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Russia plans for LHC(b) computing

- May 1999:
10 Russian Institutes signed Memorandum
"Russian Regional Computing Facilities for LHC data processing and analysis"
– IHEP, ITEP, Kurchatov, INR, Budker, MEPHI, NPI/MSU, JINR, Lebedev, PINR
- Nov 1999:
Project was supported by Ministry
- End of 1999:
4 working groups are established
- End of 1999 - begin of 2000:
Test MC production for CMS at ITEP - NPI/MSU cluster

Russian Regional Computing Facilities for LHC

4 components:

- A "dedicated" link from CERN to Moscow
- "Dedicated" links from Moscow to all participating institutes
- Moscow (distributed) Regional Center (Tier-I)
- Set of Tier-II center in non-Moscow Institutes

- Phase-I: 1999-2001
 - Conceptual solution & design
 - prototypes
 - tests
- no substantial funding before 2004

1999

- Prototype-0 on the base of ITEP-NPI/MSU
- common PC/Linux cluster
- Test MC production for CMS

2000/2001

	MIPS	Gbytes
ITEP+NPI/MSU	30k	500
JINR	32k	500
IHEP	20	200
PINR	10k	100
Lebedev	5k	60

Tape drivers at JINR and IHEP (5+5
TBytes)

Links

CERN connection

- now
Satellite link $\sim 1.5-2$ Mbit/s
no interactive work
- under discussion plans with connection to European 155 MBit/s

Inter connections

- now ~ 2 Mbit/s
- G.Soros Ring
 - bandwidth overall 100 Mbit/s
 - bandwidth per institute ~ 10 Mbit/s
 - extendable up to ATM
 - several optic lines
 - dedicated lines?

ITEP-NPI/MSU PC/Linux farm

- Installed in end of summer 1999
- Test MC production for CMS - end of 1999
- all releases of Geant4 installed and running
- up to date CMS software is installed
- *GAUDI* release 3 is installed and running