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		Response Time (seconds)							
R-D-C-Z-V	Average	400x	200x	100x	50x				
h <u>-h-h-h</u>	2.10	0.38	0.73	1.73	6.95				
h-g-g-g-g	1.49	0.37	0.62	1.27	4.60				
h-g(2)-g-g-g	1.15	0.39	0.50	0.95	3.41				
h-q(2)-q(2)-q-q	1.15	0.37	0.49	0.95	3.43				
h-q(4)-q(2)-q-q	1.17	0.39	0.50	0.96	3.50				
h-g(2)-g(2)-b-b	1.68	0.45	0.68	1.27	5.34				
g-g-g-g-g	1.44	0.33	0.58	1.26	4.46				
d-a(2)-a-a-a	1.08	0.33	0.45	0.92	3.24				











		Active	ctive Pixel Rendering			-buffer Rendering			
Configuration	#Ra	1 rode	2 nodes i	odes i	odes i	2 ode r	odes	٤ nodes r	odes
RE-Ra-M	(0)	n/a	12.7	4.8	2.9	n/a	11.3	7.7	10.7
	(1)	12.2	7.3	4.2	3.0	0.7	7.9	7.9	11.5
RE-Ra-M	2(0)	n/a	7.7	3.2	2.6	n/a	9.3	10.5	19.0
	2(2)	8.2	5.7	3.9	3.2	8.6	8.9	11.7	20.8









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Ongoing and Future Work	
Ongoing and Future work	
- Automated placement, instances, transparent copies	
<ul> <li>predictive (cost models)</li> </ul>	
<ul> <li>adaptive (work feedback)</li> </ul>	
- Filter accumulator support (partitioning, replication)	
- Java filters	
<ul> <li>CCA-compliant filters</li> </ul>	
<ul> <li>Very large datasets – including HDF5 format</li> </ul>	
- Using storage clusters at UMD and OSU, then	
testbed at LLNL	
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