Programming Contest Hosting

presented at the

CCSC Mid-South 2011 Conference

April 1-2, 2011

Presented by:

Steve Baber, Harding University
Becky Cunningham, Arkansas Tech University
David Hoelzeman, Arkansas Tech University
Rick Massengale, University of Arkansas – Fort Smith

Organized by:

David Hoelzeman, Arkansas Tech University
Abstract

The Programming Contest Hosting Tutorial to be presented at the 2011 CCSC:Midsouth Conference is based on the experiences of the presenters’ years of experience in hosting and/or participating in the ACM ICPC and CCSC-MS programming contests. The presentation covers all aspects of contest hosting including hospitality, problem development, hardware and network, software, and a networked problem submission software. The presenters will be David Hoelzeman and Becky Cunningham from Arkansas Tech University; Steve Baber from Harding University; and Rick Massengale from University of Arkansas, Fort Smith. In addition to the above tutorial presentation, Dr. Hoelzeman will be assisting in the programming contest held during the CCSC:Midsouth Conference.

Purpose/Objectives

The primary objective of the tutorial is to provide details of what is involved in hosting a programming contest in the style of the ACM International Collegiate Programming Contest that is held annually. The desired result is to provide information on what has worked and what hasn’t worked, hopefully reducing the amount of mistakes a hosting site would make.

Significance/Need

With a minimum of two programming contests per year, each being possibly hosted by a different institution, the likelihood of a hosting institution not being familiar with the needed contest configuration is high, at least in the immediate future. To my knowledge, only three schools in the state have made use of the network submission software (PC²): Arkansas Tech University (first in the state to use it); Harding University; and University of Arkansas.

Summary and Conclusions

The presentation went well although it wasn't very well attended - probably just didn't interest anyone that wasn't anticipating hosting a contest in the immediate future. Surprisingly, the component that generated the most questions was the 'hospitality' related issues presented by Becky Cunningham. In retrospect, it would've been better had we stuck with setting up the presentation as a 'Workshop' (three hours) instead of a 'Tutorial' (1.5 hours) as we ran out of time for some of the technical discussions.
Professional Development Grant  
Budget Form  
Due at the completion of the project or no later than May 15.

Principal Investigator - **Dr. David Hoelzeman**

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Unused Funds to be Returned to Academic Budget: $88.03

**Departmental Secretary**  
**Principal Investigator**  
**Department Head**  

Date  
5th April 2011
CCSC-MS: 2011 Conference Agenda

Friday, April 1, 2011
Morning Workshop

Brewer-Hegemen Conference Center Info and Layout (479KB image inside)

Brewer-Hegemen Conference Center: Front Desk (North Lobby)
Registration
8:00am - 4:00pm

Brewer-Hegemen Conference Center: Room #1
Workshop I
8:30am - 11:00am
An Introduction to OpenMP
David Naugler
Southeast Missouri State University

Friday, April 1, 2011
Afternoon Sessions

Brewer-Hegemen Conference Center: Room #4
Welcome
11:15am - 11:30am
Larry Morell
Arkansas Tech University
Vamsi Paruchuri
University of Central Arkansas

Mathematics and Computer Science Building: #115
Programming Contest Lunch and Meeting
12:00pm - 1:00pm
systems, and in interdisciplinary research that applies computing to the geosciences. She has been a faculty member at the University of Arkansas since 1998.

Saturday, April 2, 2011
Morning Sessions

Mathematics and Computer Science Building
Concurrent Session IV
8:30am - 10:00am

A. Papers: Data Analysis
Moderator: Matt Brown
Arkansas Tech University

Staging a Realistic Entity Resolution Challenge for Students
Yinle Zhou
University of Arkansas at Little Rock
John Talburt

Sensitivity of Different Machine Learning Algorithms to Noise
Abhina Atla
University of Central Arkansas
Victor Sheng
University of Central Arkansas
Naveen Singireddy
University of Central Arkansas
Rahul Tada
University of Central Arkansas

Improving Non-Small Cell Lung Cancer Classification Using Data Mining Techniques
Quoc-Nam Tran
Lamar University

B. Tutorial IV

Programming Contest Hosting
Steve Baber
Harding University
Becky Cunningham
Arkansas Tech University
David Hoelzeman
Arkansas Tech University
Rick Massengale
University of Arkansas at Fort Smith

Show/Hide Abstract
This tutorial is based on the experiences of the presenters’ years of experience in hosting and/or participating in the ACM ICPC and CCSC-Midsouth programming contests. The presentation covers all aspects of contest hosting including hospitality, problem development, hardware and network, programming related software, and the Programming Contest Control system (PC^2) developed by California State University, Sacramento (http://pc2.ecs.csus.edu/). At the end of the tutorial the attendee should have implemented a simulated contest site on a single computer. Time permitting, a discussion or implementation of a multi-site setup will be made (depending on available resources).

C. Undergraduate Student Presentations

Moderator: Mark Goadrich  Centenary College

Optimizing Parallax Barrier Tilt Viewing Angles Through Alternative Interface Patterns
Marcus Truscello, University of Central Arkansas
Yu Sun (advisor)

A Parser-Generator For Building Extensible Grammars
Stephen Pryor  Arkansas Tech University
Joshua Milligan  Arkansas Tech University
David Middleton (advisor)  Arkansas Tech University

Quick Full-text Search
Timothy Newman  University of Arkansas at Fort Smith

An Elementary Virtual Environment For Building Interpreters
Stephan Atkinson,  Arkansas Tech University
David Middleton (advisor)

Break  MCST #330
10:00am - 10:15am

Mathematics and Computer Science Building Concurrent Session V
10:15am - 11:45am

A. Papers: Tools & Applications  MCST #338
Moderator: Southeast Missouri State University
David Naugler
### About CCSC-MS: Regional Board

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<tr>
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