RDMS CMS Computing and DC04&DC05

O.Kodolova, ¹ E.Tikhonenko ²

1 – SINP MSU; 2 - JINR

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CMS Computing in Russia

Directions of Activities:

- support and development of current versions of CMS SW;
- participation in PCP 03&PCP04 & preparation for participation in DC05;
- participation in the EGEE project (NA4) (just now at a planning stage): CMS applications support&development;
- www-informational support of RDMS activities.

March.2004

Man Power for CMS Computing in Russia

Institutes	farm administration	installation& production running	production tools	PRS SW code ORCA	Physics generators	ΣFTE
SINP MSU & RCC	1	1.5	-	3.5	4	10
JINR	0.4	0.4	-	2.3	2.8	5.9
ITEP	0.8	0.2	1	2	_	4
IHEP	0.3	0.6	0.2	0.4	1.3	2.8
LPI	0.6	0.4	-	0.7	0.3	2
Kharkov (Ukrain)	1	0.6	-	_	-	1.6
Σ FTE	4.1	3.7	1.2	8.2	8.1	

in a total -26.3 FTE

RDMS CMS staff responsibilities in CMS SW

Production tools (IHEP):

BODE (a graphical interface to BOSS production system)

GAR (an archivator for a large number of small files)

ORCA (administration of packages and developing)

(SINP,ITEP,JINR,IHEP):

HealCalibration - a package for off-line calibration and monitoring

- ✓ trigger,reconstruction,analysis objects ✓ isolated particles
- - calibration DB ORCA interface

Jets/AdvancedJets

✓ jet energy correction with tracker pile-up substraction algorithm

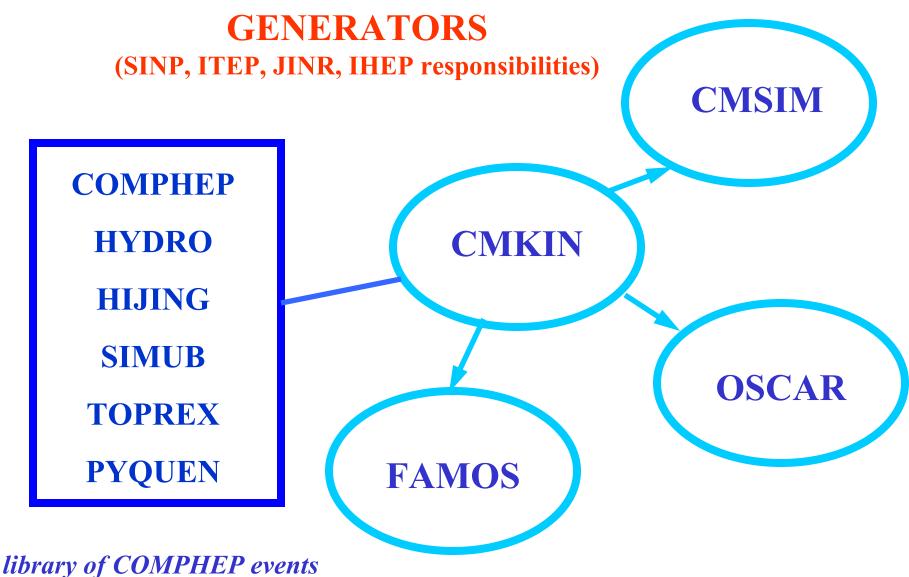
HeavyIonAnalysis

- analysis and reconstruction objects for heavy ion events
- ✓ PrimaryVertexFinder
 ✓ HICMuonReco
 ✓ AzimuthalAssimetry

Muon - subsystem of packages

IN PLANS

- ✓ radiation damages in CMSIM,OSCAR,ORCA
- ✓ local track reconstruction in muon system



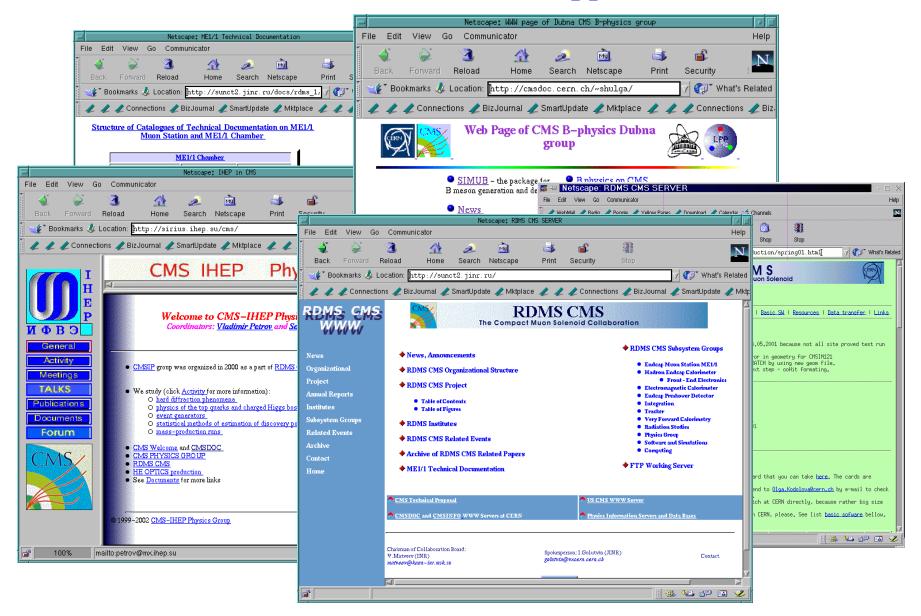
library of COMPHEP events
library of parton events /datacards /channel selection codes

Current Status of Software installed & in use at RDMS CMS institutes:

CMSIM up to v.133; ORCA up to v. 7_6_1; complete production chain; McRunJob; BOSS; BODE

SRB (Storage Resource Broker) clients are installed at SINP MSU, JINR, IHEP, Kharkov and FIAN

www informational support



Current PCP resources in Russia

(March2004)

Institutes	CPUs in use	Disks, TB	
IHEP	10	0.2	
ITEP	12	0.9	
JINR	20	0.6	
Kharkhov	16	1.4	
SINP	12	0.9	
LPI	6	0.04	

In a total: 76 CPU; 4.04 TB of disk space

Participation of Russian institutes in CMS production is stable at a level of 5% from all CMS simulations since 2000 year

During PCP03 we have produced more than 2 000 000 events

Short-term plans:

- ✓ to determine samples and resources for PCP04
- to specify tasks and staff for participation in EGEE NA4 (CMS applications)