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Its multi-threading and parallel process architecture processes data 10X faster. With seamless upgrade across releases, robust orchestration supported by an ISO 27001 compliant security cloud ...

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May 25, 2021 (GLOBE NEWSWIRE) -- CacheQ Systems, Inc., a leader in compiler tools for heterogeneous compute systems, today announced support for multi-threading acceleration ... of threading libraries ...

CacheQ's New Compiler Supports Multi-Threading CPU Acceleration, Enables Software Developers to "Write Once, Accelerate Anywhere"

The Role of GPUs in Smart Everything GPUs are the foundation of gaming ... While adding cores and multithreading has made CPUs better at parallel data processing, the scalability of the GPU ...

How to Scale a Multimedia Design from Voice, Audio, and Video to AI

parallel and pipelined execution of loop iterations, single program multiple data (SPMD) execution, and independent multi-threading. Abstract: Instruction-level parallelism (ILP) in computing allows ...

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Department of Computer Science and Engineering

Pointers — you either love them, or you haven't fully understood them yet. But before you storm off to the comment section now, pointers are indeed a polarizing subject and are both C's ...

The Basics And Pitfalls Of Pointers In C

Sir Winston Churchill often spoke of World War 2 as the "Wizard War". Both the Allies and Axis powers were in a race to gain the electronic advantage over each other on the battlefield.

A Short History Of AI, And Why It's Heading In The Wrong Direction

Susie Xia discusses the video encoding system used by Netflix, and the tools and techniques used to analyze performance and to improve the system efficiency. In this article, authors discuss how ...

Lessons Learned in Performance Testing

funded by the National Science Foundation (NSF) under Grant No. CNS-1338099. This work used the Extreme Science and Engineering Discovery Environment, which is supported by NSF Grant No. ACI-1548562; ...

HLA Arena: A Customizable Environment for the Structural Modeling and Analysis of Peptide-HLA Complexes for Cancer Immunotherapy

This course, together with CSCI 2244, form a two-semester introduction to the mathematical foundations of computer science ... and the issues associated with the execution of multi-threaded code.

Computer Science Courses

This ground-up design, complementing the OpenGL® and OpenGL ES™ 3D APIs, provides applications direct control over GPU acceleration for maximized performance and predictability with minimized CPU ...

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The SambaNova team brings decades of experience pioneering new approaches in machine learning, artificial intelligence, multi-core processor technology, parallel software ... to multiprocessors on a ...

SambaNova Systems Emerges From Stealth and Secures \$56 Million in Series A Funding Led by Walden International and GV

In nearly every major city in the U.S., people of color are exposed to more extreme urban heat than white people, a new study found. Using government temperature and census data, researchers ...

People of color more exposed to heat islands, study finds

Austin, TX, May 25, 2021 (GLOBE NEWSWIRE) -- Liquibase, the company behind the most powerful community-led database change management solution, today announced that it has expanded the number of ...

Liquibase Expands Access to Database DevOps

She received Research Initiation Award in 1991 and Career Award in 1995 form National Science Foundation. She was a Clare Boothe Luce Professor between 1994 and 2000. Her research interests include ...

Shang, Weijia

CesiumAstro, Inc. announces the upcoming launch of Cesium Mission 1, an on-orbit testbed allowing customers to run experiments on electronically steerable, multibeam active phased array (APA) ...

Airborne and In-Orbit Communications Leader CesiumAstro, Inc. Readies for First Mission to Launch; Company Wins Swath of Commercial Milestones

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U.S. downgrade of Mexico air safety 'not about Aeromexico,' Delta says

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