Supercomputing Challenge 2005-2006 Judging Criteria (Finalists)

E	valuation Criterion	How to Score (0 to 10 points)	
	roblem 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?		
	omputational 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)	
	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?		
С	ode (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.		
1 Re	esults & Conclusions (Weight 15%)	0 - no results or conclusions	
	esults & Conclusions (Weight 15%) Are the results reasonable and verifiable?	0 – no results or conclusions 5 – results, but conclusions are	
	Are the results reasonable and verifiable?	5 – results, but conclusions are	
	Are the results reasonable and verifiable? Were logical conclusions drawn from the results?	5 – results, but conclusions are incomplete or illogical	
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Supercomputing Challenge 2005-2006 Project Evaluation (Finalists)

Team #:	Judge:	
Comments		Score (0 to 10)
Problem Statement (Weight 15%)		(********
Computational and Mathematical/Ag	gent-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%)		