ACS  
Active Control System – dynamically controls orientation of primary mirror segments to maintain nominal primary (Primary mirror system).

ADC  
Analog to digital converter – an electronic circuit component that converts a voltage level to a digital value.

AED  
Automatic External Defibrillator (Summit First Aid Room)

ALH  
Alarm Handler – user interface that interfaces to CA or CDEV.

AO  
Adaptive Optics – optical systems that measure and correct wavefront aberrations in real time. (Left Nasmyth platforms)

APC  
Actuator Position Counter – incremental encoder counter reflecting length of ACS actuator relative to a fiducial mark.

API  
Applications Programming Interface – a stable definition of an interface to a software library, which programmers can use in coding.

AR  
Archiver – part of EPICS

AUT  
Autoguider – feedback system which moves the telescope while fixed on a sky object.

AUX crate  
Auxiliary control (VME microcomputer) (Computer rooms)

AXE  
Axis control – DCS subsystem

BS  
Bottom shutter (Keck I & II) (Dome)

CA  
Channel access – the client-server model used in EPICS.

CAKE  
Channel Access Keyword – thin generic software layer providing KTL keyword access to EPICS systems

Caltech  
California Institute of Technology

Capt Marvel  
Radio control used to control Keck I & II domes, shutters, lights, & cranes

CARA  
California Association for Research in Astronomy

CCD  
Charge Coupled Device – image detector technology.

CDEV  
Common Device interface – a layer parallel to KTL, used by MEDM and ALH.

CDR  
Critical Design Review

CFHT  
Canada-France-Hawaii Telescope
CIE crate
Chopper control (VME microcomputer)

CIT
California Institute of Technology

CM
Cassegrain module

COKE
Corba Keyword Interface – layer providing KTL keyword access to CORBA.

COKO
CDEV Object Keyword Orb

CORBA

COTS
Commercial off-the-shelf

CP
Dome Control Panel (Keck I & II) (Dome)

CP1
Dome manual Control Panel (Keck I) (Dome)

CP2
Dome manual Control Panel (Keck II) (Dome)

CVS
Concurrent Version Control – front end to RCS which maintains directory hierarchy of software repository.

DCS
Drive and Control system – TS subsystem. (Computer rooms)

DDL
Device Description Language – MEDM configuration file for specific UI?

DEIMOS
Deep Extragalactic Imaging Multi-Object Spectrograph (Keck II Right Nasmyth Platform)

DM
Deformable mirror (Adaptive Optics)

DOM
Dome control – DCS subsystem

DSM
Dual Star Module

ECR
Engineering change request

EF1
Exhaust fan (Keck I) (Subterranean mechanical room)

EF2
Exhaust fan (Keck II) (Subterranean mechanical room)

ENV
Environmental monitoring – DCS subsystem

EPCOM
EPICS Common Subsystem – EPICS “stuff” shared by various EPICS systems.

EPICS
Experimental Physics and Industrial Control System – a client-server high-efficiency system and development environment. A set of software tools and applications for building control systems.
ESI
Echellette Spectrograph and Imager – versatile, multi-mode spectrograph and imager.
(Keck II)

ESO
European Southern Observatory

EZAR
EeZee Archiver – Keck-modified version of AR

f/15
f/15 top end secondary module (Keck I and II)

f/25
f/25 top end secondary module (Keck I)

f/40
f/40 top end secondary module (Keck II)

FATCAT
Five two-way beam combiners & two cameras that work at two microns

FCM
Forward Cassegrain Module (Keck I)

FDL
Fast delay lines

FFRDC
Federally Funded Research & Development Center

FOV
Field of View

FPA
Focal Plane Array

FRC
Financial Review Committee

FTE
Full-time Equivalent

FWHM
Full-Width Half-Maximum

GENSET
Emergency generator (Next to Keck II machining room)

GFCS
Global facility coordinate system

GI
Guest Investigator

GUI
Graphical user interface

HBS
Hydrostatic bearing system

HIRES
High Resolution Echelle Spectrograph – in-plane echelle spectrograph with grating cross-dispersion

HST
Hubble Space Telescope

ICD
Interface Control Document

IFSM
Infrared Fast Steering Mechanism (f/25 and f/40)

IIOP
Internet InterOrb Protocol – allows communication among different vendors’ ORBs.
IIR
  Instrument Interconnect Rack (Keck I and II computer rooms)

IPAC
  Infrared Processing & Analysis Facility

IR
  Infrared

IS
  Instrument scientist/specialist

ISC
  Interferometer Science Center – administrative body

ISDC
  Interferometer Science Data Center

JDBC
  Java Database Connectivity – allows Java programs to interact with databases in a way that is independent of the specific database.

JLG
  Personnel lift (manufacturer’s name) (Both domes)

JNI
  Java Native Interface

JPL
  Jet Propulsion Laboratory located in Pasadena, California

JRE
  Java Runtime Environment

JUICE
  Java Uniform Interface to COKE Environment

JVM
  Java Virtual Machine – native program that runs Java byte code on a particular physical computer platform.

KAT
  Keck Angle Tracker

KAVA
  Ktl for Java – layer (in Java and C using JNI) implementing server-side RMI over KTL (obsolete in favor of JUICE)

KCAM
  Temporary adaptive optics science camera (Adaptive Optics)

KDSM
  Keck dual star module

KEZAR
  Keck EZAR

KI
  Keck Interferometer

KIA
  Keck Interferometer Array

KIRMOS
  Keck Infrared Multi-object Spectrograph

KISSG
  Keck Interferometer Science Steering Group

KOA
  Keck Observatory Archive

KOFER
  Keyword Orb for Everyone – interface layer between COKE and KTL
KORB
Ktl AAA – layer between KTL and COKE – a CORBA ORB (obsolete in favor of KOFE)

KSD
Keck Software Document – one of a collection of informational documents online

KSS
Keck SubSystems – kroot applications subdirectory containing common subsystems.

KTL
Keck Task Library – a software layer that unifies a number of keyword- oriented technologies under one (C) API

KUI
Keck User Interface – kroot generic UI applications subdirectory.

LDL
Long delay line

LGS
Laser Guide Star

LRIS
Low Resolution Imaging Spectrograph – imaging spectrometer which operates at the f/15 Cassegrain focus of the Keck telescope. (Keck I)

LRIS-B
Blue-side upgrade to the Low Resolution Imaging Spectrograph Keck I

LWIRC
Long Wavelength Infrared Camera

LWS
Long Wavelength Spectrometer – facility instrument that produces diffraction- limited images, low-resolution spectra, and moderate resolution spectra, over the mid- infrared range of 8-25 µm. (Keck I FCM)

MAAlign
Mirror Alignment

MCP
Manual Control Panel (Keck I & II) (Computer rooms)

MEDM
Motif Editor and Display Manager – EPICS user interface tool that interfaces to CA or CDEV.

MICO
Mico is CORBA – CORBA ORB implementation

MIG
Metal inert gas (welding process)

MIKE
Music Keyword Interface – layer providing KTL keyword access to MUSIC.

MIRLIN
Mid-InfraRed Large-well Imager – visiting instrument (Keck II Right Bent Cassegrain

MOWG
Management Operations Working Group

MUSIC
Multi-User System for Instrument Control – control system API from Lick Observatory.

N/LGS
Natural & Laser Guide Star

NA
Night Attendant

NASA
National Aeronautics and Space Administration
NDUT
   Non-destructive ultrasonic testing

NGS
   Natural Guide Star

NIRC
   Near Infrared Camera – designed to produce both infrared images and low-resolution spectra in the 1-5 µm spectral range. (Keck I FCM)

NIRC2
   Dedicated AO science instrument built at Caltech (Keck II AO—future)

NIRSPEC
   Near Infrared Spectrometer – a cryogenic cross-dispersed echelle spectrograph (Keck II Right Nasmyth Platform)

NRA
   NASA Research Announcement

OA
   Observing Assistant

OAP
   Off-axis parabola

ORB
   Object Request Broker – the central “hub” of client-server interactions in CORBA.

OSCIR
   mid-IR camera and spectrometer system - visiting instrument (Keck II Right Bent Cassegrain)

OSIRIS
   OH-Suppressing Infra-Red Imaging Spectrograph. built by UCLA, first light is expected 2004

P2i
   Brand name, vacuum pumping station

PCI
   Personal Computer Interface (an internal computer bus standard)

PCS
   Phasing Camera System (Keck I and II Left Bent Cassegrain)

PDR
   Preliminary Design Review

PI
   Principal Investigator

PIP
   Project Implementation Plan

Pizza Oven
   Main power switch for SAA and AAA (Computer rooms)

PLC
   Programmable Logic Controller (dome/shutter control) (Domes)

PNT
   Pointing control – DCS subsystem

PPC
   Power PC (Motorola processor family)

PTI
   Palomar Testbed Interferometer – provided code modified to control siderostat.

QFIX
   Quick FIX – data base for telescope systems parameter tweaks.

RA
   Remote Agent – a NASA/Ames project, descheduled from interferometer project
RCS  Revision Control System – software tool.
RICST  Real-time Interferometer Control System Testbed
RICST  Real time control system from JPL
RMI  Remote Method Invocation – Sun technology for implementing Java method calls across a network.
RPC  Remote Procedure Call – Sun technology for implementing C function calls across a network.
SA  Support Astronomer
SAA  Servo Amplifier Assembly (telescope drives)  (Computer rooms)
SCAM  NIRSPEC internal slit-viewing camera to be used with adaptive optics
SCC  Software Coordination Committee – administrative body to coordinate use of tools and technologies.
SDC  Science Data Center
SEC  Secondary mirror control – DCS subsystem
SIDS  Siderostat (Outside domes)
SIM  Space Interferometer Mission
SSC  Science Steering Committee – group of representatives from UC and Caltech who determine the development and use and direction of WMKO instruments.
SSC  Star-Stacking Camera (Left Bent Cassegrain)
STB  Save The Bits – Keck data archive software
STEPS  Stellar Planetary Survey, CCD astrometry program – visiting instrument
STScI  Space Telescope Science Institute
TAC  Time Allocation Committee
TDC crate  Telescope Drive Control (VME microcomputer)  (Computer rooms)
TERT  Tertiary module (Keck I and II)
TIG  Tungsten inert gas (welding process)
TOPS  Toward Other Planetary Systems
TOTS  Temporary Optical Test Site  (Outside domes)
TPFA
Terrestrial Planet Finder Array

TS
Top shutter (Keck I & II)

UAE
Universal Applications Environment – EPICS extension that uses CVS to make and manage releases.

UC
University of California

UI
User interface

V2
Visibility (modulus) squared

VDL
Vacuum Delay Line = underground pipes to bring the light from outrigger telescopes to the Keck basement. These are pumped out continuously to remove air in them in order to improve the "seeing" in the pipes.

VME
VersaModule Eurocard bus

VME
Virtual Memory Extension (a computer bus standard)

WAN
Wide Area Network

WBS
Work Breakdown Structure

WMKO
W.M. Keck Observatory

XFM
Transfer module (Keck I and II)