

Frontiers of Multicore Computing Workshop

Program Agenda

August 26-28, 2008

University of Maryland, Baltimore County (UMBC)

August 26:

1:30- 6:30 PM	Registration	University Center B-43
2:00- 5:00	Tutorials (IBM, Gedae, etc.)	“
5:00- 6:30	Icebreaker	ITE 436

August 27:

7:30 – 9:00 AM	Registration & Lite Breakfast	University Center B-43
9:00 - 9:15 AM	Welcome	President F. Hrabowski, UMBC Dean W. DeVries, COEIT E. Corbin, IBM Syst & Tech Dev.

9:15 – 10:00	Keynote Speaker:	Andrew White, LANL
	“ <i>Breaking the Petaflop Barrier</i> ”	Proj. Mgr. Roadrunner

10:00- 10:20 Break

10:20- 12:00 **Multicore Optimizations for Geoscience**

<i>Geophysical Data Processing: Computing with Intensity</i>	P. Bording, Mem. U/CA
<i>Climate Model Radiation on the Cell</i>	S. Zhou, T. Clune NG/GSFC
<i>WRF with Chemistry for Hurricanes on the Cell</i>	A.Arking, P.Ma JHU
<i>Fast Transforms using the Cell B.E. Processor</i>	D. Bader Ga.Tech
<i>360 TFlops Molecular Dynamics on the Roadrunner</i>	T. German LANL

12:00 -1:30 Lunch/Exhibit

1:30 -2:10	Keynote Speaker: Ram Rajamony, IBM Research, Austin
	" <i>IBM's Next Challenge: Highly Productive Exaflop Solutions .</i> "

2:10 –2:30 Break

2:30 – 3:30 **Multicore Applications for Aerospace**

<i>Towards a Service Oriented 50 year Global Satellite Radiancance</i>	
<i>Climate Data Record</i>	M. Halem UMBC
<i>Large- scale Scientific Visualization on Multicore Processors</i>	J. JaJa UMCP
<i>MapReduce for the Cell B.E.</i>	K. Sankaralingam U/WISC

3:30 –4:40	Panel Discussion: R. Golliver, Intel,	M. Aguilar, IBM
	R. Schooler, Tiler,	M. Raymond, SGI

4:40 – 5:20 **Student Presentations**

<i>Extreme Computing</i>	D. Chapman, M. Ritzie
<i>2-D Var Data Assimilation</i>	L.Georgias UMBC

5:20 –6:30 **Reception** Exhibit Room

6:30- 8:00	Banquet and Speaker: T. Sterling LSU
	“ <i>Entering the Petaflop Era</i> ”

