

HPC Annual Report 2010-2011

November 1, 2011

UF HPC Center becomes part of UF Research Computing

This year marks a big change in the history of the UF HPC Center. After five year of successful operation with minimal support from the University, an agreement was reached under the leadership of Elias Eldayrie, vice president and CIO, to create UF Research Computing as a fully integrated part of UF Information Technology and with strong backing and funding from the Provost, Dr. Glover, and the Vice President for Research, Cr. Philips.

The governance of the HPC Center is now part of the university's governance for IT and is part of the duties of the Research Computing Advisory Committee. The proceedings of this committee and its subcommittees can be followed on the website <http://www.it.ufl.edu/governance/advisorycommittees/researchcomputing.html>.

The operational and technical information about the HPC Center can still be found at the website <http://www.hpc.ufl.edu>, which is undergoing some major changes.

As an integral part of the restructuring, the annual reporting mechanisms and communication with the research community on campus will also change.

Usage Statistics

The HPC Center website provides a wide range of information, including live data about system utilization: <http://www.hpc.ufl.edu/sysinfo>.

The table with the total hours used during fiscal year 2010-2011 organized by college, department, and research group identified by the sponsoring faculty member is shown below. Sums per department, and per college are listed, as well as the percentage of the total used by each college. The UF HPC Center provided over 26 million CPU hours to its users. This represents a **24%** increase over the number of hours provided in the 2009-2010 academic year.

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College	Department	Investigator	Jobs	Hours	Total Hours	Hour %
College of Liberal Arts and Sciences						
	Physics	Andrey Korytov	78,034	5,108		
		Christopher Stanton	72	75		
		David Tanner	42	491		
		Guido Mueller	91	450		
		Ho-Bun Chan	42	693		
		Ivan Furic	5,444	1,631		
		James Fry	8	6		
		Jim Dufty	1	0		
		Kevin Ingersent	1,935	2,224		
			3,404,30			
		Paul Avery	2	8,985,935		
		Peter Hirschfeld	1,997	40,806		
		Pierre Sikivie	722	3,190		
		Robert Buchler	11	160		
			3,492,70			
		Total	1		9,040,769	34.21%
	Statistics	George Casella	2,506	9,120		
		Michael Daniels	819	16,607		
		Total	3,325		25,727	0.10%
	Zoology	Michael Miyamoto	140	386		
		Total	140		386	0.00%
	Chemistry	Adam Veige	1,039	15,891		
		George Christou	20	465		
		John Eyler	221	10,069		
		John Reynolds	791	26,852		
		Leslie Murray	208	15,765		
		Mike Scott	411	31,498		
		Nick Polfer	7,597	54,696		
		Nicole Horenstein	47	588		
		Richard Yost	13	147		
		Ronald Castellano	602	8,979		
		William Dolbier	1,568	33,708		
		Total	12,517		198,659	0.75%
	Astronomy	Eric Ford	822,908	2,114,025		
		Jonathan Tan	264	35,544		
		Total	823,172		2,149,569	8.13%
	Anthropology					

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	Total	0		0	0.00%
Florida Museum of Natural History					
	Matt Gitzendanner	546	16,235		
	Total	546		16,235	0.06%
Botany					
	Total	0		0	0.00%
Wildlife Ecology and Conservation					
	Madan Oli	117	5,511		
	Total	117		5,511	0.02%
Mathematics					
	John Klauder	1,208	52,605		
	Yunmei Chen	43	61		
	Total	1,251		52,666	0.20%
Quantum Theory Project					
	Adrian Roitberg	93,822	757,251		
	David Micha	942	33,542		
	Erik Deumens	20,761	933,579		
	Hai-Ping Cheng	10,056	1,160,073		
	Kenneth Merz	154,945	4,661,878		
	Nigel Richards	1,346	29,490		
	Rodney Bartlett	9,246	135,285		
	Sam Trickey	1,158	33,681		
	Total	292,276		7,744,779	29.30%
Biology					
	Gordon Burleigh	72	38		
	Jose Ponciano	37	150		
	William Barbazuk	41	3,205		
	Total	150		3,393	0.01%
Integrative Graduate Education and Research Traineeship					
	Craig Osenberg	862	5,161		
	Total	862		5,161	0.02%
Political Science					
	Laura Sjoberg	13	273		
	Total	13		273	0.00%
Geology					
	Peter Adams	4	0		
	Total	4		0	0.00%
test					
	Total	0		0	0.00%
Geography					
	Total	0		0	0.00%
Sociology and Criminology & Law					
	Total	0		0	0.00%

College of Engineering

Coastal Engineering

Arnoldo Valle-Levinson	1,217	64,525		
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	Peter Sheng	325	7,275		
	Total	1,542		71,800	0.27%
Industrial Systems Engineering					
	Panos Pardalos	14	1,405		
	Total	14		1,405	0.01%
Computer and Information Science and Engineering					
	Jih-Kwon Peir	1,257	2,547		
	My Thai	4	0		
	Sanjay Ranka	1,047	4,768		
	Total	2,308		7,315	0.03%
Environmental Engineering Sciences					
	Ben Koopman	82	23,128		
	Michael Annable	20,811	80,476		
	Total	20,893		103,604	0.39%
Nuclear and Radiological Engineering					
	Total	0		0	0.00%
Electrical and Computer Engineering					
	Alan George	47	22		
	Dapeng Wu	4	0		
	Jing Guo	78,382	357,459		
	John Shea	86,859	215,770		
	Tan Wong	95	1,059		
	Tao Li	30,871	45,284		
	Toshikazu Nishida	1,336	4,943		
	Xiaolin Li	43	9		
	Total	197,637		624,547	2.36%
Mechanical and Aerospace Engineering					
	Curtis Taylor	16	251		
	Peter Ifju	10,810	8,008		
	Prabir Barooah	17,242	3,901		
	Renwei Mei	131	3,404		
	S. Balachandar	12,933	2,631,261		
	Subrata Roy	650	363,856		
	Youping Chen	25,694	1,738,774		
	Total	67,476		4,749,455	17.97%
Material Science Engineering					
	Brij Moudgil	153	22,843		
	John Mecholsky	74	11		
	Shirley Meng	10,975	123,872		
	Simon Phillpot	297	37,515		
	Susan Sinnott	1	0		
	Total	11,500		184,242	0.70%
Chemical Engineering					
	Aravind Asthagiri	79	669		
	Jennifer Curtis	1,029	68,913		
	Tim Anderson	251	2,471		
	Total	1,359		72,052	0.27%
Biomedical Engineering					
	Huabei Jiang	3,359	55,802		
	Mingzhou Ding	96	2,827		

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Total	3,455		58,629	0.22%
Advanced Computing and Information Systems Laboratory				
Jose Fortes	17,655	124,025		
Total	17,655		124,025	0.47%
Agricultural and Biological Engineering				
Total	0		0	0.00%

Institute of Food and Agricultural Sciences

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Daniel Hahn	21	192		
Donald McCarty	1,832	5,999		
James Jones	164	9,473		
Jasmeet Judge	541,941	99,875		
Rafael Munoz-Carpena	17,980	158,834		
Stefan Gerber	8,045	22,592		
Wendy Graham	105	55,224		
Total	570,088		352,189	1.33%
Entomology				
Total	0		0	0.00%
Horticulture				
Total	0		0	0.00%
Biotechnology				
Total	0		0	0.00%
School of Forest Resources and Conservation				
Total	0		0	0.00%
Microbiology and Cell Science				
Total	0		0	0.00%
Agronomy				
Total	0		0	0.00%
Plant Pathology				
Total	0		0	0.00%
Florida Medical Entomology Lab				
Total	0		0	0.00%

College of Medicine

Interdisciplinary Center for Biotechnology Research				
William Farmerie	127,343	260,025		
Total	127,343		260,025	0.98%
Institute for Child Health Policy				
June Nogle	8	282		
Total	8		282	0.00%
Macromolecular Structure Group				
Total	0		0	0.00%
Movement Disorders Center				
Total	0		0	0.00%
Center for Structural Biology				
Total	0		0	0.00%

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Pathology					
	Anthony Barbet	14	2,076		
	David Ostrov	128	78		
	Total	142		2,154	0.01%
Nephrology, Hypertension & Renal Transplantation					
	Stephen Hsu	967	4,036		
	Total	967		4,036	0.02%
Physiology					
	Peter Sayeski	39	189,377		
	Total	39		189,377	0.72%
Public Health and Health Professions					
	Total	0		0	0.00%
Molecular Genetics and Microbiology					
	Lauren McIntyre	138	3,640		
	Lei Zhou	259	6,956		
	Total	397		10,596	0.04%
Biochemistry and Molecular Biology					
	Total	0		0	0.00%
Health Outcomes and Policy					
	Myron Chang	4	0		
	Wei Hou	7	3		
	Yueh-Yun Chi	62	1,648		
	Total	73		1,652	0.01%
Pharmacology					
	Total	0		0	0.00%
Whitney Marine Lab					
	Total	0		0	0.00%
Emerging Pathogens Institute					
	David Smith	197	1,087		
	Volker Mai	14,499	81,543		
	Total	14,696		82,630	0.31%
UF Genetics Institute					
	Mark Settles	24	3		
	Total	24		3	0.00%
Journalism					
	Total	0		0	0.00%
Neurosurgery					
	Total	0		0	0.00%
Psychology					
	Total	0		0	0.00%

Office of Information Technology

High Performance Computing Center					
	Charles Taylor	4,426	284,106		
	Total	4,426		284,106	1.07%
Florida International University					
	Total	0		0	0.00%
School of Natural Resources and Environment					

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	Stephen Humphrey	958	177		
	Total	958		177	0.00%
Office of Information Technology					
	Total	0		0	0.00%
UF Libraries					
	Total	0		0	0.00%

College of Business Administration

Economics					
	Total	0		0	0.00%
Information Systems and Operations Management					
	Praveen Pathak	381	1,175		
	Total	381		1,175	0.00%
Finance Insurance and Real Estate					
	Total	0		0	0.00%
Fisher School of Accounting					
	Total	0		0	0.00%

College of Veterinary Medicine

Physiological Sciences					
	Total	0		0	0.00%
Infectious Diseases and Pathology					
	Total	0		0	0.00%
Aquatic Animal Health					
	Total	0		0	0.00%

Grand Total		0		26,428,602	100.00%
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