shilpa P. Metkar, 2014-11-17 Image and video signals require large transmission bandwidth and storage, leading to high costs. The data must be compressed without a loss or with a small loss of quality. Thus, efficient image and video compression algorithms play a significant role in the storage and transmission of data. Image and Video Compression: Fundamentals, Techniques, and

Implementing IBM Real-time Compression on the IBM XIV Storage System Guenter Rebmann, Albert Verhoeff, Megan Gilge, IBM Redbooks, 2017-02-22 IBM® Real-time Compression™ is fully integrated in the IBM XIV® Storage System Gen3 with software version 11.6. Real-time Compression provides the possibility to store 2 - 5 times more data per XIV system, without additional hardware. This technology also expands the storage-replication-related bandwidth, and can significantly decrease the total cost of ownership (TCO). Using compression for replication and for volume migration with IBM Hyper-Scale Mobility is faster, and requires less bandwidth for the interlink connections

between the IBM XIV storage systems, because the data that is transferred through these links is already compressed. IBM Real-time Compression uses patented IBM Random Access Compression Engine (RACE) technology, achieving field-proven compression ratios and performance with compressible data. This IBM Redpaper™ publication helps administrators understand and implement IBM Real-time Compression on the IBM XIV Gen3 storage system.

IBM Real-time Compression in IBM SAN Volume Controller and IBM Storwize Jon Tate, Christian Burns, Bosmat Tuv-El, Jorge Quintal, IBM Redbooks, 2018-05-16 IBM® Real-time Compression™ software that is embedded in IBM SAN Volume Controller (SVC) and IBM Storwize® V7000 solution addresses all the requirements of primary storage data reduction, including performance, by using a purpose-built technology called . This IBM Redpaper™ publication addresses the key requirements for primary storage data reduction and gives real world examples of savings that can be made by using compression. SVC and Storwize V7000 is designed to improve storage efficiency by compressing data by as much as 80% through supported real-time compression for block storage. This process enables up to five times as much data to be stored in the same physical disk space. Unlike other approaches to compression, IBM Real-time Compression is used with active primary data, such as production databases and email systems. This configuration dramatically expands the range of candidate data that can benefit from compression. As its name implies, IBM Real-time Compression operates as data is written to disk, avoiding the need to store data that is awaiting compression.

JPEG2000 Standard for Image Compression Tinku Acharya, Ping-Sing Tsai, 2005-01-21 JPEG2000 Standard for Image Compression presents readers with the basic background to this multimedia compression technique and prepares the reader for a detailed understanding of the JPEG2000 standard, using both the underlying theory and the principles behind the algorithms of the JPEG2000 standard for scalable image compression. It introduces the VLSI architectures and algorithms for implementation of the JPEG2000 standard in hardware (not available in the current literature), an important technology for a number of image processing applications and devices such as digital camera, color fax, printer, and scanners.

Still Image Compression on Parallel Computer Architectures Savitri Bevinakoppa, 2012-12-06 Still Image Compression on Parallel Computer Architectures investigates the application of parallel-processing techniques to digital image compression. Digital image compression is used to reduce the number of bits required to store an image in computer memory and/or transmit it over a communication link. Over the past decade advancements in technology have spawned many applications of digital imaging, such as photo videotex, desktop publishing, graphics arts, color facsimile, newspaper wire phototransmission and medical imaging. For many other contemporary applications, such as distributed multimedia systems, rapid transmission of images is necessary. Dollar cost as well as time cost of transmission and storage tend to be directly proportional to the volume of data. Therefore, application of digital image compression techniques becomes necessary to minimize costs. A number of digital image compression algorithms have been developed and standardized. With the success of these algorithms, research effort is now directed towards improving implementation techniques. The Joint Photographic Experts Group (JPEG) and Motion Photographic Experts Group (MPEG) are international organizations which have developed digital image compression standards. Hardware (VLSI chips) which implement the JPEG image compression algorithm are available. Such hardware is specific to image compression only and cannot be used for other image processing applications. A flexible means of implementing digital image compression algorithms is still required. An obvious method of processing different imaging applications on general purpose hardware platforms is to develop software implementations. JPEG uses an 8×8 block of image samples as the basic element for compression. These blocks are processed sequentially. There is always the possibility of having similar blocks in a given image. If similar blocks in an image are located, then repeated compression of these blocks is not necessary. By locating similar blocks in the image, the speed of compression can be increased and the size of the compressed image can be reduced. Based on this concept an enhancement to the JPEG algorithm is proposed, called Block Comparator Technique (BCT). Still Image Compression on Parallel Computer Architectures is designed for advanced students and practitioners of computer science. This comprehensive reference provides a foundation for understanding digital image compression techniques and parallel computer architectures.

Data Compression with Error-control Coding for Space Telemetry Thomas J. Lynch, 1967

Digital Image Compression Weidong Kou, 2013-03-14 Digital image business applications are expanding rapidly, driven by recent advances in the technology and breakthroughs in the price and performance of hardware and firmware. This ever increasing need for the storage and transmission of images has in turn driven the technology of image compression: image data rate reduction to save storage space and reduce transmission rate requirements. Digital image compression offers a solution to a variety of imaging applications that require a vast amount of data to represent the images, such as document imaging management systems, facsimile transmission, image archiving, remote sensing, medical imaging, entertainment, HDTV, broadcasting, education and video teleconferencing. Digital Image Compression: Algorithms and Standards introduces the reader to compression algorithms, including the CCITT facsimile standards T.4 and T.6, JBIG, CCITT H.261 and MPEG standards. The book provides comprehensive explanations of the principles and concepts of the algorithms, helping the readers' understanding and allowing them to use the standards in business, product development and R&D. Audience: A valuable reference for the graduate student, researcher and engineer. May also be used as a text for a course on the subject.

A Guide to Data Compression Methods David Salomon, 2002-02-08 A concise guide of essential data compression methods and algorithms for text, audio and imaging data.

Annual Report of the National Advisory Committee for Aeronautics United States. National Advisory Committee for Aeronautics, 1928 Includes the Committee's Reports no. 1-1058, reprinted in v. 1-37.

Digital Image Sequence Processing, Compression, and Analysis Todd R. Reed, 2004-07-27 Digital image sequences (including digital video) are increasingly common and important components in technical applications ranging from medical imaging and multimedia communications to autonomous vehicle navigation. The immense popularity of DVD video and the introduction of digital television make digital video ubiquitous in the consumer domain. Digital Image Sequence Processing, Compression, and Analysis provides an overview of the current state of the field, as analyzed by leading researchers. An invaluable resource for planning and conducting research in this area, the book conveys a unified view of potential directions for further industrial development. It offers an in-depth treatment of the latest perspectives on processing, compression, and analysis of digital image sequences. Research involving digital image sequences remains extremely active. The advent of economical sequence acquisition, storage, and display devices, together with the availability of computing power, opens new areas of opportunity.

This volume delivers the background necessary to understand the strengths and weaknesses of current techniques and the directions that consumer and technical applications may take over the coming decade.

Image and Video Compression Standards Vasudev Bhaskaran, Konstantinos Konstantinides, 2013-04-17 Image and Video Compression Standards: Algorithms and Architectures presents an introduction to the algorithms and architectures that underpin the image and video compression standards, including JPEG (compression of still images), H.261 (video teleconferencing), MPEG-1 and MPEG-2 (video storage and broadcasting). In addition, the book covers the MPEG and Dolby AC-3 audio encoding standards, as well as emerging techniques for image and video compression, such as those based on wavelets and vector quantization. The book emphasizes the foundations of these standards, i.e. techniques such as predictive coding, transform-based coding, motion compensation, and entropy coding, as well as how they are applied in the standards. How each standard is implemented is not dealt with, but the book does provide all the material necessary to understand the workings of each of the compression standards, including information that can be used to evaluate the efficiency of various software and hardware implementations conforming to the standards. Particular emphasis is placed on those algorithms and architectures that have been found to be useful in practical software or hardware implementations. Audience: A valuable reference for the graduate student, researcher or engineer. May also be used as a text for a course on the subject.

The Engineer, 1920

The Transform and Data Compression Handbook Kamisetty Ramam Rao, Patrick C. Yip, 2018-10-03 Data compression is one of the main contributing factors in the explosive growth in information technology. Without it, a number of consumer and commercial products, such as DVD, videophone, digital camera, MP3, video-streaming and wireless PCS, would have been virtually impossible. Transforming the data to a frequency or other domain enables even more efficient compression. By illustrating this intimate link, The Transform and Data Compression Handbook serves as a much-needed handbook for a wide range of researchers and engineers. The authors describe various discrete transforms and their applications in different disciplines. They cover techniques, such as adaptive quantization and entropy coding, that result in significant reduction in bit rates when applied to the transform coefficients. With clear and concise presentations of the ideas and concepts, as well as detailed descriptions of the algorithms, the authors provide important insight into the applications and their limitations. Data compression is an essential step towards the efficient storage and transmission of information. The Transform and Data Compression Handbook provides a wealth of information regarding different discrete transforms and demonstrates their power and practicality in data compression.

Data Compression David Salomon, 2007-03-20 This book provides a comprehensive reference for the many different types and methods of compression. Included are a detailed and helpful taxonomy, analysis of most common methods, and discussions on the use and comparative benefits of methods and description of how to use them. Detailed descriptions and explanations of the most well-known and frequently used compression methods are covered in a self-contained fashion, with an accessible style and technical level for specialists and nonspecialists. Comments and suggestions of many readers have been included as a benefit to future readers, and a website is maintained and updated by the author.

Unveiling the Magic of Words: A Overview of "**Compression Ratio**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Compression Ratio**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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