Summer 2019

A Study of Tsunami UDP Protocol

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Title:
A Study of Tsunami UDP Protocol (Tentative)

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Difficulty:
Moderate

Specialization:
Computer and Network Security

If other, please specify:

Most Appropriate Course:
Project II

Brief Description:
Modeling and Optimizing Tsunami UDP Protocol

Number of students needed:
1

Outcomes and Deliverable:
Experimental results and reports; scripts code; mathematical proof; etc.

Skills Required:
Programming skill in C/C++ in Linux; understanding of TCP/IP stack; mathematical proof skills

Available Resources:
Preliminary results; code base; testbeds

Program Goal:

Student Learning Outcomes:
1a: The student should be able to analyze a problem in a manner that facilitates the design of
its solution., 1b: The student should be able to apply relevant principles of computing during their analysis of a problem.. 2b.: Student is able to develop a software solution from a formal design 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.