

FKPPL Project report (2011)

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ID: Title	KISTI – CC-IN2P3 -Name: GRID Computing					
Project Leaders	French Group			Korean Group		
	Name	Title	Affiliation	Name	Title	Affiliation
	Dominique Boutigny	Dr	CC-IN2P3	Soonwook Hwang	Dr	KISTI
Funding from France						
Description		Euro/unit	Nb of units	Total (euros)	Provided by: *	
Total				3665		
Funding from Korea						
Description		Won/Unit	Nb of units	Total (Won)	Provided by: **	
Organize tutorials on GEANT4, GATE, and Grid computing twice				16,000,000	KRCF	
Total						
Additional funding	Funding from France			Funding from Korea		
	Provided by: ***	Type	Euro	Provided by: ***	Type	Won

* For example: IN2P3, CEA. ** Korean University or Institute. *** French Embassy, STAR, PICS, other grants...

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Summary of 2011 activities	<ul style="list-style-type: none"><input type="checkbox"/> KISTI Super Computer Center, CC-IN2P3 and KEK-CRC have started the federation among the computing resources in the last year. We have deployed the France-Asia virtual organization to share computing resources to make them accessible to multidisciplinary scientific projects and primarily the ones which are part of the CNRS/IN2P3 Associated International Laboratories and Asian countries. We concentrated our work on both migrating the previously deployed virtual organization devoted to the France-Korea Particle Physics Laboratory and prepare it to host members of other Asian countries, not only users but also computing sites. The new France-Asia virtual organization was deployed and is now fully functional at 3 Asian sites: KEK (Japan), KISTI (Korea) and CC-IN2P3 (France). The work performed during this year has allowed us to lay out clean foundations of the virtual organization central infrastructure and will allow us to focus on extending both its usage by the interested experiments and the number of computing sites joining the collaboration.<input type="checkbox"/> The migration of the old fkppl VO into the new france-asia VO including KEK from Japan and IHEP from China has been done:<ul style="list-style-type: none">i) The new VO name: vo.france-asia.orgii) Two VOMS servers have been successfully set up:<ul style="list-style-type: none">A. VOMS master at KISTI: snow.kisti.re.kr:8443B. VOMS slave at CC-IN2P3: cclcgvomsli01.in2p3.fr:15018C. VOMS registration website: https://snow.kisti.re.kr:8443/voms/vo.france-asia.orgiii) The migration of the membership of the old fkppl VO into the new france-asia VO membership has been done smoothly<input type="checkbox"/> IHEP-Beijing has expressed its interests in the use of the new VO for their applications in astronomy. IHEP has a plan to contribute to the francs-asia VO by setting up a grid site in IHEP in the near future.<input type="checkbox"/> Vietnam has expressed its interest in having access to the france-asia VO for the deployment of in silico drug discovery. To this end, Bui The Quang, Vietnamese Ph.D student, has been working on deploying the DIRAC service on the france-asia VO.<input type="checkbox"/> We organized 2011 Geant4/GATE/Grid tutorial for medical applications at KISTI from October 31st to November 4th. More than 40 students from more than 10 institutes attended the tutorial and 7 lecturers from France.<input type="checkbox"/> Some statistics relating to the France-Asia VO activities for 2011 are :<ul style="list-style-type: none">i) Currently, there are 106 users registered at the France-Asia VOii) The CPU utilization was quite low: 1,228 hours HS06 (132 jobs), compared to the historic CPU utilization from May 2009 , which is 5,110,940 hours HS06 (193,362 jobs)
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Publications	<div data-bbox="323 212 352 239"><input type="checkbox"/></div> List of Acknowledgement for the use of France-Asia VO resources: <ul style="list-style-type: none"><li data-bbox="376 253 1503 365">- <i>Virtual Screening Identification of Novel Severe Acute Respiratory Syndrome 3C-like Protease Inhibitors and In Vitro Confirmation</i>, Thi Thanh Hanh Nguyen et al, Bioorganic & Medicine Chemistry Letters, Vol 21, No 10, May 2011<li data-bbox="376 376 1503 488">- <i>Discovery of Novel Inhibitors for Human Intestinal Maltase: Virtual Screening in a WISDOM Environment and In Vitro Evaluation</i>, Thi Thanh Hanh Nguyen et al, Biotechnology Letters, Vol 33, No 11, July, 2011
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