## Supercomputing Challenge Judging Criteria (Finalists)

Evaluation Criterion		How to Score (0 to 10 points)			
	bblem Statement (Weight 15%)	0 - problem not defined			
	Was a scientific or mathematical problem clearly defined?	5 – problem flot 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			
	problem?	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-shelf	simplification			
	applications?				
	Was the problem appropriately simplified?				
Computational and Mathematical/Agent-Based Model (Weight 20%) 0 – no model					
	Is the computational model appropriate for the project? Are the	5 – basic understanding of model(s),			
	assumptions/limitations of the model documented? Does the model require multiple	but unable to answer questions; only			
	iterations or samples to identify an optimum solution or range of solutions?	one model			
	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)			
1	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	Results & Conclusions (Weight 15%)       0 – no results or conclusions				
	Are the results reasonable and verifiable?				
_		2 - results but conclusions are			
		5 – results, but conclusions are			
	Were logical conclusions drawn from the results?	incomplete or illogical			
		incomplete or illogical 10 – reasonable results with logical			
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## **Supercomputing Challenge Project Evaluation (Finalists)**

Team #:	Judge:	
Comments		Score (0 to 10)
Problem Statement (Weight 15%	<u>ó)</u>	
Computational and Mathematica	al/Agent-Based Model (Weight 20%)	
Code (Weight 10%)		
Results & Conclusions (Weight 1	(5%)	
Presentation (Weight 10%)		
Teamwork (Weight 10%)		
Integrity (Weight 10%)		
Level of Effort (Weight 10%)		