



## CCT Weekly May 1-May 7, 2011

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### LSU CCT Announces Third Software Release for Relativistic Astrophysics Research

The LSU Center for Computation & Technology announces the third release of the Einstein Toolkit, code name Curie. The Einstein Toolkit is an open, community-developed software infrastructure for relativistic astrophysics research and education. This release improves support for dealing with the equation of state by providing a new interface called EOS Omni. Support has also been added for tabulated, microphysical EOSs in the process. Bug fixes accumulated since the previous release have been included, and the test suites have been checked using OpenMP. The Einstein Toolkit is a collection of software components and tools for simulating and analyzing general relativistic astrophysical systems that builds on numerous software efforts in the numerical relativity community, including CactusEinstein, the Carpet AMR infrastructure, and the relativistic hydrodynamics code GRHydro, which is an updated and extended version of the public release of the Whisky code.

The Cactus Framework is used as the underlying computational infrastructure providing large-scale parallelization, general computational components, and a model for collaborative, portable code development. The toolkit includes modules to build complete codes for simulating black hole spacetimes as well as systems governed by relativistic hydrodynamics. Current development is targeted at providing additional infrastructure for general relativistic magnetohydrodynamics.

The Einstein Toolkit is primarily supported by the National Science Foundation. The toolkit consortium comprises several international universities, laboratories, and research centers. The Einstein Toolkit Consortium Curie release team members are: Gabrielle Allen, Peter Diener, Frank Löffler, Eric Seidel, and Michael Thomas, LSU; Erik Schnetter, Perimeter Institute for Theoretical Physics/LSU; Eloisa Bentivegna and Ian Hinder, Max-Planck-Institute for Gravitational Physics; Tanja Bode and Roland Haas, Georgia Tech; Bruno Mundim, Rochester Institute of Technology; and Christian D. Ott, California Institute of Technology.

For more information about using or contributing to the Einstein Toolkit or to join the Einstein Toolkit Consortium, please visit <http://einstein toolkit.org>.

### Pats on the back:

- Congratulations to Randall Hall who received the Webster Parish Chapter Alumni Professorship Award.
- Congratulations to Bijaya Kharki who received the 2010 Rainmakers Mid-Career Scholar Award. This recognizes a faculty member at the associate professor level or recently promoted to full professor who exhibits a sustained program of excellence as measured by the criteria set forth in the emerging scholar category. Award winners in the Mid-Career Scholar category have been at LSU for 7-10 years. Karki will receive a one-time stipend of \$1,000 and a plaque.

### CCT in the news:

#### LSU and Campus Federal Credit Union Name 2010 Rainmakers

Source: [LSU Office of Communications and University Relations](#)

#### LSU Rainmakers program honors outstanding faculty

Source: [LSU Reveille](#)

#### Controlling computers with our bodies- Gestural Interfaces

Source: [technology review-published by MIT](#)

#### TeraGrid: Paying it Forward in the Wake of Disaster

Source: [HPCwire](#)

#### TeraGrid Research Community Reaches Out to Japan

Source: [HPCwire](#)

### Please Note:

- Upcoming Purchasing deadlines:
  - o May 18: All requisitions less than \$25k and not on state contract are due to Purchasing
  - o May 20: All requisitions on state contract are due to Purchasing
  - o June 3: All requisitions regardless of dollar value are due to Purchasing
  - o Please email CCT Purchasing Coordinator, Andy Cox ([acox8@cct.lsu.edu](mailto:acox8@cct.lsu.edu)), the LSU property tag on all moveable (laptop, camera, etc.) and off-campus equipment as soon as possible, if you have not done so already.
- The LSU Center for Computation & Technology will host for the first time the LSU iOS Application Boot Camp August 1-12 (10 day camp; not including weekends) on the LSU Campus. This new educational experience offers LSU freshmen the opportunity to gain knowledge while enhancing their entrepreneurial spirit. Participants will work in groups to create their own operating App and have it loaded on their personal device by end of camp. Registration fee is \$300. For more info and to register, visit <http://www.cct.lsu.edu/iosbootcamp>
- Registration is now open for "Stop Motion Summer Camp," July 11-15, 2011. This exciting summer education opportunity offers high school students a unique opportunity to build upon their interests in animation. Registration fee is \$125. For more information and to register, visit <http://www.cct.lsu.edu/StopMotion>
- Due to the overwhelming response, we have opened a second session for the Alice in Computation Land Summer Camp July 18-22, 2011, sponsored by the LSU Center for Computation & Technology. The camp is a five-day workshop for girls entering grades 6-8 who are interested in learning more about computational science and technology. For more information and to register, visit <http://www.cct.lsu.edu/CampAlice>
- Applications for the SC11 Student Volunteer Program will open April 1 and close on August 12, 2011. Undergraduate and graduate students are encouraged to apply as volunteers to help with the administration of the conference. In exchange for volunteering, they will receive complimentary conference registration, housing, and most meals. In addition, limited support will be provided for transportation expenses (such as airfare) for international students and students from groups that traditionally have been underrepresented in HPC. For more information visit <http://sc11.supercomputing.org/?pg=studvol.html> or email [student-vols@info.supercomputing.org](mailto:student-vols@info.supercomputing.org).

- Prior approval is required for Special Meal Requests. Employees who make meal purchases without prior approvals may find that they must cover the cost of any monies spent for an unapproved event out of pocket, especially now that state funds are under a spending freeze. Please contact Susie Poskonka ([susie@cct.lsu.edu](mailto:susie@cct.lsu.edu)) prior to any special meal with visitor(s) to file the appropriate request for approval. Prior approval could take up to two weeks, so please plan accordingly.
- Please remember to send your news concerning grants, awards, conferences, or other pertinent information to CCT Event Coordinator Jennifer Claudet at [jennifer@cct.lsu.edu](mailto:jennifer@cct.lsu.edu)
- Follow CCT with social media to access photos and see news, events or updated information. These pages are public; you do not need an account to view the information.
  - o [Facebook group](#) : LSU Center for Computation & Technology
  - o [Twitter](#) : LSUCCT
  - o [YouTube channel](#) : LSUCCT

#### Upcoming Grant Deadlines:

**Note:** Please check the [CCT deadline Web site](#), since it is updated daily.

[Software Infrastructure for Sustained Innovation \(SI2\)](#)

July 18, 2011 10:00 am

At Most \$ 1,000,000.00 available

[Faculty Early Career Development \(CAREER\) Program](#)

July 23, 2011 10:00 am

At Least \$ 400,000.00 available

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