Supercomputing Challenge Judging Criteria (Finalists)

Eva	aluation Criterion	How to Score (0 to 10 points)			
Pro	blem Statement (Weight 15%)	0 - problem not defined			
	Was a scientific or mathematical problem clearly defined?	5 - problem clearly defined, but lacks			
	Was the problem clearly thought out and well researched?	background or simplification or is not			
	Was appropriate background information presented to understand the context of the	complex			
-	nrohlem?	10 - complex problem clearly defined			
	Is the proposed solution clever and well thought out?	with appropriate background and			
	Is it a complex problem or could it be solved on a calculator or with off the shalf	simplification			
	applications?	simplification			
	Was the problem appropriately simplified?				
	was the problem appropriately simplified:	0 no model			
	In the computational model appropriate for the project? Are the	0 - 10 model 5 basic understanding of model(a)			
	is the computational model appropriate for the project? Are the	5 – basic understanding of model(s),			
	assumptions/inmitations of the model documented? Does the model require multiple	but unable to answer questions; only			
_	therations of samples to identify an optimum solution of range of solutions?				
	Is the mathematical model accurate (or a reasonable approximation)? Is the model	10 – thorough understanding of both			
	correctly applied to the problem and its solution? Does the team understand the	models (computational and			
	model, its equations, and variables?	mathematical or computational and			
	Is the agent-based model a reasonable representation of the problem? Does the	agent-based)			
	model correspond to a well-known mathematical model? If so, was the				
	mathematical model used to validate the agent-based model? Does the model				
	provide insight into the problem? Can anything be learned from the model? Does				
	the team understand the agent's states and behaviors, and the role of the				
	environment? In particular, does the team understand how the agents affect each				
	other and/or modify their environment?				
Co	de (Weight 10%)	0 – none			
	Is the code original or borrowed? (Note: no penalty for using borrowed code.)	5 – clean, documented code			
	If the code was borrowed: Is the originator acknowledged? Does the team	10 - clean, documented code with			
	understand the borrowed code? Were any modifications made? Why?	extras			
	Extra points for: original code or combination of original code with borrowed code;				
	real-time demo; graphical display of results; parallel computing; multiple languages;				
	elegance.				
Re	sults & Conclusions (Weight 15%)	0 - no results or conclusions			
	Are the results reasonable and verifiable?	5 – results, but conclusions are			
	Were logical conclusions drawn from the results?	incomplete or illogical			
	Do the conclusions relate to the stated problem?	10 – reasonable results with logical			
		conclusions that relate to the stated			
		problem			
Pre	esentation (Weight 10%)	0 - presentation does not support the			
	Are the project's goals, objectives, and expected and actual results clearly	project, is incomplete, or is not visually			
	articulated?	pleasing			
	Is the presentation professional? Is the layout logical and well organized? Was there	5 - a good presentation with some			
	good contrast between text and background? Were the slides too busy? Is the	minor problems			
	presentation free of spelling and grammatical errors? Were questions handled	10 - a professional presentation			
	gracefully?	· · · · · · · · · · · · · · · · · · ·			
Tea	Teamwork (Weight 10%) 0 – a dysfunctional team				
	Do all members of the team understand the problem and conclusions?	5 - at least 50% of team participated or			
	Was the work divided among the team members to take advantage of each	only one participant			
_	member's skills? (Note: not all members need to contribute equally in all phases of	10 - 100% of team participated, team			
	the project.)	dynamics were excellent			
	Did the team consider differences of opinion and come to an amiable solution?	aynamies were excertent			
Int	Integrity (Weight 10%) 0 – evidence of nlagiarism				
	Was the work original (i.e. not plagiarized)?	5 - no plagiarism but attribution not			
	The second construction of programmed of the second s	complete			
	Were references cited and proper affribilition given?	COMDICIC			
	Were graphics figures and equations cited and proper attribution given?	10 - no plagiarism complete and			
	Were graphics, figures, and equations cited and proper attribution given?	10 – no plagiarism, complete and			
	Were graphics, figures, and equations cited and proper attribution given?	10 – no plagiarism, complete and accurate attribution, complete and proper citing of references			
La	Were references cited and proper attribution given? Were graphics, figures, and equations cited and proper attribution given?	10 - no plagiarism, complete andaccurate attribution, complete andproper citing of references			
Le	Were references cited and proper attribution given? Were graphics, figures, and equations cited and proper attribution given?	10 – no plagiarism, complete and accurate attribution, complete and proper citing of references 0 – less than a full year's effort			
	Were references cited and proper attribution given? Were graphics, figures, and equations cited and proper attribution given? vel of Effort (Weight 10%) Was significant research performed? Was at least one print source used? Is this a first year project? Was a full year of work does?	10 – no plagiarism, complete and accurate attribution, complete and proper citing of references 0 – less than a full year's effort 5 – a full year's effort, but research was lacking			
	Were references cited and proper attribution given? Were graphics, figures, and equations cited and proper attribution given? vel of Effort (Weight 10%) Was significant research performed? Was at least one print source used? Is this a first year project? Was a full year of work done? Is this a continuation of a previous year's work? Was the provious work	 10 - no plagiarism, complete and accurate attribution, complete and proper citing of references 0 - less than a full year's effort 5 - a full year's effort, but research was lacking 10 - a full year's effort with significant 			
Lev D	Were references cited and proper attribution given? Were graphics, figures, and equations cited and proper attribution given? vel of Effort (Weight 10%) Was significant research performed? Was at least one print source used? Is this a first year project? Was a full year of work done? Is this a continuation of a previous year's work? Was the previous work acknowledged and compared to the new work? Was the new work a significant	 10 - no plagiarism, complete and accurate attribution, complete and proper citing of references 0 - less than a full year's effort 5 - a full year's effort, but research was lacking 10 - a full year's effort with significant research and at least one print source 			

Supercomputing Challenge Project Evaluation (Finalists)

Team #:	Judge:	
Comments		Score (0 to 10)
Problem Statement (Weight 15%)		
Computational, Mathematical and/o	or Agent-Based Model (Weight 20%)	
Code (Weight 10%)		
Results & Conclusions (Weight 15%		
Presentation (Weight 10%)		
Teamwork (Weight 10%)		
Integrity (Weight 10%)		
Level of Effort (Weight 10%)		