

ICALEPCS'99 Acronyms and Abbreviations

AA	Antiproton Accumulator
AAPPS	Association of Asian Pacific Physics Societies
ACFA	Asian Committee for Future Accelerators
ACNET	Accelerator Control NETwork (FNAL)
ACOP	Accelerator Component Oriented Programming
ADC	Analog to Digital Converter
ADO	Accelerator Device Object (RHIC)
ADO	Active Data Object
ADO	Atomic Data Object (IHEP, Protvino)
AGS	Alternating Gradient Synchrotron (BNL)
AI	Artificial Intelligence
ALICE	A Large Ion Collider Experiment – Heavy Ion at LHC
ALS	Advanced Light Source, Lawrence Berkeley National Lab. (Berkeley, CA, USA)
ANL	Argonne National Laboratory (Argonne, IL, USA)
AOT	Astronomical Observatory of Trieste (Osservatorio Astronomico Trieste)
API	Application Programming Interface
APS	Advanced Photon Source, Argonne National Laboratory (Argonne, IL, USA)
ARCNET	Amoco Research Company NET
ARP	Address Resolution Protocol
ASIC	Application Specific Integrated Circuit
ATLAS	A Toroidal LHC ApparatuS (One of the LHC Detectors)
ATM	Asynchronous Transfer Mode
BEPC	Beijing Electron Positron Collider
BESSY	Berliner Elektronen Speicherringgesellschaft für SYnchrotronstrahlung (Berlin electron laboratory for synchrotron radiation, Berlin, Germany)
BINP	Budker Institute of Nuclear Physics (Novosibirsk, Russia)
BNL	Brookhaven National Laboratory (Upton, NY, USA)
BPM	Beam Position Monitor
BSD	Berkeley Software Distribution
BSRF	Beijing Synchrotron Radiation Facility
CAD/CAM	Computer Aided Design/ Computer Aided Manufacturing
CAMAC	Standard crate, module and backplane system
CAMD	Center for Advanced Microstructures and Devices (Baton Rouge, LA, USA)
CAN	Controller Area Network (Automobile bus system)
CAS	Channel Access Server
CASE	Computer Aided Software Engineering
CAT	Center for Advanced Technology (Indore, India)
CDEV	Control DEvice interface
CDF	Collider Detector at Fermilab
CEA	Commissariat à l'Énergie Atomique – Atomic Energy Agency (Gif-sur-Yvette, France)
CEBAF	Continuous Electron Beam Accelerator Facility (Newport News, VA, USA)
CECIL	Common EPICS CAN Interface Layer
CERN	European Organisation for Nuclear Research (Geneva, Switzerland)
CHIMERA	Charged Heavy Ions Mass and Energy Resolving Array
CIM	Computer Integrated Manufacturing
CINVESTAV	Centro de Investigación y de Estudios Avanzados del IPN, Mecatrónica (México)
CLRC	Central Laboratory of the Research Councils, Daresbury Laboratory (Daresbury, UK)
CNR	Consiglio Nazionale delle Ricerche (Italy)

COACK	Component-ware Oriented Accelerator Control Kernel (KEK)
COM	Component Object Model
CORBA	Common Object Request Broker Architecture
COSY	COoler SYnchrotron (Jülich, Germany)
COTS	Commercial Off-The-Shelf
CPS	CERN Proton Synchrotron Control and Protection System
CRPP	Plasma Physics Research Center of Switzerland, École Polytechnique Fédérale de Lausanne (Lausanne, Switzerland)
CTU	Czech Technical University (Prague, Czech's Republic)
DAC	Digital to Analog Converter
DANTE	DAPHNE New Tools Environment (Frascati)
DAO	Data Access Object
DAQ	Data AcQuisition System
DBMS	DataBase Management System
DCE	Distributed Computing Environment
DCOM	Distributed Component Object Model
DCS	Detector Control System
DDE	Dynamic Data Exchange
DEC	Digital Equipment Corporation
DELPHI	DEtector with Lepton, Photon and Hadron Identification (LEP Experiment)
DESY	Deutsches Electronen SYnchrotron (Hamburg, Germany)
DLL	Dynamic Link Library
DMA	Direct Memory Access
DSC	Device Stub Controller
DSP	Digital Signal Processor
EC	Equipment Controller (ELETTRA)
ECFA	European Committee for Future Accelerators
ECNIAR	“Elie Carafoli” National Institute for Aerospace Research (Bucharest, Romania)
ECR	Electron Cyclotron Resonance
EIU	Equipment Interface Unit (ELETTRA)
ENEA	Ente per le Nuove tecnologie, l'Energia e l'Ambiente (Italy)
EPA	Electron-Positron Accumulator (CERN)
EPAC	European Particle Accelerator Conference
EPCS	Experimental Physics Control Systems (Interdivisional Group of EPS)
EPICS	Experimental Physics and Industrial Control System
EPS	European Physical Society
ESA	European Space Agency
ESO	European Southern Observatory (München, Germany)
ESRF	European Synchrotron Radiation Facility (Grenoble, France)
EU	European Union
FDDI	Fiber Distributed Data Interface
FEC	Front End Computer
FNAL	Fermi National Accelerator Laboratory (Fermilab, Batavia, IL, USA)
FPGA	Field Programmable Gate Array
FSM	Finite State Machine
FZJ	ForschungsZentrum Jülich (Jülich, Germany)
FZK	ForschungsZentrum Karlsruhe (Karlsruhe, Germany)
GANIL	Grand Accélérateur National d'Ions Lourds (Caen, France)
GENEPI	Générateur de Neutrons Pulsé Intense (Grenoble, France)
GPIB	General Purpose Interface Bus (IEEE- 488)
GPS	Global Positioning System
GSI	Gesellschaft für SchwerIonenforschung mbH (Heavy Ion Research Laboratory, Darmstadt, Germany)

GTC	Gran Telescopio de Canarias (Large Telescope of Canary Island, Tenerife, Spain)
GUI	Graphical User Interface
HEP	High Energy Physics
HERA	Hadron-Elektron Ring Anlage (Hamburg, Germany)
HIRFL	Heavy Ion Research Facility in Lanzhou (China)
HMI	Hahn-Meitner-Institut (Berlin)
HP	Hewlett-Packard Co.
HTML	HyperText Markup Language
I/O or IO	Input/Output
ICALEPCS	International Conference on Accelerator and Large Experimental Physics Control Systems
ICEPP	International Center for Elementary Particle Physics, University of Tokyo (Japan)
ICFA	International Committee for Future Accelerators
ICS-UNIDO	International Centre for Science and High Technology
ICSR-BAS	Institute of Control and System Research – Bulgarian Academy of Sciences (Sofia, Bulgaria)
ID	Insertion Device
IEEE-NPSS	Nuclear and Plasma Sciences Society of the IEEE
IFAC	International Federation of Automatic Control
IFIP	International Federation for Information Processing
IHEP	Institute for High Energy Physics (Protvino, Moscow Region, Russia)
IHEP	Institute of High Energy Physics (Beijing, China)
IKP	Institut für KernsPhysik, Forschungszentrum Jülich (Jülich, Germany)
ILC	Intelligent Local Controller
INFN	Istituto Nazionale di Fisica Nucleare (National Institute for Nuclear Physics, Italy)
INR	Institute for Nuclear Research, Russian Academy of Science (Moscow, Russia)
INR-NE	Institute for Nuclear Research and Nuclear Energy – Bulgarian Academy of Sciences (Sofia, Bulgaria)
IOC	Input/Output Controller
IP	Internet Protocol
IP	Industry Pack
IPC	InterProcess Communication
IPC	Industrial PC
IPNE	Institut de Physique Nucleaire Experimentale, Université de Liège (Liège, Belgium)
IPP	Institut für PlasmaPhysik, Germany
IReS	Institut de Recherches Subatomiques de Strasbourg (Strasbourg, France)
ISA	Institute for Storage Ring Facilities, University of Aarhus (Aarhus, Denmark)
ISAC	Isotope Separator and ACcelerator (TRIUMF)
ISN	Institut des Sciences Nucleaires (Grenoble)
ISO	International Standards Organization
ISS	Institute for Spatial Studies (Bucharest, Romania)
ITEP	Institute for Theoretical and Experimental Physics (Moscow, Russia)
JAERI	Japan Atomic Energy Research Institute (Naka, Japan)
JCOP	Joint COntrols Project (CERN)
JDBC	Java DataBase Connectivity
JET	Joint European Torus (Abingdon, UK)
JINR	Joint Institute for Nuclear Research (Dubna, Russia)
KBSI	Korea Basic Science Institute (Taejon, Korea)
KEK	High Energy Accelerator Research Organization (Tsukuba, Japan)
KEKB	KEK B-Factory
KIPT	Kharkov Institute of Physics and Technology (Kharkov, Ukraine)
LAMPF	Los Alamos Meson Physics Facility
LAN	Local Area Network
LANL	Los Alamos National Laboratory (Los Alamos, NM, USA)

LANSCE	Los Alamos Neutron Science Centre
LBNL	Lawrence Berkeley National Laboratory (Berkeley, CA, USA)
LCR	Local Control Room
LEAR	Low Energy Antiproton Ring (CERN)
LEP	Large Electron-Positron collider (CERN)
LHC	Large Hadron Collider (CERN)
LIL	LEP Injector Linac (CERN)
LINAC	LINEar ACcelerator
LNL	Laboratori Nazionali di Legnaro (INFN, Legnaro, Italy)
LNLS	Laboratorio Nacional de Luz Sincrotron (Campinas, Brazil)
LNS	Laboratori Nazionali del Sud (INFN, Catania, Italy)
LPC	Local Process Computer (ELETTRA)
LPNHE	Laboratoire de Physique Nucléaire et de Hautes Energies (Paris, France)
MAD	Methodical Accelerator Design program
MAMI	MAInz MIcrotron
MAP	Manufacturing Automation Program
MEDM	Motif Editor and Display Manager
MEPhI	Moscow State Engineering PHysics Institute (Moscow, Russia)
MIL-1553B	Serial field bus
MMI	Man-Machine Interface
MPX	MultiPleX system (CERN)
MTG	Master Timing Generator
NAC	National Accelerator Centre (Faure, South Africa)
NC	Network Compiler (CERN)
NetBios	Network Basic Input Output System
NFS	Network File System
NIRS	National Institute of Radiological Sciences (Chiba, Japan)
NLC	Next Linear Collider
NOTTE	Neutrino Oscillations with Telescope during the Total Eclipse, experiment
NSLS	National Synchrotron Light Source (BNL)
NSRL	National Synchrotron Radiation Laboratory of China (Hefei, China)
ODBC	Open DataBase Connectivity
ODBMS	Object DataBase Management System
OLE	Object Linking & Embedding
OMG	Object Management Group
OO	Object Oriented
OODB	Object Oriented DataBase
OOP	Object Oriented Programming
OPC	OLE for Process Control
OPI	OPERator Interface
ORNL	Oak Ridge National Laboratory (Oak Ridge, TN, USA)
OS	Operating System
OSF	Open Systems Foundation
OSI	Open Interconnection Standard
PAC	Particle Accelerator Conference
PAL	Pohang Accelerator Laboratory (Pohang, Korea)
PAL	Programmable Array Logic
PC	Personal Computer
PCA	Process Control Assembly (CERN)
PCI	Peripheral Component Interconnect
PHIGS	Programmer's Hierarchical Interactive Graphics System
PID	Proportional Integral Derivative Controller

PLC	Programmable Logic Controller
PLD	Programmable Logic Device
PMC	PCI Mezzanine Card
PNPI	Petersburg Nuclear Physics Institute (St. Petersburg, Russia)
POSTECH	Pohang University of Science and Technology (Pohang, Korea)
PROFIBUS	Serial field bus, DIN Standard 19245
PS	Proton Synchrotron (CERN)
PSB	PS Booster (CERN)
PSI	Paul Scherrer Institut (Villigen, Switzerland)
PSR	Proton Storage Ring (LAMPF)
PXI	PCI eXtension for Instrumentation
RDBMS	Relational DataBase Management System
RHIC	Relativistic Heavy Ion Accelerator (BNL)
RIKEN	Institute of Physical and Chemical Research (Japan)
RISC	Reduced Instruction Set Computer
RMI	Remote Method Invocation
RPC	Remote Procedure Call
RTDB	Real-Time DataBase
RTOS	Real-Time Operating System
SA/SD	Structured Analysis/Structured Design
SCADA	Supervisory Controls And Data Acquisition
SDDS	Self Describing Data Sets
SDFP	Self Describing File Protocol
SFC	Sector-Focussing Cyclotron
SIF	Società Italiana di Fisica (Italy)
SISSA	Scuola Internazionale Superiore di Studi Avanzati (Trieste, Italy)
SLAC	Stanford Linear Accelerator Center (Stanford, CA, USA)
SLC	SLAC Linear Collider
SLS	Swiss Light Source
SNL	State Notation Language
SNMP	Simple Network Management Protocol
SNS	Spallation Neutron Source
SOSH	SOftware SHaring
SPRing-8	Super Photon ring 8 GeV
SPS	Super Proton Synchrotron (CERN)
SQL	Structured Query Language
SR	Synchrotron Radiation
SRCNS	Schonland Research Centre for Nuclear Sciences (Johannesburg, South Africa)
SRRC	Synchrotron Radiation Research Center (Taiwan)
SRS	Savannah River Site (Savannah River, USA)
SRS	Synchrotron Radiation Source (Daresbury, UK)
SSC	Separated Sector Cyclotron
SSRL	Stanford Synchrotron Radiation Laboratory (Stanford, CA, USA)
SSTF	Samsung Superconductor Test Facility
STAR	Solenoidal Tracker At RHIC
SUBATECH	Physique Subatomique et des Technologies Associées Laboratory, University of Nantes (Nantes, France)
TACL	Thaumaturgic Automated Control Logic
TACO	Telescope and Accelerator Control Objects
TANGO	TAcO Next Generation Objects
TCP/ IP	Transport Control Protocol/ Internet Protocol
TCR	Technical Control Room (CERN)

TDM	Time Division Multiplex
TESLA	TeV Superconducting Linear Accelerator
TJNAF	Thomas Jefferson National Accelerator Facility (Newport News, VA, USA)
TNG	Telescopo Nazionale Galileo (La Palma)
TPC	Time Projection Chamber
TRISTAN	Transposable Ring Intersecting SStorage Accelerator in Nippon (KEK electron-positron collider)
TRIUMF	TRI-University Meson Facility (Vancouver, Canada)
TTF	TESLA Test Facility
UDP	User Datagram Protocol
UML	Unified Modeling Language
VECC	Variable Energy Cyclotron Center (Calcutta, India)
VEPP	Electron-Positron Collider (Novosibirsk, Russia)
VLAN	Virtual Local Area Network
VLT	Very Large Telescope (ESO)
VME	Versa Module European (Crate, module & backplane)
VMEbus	Often used for VME. Not just the VME backplanes.
VMS	Virtual Memory System (DEC)
VUV	Vacuum Ultra-Violet
VXI	VME eXtension for Instrumentation
WAN	Wide Area Network
WIMP	Windows, Icons, Menus and Pointer Interface
WUT	Warsaw University of Technology (Warsaw, Poland)
WWW	World-Wide Web
WYSIWYG	What You See Is What You Get
ZEL	Zentrallabor für Elektronik, FZJ (Jülich, Germany)