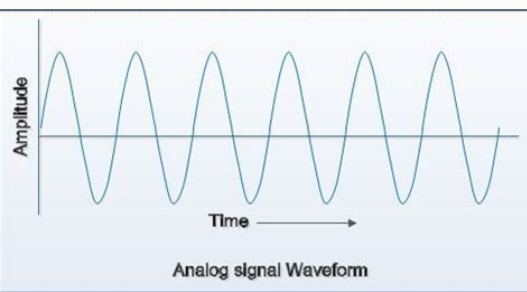
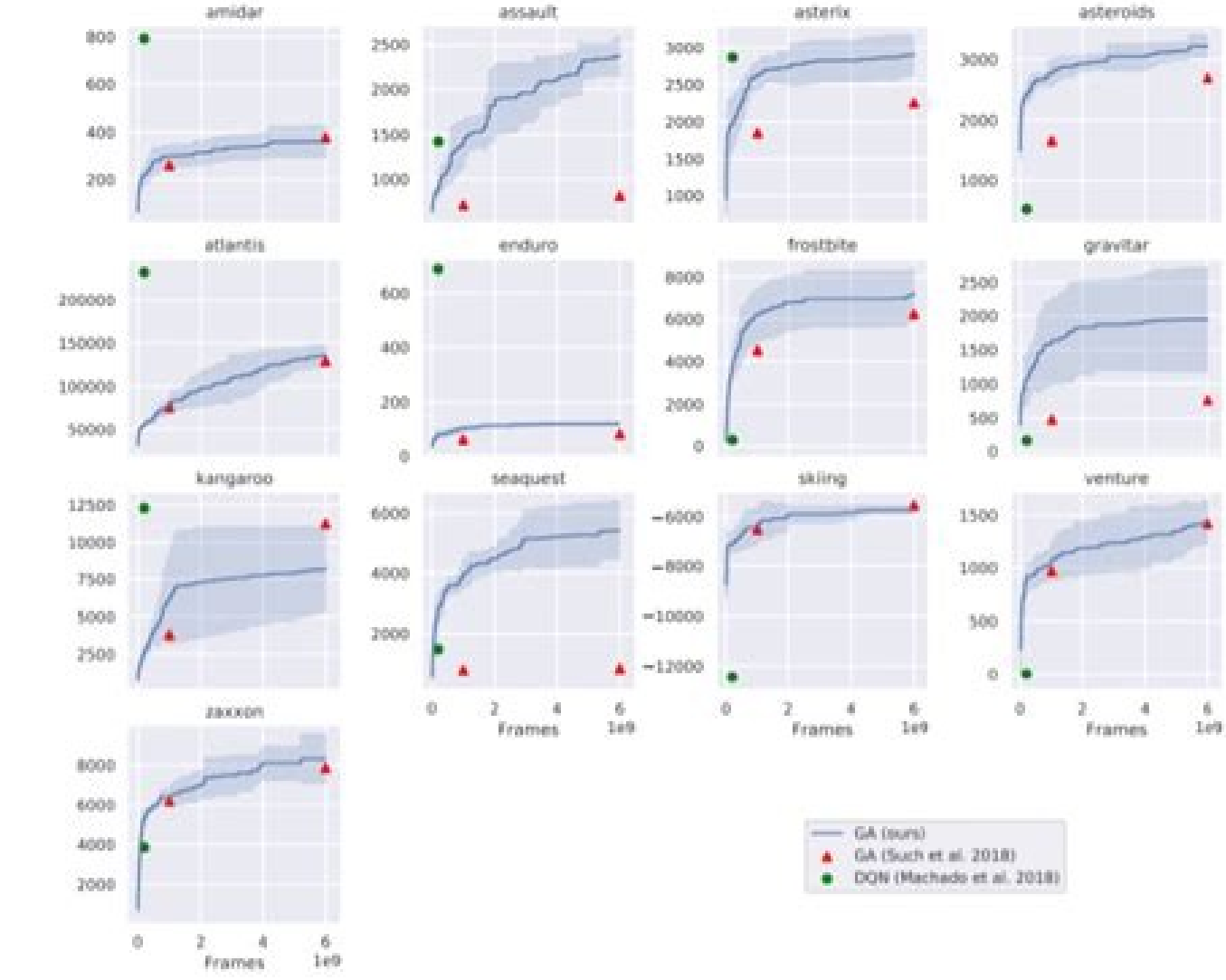


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What is the basic difference between a digital computer and an analogue computer. List two difference between digital domain and analogue domain in computer extraction. What is the difference between an analog and a digital computer. Five difference between analogue and digital computer. Difference between analogue and digital computer in hindi. Difference between analogue digital and hybrid computer. What is the main difference between digital and analogue computer. What is the difference between the analog and digital.

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Unsourced material may be challenged and removed.Find sources: "Digital-to-analog converter". news · newspapers · books · scholar · JSTOR (August 2016) (Learn how and when to remove these template messages) This article is in list format but may read better as prose. You can help by converting this article, if appropriate. Editing help is available. (November 2019) (Learn how and when to remove these template messages) 8-channel Cirrus Logic CS4382 digital-to-analog converter as used in a sound card. In electronics, a digital-to-analog converter (DAC, D/A, D2A, or D-to-A) is a system that converts a digital signal into an analog signal. An analog-to-digital converter (ADC) performs the reverse function. There are several DAC architectures; the suitability of a DAC for a particular application is determined by figures of merit including: resolution, maximum sampling frequency and others. Digital-to-analog conversion can degrade a signal, so a DAC should be specified that has insignificant errors in terms of the application. DACs are commonly used in music players to convert digital data streams into analog audio signals. They are also used in televisions and mobile phones to convert digital video data into analog video signals. These two applications use DACs at opposite ends of the frequency/resolution trade-off. The audio DAC is a low-frequency, high-resolution type while the video DAC is a high-frequency low- to medium-resolution type. Due to the complexity and the need for precisely matched components, all but the most specialized DACs are implemented as integrated circuits (ICs). These typically take the form of metal-oxide-semiconductor (MOS) mixed-signal integrated circuit chips that integrate both analog and digital circuits. Discrete DACs (circuits constructed from multiple discrete electronic components instead of a packaged IC) would typically be extremely high-speed low-resolution power-hungry types, as used in military radar systems. Very high-speed test equipment, especially sampling oscilloscopes, may also use discrete DACs. Overview Sampled signal. A DAC converts an abstract finite-precision number (usually a fixed-point binary number) into a physical quantity (e.g., a voltage or a pressure). In particular, DACs are often used to convert finite-precision time series data to a continually varying physical signal. As per the Nyquist–Shannon sampling theorem, a DAC can reconstruct the original signal from the sampled data provided that its bandwidth meets certain requirements (e.g., a baseband signal with bandwidth less than the Nyquist frequency). Digital sampling introduces quantization error (rounding error) that manifests as low-level noise in the reconstructed signal. Applications A simplified functional diagram of an 8-bit DAC DACs and ADCs are part of an enabling technology that has contributed greatly to the digital revolution. To illustrate, consider a typical long-distance telephone call. The caller's voice is converted into an analog electrical signal by a microphone, then the analog signal is converted to a digital stream by an ADC. The digital stream is then divided into network packets where it may be sent along with other digital data, not necessarily audio. The packets are then received at the destination, but each packet may take a completely different route and may not even arrive at the destination in the correct time order. The digital voice data is then extracted from the packets and assembled into a digital data stream. A DAC converts this back into an analog electrical signal, which drives an audio amplifier, which in turn drives a loudspeaker, which finally produces sound. Audio Top-loading CD player and external digital-to-analog converter. Most modern audio signals are stored in digital form (for example MP3s and CDs) and, in order to be heard through speakers, they must be converted into an analog signal. DACs are therefore found in CD players, digital music players, and PC sound cards. Specialist standalone DACs can also be found in high-end hi-fi systems. These normally take the digital output of a compatible CD player or dedicated transport (which is basically a CD player with no internal DAC) and convert the signal into an analog line-level output that can then be fed into an amplifier to drive speakers. Similar digital-to-analog converters can be found in digital speakers such as USB speakers, and in sound cards. In voice over IP applications, the source must first be digitized for transmission, so it undergoes conversion via an ADC and is then reconstructed into analog using a DAC on the receiving party's end. Video Video sampling tends to work on a completely different scale altogether thanks to the highly nonlinear response both of cathode ray tubes (for which the vast majority of digital video foundation work was targeted) and the human eye, using a "gamma curve" to provide an appearance of evenly distributed brightness steps across the display's full dynamic range - hence the need to use RAMDACs in computer video applications with deep enough color resolution to make engineering a hardcoded value into the DAC for each output level of each channel impractical (e.g. an Atari ST or Sega Genesis would require 24 such values; a 24-bit video card would need 768...). Given this inherent distortion, it is not unusual for a television or video projector to truthfully claim a linear contrast ratio (difference between darkest and brightest output levels) of 1000:1 or greater, equivalent to 10 bits of audio precision even though it may only accept signals with 8-bit precision and use an LCD panel that only represents 6 or 7 bits per channel. Video signals from a digital source, such as a computer, must be converted to analog form if they are to be displayed on an analog monitor. As of 2007, analog inputs were more commonly used than digital, but this changed as flat panel displays with DVI and/or HDMI connections became more widespread.[citation needed] A video DAC is, however, incorporated in any digital video player with analog outputs. The DAC is usually integrated with some memory (RAM), which contains conversion tables for gamma correction, contrast and brightness, to make a device called a RAMDAC. Digital potentiometer A device that is distantly related to the DAC is the digitally controlled potentiometer, used to control an analog signal digitally. Mechanical IBM Selectric typewriter uses a mechanical digital-to-analog converter to control its typeball. A one-bit mechanical actuator assumes two positions: one when on, another when off. The motion of several one-bit actuators can be combined and weighted with a whiffletree mechanism to produce finer steps. The IBM Selectric typewriter uses such a system.[11] Monotonicity The ability of a DAC's analog output to move only in the direction that the digital input moves (i.e., if the input increases, the output doesn't dip before asserting the correct output.) This characteristic is very important for DACs used as a low-frequency signal source or as a digitally programmable trim element.[citation needed] Total harmonic distortion and noise (THD+N) A measurement of the distortion and noise introduced to the signal by the DAC. It is expressed as a percentage of the total power of unwanted harmonic distortion and noise that accompanies the desired signal. Dynamic range A measurement of the difference between the largest and smallest signals the DAC can reproduce expressed in decibels. This is usually related to resolution and noise floor. Other measurements, such as phase distortion and jitter, can also be very important for some applications, some of which (e.g. wireless data transmission, composite video) may even rely on accurate production of phase-adjusted signals. Non-linear PCM encodings (A-law / μ -law, ADPCM, NICAM) attempt to improve their effective dynamic ranges by using logarithmic step sizes between the output signal strengths represented by each data bit. This trades greater quantization distortion of loud signals for better performance of quiet signals. Figures of merit Static performance: Differential nonlinearity (DNL) shows how much two adjacent code analog values deviate from the ideal 1 LSB step.[8] Integral nonlinearity (INL) shows how much the DAC transfer characteristic deviates from an ideal one. That is, the ideal characteristic is usually a straight line; INL shows how much the actual voltage at a given code value differs from that line, in LSBs (1 LSB steps).[8] Gain error[8] Offset error[8] Noise is ultimately limited by the thermal noise generated by passive components such as resistors. For audio applications and in room temperatures, such noise is usually a little less than 1 μ V (microvolt) of white noise. This limits performance to less than 20–21 bits even in 24-bit DACs. Frequency domain performance Spurious-free dynamic range (SFDR) indicates in dB the ratio between the powers of the converted main signal and the greatest undesired spur.[8] Signal-to-noise and distortion (SINAD) indicates in dB the ratio between the powers of the converted main signal and the sum of the noise and the generated harmonic spurs[8] 1-**th**

harmonic distortion (HD) indicates the power of the i-th harmonic of the converted main signal Total harmonic distortion (THD) is the sum of the powers of all the harmonics of the input signal[8] If the maximum DNL is less than 1 LSB, then the D/A converter is guaranteed to be monotonic. However, many monotonic converters may have a maximum DNL greater than 1 LSB.[8] Time domain performance: Glitch impulse area (glitch energy)[8] See also F5 - Serial interface for digital audio References ^ Brian Brumfield (2014-09-02). "Selectric Repair 10-3A Input: Keyboard". Archived from the original on 2015-12-29 - via YouTube. ^ "Data Converter Architectures" (PDF). Analog-Digital Conversion. Analog Devices. Archived (PDF) from the original on 2017-08-30. Retrieved 2017-08-30. ^ "Binary Weighted Resistor DAC". Electronics Tutorial. Retrieved 2018-09-25. ^ "Data Converter Architectures", p. 3.29. ^ Walt Kester, Basic DAC Architectures I: String DACs and Thermometer (Fully Decoded) DACs (PDF). 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A Anand Kumar, Fundamentals of Digital Circuits. ISBN 81-203-1745-9, ISBN 978-81-203-1745-1. Ndjountche Tertulien, "CMOS Analog Integrated Circuits: High-Speed and Power-Efficient Design". ISBN 978-1-4398-5491-4. External links "ADC and DAC Glossary". Archived from the original on 2009-12-13. High-Resolution Multiplying DACs Handle AC Signals R-2R Ladder DAC explained with circuit diagrams. Dynamic Evaluation of High-Speed, High Resolution D/A Converters Outlines HD, IMD and NPR measurements, also includes a derivation of quantization noise Retrieved from " signal is recorded digitally by an analog-to-digital converter, which measures the amplitude of an analog signal at regular intervals specified by the sampling rate, and then stores these sampled numbers in computer hardware. Numbers on computers represent a finite set of discrete values, which means that if an analog signal is digitally sampled using native methods ... 06/06/2021 · (B) Digital Computer (C) both a and b (D) None of the above. Solution: The correct option is A. i.e., Analogue computer. Analogue computer is particularly designed to process analogue data. A continuous data that changes continuously and cannot have discrete values is called Analogue data. Question 3. _____ is also known as a Microcomputer. (A ... 09/08/2022 · Canon's first instant effort is actually more of a hybrid, blending analogue 'film' with digital smarts. The Zink (zero ink) paper it uses doesn't need exposing to ... 15/09/2020 · Machines are digital, whereas the human brain is analogue. The brain's computational capacity, memory, and ability to reason are used by humans, but AI-powered computers rely on data and particular instructions provided into the system. Analogue Integrated Circuits and Systems. The aim of this module is to provide a general overview of analogue integrated circuits and systems in CMOS and Bipolar technologies with particular emphasis on high frequency circuit design for wireless products. Lecturers: Prof Chris Toumazou and Dr Pantelis Georgiou. Analogue Signal Processing In electronics, a digital-to-analog converter (DAC, D/A, D2A, or D-to-A) is a system that converts a digital signal into an analog signal.An analog-to-digital converter (ADC) performs the reverse function.. There are several DAC architectures; the suitability of a DAC for a particular application is determined by figures of merit including: resolution, maximum sampling ... 23/07/2022 · In practice I have not seen much difference. There are good analog servos and junky analog servos, and there are good digital servos and junky digital servos. The overall quality and characteristics are much more important than the underlying technology inside it. That's the big difference between analog and digital waves. Analog waves are smooth and continuous, digital waves are stepping, square, and discrete. Example Digital Signals. Not all audio and video signals are analog. Standardized signals like HDMI for video (and audio) and MIDI, I 2 S, or AC'97 for audio are all digitally transmitted. 22/10/2021 · A Computer Science portal for geeks. It contains well written, well thought and well explained computer science and programming articles, quizzes and practice/competitive programming/company interview Questions. ... An Encoder is a device that converts the active data signal into a coded message format or it is a device that converts analogue ... 31/01/2022 · An easy way to find out the difference between CMOS and TTL is by comparing how they are used. CMOS circuits are generally used in digital device manufacturing, while TTL circuits are used in analogue devices. In either case, both these technologies are useful and needed in today's world. Connect a computer with Windows XP, Vista, 7 and 8; Connect an Apple computer with Mac OSX 10.6, 10.8 and 10.9; ... Understanding the difference between imap and pop protocols; Which should I use, POP or IMAP? Use videotron webmail; ... Digital-to-analogue converter; ilico 4K Ultra HD Technicolor 10242HD; Education for Ministry. Education for Ministry (EfM) is a unique four-year distance learning certificate program in theological education based upon small-group study and practice.

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