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A U.S. Department of Energy laboratory  
managed by The University of Chicago

## Blue Gene Consortium

May 20, 2008

Ed Jedlicka

## Blue Gene Consortium - May 2008

- Kick off April 2004 - A year and a half before the 1st BG delivery
  - Hosted at Argonne
  - Discussed direction and potential programs
  
- Objective:
  - Create a community to explore the Blue Gene Architecture
    - *Hardware*
    - *Software (System)*
    - *Applications*
    - *Performance and scaling*

## Blue Gene Consortium - May 2008

### ■ Membership

	April 2004	Today	Comments
Members	50	350+	
National Laboratories	8	10	
Universities	20	40	
Industrial	1	7	
International	0	17	All geographies: AP, Europe, NA

## Blue Gene Consortium - May 2008

- Members with Installed Blue Gene's

BG/L	BG/P
29	8 *
All in Top 500 LLNL # 1	Juelich # 2 (11/07) ANL # 2/3 (projected 6/08)

\* Argonne (41), Brookhaven, Oakridge  
Juelich (16), Max Plank, DIAS (Ireland), Darsbury, **LaBRI (France)**, EDF

# Blue Gene Consortium - May 2008

## ■ Programs

<b>Web Site</b> <a href="http://www.bgconsortium.org/">http://www.bgconsortium.org/</a>	<ul style="list-style-type: none"><li>- Members</li><li>- Events</li><li>- Web Links</li><li>- Technical information</li></ul>
<b>Workshops</b>	<ul style="list-style-type: none"><li>- Porting</li><li>- Scaling</li><li>- System Software</li></ul>
<b>Newsletters</b>	<ul style="list-style-type: none"><li>- File systems</li><li>- BGW Days</li></ul>
<b>BGW Days</b>	<ul style="list-style-type: none"><li>- 8</li></ul>

## Blue Gene Consortium - May 2008

### ■ Workshops

	2005	2006	2007	2008	
Porting/Tuning *	2	1	1	3	7
Scaling *			1		1
System Software **	1	1			2

\*Juelich supported both porting/tuning and scaling workshops  
- 2008: 2 at Argonne, 1 at Juelich

\* Salt Lake City and Japan (AIST)

## Blue Gene Consortium - May 2008

### ■ BGW Days

- IBM Watson - 20 rack BG/L - 114 Tflops
- Opportunity to scale across 20 rack system
- Applications and Computer Science
- Nominations - peer reviewed

	2005	2006	2007	2008
# of events	2	2	3	1
Members Participating	5	21	9	2

# Blue Gene Consortium - May 2008

## ■ 2008 Events

Event	Date	Location
Porting/Tuning workshop	February/March	Argonne
	April	Juelich
Tutorial	May	SCICOMP
Scaling workshop	July	Argonne
BGW Days	TBD	Watson
SC 2008	November	Austin, Tx
HPC newsletter	TBD	High Throughput Computing on Blue Gene/P (HTC)
Open Source Workshop	June 16,17	Argonne

# Blue Gene Consortium - May 2008

## ■ Open Source Workshop

- IBM has released the BG/P software stack in open source
- Argonne (Consortium, ALCF, MCS) will host a community w/IBM
- Explore the ability of the community to harness large scale BG architecture
  - *Scaling*
  - *System software*
  - *Performance*
- June 16 and 17 at Argonne
- [https://www.alcf.anl.gov/events/workshops/bgconsort\\_os/index.php](https://www.alcf.anl.gov/events/workshops/bgconsort_os/index.php)

# Blue Gene Consortium - May 2008

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- Consortium Web Site ( <http://www.bgconsortium.org/> )
  
- IBM BG web site  
( <http://www-03.ibm.com/systems/deepcomputing/bluegene/> )

# THANK YOU

## IBM

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