

Dear Graduate Students and Faculty,

There will be a U-REASON seminar on October 9th (Tuesday) from 3:35PM to 4:35 PM in room 211 of the Civil Engineering Building. Dr. Yong Chen will be giving the presentation. Please see below for more details.

Speaker: Dr. Yong Chen

Title: Decoupled Execution Paradigm for Data-Intensive High-End Computing

Abstract: High-end computing (HEC) applications in critical areas of science and technology tend to be more and more data intensive. The input/output (I/O) has become a vital performance bottleneck of modern HEC practice. Conventional HEC execution paradigms, however, are computing-centric for computation intensive applications. They are designed to utilize memory and CPU performance and can have inherent limitations in addressing the critical I/O bottleneck issues of HEC. In this talk, I will introduce our proposed decoupled execution paradigm (DEP) to address the challenging I/O bottleneck issues. DEP is the first paradigm enabling users to identify and handle data-intensive operations separately. It can reduce costly data movement and is better than the existing execution paradigms for data-intensive applications. Its data-centric architecture could have an impact in future HEC systems, programming models, and algorithms design and development. I will present our initial findings in this talk and discuss challenges of the DEP and possible solutions.

URL: <http://www.myweb.ttu.edu/yonchen>

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