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Applications ported and deployed on the Grid

This is a list of non-LHC applications ported and deployed using ARDA technologies.

name	who/when	scale	tools	comments
Geant4 medical applications	opportunistic usage of the grid by individuals	50-300 CPUs producing histogram files	Ganga,DIANE	Geant4 VO, brachytherapy, IMRT, medlinac
Geant4 release testing	scheduled usage of grid resources by release manager twice a year	50-200 CPUs, few CPU-years, producing postscript plots	Ganga,DIANE	Geant4 VO
ITU RRC06	scheduled (full month May/June 2006), low-latency access critical	1000CPUs, mixed local and Grid resources, low output data volume	Ganga,DIANE	collaboration with invited Grid computing centers (5 in Europe)
Avian Flu Drug Search	scheduled, two data challenges	1200CPUs, 15 CPU-years	Ganga,DIANE,AMGA	collaboration with invited partners in South-East Asia (5)
Lattice QCD	opportunistic usage by individual researcher	10000 CPUs, 30 CPU-years in 5 days, streaming files to the file server (1.2 MB/job)	Ganga	multiple VOs used and local resources of several computing centers
Lattice QCD phase 2		up to 1500 CPUs at a time, more than 200 CPU-years in 3 months, streaming 4TB of data (10MB/job)	Ganga/DIANE	multiple VOs used and local resources of several computing centers, automated with agent factory, using DIANE 2.0

Other applications:

1. HARP, Ganga
 2. COMPASS, Ganga/DIANE
 3. Garfield, Ganga
 4. Feynsect, theoretical physics, Ganga/DIANE
 5. MCFM, theoretical physics, Ganga
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1. xmipp, microscopic image processing, Ganga/DIANE
 2. Athena, Tier2 data analysis, Ganga/DIANE
 3. CMS/ORCA, Ganga/DIANE, prototype never deployed
 4. BLAST (port of MPI-BLAST), Ganga/DIANE
 5. Cambridge Ontology, image recognition, commercial, Ganga
 6. WIEN2K, computational chemistry, prototype, unknown status

Remarks:

- DIANE is always used in conjunction with Ganga to submit worker agents

-- JakubMoscicki - 29 Aug 2007

This topic: ArdaGrid > ApplicationsOnTheGrid
 Topic revision: r4 - 2008-09-13 - JakubMoscicki



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