

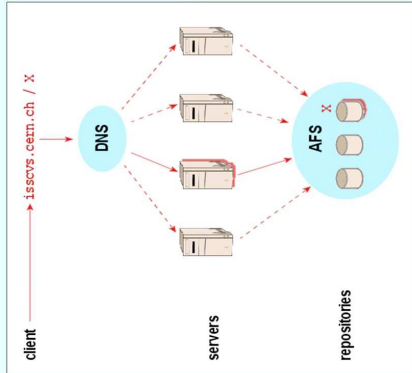


Cluster architectures used to provide CERN central CVS services

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Central CVS Service

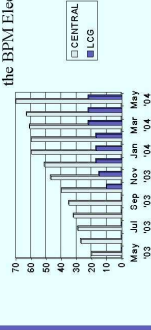


- Main Features**
- service Web page: <http://cern.ch/cvs>
 - automatic failover and load balancing
 - AFS/DNS based
 - 84 projects, over 10GB of source code
 - over 800 developers with write access
 - average of 4 new projects ever month

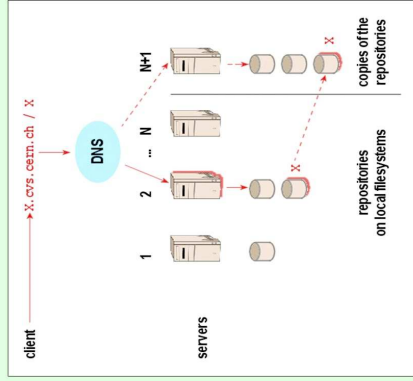
CERN Central CVS Service

Project	Size	Access	Created	Last Modified
ALICE	100 MB	Read	2003-05-01	2004-01-15
ALICE-DB	50 MB	Read	2003-05-01	2004-01-15
ALICE-DB-TEST	50 MB	Read	2003-05-01	2004-01-15
ALICE-DB-TEST2	50 MB	Read	2003-05-01	2004-01-15
ALICE-DB-TEST3	50 MB	Read	2003-05-01	2004-01-15
ALICE-DB-TEST4	50 MB	Read	2003-05-01	2004-01-15
ALICE-DB-TEST5	50 MB	Read	2003-05-01	2004-01-15
ALICE-DB-TEST6	50 MB	Read	2003-05-01	2004-01-15
ALICE-DB-TEST7	50 MB	Read	2003-05-01	2004-01-15
ALICE-DB-TEST8	50 MB	Read	2003-05-01	2004-01-15
ALICE-DB-TEST9	50 MB	Read	2003-05-01	2004-01-15
ALICE-DB-TEST10	50 MB	Read	2003-05-01	2004-01-15

AB-CO FPGA designs, AB-RF-CS Section Software, ARDA project, ATLAS Networking, ATLAS Pixel DCS, ATLAS TDAQ Robin Project, ATLAS Trigger DAQ, Anaphis, AICom II, Atlas, Automatic Driver Code Generation, BIC surveillance project, CASTOR project, CCDB, CERN Central CVS Service project, CERN Fire and Gas detection, CERN Oracle Grid Data Management Services, CERN Safety Alarm Monitoring, CESAR Project, CSDB project, CVS test, Certification Dependency System, Chorus (WA95) experiment, Compass Reconstruction Program, Computer Centre - Operational Procedures Management, Controls Middleware, Cristal 2, Cyan Jaguar, DIANA (Distributed Internetwork ANalysis), EDG Project at CERN, EGEE Middleware SCM Tools, EJB Platform Project, ELFms (Extremely Large Fabric Management), FESA specialist equipment software, Front-End Software Architecture, Front-End Software Architecture, GAUDI, GUI Platform project, Ganga -- Gaudi/Alhena and Grid Alliance, GridSite, HEPX, scripts, Hardware Recognition System for SM18 Magnet Test Benches, IT-FIO software, Itocbe, JZEE Public Service, Java Accelerator Controls Software, LCG - middleware, LCG Data Management, LCG Oracle AS + DB Tier 1 Deployment, LHC Logging Project, LHC Orbit Feedback, LHC Reference Database LAYOUT forms, LHC DIRAC Software Suite, LHCb Online Project, LHCb software, LLRF TEST PROJECT, MC-TESTER a universal tool for comparisons of Monte Carlo predictions for particle decays in high energy physics, MTF Offline Interface, Machine Component State Manager, Mammogrid project, MdbStudio, Middle Tier Server for CMW, Mountain Top++, NA48 analysis software, NA60 Offline Project, OASIS software, OPC gateway for CMW, OPERA project, Object Oriented Programming in C - Oxford Grid Projects, PHOS Trigger Router Unit, PS LICMON Software, PSLemon license files, Project Name, Py Framework, monitoring, QUATTOR components for CERN, Remedy Services, Section Framework, Administration System, Software for Accelerator Control, Superconducting Magnet Anal. Activities, Technical Infrastructure Monitoring (for the LHC), UI, VHDL Code for the UEIP Com the BPM Electronics, Video Observation System project



CVS Service for LCG



- Main Features**
- service Web page: <http://cern.ch/lcgevs>
 - N + 1 cluster architecture
 - data replication (CVSUP)
 - based on local file systems
 - tools for service relocation (DNS)
 - over 230 projects, over 4 GB of source code
 - over 250 developers with write access
 - no new projects during last year

CERN Central CVS Service

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CLIENT → [x.cvs.cern.ch / x](http://x.cvs.cern.ch/)

SERVERS

REPOSITORIES

COPIES OF THE REPOSITORIES

REPOSITORIES ON LOCAL FILESYSTEMS

CONCLUSION

ACKNOWLEDGEMENTS

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- Common Features**
- ViewCVS and CVSWEB access for project browsing
 - daily archive of projects in Castor: keeps repository history
 - restricted Shell, to increase security: only cvs command allowed
 - automatic project creation form to final users
 - project Web access control form to responsible librarians
 - automatic CVS lock detection and report to librarians
 - automatic developers' e-mailing list generation per project
 - kserver, ssh and pserver access methods

A Class Library for High Energy Physics, CMT for LCG, Conditions Database for LCG, Contributions from external projects, EGEE Middleware (JRAI), Globus Toolkit, 3 Evaluation, IT/PSUI section, ITCVS for LCG test project, LCG CSCSier2 project, LCG Deployment project, LCG Distributed Deployment of Databases Project, LCG Simulation project, LCG Tools to setup CVS, LCG middleware, PI Physicist Interface Project, POOL - Persistence Framework Version 0.0.1, POOL - Persistence Framework Version 1.1.0, POOL - Persistence Framework, Project Name, SEAL Core Libraries and Services Project, SPI Software Process and Infrastructure Tools, SPI Software Process and Infrastructure, Test Repository for LCG CVS Service, Test-Project for SPI,