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# Glossary

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**8-Sep-2008: This is an archived version of the ATLAS Computing WorkBook Glossary. People should now use AtlasGlossary.**

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

ADA [↗](#)

ATLAS Distributed Analysis system

AFS [↗](#)

Andrew File System

AMI [↗](#)

ATLAS Metadata Interface

ARDA [↗](#)

Architectural Roadmap towards Distributed Analysis or A Realization of Distributed Analysis of LHC (Grid)

AOD

Analysis Object Data

API [↗](#)

Application Program Interface

ARC [↗](#)

Advanced Resource Connector - NorduGrid (Grid)

ATLAS [↗](#)

A Toroidal LHC ApparatuS

Athena [↗](#)

ATLAS offline software framework

BDII [↗](#)

Berkely Database Information Index (LCG GIIS replacement)

C++ [↗](#)

Primary programming language used in ATLAS

CA [↗](#)

Certification Authority (Grid)

CASTOR [↗](#)

CERN Advanced STORage Manager

CBNT

Combined N-tuples (Software)

CE [↗](#)

Computing Element (Grid)

CERN [↗](#)

European Laboratory for Particle Physics

CINT [↗](#)

A C/C++ interpreter that is embedded in ROOT

CLHEP [↗](#)

Class Library for HEP (Software)

CMT [↗](#)

Configuration Management Tool

CondDB

|                           |                                                                                                                                                |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
|                           | Conditions Database                                                                                                                            |
| CondorG <a href="#">↗</a> | Grid Batch System                                                                                                                              |
| COOL <a href="#">↗</a>    | LCG Condidions Database Project                                                                                                                |
| CSC                       | Computer System Commissioning                                                                                                                  |
| CSC <a href="#">↗</a>     | Cathode Strip Chamber                                                                                                                          |
| CTB <a href="#">↗</a>     | Combined Test Beam                                                                                                                             |
| CTP                       | Central Trigger Processor for First-Level Trigger                                                                                              |
| CVS <a href="#">↗</a>     | Concurrent Versioning System                                                                                                                   |
|                           |                                                                                                                                                |
| DAQ                       | Data Acquisition System                                                                                                                        |
| DBMS                      | Database Management System                                                                                                                     |
| DC                        | Data Challenge (Operations)                                                                                                                    |
| dCache <a href="#">↗</a>  | Disk Cache Sytem (A system used to transparently manage the storage and exchange of data which is distributed across various storage devices.) |
| DCS                       | Detector Control System (Software/Data Management)                                                                                             |
| DIAL                      | Distributed Interactive Analysis of Large datasets                                                                                             |
| DM                        | Data Management                                                                                                                                |
| DN                        | Distinguished Name (Grid certificate)                                                                                                          |
| DPD                       | Derived Physics Data (Software)                                                                                                                |
| DQ                        | Don Quixote, distributed data manager (Data Management/Grid)                                                                                   |
| DRD                       | Derived Reconstruction Data (Computing Model)                                                                                                  |
| DTMROC                    | Digital Time Measurement Read-Out Controller                                                                                                   |
|                           |                                                                                                                                                |
| EB                        | Event Builder                                                                                                                                  |
| ECAL                      | Electromagnetic Calorimeter                                                                                                                    |
| EDM                       | Event Data Model                                                                                                                               |
| EDG <a href="#">↗</a>     | European Data Grid project                                                                                                                     |
| EF                        | Event Filter                                                                                                                                   |

|         |                   |                                                                     |
|---------|-------------------|---------------------------------------------------------------------|
| EGEE    | <a href="#">↗</a> | Enabling Grid for E-science                                         |
| EMEC    |                   | Electromagnetic Endcap Calorimeter                                  |
| EMS     |                   | Event Monitoring Sampler (Software/DAQ)                             |
| ESD     |                   | Event Summary Data                                                  |
|         |                   |                                                                     |
| FC      |                   | File Catalogue                                                      |
| FCAL    |                   | Forward Calorimeter                                                 |
| FORTRAN | <a href="#">↗</a> | Programming Language                                                |
| FTP     | <a href="#">↗</a> | File Transfer Protocol                                              |
|         |                   |                                                                     |
| GACL    | <a href="#">↗</a> | Grid Access Control List                                            |
| GANGA   | <a href="#">↗</a> | Gaudi/Athena Grid user interface                                    |
| Gaudi   | <a href="#">↗</a> | Data Processing Applications Framework                              |
| GEANT   | <a href="#">↗</a> | Pan-European Gigabit Research and Education Network                 |
| Geant 4 | <a href="#">↗</a> | A toolkit for simulation of the passage of particles through matter |
| GID     |                   | Global Event Identifier                                             |
| gLite   | <a href="#">↗</a> | Lightweight middleware for Grid Computing                           |
| Globus  | <a href="#">↗</a> | Grid Middleware                                                     |
| GLUE    | <a href="#">↗</a> | Grid Laboratory Uniform Environment (Schema)                        |
| Grid3   | <a href="#">↗</a> | US Grid System                                                      |
| GridFTP | <a href="#">↗</a> | Protocol Extensions to FTP for the Grid                             |
| GSI     | <a href="#">↗</a> | Grid Security Infrastructure                                        |
| GUI     |                   | Graphical User Interface                                            |
| GUID    |                   | Globally Unique Identifier (Grid)                                   |
|         |                   |                                                                     |
| HBOOK   | <a href="#">↗</a> | Legacy histogramming package                                        |
| HCAL    |                   | Hadronic Calorimeter                                                |

|                            |                                                                             |
|----------------------------|-----------------------------------------------------------------------------|
| HEC                        | Hadronic Endcap Calorimeter                                                 |
| HepMC <a href="#">↗</a>    | MC Generator 4-Vector Classes                                               |
| HEP                        | High-energy physics                                                         |
| HLT                        | High-Level Trigger                                                          |
| HSM <a href="#">↗</a>      | Hierarchical Storage Manager                                                |
| HTML <a href="#">↗</a>     | Hypertext Mark-up Language                                                  |
| HVS                        | Hierarchical Versioning System (Software)                                   |
|                            |                                                                             |
| ID                         | Inner Detector                                                              |
| IDC                        | Identifiable Container                                                      |
| IOV                        | Interval Of Validity                                                        |
| IP                         | Interaction Point                                                           |
| IPC                        | Inter-Process Communication                                                 |
|                            |                                                                             |
| Java <a href="#">↗</a>     | Programming Language                                                        |
|                            |                                                                             |
| Kerberos <a href="#">↗</a> | A network authentication protocol                                           |
|                            |                                                                             |
| LAr                        | Liquid Argon Calorimeters (e.m. barrel, e.m. endcap, hadronic endcap, FCAL) |
| LAN                        | Local Area Network                                                          |
| LCG <a href="#">↗</a>      | LHC Computing Grid                                                          |
| LDAP <a href="#">↗</a>     | Lightweight Directory Access Protocol                                       |
| LFN                        | Logical File Name                                                           |
| LHC <a href="#">↗</a>      | Large Hadron Collider                                                       |
| LSF <a href="#">↗</a>      | Load Sharing Facility (Batch system)                                        |
| LVL1                       | The ATLAS First-Level Trigger                                               |
| LVL2                       | The ATLAS Second-Level Trigger                                              |

|                          |                                                                                          |
|--------------------------|------------------------------------------------------------------------------------------|
| L1Calo                   | Level-1 Calorimeter Trigger                                                              |
| L1Muon                   | Level-1 Muon Trigger                                                                     |
| M&O                      | Maintenance and Operation                                                                |
| MC                       | Monte Carlo simulation                                                                   |
| MDS                      | Monitoring and Directory Service (Grid)                                                  |
| MDT                      | Monitored Drift Tube                                                                     |
| MONARC <a href="#">↗</a> | Models Of Networked Analysis at Regional Centres                                         |
| MoU                      | Memorandum of Understanding                                                              |
| MSSM                     | Minimal SuperSymetric Model                                                              |
| MTTF                     | Mean Time To Failure                                                                     |
| NOVA                     | Networked Object-based Environment for Analysis (Data management)                        |
| OLE                      | Object Linking and Embedding                                                             |
| OO                       | Object Oriented (Software)                                                               |
| OS                       | Operating System                                                                         |
| OSG <a href="#">↗</a>    | Open Science Grid                                                                        |
| Pacman <a href="#">↗</a> | Package Manager                                                                          |
| PASTA                    | LCG technology tracking team                                                             |
| PAW <a href="#">↗</a>    | Physics Analysis Workstation (Legacy data analysis package)                              |
| PBS <a href="#">↗</a>    | Portable Batch System                                                                    |
| PESA                     | Physics and Event Selection Architecture                                                 |
| POOL <a href="#">↗</a>   | Pool Of persistent Objects for LHC (Data management)                                     |
| PROOF <a href="#">↗</a>  | Parallel ROOT Facility                                                                   |
| PVSS                     | Prozessvisualisierungs- und Steuerungs-System (Process Visualization and Control System) |

PYTHIA [↗](#)

A program for the generation of high-energy physics events.

Python [↗](#)

An interpreted, interactive, object-oriented, open-source programming language

RAL

Relational Access Layer (Data management) (or Rutherford Appleton Laboratory)

RAW

Raw Data

RB

Resource Broker (Grid)

RC

Replica Catalog (Grid)

RDBMS

Relation Database Management System

RDO

Raw Data Object

RecExCommon

A CMT run-time environment for reconstruction

RFIO

Remote File I/O

RHEL [↗](#)

Redhat Enterprise Linux

RLS [↗](#)

Replica Location Service (Grid)

RIO

Reconstruction Input Object

ROB

Read-Out Buffer

ROD

Read-Out Driver

ROS

Read-Out System (or Read-Out Subsystem)

RoI

Region of Interest

ROOT [↗](#)

A class library for data analysis.

RPC

Resistive Plate Chamber (barrel muon trigger)

RSL

Resource Specification Language (Grid)

RT

Real Time

RTAG

Requirements Technical Assessment Group (LCG)

SCT

Semiconductor Tracker (Inner Detector)

SDP

Software Development Process

SDO

|                                |                                                 |
|--------------------------------|-------------------------------------------------|
|                                | Simulation Data Objects                         |
| SE                             | Storage Element (Grid)                          |
| SEAL <a href="#">↗</a>         | The Shared Environment for Applications at LHC  |
| SFI                            | Sub Farm Input (DAQ)                            |
| SFO                            | Sub Farm Output (DAQ)                           |
| SG                             | Storegate (SW)                                  |
| SGE                            | Sun Grid Engine (Batch Job System)              |
| SL3 4 5 ... <a href="#">↗</a>  | Scientific Linux 3 4 5...                       |
| SLC3 4 5 ... <a href="#">↗</a> | Scientific Linux CERN 3 4 5...                  |
| SI2K <a href="#">↗</a>         | SpecInt2000 (CPU Benchmark)                     |
| SIM                            | Simulated Data (RAW Format)                     |
| SIT                            | Software Infrastructure Team (of ATLAS)         |
| SRM <a href="#">↗</a>          | Storage Resource Manager (Grid)                 |
| STL <a href="#">↗</a>          | Standard Template Library (C++)                 |
| StoreGate                      | The transient data store for ATHENA             |
|                                |                                                 |
| TAG                            | Event-level metadata                            |
| TCP/IP <a href="#">↗</a>       | Transmission Control Protocol/Internet Protocol |
| TDAQ                           | ATLAS Trigger and DAQ (including DCS)           |
| TDR                            | Technical Design Report                         |
| TDS                            | Transient Data Store                            |
| TES                            | Transient Event Store                           |
| TGC                            | Thin Gap Chamber (endcap muon trigger)          |
| TileCal                        | Hadronic Calorimeter (barrel+extended barrel)   |
| TOF                            | Time Of Flight                                  |
| TRT <a href="#">↗</a>          | Transition Radiation Tracker                    |
| TTC                            | Timing, Trigger and Control system              |
| TURL                           |                                                 |



Transfer URL (Grid)

UI

User Interface

URL

Universal Resource Locator (Grid)

USA15

Electronics cavern

UX15

Experimental cavern

VO

Virtual Organization (Grid)

VOMS [↗](#)

Virtual Organization Membership Service (Grid)

WAN

Wide Area Network

WMS

Workload Management System (Grid)

WN

Worker Node (Grid)

XML [↗](#)

Extensible Markup Language

ZEBRA [↗](#)

Legacy data management system

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Originally taken from <http://wlav.home.cern.ch/wlav/athena/athask/glossary.html> [↗](#) and  
<http://atlas-proj-computing-tdr.web.cern.ch/atlas-proj-computing-tdr/Html/Computing-TDR-72.htm#pgfId-1011143> [↗](#)

-- WimLavrijsen - 27 May 2005 -- SteveLloyd - 08 Jun 2005

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%REVIEW%

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