Supercomputing Challenge Judging Criteria (Expo-Poster Session)

Evaluation Criterion How to Score (0 to 10 points Problem Statement (Weight 15%) 0 – problem not defined Was a scientific or mathematical problem clearly defined? 0 – problem not defined Was the problem clearly thought out and well researched? 3 – problem not clearly defined problem Was appropriate background information presented to understand the context of the problem? 5 problem not clearly defined Is the proposed solution clever and well thought out? background information law Is it a complex problem or could it be solved on a calculator or with off-the-shelf applications? 8 – problem clearly defined Was the problem appropriately simplified? and complete	/
 Was a scientific or mathematical problem clearly defined? Was the problem clearly thought out and well researched? Was appropriate background information presented to understand the context of the problem? Is the proposed solution clever and well thought out? Is it a complex problem or could it be solved on a calculator or with off-the-shelf applications? Was the problem appropriately simplified? 1 - vaguely defined proble 3 - problem not clearly defined packground information law background information law background	
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applications? background information is and complete 10 – complex problem clear	
 Was the problem appropriately simplified? and complete 10 - complex problem clear 	1 AND
10 – complex problem clea	appropriate
with appropriate and comp	
	lete
background information	
Computational, Mathematical and/or Agent-Based Model (Weight 40%) 0 – no model	
$\square Is the mathematical model accurate (or a reasonable approximation)? 1 - basic model, but team of the second se$	loesn't
□ Is an algorithmic model reasonable (agent-based problem and/or mathematically understand it	
intractable problem)? 3 – basic model, team under	
□ Is the model correctly applied to the problem and its solution? but cannot answer question	
$\square Does the team understand the model, its equations, and variables? 5 - basic understanding of basic understandi$	
□ Is the computational model appropriate for the project? Are the able to answer questions able	
assumptions/limitations of the model documented? Does the model require multiple 8 – basic understanding of	
iterations or samples to identify an optimum solution or range of solutions? understanding of equations	, variables,
□ Is the agent-based model a reasonable representation of the problem? Does the etc.	h 1
model correspond to a well-known mathematical model? If so, was the 10 – complex model thorou	ighly
mathematical model used to validate the agent-based model? Does the model understood understood	
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?	
Code (Weight 10%) 0 - none	
$\Box \text{Was code shown?} \qquad \qquad$	
$\square \text{ Was code shown?} \qquad \qquad$	is a simple
calculation that does not re	
computer	quite u
5 – code is not original OR	is
undocumented	10
8 – code is original AND w	vell
documented	
10 – original, documented	code with
8	
real-time demo	ıs
real-time demo Results & Conclusions (Weight 15%) 0 - no results or conclusion	
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Results & Conclusions (Weight 15%) 0 – no results or conclusion Are the results reasonable and verifiable? 5 – results, but conclusions Were logical conclusions drawn from the results? incomplete or illogical Do the conclusions relate to the stated problem? 10 – reasonable results with conclusions that relate to the problem	ne stated
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Results & Conclusions (Weight 15%) 0 – no results or conclusions Are the results reasonable and verifiable? 5 – results, but conclusions Were logical conclusions drawn from the results? incomplete or illogical Do the conclusions relate to the stated problem? 10 – reasonable results with conclusions that relate to the problem Display and Presentation (Weight 10%) 0 – none Were the presenters knowledgeable? 3 – display does not suppor project, is incomplete, or is pleasing	ne stated rt the s not visually
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Supercomputing Challenge Project Evaluation (Expo-Poster Session)

Team #:	Judge:	
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Comments		Score (0 to 10)
Problem Statement (Weight 15%)		
Computational, Mathematical and/or Agen	nt-Based Model (Weight 40%)	
Code (Weight 10%)		
Results & Conclusions (Weight 15%)		
Display & Presentation (Weight 10%)		
Integrity (Weight 10%)		

Note: A copy of the completed form will be provided to each team.