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A Comprehensive Comparative Study of Big Data Transfer Methods

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Computer and Information Science Undergraduate Project Topics and Ideas

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Title:

A Comprehensive Comparative Study of Big Data Transfer Methods (Tentative)

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Difficulty:

Moderate

Specialization:

Computer and Network Security

If other, please specify:

Most Appropriate Course:

Project II

Brief Description:

HPN technologies, including the recent proposals on big data transfer in HPNs to improve data transfer throughput performance

Number of students needed:

1

Outcomes and Deliverable:

Source code + project report

Skills Required:

Programming skills in C/C++, Shell, Perl, Python, etc.

Available Resources:

Testbed, software tools, and source codes

Program Goal: CISC 1.2: Sound Reasoning, CISC 1.4: Deploy Solution CISC 2.1: Hardware Platform, CISC 2.2: Software Platform, CISC 2.3: Networking, CISC 2.4 Data Structure CISC 3.2: Explore New Design CISC 4.1: Written Communication, CISC 4.2: Oral Communications

Student Learning Outcomes:

1b: The student should be able to apply relevant principles of computing during their analysis of a problem., 2c: Student is able to evaluate a software solution to determine its compliance with the specification., 3a: Student will be able write in a standardized format in order to organize

their thoughts and deconstruct their ideas at a level appropriate for the desired audience., 3b: Student will be able to verbally communicate effectively with an advisor, group of colleagues or an audience to express a thought or idea at a level appropriate for the desired audience., 6a: Student will be able to produce computer-based solutions by applying applicable computer science theory and software development fundamentals