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Online processing is very effective these days. If we compare with batch processing system than online systems are expensive. Batch processing work in batches and then jobs is divided into sub jobs and then processed so it don't need lot of hardware resources. As online processing involve mobiles data also so it is expensive. In decent development now our mobiles and small devices also do some type of [...] Online processing is very effective these days. If we compare with batch processing system than online systems are expensive. Batch processing work in batches and then jobs is divided into sub jobs and then processed so it don't need lot of hardware resources. As online processing involve mobiles data also so it is expensive. In decent development now our mobiles and small devices also do some type of [...] in case if user input some data by filling input form on any site then it get processed and data fetch from the database online at the same time. The online processing involves database servers, files on hosting and browser to communicate effectively and do fast work to be responsive. As the name suggests it is online so that mean it is live to action. The processing just on time. In batch systems the data enter at any time may get processed days later. For example data collected about salaries and other transactions about customers get processed later at the date when reports are generated. Similarly inventories and salary distributed is processed later. So this batch processing is schedule based in which processing get time schedule of when to process data. In online processing like on amazon.com website which is a shopping cart site, the transaction and processing gets online and in time live. In online processing error shown and fixed on exact time while in batch processing if error occurs then it will be report and printed late. Batch processing is better to use for massive and sequential records processing while online processing is used in concurrent updates. Data management is best handled in online processing. The strategy involved in processing is critical also privacy is high and online processing is stable at the time when records get fetch and updated. Examples of online processing involves Google, wordpress hosted cms and other hosting companies do online processing. The statistics of users e.g. stats of traffic on website involves online processing. Some cms like Joomla, Drupal, Magento get processed and data is correlated live depending upon server performance. Different components in these cms are based upon speed of server. More over shopping cart like woocommerce in wordpress is also processed online. I am a blogger and freelance web developer by profession. I love to blog and learn new things about programming and IT World. Configure your source and data warehouse in just a few clicks. 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While Fivetran offers an easy-to-use, fully managed solution with pre-built connectors, AWS Glue, is... April 23rd, 2025 By Davor DSouza in Data Integration Apache Airflow promotes itself as a community-based platform for managing and orchestrating programmatic workflows. These are workflows for the data teams in charge of ETL pipelines, and a code-based system... We provides complete Digital Marketing Services at affordable price, but not compromise with quality. Explore your services and products over the world. You can adopt our quality SEO Service for the website, apps, services & product's promotions over the Internet. Experts run Google ads to produce good result. Show your ads in target specific demographics with various campaigns to specific audiences you intend to reach. Compose engaging and informative content to improve visibility of your personal brand. Experts generate the deep researched content for articles & social media posts. Hear from our satisfied customers who have experienced the quality and value of our products and services. Great work and delivery by this company ! Hope to see even more improvements in the months to come . Thanks Jacob Your dedication and expertise have truly made a significant impact, and I am extremely pleased with both the quality and delivery of your work. Reliable and trustworthy. I highly recommend this business to anyone looking for top-notch products/services. Impressive attention to detail and excellent communication. Working with this team has been a pleasure. I am very IMPRESSED with SEO work on my website. His depth of data, attention to detail, and overall professionalism were top-notch. He exhibited a deep understanding, was quick to respond, and communicated fluently. A true partner in success. This business has played a significant role in our growth and achievements. Manager Team Leader Director HR Our team of skilled professionals possess unmatched expertise in their respective fields, ensuring that you receive the highest level of service. We understand that every customer is unique, and we tailor our solutions to meet your specific needs, offering customized options that perfectly align with your goals. We value your time and guarantee prompt delivery of our products/services, enabling you to stay on track and meet your deadlines , the free encyclopedia that anyone can edit. 117,937 active editors 7,001,558 articles in English The English-language Wikipedia is contributors for creating more than seven million articles! Learn how you can take part in the encyclopedia's continued improvement. Members of the victorious Boonhe crew The Boat Race 2018 took place on 24 March. Held annually, The Boat Race is a side-by-side rowing race between crews from the universities of Oxford and Cambridge along a 4.2-mile (6.8 km) tidal stretch of the River Thames in south-west London, England. For the third time in the history of the event, the men's, the women's and both reserves' races were all held on the Tideway on the same day. The women's race saw Cambridge lead from the start, eventually winning by a considerable margin to take the overall record to 43-30 in their favour. In the women's reserve race, Cambridge's Blondie (crew pictured) defeated Oxford's Osiris by nine lengths. The men's race was the final event of the day and completed a whitewash as Cambridge won, taking the overall record to 83-80 in their favour. The races were watched by around 250,000 spectators live, and broadcast around the world. (Full article...) Recently featured: Radar, Gun Laying, Mk. I and Mk. 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Gaillard Peter David Alan Yentob Gerry Connolly Sebastião Salgado Nominate an article May 31: Dragon Boat Festival in China and Taiwan (2025); World No Tobacco Day Bessarion 455 – Petronius Maximus, the ruler of the Western Roman Empire, was stoned to death by a mob as he fled Rome ahead of the arrival of a Vandal force that sacked the city. 1223 – Mongol invasion of Kievan Rus': Mongol forces defeated a Kievan Rus' army at the Battle of the Kalka River in present-day Ukraine. 1468 – Cardinal Bessarion (pictured) announced his donation of 746 Greek and Latin codices to the Republic of Venice, forming the Biblioteca Marciana. 1935 – A magnitude-7.7 earthquake struck Balochistan in British India, now part of Pakistan, killing between 30,000 and 60,000 people. 2013 – A tornado struck Central Oklahoma, killing eight people and injuring more than 150 others. Albertino Mussato (d. 1329)Joseph Grimaldi (d. 1837)Dina Boluarte (b. 1962)Mbaye Diagne (d. 1994) More anniversaries: May 30 May 31 June 1 Archive By email List of days of the year About Cucumis metuliferus, the African horned cucumber, is an annual vine in the cucumber and melon family, Cucurbitaceae. Its fruit has horn-like spines, hence the name "horned melon". The ripe fruit has orange skin and lime-green, jelly-like flesh. It is native to Southern Africa, where it is a traditional food. Along with the gemsbok cucumber and the citron melon, it is one of the few sources of water during the dry season in the Kalahari Desert. This photograph, which was focus-stacked from 25 separate images, shows two C. metuliferus fruits, one whole and the other in cross-section. Photograph credit: Ivar Leidus Recently featured: Ignace Tonené Australian white ibis Hell Gate Bridge Archive More featured pictures Community portal – The central hub for editors, with resources, links, tasks, and announcements. Village pump – Forum for discussions about Wikipedia itself, including policies and technical issues. Site news – Sources of news about Wikipedia and the broader Wikimedia movement. Teahouse – Ask basic questions about using or editing Wikipedia. Help desk – Ask questions about using or editing Wikipedia. Reference desk – Ask research questions about encyclopedic topics. Content portals – A unique way to navigate the encyclopedia. Wikipedia is written by volunteer editors and hosted by the Wikimedia Foundation, a non-profit organization that also hosts a range of other volunteer projects: CommonsFree media repository MediaWikiWiki software development Meta-WikiWikimedia project coordination WikibooksFree textbooks and manuals WikidataFree knowledge base WikinewsFree-content news WikiquoteCollection of quotations WikisourceFree-content library WikispeciesDirectory of species WikiversityFree learning tools WikivoyageFree travel guide WiktionaryDictionary and thesaurus This Wikipedia is written in English. Many other Wikipedias are available; some of the largest are listed below. 1,000,000+ articles Deutsch Español العربية Français Italiano Nederlands 日本語 Polski Português Русский Svenska Українська Tiếng Việt 中文 250,000+ articles Bahasa Indonesia Bahasa Melayu Bân-lâm-gú Български Català Čeština Dansk Eesti Ελληνικά Esperanto Euskara עברית Հայերեն Magyar Norsk bokmål Română Simple English Slovenčina Srpski Srpskohrvatski Suomi Türkçe Oʻzbekcha 50,000+ articles Asturianu Azərbaycanca کوردیی Bosanski فارسی Frysk Gaeilge Galego Hrvatski ქართული Kurdî Latviešu Lietuvių Македонски Norsk nynorsk Shqip Slovenščina اردو Retrieved from " 2 This article is about the year 455. For other uses, see 455 (disambiguation). This article needs additional citations for verification. Please help improve this article by adding citations to reliable sources. Unsourced material may be challenged and removed. Find sources: "455" – news · newspapers · books · scholar · JSTOR (April 2019) (Learn how and when to remove this message) Calendar year Years Millennium 1st millennium Centuries 4th century 5th century 6th century Decades 430s 440s 450s 460s 470s Years 452 453 454 455 456 457 458 vte 455 by topic Leaders Political entities State leaders Religious leaders Categories Births Deaths Disestablishments vte 455 in various calendarsGregorian calendar455CDLVAb urbe condita1208Assyrian calendar5205Balinese saka calendar376–377Bengali calendar−139 – −138Berber calendar1405Buddhist calendar999Burmese calendar−183Byzantine calendar5963–5964Chinese calendar甲午年 (Wood Horse)3152 or 2945 —to —乙未年 (Wood Goat)3153 or 2946Coptic calendar171–172Discordian calendar1621Ethiopian calendar447–448Hebrew calendar4215–4216Hindu calendars - Vikram Samvat511–512 - Shaka Samvat376–377 - Kali Yuga3555–3556Holocene calendar10455Iranian calendar167 BP – 166 BPIslamic calendar172 BH – 171 BHJavanese calendar340–341Julian calendar455CDLVKorean calendar2788Minguo calendar1457 before ROC民前1457年Nanakshahi calendar−1013Seleucid era766/767 AGThai solar calendar997–998Tibetan calendar阴木马年(female Wood-Goat)581 or 200 or −572 — to —阳木羊年(male Wood-Goat)582 or 201 or −571 King Genseric sacks Rome (455) Year 455 (CDLV) was a common year starting on Saturday of the Julian calendar. At the time, it was known as the Year of the Consulship of Valentinianus and Anthemius (or, less frequently, year 1208 Ab urbe condita). The denomination 455 for this year has been used since the early medieval period, when the Anno Domini calendar era became the prevalent method in Europe for naming years. March 16 – Emperor Valentinian III, age 35, is assassinated by two Hunnic retainers of the late Flavius Aetius, while training with the bow on the Campus Martius (Rome), ending the Theodosian dynasty. His primicerius sacri cubiculi, Heraclius, is also murdered. March 17 – Petronius Maximus, former domesticus ("elite bodyguard") of Aetius, becomes (with support of the Roman Senate) emperor of the Western Roman Empire. He secures the throne by bribing officials of the imperial palace. Maximus consolidates his power by a forced marriage with Licinia Eudoxia, widow of Valentinian III. Maximus appoints Avitus, most trusted general, to the rank of magister militum and sends him on an embassy to Toulouse, to gain the support of the Visigoths. He elevates his son Palladius to Caesar and has him marry Eudocia, eldest daughter of Valentinian III. May 31 – Maximus is stoned to death by an angry mob while fleeing Rome. A widespread panic occurs when many citizens hear the news that the Vandals are plundering the Italian mainland. June 2 – Sack of Rome: King Genseric leads the Vandals into Rome, after he has promised Pope Leo I not to burn and plunder the city. Genseric sacks the city for a period of two weeks. Eudoxia and her daughters, Eudocia and Placidia, are taken hostage. The loot is sent to the harbour of Ostia and loaded into ships, from whence the Vandals depart and return to Carthage. July 9 – Avitus is proclaimed Roman emperor at Toulouse, and later recognised by the Gallic chiefs in Viernum (near Arles). September 21 – Avitus enters Rome with a Gallic army. He restores the imperial authority in Noricum (modern Austria) and leaves a Gothic force under Remistus, Visigoth general (magister militum), at Ravenna. The Ostrogoths conquer Pannonia and Dalmatia. Battle of Aylesford: Prince Vortimer rebels against the pro-Anglo-Saxon policies of his father, Vortigern. He is defeated in the battle at Aylesford (Kent). Hengist and his son Oisc become king of Kent. Horsa and Catigern, brother of Vortimer, are killed. The Britons withdraw to London (according to the Anglo-Saxon Chronicle). Skandagupta succeeds Kumaragupta I as ruler of the Gupta Empire (India). During his reign he crushes the Hun invasion; however, the expense of the wars drains the empire's resources and contributes to its decline. Gaero becomes king of the Korean kingdom of Baekje.[1] Earliest recorded date at Chichen Itza on the Yucatán Peninsula (Mexico) (approximate date). Barter economy replaces organized trade as Romans and other citizens desert their towns for the countryside, where they will be less vulnerable to barbarian raids (approximate date). The city of Vindobona (Vienna) is struck by an epidemic that spreads through the Roman provinces. The disease is probably streptococcus or a form of scarlet fever with streptococcus pneumoniae (approximate date). Rusticus, archbishop of Lyon (approximate date) May 31 – Petronius Maximus, emperor of the Western Roman Empire (b. 419) Heraclius, Roman courtier (primicerius sacri cubiculi) May 31 – Petronius Maximus, emperor of the Western Roman Empire Biyu of Baekje, king of Baekje[1] Catigern, prince and son of Vortigern (approximate date) Horsa, leader of the Anglo-Saxons (approximate date) Kumaragupta I, ruler of the Gupta Empire (India) Niall Noigiallach, High King of Ireland (approximate date) Palladius, son of Petronius Maximus (approximate date) Prosper of Aquitaine, disciple and Christian writer (approximate date) ^ a b "List of Rulers of Korea". www.metmuseum.org. Retrieved April 20, 2019. Retrieved from " 30ne hundred years, from 301 to 400 Millennia 1st millennium Centuries 3rd century 4th century 5th century Timelines 3rd century 4th century 5th century State leaders 3rd century 4th century 5th century Decades 300s 310s 320s 330s 340s 350s 360s 370s 380s 390s Categories: Births – Deaths Establishments vte Eastern Hemisphere at the beginning of the 4th century CE. Eastern Hemisphere at the end of the 4th century CE. The 4th century was the time period from 301 CE (represented by the Roman numerals CCCI) to 400 CE (CD) in accordance with the Julian calendar. In the West, the early part of the century was shaped by Constantine the Great, who became the first Roman emperor to adopt Christianity. Gaining sole reign of the empire, he is also noted for re-establishing a single imperial capital, choosing the site of ancient Byzantium in 330 (over the current capitals, which had effectively been changed by Diocletian's reforms to Milan in the West, and Nicomedia in the East) to build the city soon called Nova Roma (New Rome); it was later renamed Constantinople in his honor. The last emperor to control both the eastern and western halves of the empire was Theodosius I. As the century progressed after his death, it became increasingly apparent that the empire had changed in many ways since the time of Augustus. The two-emperor system originally established by Diocletian in the previous century fell into regular practice, and the east continued to grow in importance as a centre of trade and imperial power, while Rome itself diminished greatly in importance due to its location far from potential trouble spots, like Central Europe and the East. Late in the century Christianity became the official state religion, and the empire's old pagan culture began to disappear.[citation needed] General prosperity was felt throughout this period, but recurring invasions by Germanic tribes plagued the empire from 376[1][2] CE onward. These early invasions marked the beginning of the end for the Western Roman Empire. In China, the Jin dynasty, which had controlled the nation prior in 280, began rapidly facing trouble by the start of the century due to political infighting, which led to the insurrections of the northern barbarian tribes (starting in 304) in an event known as the Uprising of the Five Barbarians and quickly overwhelmed the empire, forcing the Jin court to retreat and entrench itself in the south past the Yangtze river, starting what is known as the Eastern Jin dynasty around 317. Towards the end of the century, Emperor of the Former Qin, Fu Jian, united the north under his banner, and planned to conquer the Jin dynasty in the south, so as to finally reunite the land, but was decisively defeated at the Battle of Fei River in 383, causing massive unrest and civil war in his empire, thereby leading to the fall of the Former Qin, and the continued existence of the Eastern Jin dynasty. According to archaeologists, sufficient archaeological evidence correlates of state-level societies coalesced in the 4th century to show the existence in Korea of the Three Kingdoms (300/400–668 CE) of Baekje, Goguryeo, and Silla. Historians of the Roman Empire refer to the "Long Fourth Century" to the period spanning the fourth century proper but starting earlier with the accession of the Emperor Diocletian in 284 and ending later with the death of Honorius in 423 or of Theodosius II in 450.[3] See also: Christianity in the 4th century Gregory the Illuminator mosaic, converted Armenia from Zoroastrianism to Christianity Contemporary bronze head of Constantine I (r. 306-337 AD) Early 4th century – Former audience hall located on the Basilica, Trier, Germany, is built. Early 4th century – The Gupta Empire is founded. 301: Armenia first to adopt Christianity as state religion. 304–439: The Sixteen Kingdoms in China begins. 306–337: Constantine becomes Roman emperor. Christians in the Roman Empire (see also Constantinian shift) and Constantinople becomes new seat of government (New Rome). Tikal had a population of about 100,000 when it was conquered by Teotihuacan, less than a fourth of its peak population[4]320: Butuan Boat One, the oldest known Balangay, a multi-purpose ship native to the Philippines is built. 325–328: The Kingdom of Aksum adopts Christianity. 325: Constantine the Great calls the First Council of Nicaea to pacify Christianity in the grip of the Arian controversy. 335–380: Samudragupta expands the Gupta Empire. 337: Constantine the Great is baptized a Christian on his death bed. 350: About this time the Kingdom of Aksum conquers the Kingdom of Kush. 350–400: At some time during this period, the Huns began to attack the Sassanid Empire.[2] 350: The Kutai Martadipura kingdom in eastern Borneo produced the earliest known stone inscriptions in Indonesia known as the Mulavarman inscription written in the Sanskrit language using Pallava scripture.[5] Mid-4th century – Dish, from Mildenhall, England, is made. It is now kept at the British Museum, London. Mid-4th century – Wang Xizhi makes a portion of a letter from the Feng Ju album. Six Dynasties period. It is now kept at National Palace Museum, Taipei, Taiwan, Republic of China. 365: An earthquake with a magnitude of at least eight strikes the Eastern Mediterranean. The following tsunami causes widespread destruction in Crete, Greece, Libya, Egypt, Cyprus, and Sicily. 376: Visigoths appear on the Danube and are allowed entry into the Roman Empire in their flight from the Huns. 378: Battle of Adrianople: Roman army is defeated by the Goths, Emperor Valens is killed. 378–395: Theodosius I, Roman emperor, bans pagan worship, Christianity is made the official religion of the Empire. 378: Siyaj K'ak' conquers Waka on (January 8), Tikal (January 16) and Uaxactun.Wall painting of the Council of Constantinople (381) in the Stavropoleos monastery, Romania 381: First Council of Constantinople reaffirms the Christian doctrine of the Trinity by adding to the creed of Nicaea. 383: Battle of Fei River in China. 395: The Battle of Canhe Slope occurs. 395: Roman emperor Theodosius I dies, causing the Roman Empire to split permanently. Late 4th century: Cubiculum of Leonis, Catacomb of Commodilla, near Rome, is made. Late 4th century: Atrium added in the Old St. Peter's Basilica, Rome. For a more comprehensive list, see Timeline of the 4th century. The Stirrup was invented in China, no later than 322.[6][1] Kama Sutra, dated between c. 400 BC to c. 300 AD.[7][8] Iron pillar of Delhi, India is the world's first Pillar.[citation needed] Trigonometric functions: The trigonometric functions sine and versine originated in Indian astronomy.[9] Codex Sinaiticus and the Codex Vaticanus Graecus 1209, are the earliest Christian bibles.[10][11] Book of Steps, Syriac religious discourses.[citation needed] ^ a b "The invention and influences of stirrup". Archived from the original on December 3, 2008. ^ a b Roberts, J. "History of the World". Penguin, 1994. ^ The Long Fourth Century 284–450: Continuity and Change in the Later Roman Empire ed. S. McGill, C. Sogno and E. Watts (Cambridge 2008). ^ "The Maya: Glory and Ruin". National Geographic Magazine. Archived from the original on April 9, 2008. ^ "The Austronesians: Historical and Comparative Perspectives". ANU Press. Archived from the original on 2013-12-25. Retrieved 2013-04-29. ^ Lee, Adela C.Y. "The stirrup and its effect on chinese military history". Silkroad Foundation. ^ Sengupta, J. (2006). Refactorus. Creative Designs. p. 21. ISBN 978-0-19-283982-4. ^ Bag, A.K. (1979). Mathematics in Ancient and Medieval India. Delhi: Chaukhambha Orientalia. p. 15. ^ Aland, Kurt; Aland, Barbara (1995). The Text of the New Testament: An Introduction to the Critical Editions and to the Theory and Practice of Modern Textual Criticism. Erroll F. Rhodes (trans.). Grand Rapids, Michigan: William B. Eerdmans Publishing Company. p. 109. ISBN 978-0-8028-4098-1. ^ "Late Handschriften". Münster: Institute for New Testament Textual Research. Retrieved 16 March 2013. Retrieved from " 4 The following pages link to 4th century External tools (link count transclusion count search links) See help page for transcluding these Showing 50 next 50 (20 | 50 | 100 | 250 | 500)List of decades, centuries, and millennia (links | edit) Rosetta Stone (links | edit) 20th century (links | edit) 15th century (links | edit) 16th century (links | edit) 17th century (links | edit) 18th century (links | edit) 19th century (links | edit) 1st century (links | edit) 432 (links | edit) 4th century BC (links | edit) 6th century (links | edit) 12th century (links | edit) 10th century (links | edit) 9th century (links | edit) 3rd century (links | edit) 2nd century (links | edit) 397 (links | edit) 12th century (links | edit) 14th century (links | edit) 11th century (links | edit) 13th century (links | edit) 7th century (links | edit) 10th century (links | edit) 8th century BC (links | edit) 7th century BC (links | edit) 432 (links | edit) 300s (decade) (links | edit) 300s (decade) (links | edit) 1st century BC (links | edit) 2nd century BC (links | edit) 3rd century BC (links | edit) 400s (decade) (links | edit) 310s (links | edit) 320s (links | edit) 321 (links | edit) 20 BC (links | edit) 11th century BC (links | edit) 286 (links | edit) 410 (links | edit) 325 (links | edit) 381 (links | edit) 470s (links | edit) 430s (links | edit) Edit View (previous 50 | next 50) (20 | 50 | 100 | 250 | 500) Retrieved from " WhatLinksHere/4th_century" Windows Phone's first version named Windows Phone 7 was released in October 2010. Then in 2012, Windows Phone 8 was released. Windows Phone 7 using Windows CE-based kernel. While Windows Phone 8 used Windows NT. Windows Phone 7 is the first comprehensive list, see Timeline of the 4th century – Former audience hall located on the Basilica. 7 was built using old OS which was differently coded than Windows Phone 8. That data management, data storage and computation are handled by a mainframe computer or single high-processing machine. Different types of clients are connected to a single central server. The clients which are connected to the centralized server are smartphones, laptops, tablets or desktop computers. The processing speed in centralized data processing depends upon [...] Solaris is a UNIX-based operating system developed in 1992. OS is more secure than other operating systems. Solaris is mostly deployed on servers and high-end machines. On January 27, 2010, Oracle Company bought Solaris OS. Solaris allow multiple OS to run on a single machine. Linux is open source OS but Solaris is licensed under Oracle Sun Microsystems. It is free to download and use Solaris on [...] A data warehouse is a repository or data store in which data is stored, queried, and analyzed. The data comes from different sources like marketing research data, educational data, political data, scientific data, company data etc. A data warehouse is just like a database in the case of a data warehouse, you store structural [...] What is computer network A computer network is group of connection between two or more computers. After networking computers, they share resources, data and internet connections with each other. A computer network is either a local area network (LAN) or a wide area network (WAN). A local area network is made within a building meaning computers within one building are connected to each other. In a wide [...] What is centralized data processing Centralized data processing is a type of processing which is done on a single server/system. All the nodes/computers are connected to a single system. The system resides in a single location and data moves from other locations are connected to that system. The system which is centralized has a lot of processing power. All the data resides in the same system or server. There [...] What is a star topology A data warehouse is a space where structured data is stored, analysed and fetched. The data can be historical data or new data is stored. In bus topology, one node transfers data to all the nodes and the target node gets the data. Similarly, a central router sends data to all the attached nodes in a star topology. Radio and [...] What is star topology In star topology, all nodes are connected to the central router. The node which is centralized has a lot of processing power. All the data resides in the same system or server. There [...] What is data warehouse A data warehouse is a space where structured data is stored, analysed and fetched. The data can be historical data or new developed in 1992. Sun Microsystems owned it but in 2010 Oracle bought this company. Before 2010 Solaris OS was open source but after Oracle bought the company, Solaris OS became closed source. Some components source code of Solaris OS are available to the public on GitHub. However, the Solaris core code is only accessible to Oracle. Both Linux and [...] Windows Media Player (WMP) is a type of player that comes pre-installed with the Windows operating system. It can play audio and video files. The Windows Media Player is coming since the launch of Windows 95. The user interface of the Windows Media Player was last time updated with Windows 7. Some pros and cons of Windows Media Player are described below:- Advantages of Windows Media Player (WMP) [...] Online processing is very effective these days. If we compare with batch processing system than online systems are expensive. Batch processing work in batches and then jobs is divided into sub jobs and then processed so it don't need lot of hardware resources. As online processing involve mobiles data also so it is expensive. In decent development now our mobiles and small devices also do some type of [...] Online processing is very effective these days. If we compare with batch processing system than online systems are expensive. Now with the passage of time latest computer devices do work of both batch processing and online processing at a time. Online processing system vs batch processing system Online processing is just like live processing in that case if user input some data by filling input form on any site then it get processed and data fetch from the database online at the same time. The online processing involves database servers, files on hosting and browser to communicate effectively and do fast work to be responsive. As the name suggests it is online so that mean it is live to action. The processing just on time. In batch systems the data enter at any time may get processed days later. For example data collected about salaries and other transactions about customers get processed later at the date when reports are generated. Similarly inventories and salary distributed is processed later. So this online processing in which processing get time schedule of when to process data. In online processing like on amazon.com website which is a shopping cart site, the transaction and processing gets online and in time live. In online processing error shown and fixed on exact time while in batch processing if error occurs then it will be report and printed late. Batch processing is better to use for massive and sequential records processing while online processing is used in concurrent updates. Data management is best handled in online processing. The strategy involved in processing is critical also privacy is high and online processing is stable at the time when records get fetch and updated. Examples of online processing involves Google, wordpress hosted cms and other hosting companies do online processing. The statistics of users e.g. stats of traffic on website involves online processing. Some cms like Joomla, Drupal, Magento get processed and data is correlated live depending upon server performance. Different components in these cms are based upon speed of server. More over shopping cart like woocommerce in wordpress is also processed online. I am a blogger and freelance web developer by profession. I love to blog and learn new things about programming and IT World. What is batch system? In batch system jobs are given on punch cards and then these punch cards behave as input to the computer. These jobs or batch jobs were then executed by the computer one by one. So that computers were called as batch systems. The work done by batch systems are in parts i.e. one job is processed then another job in [...] What is batch system? In early days computer work was given on punch cards and then these punch cards behave as input to the computer. These jobs or batch jobs were then executed by the computer one by one. So that computers were called as batch computers or batch systems. The work done by batch systems are in parts i.e. one job is processed then another job in the queue is processed and so on. Batch processing system Why batch systems are used? As batch systems load less stress on processor and involve less user interaction so that is why we can use batch system in current days also. Another advantage of batch systems is that the large repeated jobs are given to the system and we don't have to interact with computer to tell the system that you have to do that job after finishing that job. Old batch systems were not interactive i.e. the user interaction was not involved when the job is running. Now in modern batch systems we have interactions also. For example we can set the timer on the job and when the specific time comes then computer send message to the processor that time is over. This helps us to avoid too many errors and makes us easy to debug. Best practice in using batch systems The idle time batch process is very less.You can assign specific time for the batch jobs so when the computer is idle it starts processing the batch jobs i.e. at night or any free time.The batch systems can manage large repeated work easily. Disadvantages of batch processing systems Computer operators must be trained for using batch systems.It is difficult to debug batch systems. If some job takes too much time i.e. if error occurs in job then other jobs will wait for unknown time. Examples of batch systems 1.Payroll system Batch systems are ideal for making payrolls. The salaries of employees can be printed at the end of month by the batch systems. So the statements can be made easy by using batch systems. 2.Bank statements At the end of month the bank makes statements for each account holder. So these bank statements can be made easily by batch systems at the end of month. I am a blogger and freelance web developer by profession. I love to blog and learn new things about programming and IT World. Processing systems are essential tools used to convert raw data into meaningful information. They play an important role in various industries, enabling businesses, organizations, and governments to process, analyze, and act on data efficiently and effectively. In this article, we will see details about Batch Processing Systems and Online Processing Systems.Batch Processing System A Batch processing system handles large amounts of data without interaction on a routine schedule. Processing occurs after the economic event occurs and is recorded. It requires fewer programming, hardware, and training resources. In this system, programs are scheduled through jobs. A batch processing system executes a series of transactions collected over a period of time. In this process, at first, data is collected, entered and processed, and then batch processing requires separate programs.Examples includes inventory query, transaction, e-Banking account withdrawal etc. Batch Processing flow diagramAdvantages of Batch Processing SystemEfficient for large volumes of data in batches.Ideal for processing large amounts of data at scheduled times.Enhances system efficiency by avoiding the overhead of handling each task individually.Time flexibility: Can be scheduled during off-peak hours or designated times to optimize resource usage.Disadvantages of Batch Processing SystemTime delay: There's often a significant lag between data collection and receiving the processed results.Outdated master file: Since updates are processed in batches, the master file is not always current or in real time.Slow for one time tasks: Processing a single or small set of tasks using batch processing can be inefficient and time consuming.Online Processing SystemAn online processing system handles transactions in real time and provides the output instantly. When any economic event takes place then the processing occurs. It requires more number of dedicated hardware resources. In this system programs are initiated through transactions. It does not allow sharing of programs and files. We can feed data into analytics tools by building data streams, as soon as it is generated. Examples includes are month end tax calculation, data transformation, data analysis, data transformation etc.Advantages of Online Processing SystemReal time processing: Online systems enable fast and seamless communication across the globe.They support real-time messaging, video conferencing, and data sharing, breaking geographical barriers. Cost-Effective : Accessible to a wide range of users through the Internet, requiring only basic devices.Good Response Time : Many online systems such as booking portals and e-commerce platforms offer quick response times, enhancing user satisfaction.Disadvantages of Online Processing SystemNot Suitable for High-Priority or Critical Tasks :Due to the above limitations, online systems are not ideal for time-sensitive applications.They may experience latency or delays, making them unsuitable for tasks where instantaneous response is critical.Data Overload Handling Issues : When a large volume of data is sent or received simultaneously, online systems may struggle or fail to process it efficiently.Procedure of Batch Processing Vs Online Processing SystemFeatureBatch Processing SystemOnline Processing SystemProcessingProcesses large amounts of data processed on a scheduled basis.Handles transactions in real-time and provides immediate output.Data HandlingProcessing occurs after the economic event is recorded.Processing occurs at the the economic event takes place.Resource RequirementRequires fewer programming, hardware, and training resources.Requires more dedicated hardware resources and management.Some records are processed in batches,Processing SequenceProcessing is predictable.Processing sequence is unpredictable.Program/File SharingPrograms and files cannot be shared.Programs and files can be shared.Program TriggeringPrograms are scheduled through jobs.Programs are initiated through transactions.Error RecoveryRecovery and restart requires additional effort and mechanisms.Storage MediumTypically uses tape storage.Typically uses disk storage.ExamplesTax calculation, data transformation, month-end payroll.Online banking, inventory queries, e-commerce transactions. Record your entire lecture to get back your AI-generated QuickTake! Feel confident while you concentrate on listening to your lecture that you'll have the back up you need with AI-developed supercharged study notes.Upload pre-recorded audio and video files, Youtube URLs and PDFs and let your personalized AI companion organize all your materials so you have an effective way to study for exams and finals.Record your entire lecture to get back your AI-generated QuickTake! Feel confident while you concentrate on listening to your lecture that you'll have the back up you need with AI-developed supercharged study notes.Upload pre-recorded audio and video files, Youtube URLs and PDFs and let your personalized AI companion organize all your materials so you have an effective way to study for exams and finals.Need a question answered but can't get time with your professor? Query your AI companion chatbot to discuss topics, get more detailed explanations and develop in-depth understanding of all your class materials.Need a question answered but can't get time with your professor? Query your AI companion chatbot to discuss topics, get more detailed explanations and develop in-depth understanding of all your class materials.