## Supercomputing Challenge Judging Criteria (Finalists)

Eva	aluation 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 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
	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?	
	mputational, Mathematical and/or 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)
	model correspond to a well-known mathematical model? If so, was the	
1	mathematical model used to validate the agent-based model? Does the model	
1	provide insight into the problem? Can anything be learned from the model? Does	
1	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.	
	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
	Were logical conclusions drawn from the results? Do the conclusions relate to the stated problem?	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%)		
Computational, Mathematical and/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%)		