

# DoD High Performance Computing Modernization Program

## Acronym List



## Commonly used HPCMP Acronyms

1-D	one-dimensional	ACAT III	Acquisition Category III
2-D	two-dimensional	ACAT IV	Acquisition Category IV (Navy & Marine Corps only)
3-D	three-dimensional	ACE	advanced computational environments
3 DES	triple data encryption standard	ACE-IT	US Army Corps of Engineers Enterprise Information Technology
<b>-A-</b>			
A&T	acquisition and technology	ACETEF	Air Combat Environment Test and Evaluation Facility
AAAA	authentication, authorization, accounting and auditing; authentication, authorization, accounting and address	ACL	access control list
AAC	Air Armament Center (USAF); activity address code	ACM	Association for Computing Machinery
AAL	asynchronous transfer mode adaptation layer	ACOM	Atlantic Command
AAV	amphibious assault vehicles	ADA	atmospheric decision aid
ABC	Army Benefits Center	ADC	application distribution center; allocated delivery controller
ABL	airborne laser	ADM	acquisition decision memorandum
AC	alternating current; anomaly correlation	ADP	automated data processing
ACAD	automated computer-aided design	ADR	adiabatic demagnetizing refrigerator
ACAS	assured compliance assessment solution	AD RMS	active directory rights management services (server)
ACAT	Acquisition Category	ADVENT	adaptive versatile engine technology
ACAT I	Acquisition Category I	AECA	Arms Export Control Act
ACAT IA	Acquisition Category I "Major Automated Information Systems"	AEDC	Arnold Engineering Development Center
ACAT IAC	Acquisition Category I Major Automated Information Systems" Component Program	AEF	air expedition force
ACAT IAM	Acquisition Category I "Major Automated Information Systems"	AEOS	advanced electro-optical system
ACAT IC	Acquisition Category I "Component" Program	AEP	Affirmative Employment Plan
ACAT ID	Acquisition Category I "Defense Acquisition Board" Program	AF	Air Force
ACAT II	Acquisition Category II	AFB	Air Force Base
		AFC	active flow control
		AFDC	Air Force Doctrine Center
		AFDD	Aeroflight Dynamics Directorate
		AFDTC	Air Force Development Test Center

AFFTC	Air Force Flight Test Center	AIS	automated information system(s)
AFGROW	Air Force Crack Growth Program	AITS	Advanced Information Technology Services
AFIT	Air Force Institute of Technology	AITS-JPO	Advanced Information Technology Services - Joint Program Office
AFOSR	Air Force Office of Scientific Research	AJPO	ADA Joint Program Office
AFOTEC	Air Force Operational Test and Evaluation Center	ALCON	all concerned
AFRL	Air Force Research Laboratory	ALCV	advanced land combat vehicle
AFRL/RD	Air Force Research Laboratory, Directed Energy Directorate	ALE	acquisitions, logistics, engineering; application launching and embedding; arbitrary Lagrangian-Eulerian (code)
AFRL/RB	Air Force Research Laboratory, Air Vehicles Directorate	ALE 3D	application launching and embedding three-dimensional
AFRL/RH	Air Force Research Laboratory, Human Effectiveness Directorate	AMCOM	Army Aviation and Missile Command
AFRL/RI	Air Force Research Laboratory, Information Directorate	AMOS	Air Force Maui Optical Station
AFRL/RV	Air Force Research Laboratory, Space Vehicles Directorate	AMRDEC	Army Aviation and Missile Research Development and Engineering Center
AFRL/RW	Air Force Research Laboratory, Munitions Directorate	AMRIID	US Army Medical Research Institute of Infectious Diseases
AFRL/RX	Air Force Research Laboratory, Materials and Manufacturing Directorate	AMSAA	Army Material System Analysis Agency; Army material system analysis activity
AFRL/RY	Air Force Research Laboratory, Sensors Directorate	ANL	Argonne National Laboratory
AFSEO	Air Force SEEK EAGLE Office	AO	authorizing official
AFTAC	Air Force Technical Applications Center	AoA	analysis of alternatives; area of action (US DoD)
AFWA	Air Force Weather Agency	AOC	Army Operations Center
AGARD	Advisory Group for Aerospace Research and Development (NATO)	AODR	authorizing official designated representative
AGILE	air ground integrated layer exploration	APB	acquisition program baseline
AHPCRC	Army High Performance Computing Research Center	APC	Agency Program Controller
AIC	air interoperability center	APCRC	Atmospheric Pressure Combustor Research Complex (AFRL)
AIP	ATM interface processor; active information portal; adaptive internet protocol; air-independent propulsion	APG	Aberdeen Proving Ground; adverse pressure gradient
		API	application program interface
		APPMS	Automated Personal Property Management System

ARC	affiliated resource center	ASuW	anti-surface warfare
ARDEC	Armament Research Development and Engineering Center	ASW	anti-submarine warfare
ARIN	American Registry for Internet Numbers	ATC	Aberdeen Test Center; authority to connect
ARL	Army Research Laboratory	ATCOM	Aviation and Troop Command (Army)
ARL/ WMRD	Army Research Laboratory Weapons and Materials Research Directorate	AT&L	acquisition, technology and logistics
ARM	Acorn RISC machine	ATD	authorization termination date
ARO	Army Research Office	ATEC	Army Test and Evaluation Command
ARP	address resolution protocol	ATF	Alcohol, Tobacco, Firearms and Explosives, Bureau of
ARSC	Arctic Region Supercomputing Center	ATFLIR	advanced targeting forward- looking infrared
AS	autonomous system	ATIRS	Army test incident reporting system
ASA	Assistant Secretary of the Army	ATM	asynchronous transfer mode
ASA (ALT)	Assistant Secretary of the Army for Acquisition, Logistics and Technology	ATO	authorization to operate
ASA (R&T)	Assistant Secretary of the Army, Research and Technology	ATR	automatic target recognition
ASC	aeronautical systems center	ATTD	authority to transmit data
ASD	Assistant Secretary of Defense	AUP	Acceptable Use Policy
ASD (C3I)	Assistant Secretary of Defense, Command, Control, Communications and Intelligence	AUV	autonomous underwater vehicle
ASD (NII)	Assistant Secretary of Defense, Networks and Information Integration	AV	air vehicles
ASD (R&E)	Assistant Secretary of Defense, Research and Engineering	AVUS	air vehicles unstructured solver (formerly Cobalt)
ASIC	application-specific integrated circuit		<b>-B-</b>
ASN	autonomous system number	BA	budget analyst; business analyst
ASNet	Army supercomputing network	BAMS	broad-area maritime surveillance
ASPIRE	advanced speckle image recovery environment	BEA	Bureau of Economic Analysis
ASSET	advanced ship and submarine evaluation tool	BEI	Battlespace Environments Institute
ASSP	Army S&T Strategic Plan	BFC	battle force capable
AST	Atlantic Standard Time (non- daylight savings time)	BFI	bullet and fragment impact
		BGP	border gateway protocol
		BHSAI	Biotechnology HPC Software Applications Institute
		BIOS	basic input/output system; binary operating system; built- in operating system
		BIS	Bureau of Industry and Security (Commerce)

BISDN	broadband integrated services digital network	C4I	command, control, communications, computers, and intelligence
BL	bioluminescence		
BLM	Bureau of Land Management	C4CM	command, control, communications and computer countermeasures
BLS	Bureau of Labor Statistics		
BM	benchmark		
BMA	business mission area	C4IFTW	command, control, communications, computers and intelligence for the warrior
BMD	ballistic missile defense		
BMDO	Ballistic Missile Defense Organization; ballistic missile defense operations	C4ISR	command, control, communications, computers, intelligence, surveillance, and reconnaissance
BMDS	ballistic missile defense system		
BOA	basic ordering agreement		
BoD	Board of Directors	C4S	command, control, communications and computer systems; command, control, communications, computers and surveillance
BPPP	Blast Protection for Platforms and Personnel		
BP3I	Blast Protection for Platforms and Personnel Institute		
BRAC	base realignment and closing	C&A	certification and accreditation
BTS	Bureau of Transportation Statistics	CA	certificate authority
		CAC	common access card
BU	bargaining unit (employees – refers to Government Unionized Employees)	CAC UBE	common access card – User-Based Enforcement
		CAE	Chief Audit Executive
BVA	Board of Veterans’ Appeals; Bureau of Veterans’ Affairs	CAGR	compound annual growth rate
		CAIV	cost as an independent variable
BVI	blade-vortex interaction	CAP	capability applications project; connection approval process
BW	bandwidth		
		CARD	cost analysis requirement description
	<b>-C-</b>		
C2	command and control	CARS	consolidated acquisition reporting system
C3I	command, control, communications, and intelligence	CASTLE	Center for Aircraft Structural Life Extension Program (Air Force)
C3IC	Coalition Coordination, Communications and Integration Center	CAT	category; referring to the 8 security incident categories used by DREN
C3SMP	command, control and communication systems master plan	CBA	cost/benefit analysis
		CBD	chemical/biological defense; Commerce Business Daily
C3-T	command, control and communications - tactical		
		CBE	computationally-based engineering
C4	command, control, communications, and computers	CBO	Congressional Budget Office
		CBT	computer-based training

CBTA	covariance-based track association	CEFMS	Corps of Engineers Financial Management System
CCAC	Consolidated Customer Assistance Center	CEM	computational electromagnetic
CCB	configuration control board	CEN	computational electronics and nanoelectrics
CCD	charge coupled device	CEO	Chief Executive Officer
CCI	controlled cryptographic item; control correlation identifier	CER	cell error rate
CCM	computational chemistry and materials science	CERL	Construction Engineering Research Laboratory (ERDC – Champaign)
CCS	Institute for Defense Analyses Center for Computing Sciences; command and control systems	CERS	Civilian Employee Retirement System
CCW	counter-clockwise	CERT	Computer Emergency Response Team
CD	cross-domain	CEWES	Corps of Engineers Waterways Experiment Station (now ERDC)
CD&A	conceptual design and analysis	CF	computational function
CDAAC	Classified Data Analysis and Assessment Center (ARL)	CFD	computational fluid dynamics
CDB	configuration database	CFO	Chief Financial Officer
CDC	Centers for Disease Control and Prevention	CFR	Code of Federal Regulations
CDF	combined-diffuser flameholder; cumulative distribution functions	CFS	Contract Field Service
C/DIT	correlation/decorrelation interoperability test	CHL	Coastal and Hydraulics Laboratory (ERDC)
CDLT	collaborative and distance learning technologies	CHSSI	Common HPC Software Support Initiative
CDN	content delivery network; content distribution network	CI	configuration item; counterintelligence
CDP	Career Development Plan	CIA	Central Intelligence Agency
CDRL	contract data requirements list (DoD)	CIC	Commander-in-Chief; Communication Interface Controller (DoD)
CDS	cross-domain solution	CID	combat identification
CDT	Central Daylight Time (2nd Sunday in March – 1st Sunday in November)	CIO	Chief Information Officer
CDV	cell delay variation	CISD	Center for Innovation in Ship Design (Navy)
CEA	computational electromagnetic and acoustics; Council of Economic Advisors	CISS	Center for Information Systems Security (DISA)
CECOM	Communications Electronics Command	CIV	Civilian Government Employee
CE	computational environment	CJCS	Chairman of the Joint Chiefs of Staff
		CJCSI	Chairman of the Joint Chiefs of Staff - Instruction
		CLI	call-level interface; command line interface; command line interpreter

CLIN	contract line-item number	COMA	Cache-Only Memory Access
CLP	cell-loss priority	COM-	
CLR	cell-loss ratio	OPTEV	Commander, Operational Test and Evaluation Force
CLS	contracted logistic support (DoD); coupled length-scales	COMSAC	computational stability and control
CM	configuration management	COMSEC	communications security
CMC	Crisis Management Center	CONUS	continental United States
CME	chemical master equation; chemical and materials engineering	COOP	continuity of operations; continuity of operations plan
CMFT	condensed-matter field theory	COR	contract officer's representative
CMMI	capability maturity model integration	COTR	contract officer's technical representative
CMR	cell misinsertion rate	COTS	commercial off-the-shelf
CMRS	continuous monitoring risk scoring	CPAC	Civilian Personnel Advisory Center
CMU	Carnegie Mellon University	CPAD	Civil Property Authorization Document
CND	computer network defense	CPAF	cost plus award fee (contract)
CNDSP	computer network defense service provider	CPE	customer premise equipment (telecommunications provisioning)
CNMOC	Commander, Naval Oceanography and Meteorological Center	CPFF	cost plus fixed-fee (contract)
CNO	Chief of Naval Operations	CPU	central processing unit
CNSS	Committee on National Security Systems	CR	Continuing Resolution
CNSSI	Committee on National Security Systems Instruction	CRA	Community Reinvestment Act
CNSSP	Committee on National Security Systems Policy	CRADA	cooperative research and development agreement
CNT	carbon-nanotube	CRC	cyclic redundancy check; cyclical redundancy checking; cyclic redundancy code
CO	contracting officer; contracting official; Commanding Officer	CREATE	Computational Research and Engineering Acquisition Tools and Environments
COAMPS®	Coupled Ocean and Atmosphere Mesoscale Prediction System	CRES	Computational Research for Engineering and Science (follow-on to CREATE)
COB	close of business	CRP	Central Receiving Point
COE	certificate of eligibility (DoD); Corps of Engineers	CRREL	Cold Regions Research and Engineering Laboratory (ERDC – Hanover)
COEA	cost and operational effectiveness analysis	CRV	curved radial vane
COI	critical operational issue; community of interest	CSA	comprehensive security assessment
COIC	critical operation issues and criteria	CSB	Configuration Steering Board

CSC	Combat Support Center (DoD); Command & Staff College; Commander-in-Chief's strategic concept (DoD); cost and schedule control (DoD); creeping line single-unit coordinated (DoD)	CV	curriculum vitae
		CVE	common vulnerabilities and exposures
		CW	clockwise
		CWC	composite worst case
		CWFS	Center-wide filing system
		CWITT	C3I and Weapons S/H/L Systems Integrated Test Team
CSCI	computer software configuration item; computer system configuration item	CWO	climate/weather/ocean; climate/weather/ocean modeling and simulation
CSD	computational structural dynamics		
			-D-
CSDP	Command Supply Discipline Program	DA	Department of the Army
CSE	computational support environment	DAA	designated approving (or approval) authority
CSI	common scalable infrastructure	DAAC	Data Analysis and Assessment Center
CSIP	Cyber Security Inspection Program	DAAR	designated approval (or approving) authority representatives
CSLA	Communications Security Logistics Agency	DAB	Defense Acquisition Board
CSM	computational structural mechanics	DAMPS	DREN active measurement systems
CSR	customer service representative	DAPE	deny all, permit by exception
CSS	Central Security Service	DAR	Defense Acquisition Regulation
CSSO	Contractor Special Security Officer	DARE	Defense Anti-Reconnaissance Engine
CST	collaborative simulation and testing	DARPA	Defense Advanced Research Projects Agency
CSTA	combat systems test activity	DARPA	
CSU	channel service unit	HPC	Defense Advanced Research Projects Agency High Productivity Computing Systems
CT	capability test		
CTA	computational technology area		
CTAAP	CTA Advisory Panel		
CTD	cell transfer delay	DART	Design through Analysis Realization Team; data assimilation research test bed
CT&E	certification, testing and evaluation		
CTO	Chief Technology Officer	DASA	
CTP	critical technical parameter(s)	(R&T)	Deputy Assistant Secretary of the Army, Research and Technology
CTR	contractor (email identifier)		
CUDA	compute unified device architecture	DASD	
CUI	controlled unclassified information		

(DT&E)	Deputy Assistant Secretary of Defense for Developmental Test and Evaluation	DHS	Department of Homeland Security
DATO	denial of authorization to operate	DIA	Defense Intelligence Agency
DAU	Defense Acquisition University	DIACAP	DoD information assurance certification and accreditation process
DBA	database administrator; direct budget authority	DIAS	distributed INFOSEC accounting system
DBOF	Defense Business Operations Fund	DIB	defense industrial base
DC	Distributed Center(s); direct current	DID	data item description
DCAA	Defense Contract Audit Agency	DII	defense information infrastructure
DCIPS	Defense Civilian Intelligence Personnel System	DIKW	date, information, knowledge and wisdom
DCMO	Deputy Chief Management Office	DIMA	DoD portion of the intelligence mission area
DCN	DREN core node	DIOT	Distributed Implementation and Operations Team
DPCDS	Defense Civilian Personnel Data System	DIRNSA/ CHCSS	Director, National Security Agency/Chief, Central Security Service
DCSLOG	Deputy Chief of Staff, Logistics	DIS	daily intelligence summary (DoD); data-intensive systems; distributed interactive simulation
DD	Department of Defense form	DISA	Defense Information Systems Agency
DDR&E	Director of Defense Research and Engineering (now ASD-R&E)	DISC	DREN Inter-site Services Contract
DDT	deflagration-to-detonation transition	DISES	Defense Intelligence Senior Executive Service
DDVPC	DoD Digital Voice Processor Consortium	DISN	Defense Information Systems Network
DE	directed-energy	DISNET	Defense Integrated Secure Network
DEA	Drug Enforcement Agency	DISO	Defense Information Systems Organization; Defense Information Systems Office; Defense Intelligence Support Office (DoD)
DEM	digital evaluation model		
DES	data encryption standard; discrete event simulation		
DEW	directed-energy weapons		
DFAR	Defense Federal Acquisition Regulation		
DFARS	Defense Federal Acquisition Regulation Supplement		
DFS	distributed file system		
DFT	density functional theory; discrete Fourier transform		
DFTB	density functional theory-based tight-binding	DITCO	Defense Information Technology Contracting
DHPI	Dedicated HPC Project Investment		

	Organization; Development and International Trade Company	ISRCM	DoD Information Security Risk Management Committee
DITMS	Defense Information Technology Management System	DoD M	DoD Manual
DITPR	DoD Information Technology Portfolio Repository	DOE	Department of Energy
DITSCAP	DoD information technology security certification and accreditation process	DOEA	Department of Defense education activity
DISNET	Defense Integrated Secure Network	DOE	
DITSWG	Defense Information Technology Security Working Group	INCITE	DOE Innovative and Novel Computational Impact on Theory Experiment Program
DLA	Defense Logistics Agency; dynamic loading approach	DOE/PPL	DOE/Princeton Plasma Physics Laboratory
DMA	Defense Mapping Agency; direct memory access	DOF	degrees-of-freedom
DMSO	Defense Modeling and Simulation Office	DOJ	Department of Justice
DMZ	demilitarized zone	DOL	Department of Labor
DNA	digital network architecture; direct network access; dynamic network architecture	DoS	denial of service
DNFSB	Defense Nuclear Facilities Safety Board	DOT	Department of Transportation
DNI	Director of National Intelligence	DOT&E	Director, Operational Test and Evaluation
DNS	domain name server; digital network switch; direct numerical simulation; domain name service	DPA	delegation of procurement authority
DOA	delegation of authority	DPG	Dugway Proving Ground
DoD	Department of Defense	DPM	discrete phase model
DoDAAC	Department of Defense activity address code	DPP	data patch processing
DoD CIO	DoD Chief Information Officer	DPW	Directorate of Public Works
DoDD	Department of Defense Directive	DREN	Defense Research and Engineering Network
DoDI	Department of Defense Instruction	DRM	Directorate of Resource Management
DoD IIS	DoD Intelligence Information System	DRMO	Defense Reutilization and Marketing Office; Defense Reutilization Management Office
DoD		DRMS	Defense Reutilization and Marketing Service
		DRP	disaster recovery plan
		DRU	direct reporting unit
		DS	delivery service; digital service; digital signal
		DSA	digital signature algorithm
		DSAWG	Defense IA Security Accreditation Working Group
		DSN	Defense Switched Network (formerly AUTOVON)
		DSP	dedicated support partitions

DSRC	DoD Supercomputing Resource Center	EBE	electronic battlefield environment
DSS	Defense Security Service; digital signature standard	eBGP	external border gateway protocol
DSU	digital service unit	ECDSA	elliptic curve digital signature algorithm
DSWA	Defense Special Weapons Agency	ECFM	extended coherent flamelet model
DSWAG	Defense Information Systems Network Security Authorization Working Group	ECM	enterprise configuration management
DT	developmental test; durability tolerance	EDT	Eastern Daylight Time (2nd Sunday in March – 1st Sunday in November)
DTD	data transfer service	EEO	equal employment opportunity
DT&E	development, test and evaluation	EPF	explosively formed penetrator
DTIC	Defense Technical Information Center	EFS	encrypted file system
DTM	directive-type memorandum	EI	emotional intelligence
DTO	defense technology objectives	EL	Environmental Laboratory (ERDC – Vicksburg)
DTRA	Defense Threat Reduction Agency	ELT	effectiveness level test(ing)
DTSA	Defense Technology Security Administration	EM	electromagnetic
DUSD		EMP	electromagnetic pulse
(S&T)	Deputy Under Secretary of Defense (Science and Technology)	EN	engineer's note
DVE	degraded visual environment	ENS	electronics, networking, and systems/C4I
DVMRP	distance vector multicast routing protocol	EO	Executive Order
DYSMAS	dynamic systems mechanic-advanced simulation	EOA	early operational assessment
		EOB	External Oversight Board
		EOD	end of day
		EOF	empirical orthogonal functions
		EOFY	end of Fiscal Year
		EOTC	education, outreach, and training coordination
		EPA	Environmental Protection Agency; enhanced performance architecture
	-E-		
E2C	energy-efficient computing		
E3	end-to-end encryption; electromagnetic environmental effects	EP&R	emergency preparedness and response
EA	economic analysis	EPIC	elastic-plastic impact computations
EAL	evaluation assurance level	EQM	environmental quality modeling and simulation
EAP	employee assistance program		
EAR	Export Administration Regulation	ERC	external review committee
EAS	energy-aware scheduler	ERDC	Engineer Research and Development Center (USACE)

		FCIC	Federal Crop Insurance Commission
ERDC- CRREL	Engineer Research and Development Center-Cold Regions Research and Engineering Laboratory	FCS	future combat systems; flight control system
		FDA	Food and Drug Administration
		FDTD	finite difference time domain
ERDEC	Edgewood Research, Development and Engineering Center	FEA	Federal Enterprise Architecture
		FEDS	Federal Disposal System
ERS	engineered resilient systems	FEGLI	Federal Employees Group Life Insurance
ESD	Enterprise Service Desk (refers to the ACE-IT service desk/help desk)	FEHB	Federal Employees Health Benefits
ESI	enterprise software initiative	FEM	finite element method
ESM	enterprise security management; enterprise system monitoring	FEMA	Federal Emergency Management Agency
ESMF	earth system modeling framework	FERS	Federal Employees Retirement System
ESNet	energy sciences network	FFP	firm-fixed price (contract)
EST	Eastern Standard Time	FFT	fast Fourier transform
ET	enabling technologies; Eastern time	FIDL	fully-integrated data link
ETC	electro-thermal chemical	FIP	Federal information processing
ETP	enterprise transition plan	FIPS	Federal information processing standard
EUV	extreme ultraviolet; end-user virtualization	FIRMR	Federal Information Resources Management Regulation
EW	electronic warfare	FISMA	Federal Information Security Management Act
	<b>-F-</b>	FIX	Federal internet exchange
FAA	Federal Aviation Administration	FLAPW	full-potential linearized augmented plane-wave
FAO	Federal Approving Officer	FLE	fatigue life expended
FAQ	frequently asked questions	FLIR	forward-looking infrared
FAR	Federal Acquisition Regulation; Federal Aviation Regulation	FLOPS	Floating-point Operations per Second
FAS	Federation of American Scientists	FMS	forces modeling and simulation; full mission simulator; Financial Management Service
FAST	field-assisted sintering technology	FMS/C4I	forces modeling and simulation of command, control, communications, computers and intelligence
FASTER	Federal Agency Administration of Science and Technology Education and Research	FNDT	future narrowband digital terminal
FCC	Federal Communications Commission	FNMOC	Fleet Numerical Meteorology Oceanography Center

FOA field operation activities; field operating activities  
 FOC full operational capability  
 FOIA Freedom of Information Act  
 FOIRL fiber-optic inter-repeater link  
 FOT&E follow-on operational test and evaluation; final operational test and evaluation;  
 FOUO For Official Use Only  
 FPGA field-programmable gate arrays  
 FR Federal Register  
 FSI fluid-structure interaction  
 FSO Field Security Office  
 ftp file transfer protocol  
 FTS Federal Technology Service  
 FVL future vertical lift  
 FWP Federal Women’s Program  
 FY fiscal year  
 FYSA for your situational awareness

**-G-**

GAIM global assimilations of ionospheric measurements  
 GAL global address list  
 GAO General Accounting Office  
 GATT General Agreement on Tariffs and Trade  
 GB gigabyte  
 Gbps gigabits per second; gigabytes per second  
 GCCS Global Command and Control System  
 GF gigaflop  
 GFDL Geophysical Fluid Dynamics Laboratory  
 GFE government-furnished equipment  
 GFLOPS gigaflops  
 GFS global forecast system  
 GF-yrs gigaflop-years  
 GGA generalized gradient approximation  
 GIG Global Information Grid  
 GMT Greenwich Mean Time  
 GOFS global ocean forecast system

GOSIP government open-system interconnection profile  
 GOTS government off-the-shelf  
 GPO Government Printing Office  
 GPU graphics processing unit(s)  
 GPFS general parallel file system  
 GPGPU general-purpose computing on graphics processing unit(s)  
 GPS global positioning system  
 GRE generic routing encapsulation  
 GSA General Services Administration  
 GSFC Goddard Space Flight Center  
 GSL Geotechnical and Structures Laboratory (ERDC – Vicksburg)  
 GT gas turbines  
 GTCC government travel charge card  
 GUI graphical user interface  
 GV ground vehicle  
 GVS ground vehicle simulator  
 GWAC government-wide acquisition contract  
 GWEF Guided-weapons Evaluation Facility (AF)  
 GWOT global war on terror

**-H-**

HADT Hawaii-Aleutian Daylight Time (2nd Sunday in March – 1st Sunday in November)  
 HAIPE high-assurance internet protocol encryptor  
 HASI HPCMP Applications Software Initiative  
 HAST Hawaii-Aleutian Standard Time (non-daylight savings time)  
 HAZMAT hazardous materials  
 HBCU historically black colleges and universities  
 HBSS host-based server system; host-based security system  
 HDF hierarchical data format  
 HEC IWG Interagency Working Group on High-end Computing  
 HEDM high-energy density materials

HEETE	highly energy-efficient turbine engine	HPTi	High Performance Technologies, Incorporated
HEUE	HPC enhanced user environment	HQ	headquarters
HHS	Department of Health and Human Services	HQDA	Headquarters, Department of the Army
HI-ARMS	HPC Institute for Advanced Rotorcraft Modeling and Simulation	HQUSACE	Headquarters, United States Army Corps of Engineers
HIC	Hawaiian Internet Consortium	HRA	Hand Receipt Account (in property management)
HIP	High Performance Computing Internship Program	HRH	Hand Receipt Holder (in property management)
HIPAA	High-assurance Portability and Accountability Act	HRSA	Health Resources and Services Administration
HiPPI	high-performance parallel interface	HSAI	High Performance Computing Software Applications Institute
HIS	hyper-spectral imaging	HIS	hyper-spectral imaging
HITL	human-in-the-loop	HSMS	HPM simulation management software
HLD	high-loading density	HTML	hypertext mark-up language
HME	homemade explosives	HTTP	hypertext transfer protocol
HP	Hewlett Packard; high-performance	HUD	Department of Housing and Urban Development
HPAC	hazard prediction and assessment capability	HW	hardware
HPC	high performance computer; high performance computing	HWIL	hardware-in-the-loop
HPCAC	High Performance Computing Advisory Council	HYCOM	hybrid coordinate ocean model
HPCAP	High Performance Computing Advisory Panel		-I-
HPCC	High Performance Computing Centers; high-performance computing and communication	IA	information assurance
HPCCIT	high-performance computing, communications and information technology	IaaS	infrastructure-as-a-service
HPCMO	High Performance Computing Modernization Office	I&A	identification and authentication
HPCMP	High Performance Computing Modernization Program	IAB	Internet Architecture Board
HPCMPO	High Performance Computing Modernization Program Office	IAM	Information Assurance Manager
HPF	high-performance FORTRAN	IAO	Information Assurance Officer
HPM	high-power microwave	IAP&T	IA policy and technology
HPN	high-performance network	IATC	interim approval to connect; interim authority to connect
		IATF	information assurance technical framework; information assurance technology framework
		IATO	interim authority to operate; interim approval to operate
		IATTD	interim authority to transmit data

IAV	information assurance vulnerability	IFC	International Finance Corporation
IAVA	information assurance vulnerability alert	iFL	interim fast lane
IAVB	information assurance vulnerability bulletin	IG	Inspector General
IAVM	information assurance vulnerability management	IGCE	independent government cost estimate
IAVT	information assurance vulnerability technical advisories	IGMP	internet group management protocol
IAW	in accordance with	IGV	inlet guide vane
IB	interface builder; InfiniBand	IHAAA	Institute for HPC Applications to Air Armament
IBAR	integrated battlespace arena	IHDE	integrated hydrodynamics design environment
iBGP	internet border gateway protocol	IIPT	Integrating Integrated Product Team
ICD	initial capabilities document	IIS	internet information services
ICMP	internet control and management protocol; internet control message protocol	IKE	internet key exchange
ICN	integrated computing network; interface control net (DoD)	ILANS	in-situ large antenna aperture and array simulations
ICSA	International Computer Security Association	ILM	information lifecycle management
ID	identification; intrusion detection	ILSP	integrated logistics support plan; integrated logistics support procedure; integrated logistics support program
IDA	Institute for Defense Analyses	IM	insensitive munitions; instant messenger; integrated munitions
IDIQ	indefinite-delivery/indefinite-quantity (contract)	IMEA	integrated munitions effects assessment; integrated munitions effectiveness analysis; interactive multi-variant environmental analysis
IDL	interactive data language	IM/IT	Information Management and Information Technology
IDO	initial defensive operations	IMLS	Institute of Museum and Library Sciences
IDP	individual development plan	IMP	information management plan
IDREN	interim defense research and engineering network	IMPAC	international merchant purchase authorization card
IDS	intrusion detection system	IMT	integrated modeling and test environments
IDT	ignition delay time	IMTPS	Institute for Maneuverability and Terrain Physics Simulation
IE	information environment		
IED	improvised explosive device(s)		
IEEE	Institute of Electrical Electronics Engineers		
IER	independent evaluation report		
IETF	Internet Engineering Task Force		
IEW	intelligence electronic warfare		

IMTTP	insensitive munitions technology transition program	ISR	intelligence, surveillance and reconnaissance
INFOCON	information operations condition	I-SSA	Institute for Space Situational Awareness
INFOSEC	information security; information systems security	ISSAA	Information Systems Selection & Acquisition Agency (Army)
INT	Institute for Nuclear Theory	ISSM	Information System Security Manager
INTERPOL	International Criminal Police Organization	ISSO	Information System Security Officer
IO	information output	ISSP	information system security plan
I/O	input/output; interoperability	ISV	independent software vendor
IOC	initial operating capability; input/output controller	IT	information technology
IOP	inherent optical properties	ITA	International Trade Administration
IO RANGE	information operations range	ITAR	International Traffic in Arms Regulation
IOT&E	initial operational test and evaluation	ITB	inter-turbine burner
IP	internet protocol	ITIPS	Information Technology Investment Portfolio System
IPA	Intergovernmental Personnel Act	ITL	Information Technology Laboratory
IPC	initial production capability; initial performance capability; initial proof-of-concept	ITU	International Telecommunications Union (United Nations)
IPS	in-plane switching; instructions per second	IV&V	independent verification and validation
IPSEC	internet protocol security	IWARS	infantry warrior simulation
IPT	integrated product team	IWG	Interagency Working Group
IPv4(v6)	Internet Protocol, version 4 (version 6)	IXC	inter-exchange carrier
IR	infrared		
IRCC	inter-range control center		
IRM	information rights management (server)		
IRS	Internal Revenue Service	J9	Joint Experimentation Directorate
IRST	infrared search and track (DoD)	JAG	Judge Advocate General; Joint Acquisition Group (DoD)
IRT	incident response team	JAGM	joint air-to-ground missile
IS	information system	JCAS	joint close-air support
ISAT	initial surface absorption test; integrated situation awareness and targeting; interim software acceptance test	JCDSA	Joint Center for Satellite Data Assimilation
ISO	Industry Standards Organization	JCS	Joint Chiefs of Staff
ISOO	Information Security Oversight Office	JEFX	joint expeditionary force experiment
ISP	internet service provider		

-J-

JEOM	Joint Educational Opportunities for Minorities	KEI	kinetic energy interceptor
JET	Joint Engineering Team	KO	Contracting Officer
JFCOM	Joint Forces Command	KPP	key performance parameter
JFSC	Joint Forces Staff College		
JHL	joint heavy lifting		
JIAMDO	Joint Integrated Air & Missile Defense Office		-L-
JITC	Joint Interoperability Test Command	LA	legislative affairs
JMETC	joint mission environment test capability	LAC	Logistics Activity Center
JML	joint model library	LAN	local-area network
JNIC	Joint National Integration Center	LANE	local-area network emulation
JNICRDC	JNIC Research and Development Contract	LBNL	Lawrence Berkeley National Laboratory
JNTF	Joint National Test Facility	LC	lifecycle
JPAS	joint personnel adjudication system	LCAA	Local Commander Authorized Approval
JPO	Joint Program Office	LCAC	landing craft air cushion
JSF	joint strike fighter	LCC	lifecycle cost; local control center
JSTARS	Joint Surveillance and Target Attack Radar System	LCCE	lifecycle cost estimate
JTEN	Joint Training and Experimentation Network (US Joint Forces Command)	LCM	lifecycle management
JTF	Joint Task Force	LCO	limit-cycle oscillation
JTF-CNO	Joint Task Force – Computer Network Operations	LCP	large-caliber penetrator
JTF-GNO	Joint Task Force – Global Network Operations	LCP&FD	Laboratory for Computational Physics and Fluid Dynamics
JTPA	Job Training Partnership Act	LCS	Littoral Combat Ship
J-UCAS	Joint Unmanned Combat Air Systems	LDA	local density approximation
JWCO	Joint Warfighting Capability Objective	LDAP	lightweight directory access protocol
JSIVA	Joint Staff Integrated Vulnerability Assessment	LDD	lost, damaged or destroyed
	-K-	LDP	Logistics Delivery Point
KASSPER	knowledge-aided sensor signal processing with expert reasoning	LEAPS	leading-edge advanced prototyping for systems
KE	kinetic energy	LEC	local exchange carrier
		LED	light-emitting diode(s); loop encryption device
		LEF	leading-edge flaps
		LES	large-eddy simulation
		LEV	leading-edge vortex
		LHA	Amphibious Assault Ship-Tarawa class
		LHD	Amphibious Assault-Ship Wasp Class
		LIDAR	light detection and ranging
		LL	legislative liaison

LLNL	Lawrence Livermore National Laboratory	MDT	Mountain Daylight Time (2nd Sunday in March – 1st Sunday in November)
LMER	Labor and Management Employee Relations	MELP	mixed excitation linear prediction; mixed excitation linear predictive
LOD	level of detail	MEMS	microelectro-mechanical systems
LOG	Logistics Directorate	METOC	Meteorological and Oceanographic; Mission Essential Meteorological and Oceanographic Center
LSA	logistics support analysis	MFA	multi-functional antenna
LSN	large-scale network	MFDT	multi-functional damage tolerant
LST	linear stability theory	MFLOPS	megaFLOPS (equal to one million floating-point operations per second)
LULC	land-use land-cover	MFR	memorandum for record
LVC	live, virtual and constructive	MFS	manned flight simulator
LWIR	long-wave infrared	MFT	multiphase flow target response
<b>-M-</b>			
MAC	media access control; mission assurance category; machine-aided cognition	MG	meshing and geometry
MAE	mean absolute error	mGBP	Multi-protocol Border Gateway Protocol
MAGIC	meshing and geometry innovation collaboration	MHD	magneto-hydrodynamics
M&S	modeling and simulation	MHPCC	Maui High Performance Computing Center
MAIS	major automated information systems	MHT	multiple hypothesis tracking
MAISRC	Major Automated Information Systems Review Committee; Major Automated Information Systems Review Council	MI	minority institutions; military intelligence
MAOPR	minimum acceptable operational requirement	MIB	management information base
MASC	medium affordable surface combatant	MIC	many integrated core (architecture)
MAV	micro air vehicle	MICOM	Missile Command (Army)
Mbps	megabits per second; million bits per second	MIE	minimum ignition energy; molecular initiating event
MBps	megabytes per second	MiFi	mobile wireless fidelity (mobile wireless network access card)
MBX	metallized blast explosives	MILDEP	military department
MCU	Multi-compartmental Unit	MILNET	military network
MD	molecular dynamics	MIMD	multiple-instruction multiple-data
MDA	milestone decision authority; Missile Defense Agency	MIO	Management Integration Office
MDAP	Major Defense Acquisition Program		
MD5	message digest 5 algorithm		

MIPR	Military Interdepartmental Purchase Request; Military Interdepartmental Purchase Report; Military Interagency Procurement Requisition	MRMC	Medical Research and Materiel Command (Army)
MISD	multiple-instruction single-data	MSDP	multi-cast source distribution protocol
MISSI	Multi-level Information Systems Security Initiative	MSI	Minority-serving Institution; Maui solar institute
MIST	Multi-INT simulation technology	MSRC	Major Shared Resource Center (now DSRC)
MNMI	Mobile Network Modeling Institute	MSRM	multi-scale reactive modeling
MNS	mission needs statement	MSRMS-IM	multi-scale reactive modeling and simulation of insensitive munitions
MOA	memorandum of agreement	MSS	mass storage system
MODSAF	modular semi-automated forces	MSSC	Maui space surveillance complex
MOE	measure of effectiveness	MSSTB	Multi-Service System-of-Systems Test Bed
MOES	multiple-objective evolution strategy	MST	Mountain Standard Time (non-daylight savings time)
MOP	measure of performance; massive ordnance penetrator	MT	Mountain Time
MOPS	measures of performance	MTA	mail transfer agent
MOS	Mississippi and Ohio State University	MTBF	mean-time between failures
MOU	memorandum of understanding	MTM	multi-scale thermal modeling
MP	modernization plan	MTO&E	Modified Table of Organization and Equipment
MPI	message passing interface	MTTR	mean-time to recovery repair
MPLS	multi-protocol label switching	MW	megawatt; molecular weight
MPOA	multi-protocol over ATM MPP	MWIR	mid-wave infrared
MPS	managed print services MRAP		
	mine-resistant ambush-protected		<b>-N-</b>
MRDC	Medical Research and Development Command	NAC	National Agency Check
MREN	Metropolitan Research and Education Network	NACI	National Agency Check plus written inquiries
		NACCL	National Agency Check with Local Agency check and credit
MRTG	multi-router traffic grapher	NADC	Naval Air Development Center
MS	milestone	NAT	network address transition
M&S	modeling and simulation	NATO	North Atlantic Treaty Organization
MRTFB	major range and test facility base	NAVAIR	Naval Air Systems Command
MSCA	military support to civilian authority	NAVO	Naval Oceanographic Office
NARA	National Archives and Records Administration	NAVSEA	Naval Sea Systems Command
NASP	National Aerospace Plane	NAWC	Naval Air Warfare Center
		NAWCAD	Naval Air Warfare Center Aircraft Division

NAWCTSD	Naval Air Warfare Center, Training Systems Division	NET-
NAWCWD	Naval Air Warfare Center, Weapons Division	
NCCOSC	Naval Command Control and Oceanographic Surveillance Center (Navy)	
NCEP	National Center for Environmental Prediction	
NCHPC	National Consortium for High Performance Computing	
NCO	network-centric operations; non- commissioned officer	
NCODA	Navy coupled ocean data assimilation	
NCOM	Navy Coastal Ocean Model	
NCP	network control protocol	
NCR	National Capital Region	
NCS	National Communications System	
NCSA	National Center for Supercomputing Applications	
NCSC	National Computer Security Center	
NDAA	National Defense Authorization Act	
NDI	non-developmental item; non- destructive inspection	
NDIA	National Defense Industrial Association	
NDP	neighbor discovery protocol (IPv6)	
NDSEG	National Defense Science and Engineering Graduate; National Defense Science and Engineering Grant	
NDT	Newfoundland Daylight Time	
NDU	National Defense University NECC National Emergency	
Coordination	Center	
NEEMO	network end-to-end monitoring	
NERSC	National Energy Research Scientific Computing Center	
NES	network encryption system	
NESM	Navy Enhanced Sierra Mechanics	

WARCOM	Naval Network	NLOM	NRL Layered Ocean Model
Command NFS	network file	NMAO	NOAA Marine and Aviation Operations
system			
NGA	National Geospatial-Intelligence Agency; National Governors' Association	NMC	network management center
		NMCC	National Military Command Center (DoD)
NGI	next-generation internet	NMCI	Navy Marine Corps Intranet
NGO	non-governmental organization		
NGTS	next-generation technical services		
NHC	National Hurricane Center		
NHPRC	National Historical Publication and Records Commission		
NHTSA	National Highway Transportation Safety Administration		
NIAP	National Information Assurance Partnership		
NIDS	network intrusion detection system		
NIE	network integration evaluation		
NII	National information infrastructure		
NIPRNET	Non-classified Internet Protocol Router Network; non-secured internet protocol router network; unclassified, but sensitive, internet protocol router network		
NISO	National Information Standard Organization		
NISPOM	National Industrial Security Program Operating Manual		
NIST	National Institute of Standards and Technology; National Institute of Science and Technology		
NITRD	Networking and Information Technology Research and Development		
NL	non-linear		

NMOC	Naval Meteorology and Oceanography Command	NSWCI	Naval Surface Warfare Center, Indian Head, MD
NMS	network management station	NTFS	new technology file system
NNI	network-to-network interface	NTIA	National Telecommunications and Information Administration
NOAA	National Oceanic and Atmospheric Administration	NTSB	National Transportation Safety Board
NOC	network operations center; network operating center	NTSP	National Telecommunications Support Plan
NOGAPS	Navy Operational Global Atmospheric Prediction System	NUMA	non-uniform memory access
NOS	National Oceanic Service	NUOPC	National Unified Operational Prediction Capability
NPG	Naval Proving Ground	NURBS	non-uniform rational B-splines
NPS	Naval Postgraduate School	NUWC	Naval Undersea Warfare Center
NRC	Nuclear Regulatory Commission	NVD	night vision devices
NRDEC	Natick Research, Development and Engineering Center	NVL	night vision laboratory
NREN	National Research and Education Network	NVRAM	non-volatile random access memory
NRL	Navy Research Laboratory	NWDC	Navy Warfare Development Command
NRL-DC	Naval Research Laboratory, Washington, DC	NWP	numerical weather prediction
NRL-MRY	Naval Research Laboratory, Monterey, CA	NWS	National Weather Service
NRL-SSC	Naval Research Laboratory, Stennis Space Center, MS		<b>-O-</b>
NRT	near-real-time; National Response Team	OA	operational assessment
NRTC	near-real-time computing	OAM	operation, administration and management
NSA	National Security Agency	OAR	Office of Oceanic and Atmospheric Research (Commerce)
NSA/CSS	NSA/Central Security Service	OASA	Office of the Assistant Secretary of the Army
NSAP	network services access point	OASA (ALT)	Office of the Assistant Secretary of the Army for Acquisition, Logistics and Technology
NSC	National Security Council	OASD	Office of the Assistant Secretary of Defense
NS/EP	National Security/Emergency Preparedness	OASD (NII)	Office of the Assistant Secretary of Defense, Network and Information Integration
NSF	National Science Foundation	OASDR&E	Office of the Assistant Secretary of Defense, Research and Engineering
NSFNET	National Science Foundation Network	OC	optical carrier
NSN	National Stock Number	OCM	on-condition maintenance
NSSC	Naval Sea Systems Command		
NST	Newfoundland Standard Time (non-daylight savings time)		
NSWC	Naval Surface warfare Center		
NSWCCD	Naval Surface Warfare Center, Carderock Division		

OCONUS	outside the continental United States (includes Alaska & Hawaii)	OS	operating system
ODBC	open database connectivity	O&S	operations and support
ODDR&E	Office of the Director, Defense Research and Engineering (now OASDR&E)	OSC	Office of Special Counsel; operations support center
OECD	Organization for Economic Cooperation and Development	OSD	Office of the Secretary of Defense
OEM	original equipment manufacturer	OSF	Office of Space Flight (NASA)
OES	Bureau of Oceans, International Environmental and Scientific Affairs	OSHA	Occupational Safety and Health Administration
OFM	Office of Financial Management	OSPF	open shortest path first (protocol)
OGA	other Government Agency	OSR	Office of Security Review
OGP	Office of Government-wide Policy	OSTP	Office of Science and Technology Policy
OIPT	Overarching Integrated Product Team	OT	operational test
OIT	Office of International Trade	OTA	Operational Test Agency
OJP	Office of Justice Programs	OT&E	operational test and evaluation
OKC	Online Knowledge Center	OTEP	operational test and evaluation plan
O&M	operations and maintenance; operations and management; organization and method	OTP	one-time password; operational test plan
OMB	Office of Management and Budget	OTRR	operational test readiness review
OneSAF	one semi-automated forces	OTTO	Office of Technology Transfer and Outreach
ONR	Office of Naval Research	OUUSD	Office of the Under Secretary of Defense
OOCORE	out of core solver	OUT	operational utilization test
OOS	objective system	OVAL	open vulnerability assessment language
OPA	other procurement Army (funding)	OWCP	Office of Workers' Compensation Program
OPDOC	operational documentation; operations document		<b>-P-</b>
OPFOR	opposing force	P2	Program and Project Management Information System
OPM	Office of Personnel Management	PA	Program Analyst
OPNAV	Office of the Chief of Naval Operations; operational Navy	PA&E	Program Analysis and Evaluation
OPR	office of primary responsibility	PAO	Public Affairs Office
Ops	operations per second	PAR	photosynthetically-active radiation
OPTEVFOR	Operational Test and Evaluation Force	PARCA	performance assessment and root cause analysis (DoD AT&L)
ORD	Office of Research and Development (EPA)	PAWS	parallel assessment window system
ORP	Ohio Replacement Program (Ohio-class submarine)	PB	petabyte

PBL	planetary boundary level	PID	proportional integrated derivative
PBO	Property Book Officer	pIE	portal to the Information Environment
PBR	President's Budget Request; program budget review	PII	personal identification information; personal identifying information
PC	personal computer	PIL	policy instruction letter
PCAT	Property Category Code	PIM	protocol independent multicast
PCID	physically-constrained iterative deconvolution	PIN	personal identification number
PCLCM	PC Lifecycle Management	PKE	public key-enabled; public key encryption; public key cryptor; public key enabling
PCS	permanent change of station	PKI	public key infrastructure; public key information
PD	public domain	PKINIT	public key cryptography for initial authentication in Kerberos
PDA	personal data assistant; personal digital assistant	PM	program manager; project manager
PDE	pulsed detonation engine	PMAC	packet media access controller; performance modeling and characterization
PDF	portable document format; probability density function; probability distribution function	PMDT	Pierre & Miquelon Daylight Time
PDI	potential discrepancy item	PMI	Project Management Institute; project management interface
PDM	program decision management	PMO	program management office
PDS	protective distribution system; Property Disposal Specialist	PMST	Pierre & Miquelon Standard Time
PDT	Pacific Daylight Time (2nd Sunday in March – 1st Sunday in November)	PNG	portable network graphics
PDU	power distribution unit	POA	point of arrival
PEO	Program Executive Office	POA&M	plan of action and milestones
PEOSTRI	Program Executive Office for Simulation, Training and Instrumentation	POC	point-of-contact
PETs	performance evaluation and tracking system (DoD)	POD	pint of departure; Pacific Ocean Division (USACE)
PETSc	portable extensible toolkit for scientific computations	POE	point of entry
PETTT	User Productivity Enhancement, Technology, Transfer, and Training	POM	program objective memorandum
PEUO	physics-based environment for urban operations	POP	point-of-presence; Post Office protocol
PFLOPS	petaFLOPS	POSIX	portable operating system for UNIX
PFPA	Pentagon Force Protection Agency	POW/MIA	prisoner of war/missing in action
PHRH	Primary Hand Receipt Holder	PPBS	planning, programming and budgeting system (DoD)
PI	principal investigator	PPM	Program & Project Management
PIA	Privacy Impact Assessment	PPM CoP	Program & Project Management Community of Practice
PIC	particle-in-cell		

PR&C	purchase request and commitment	QSR	qualified status report
PRIMES	pre-flight integration of munitions and electronic systems	QT&E	qualified test and evaluation
PRIP	Plant Replacement and Improvement Program		<b>-R-</b>
PSE	parabolized stability equation	RA	requirements analysis; Receiving Agent
PST	Pacific Standard Time (non-daylight savings time)	RADIUS	remote authentication dial-in user server
PT	plain text; Pacific Time	RAID	redundant array of independent disks; redundant array of inexpensive disks
PTO	Patent and Trademark Office	RANS	Reynolds-averaged Navier-Stokes
PUBS	publications	RASM	reliability, availability, scalability and manageability
PVC	permanent virtual circuit; permanent virtual connection	R&D	research and development
PVM	paged virtual memory; present value model	RBAC	role-based access control
PVP	permanent virtual path	RBC	Regional Business Center
PWS	performance work statement	RBD	rigid-body dynamics
	<b>-Q-</b>	RCC	Regional Control Center
QA	quality assurance	RDE	Research & Development Environment
QAF	Q adapter function	RDEC	Research, Development and Engineering Center (Army)
QAFA	quality Air Force assessment	RDI	rapid design and integration; remote defect indication
QAP	quality assurance plan; quality assurance program	RDT&E	research, development, test, and evaluation
QAPP	quality assurance program plan	RF	radio frequency; Response Force (DoD)
QBE	query by example	RFC	radio frequency countermeasure; response for comment(s)
QBF	query by form	RFID	radio frequency identification
Q-BIT	qualified data bit	RFP	request for proposal(s)
QC	quality control; quasi-continuum; quantum-chemical	RFQ	request for quote(s)
QD	questionable data	RIP	routing information protocol
QDOS	quick and dirty operating system	RISC	reduced instruction set computing
QDR	quadrennial defense review	RL	requirements list; Rome Laboratories
QL	query language	RLL	Regional Logistics Liaison
QLLC	qualified logical link control	RL-STAP	research laboratory space-time adaptive processing
QM	quality management; quantum mechanics; quantum mechanical	RM	resource management
QMR	quality military requirement		
QOI	quality of information; quality of implementation; quantities of interest		
QOS	quality of service		
QR	quality review		
QRF	quick reaction force		

RMA	return material authorization; Risk Management Agency	SADARM	search and destroy armor
RMD	required minimum distribution	SAMI	sources and methods intelligence
RMI	remote method invocation	SAMRAI	structured adaptive mesh refinement applications
RMS	rights management services (server)		infrastructure
RMSE	root mean square error	SAN	storage area network
RMWIM	Rocket Motor and Warhead Impact Modeling	SANDS	standard analog-to-digital system
ROI	return on investment; region of influence; region of interest	SANS	System Administration, Networking and Security Institute
ROID	Report of Item Discrepancy	SAP	special access program (DoD)
ROS	Record of Service; review of systems; required on station	SAR	synthetic aperture radar
RP	rendezvous point	SARDS	situation and reality display system
RPC	remote procedure call	SAS	Software Applications Support; Space and Astrophysical Sciences
RPG	rocket-propelled grenade	SAT	software acceptance test; systems acceptance test
RQL	rich-burn, quick-quench, lean- burn	SBA	Small Business Administration
RRP	resource reservation protocol	SBLI	shockwave boundary-layer interactions
RSDE	rapid ship design environment	SBU	sensitive, but unclassified
RSPA	Research and Special Programs Administration	SC	supercomputing
RT	real-time	SCIB	Ship Characteristics Improvement Board
R&T	research and technology	SCAO	SIPRNet Connection Approval Office (DoD)
RTC	real-time computing	SCCVI	secure configuration compliance validation initiative
RTDA	real-time data access; real-time data analysis	SCI	sensitive compartmented intelligence
RTT	response test time; requirements tracking tool	SciDAC	scientific discovery through advanced computing
RTTC	Redstone Technical Test Center	SCIF	sensitive compartmented information facility
RVC	radial vane cavity	SCJ	shaped charge jet (warheads)
RWV	rotary-wing vehicles	SCN	SDREN core node
	<b>-S-</b>	SCSI	small computer system interface
S/AAA	Service/Agency Approval Authority	SDK	software design kit
SAAR	system authorization access request	SDP	service delivery point(s); software development plan
SaaS	software-as-a-service	SDR	SDREN delivery route
S&E	science and engineering	SDREN	Secret Defense Research and Engineering Network
S&T	science and technology	SDSC	San Diego Supercomputer Center
SABL	stable atmospheric boundary- layer		
SAD	search and determine		

SECNAV	Office of the Secretary of the Navy	SMDFWC	Space and Missile Defense Future Warfare Center
SEMO	Safety and Environmental Management Office	SMEMRD	software module for engineering models of rotor dynamics
SENTRI	Scalable Engineering Tools for Radio Frequency Integration	S/MIME	secure/multi-purpose internet mail extensions
SERDP	strategic environmental research and development program	SMP	scalable multi-processor; security management plan
SES	Senior Executive Service	SMPTE	Society of Motion Picture and Television Engineers
SF	standard form	SMT	software mechanics tracking; standards, measurements and testing; simultaneous multithreading
SFC	specific fuel consumption	SMT	software mechanics tracking; standards, measurements and testing; simultaneous multithreading
SFM	scalar fluctuation model; scalar fluctuation modeling	SMT	software mechanics tracking; standards, measurements and testing; simultaneous multithreading
SFP	small form pluggable (connector)	SMT	software mechanics tracking; standards, measurements and testing; simultaneous multithreading
SHA	secure hash algorithm	SMT	software mechanics tracking; standards, measurements and testing; simultaneous multithreading
SIF	schools interoperability framework	SMT	software mechanics tracking; standards, measurements and testing; simultaneous multithreading
SIG	secure internet gateway; security implementation group	SMT	software mechanics tracking; standards, measurements and testing; simultaneous multithreading
SIGINT	signal intelligence	SMT	software mechanics tracking; standards, measurements and testing; simultaneous multithreading
SIMD	single instruction-stream, multiple data-stream	SMT	software mechanics tracking; standards, measurements and testing; simultaneous multithreading
SimFence	Air Force space fence simulation	SMT	software mechanics tracking; standards, measurements and testing; simultaneous multithreading
SIP	signal/image processing	SMT	software mechanics tracking; standards, measurements and testing; simultaneous multithreading
SIPRNET	Secret Internet Protocol Router Network	SMT	software mechanics tracking; standards, measurements and testing; simultaneous multithreading
SISD	single-instruction single-data	SMT	software mechanics tracking; standards, measurements and testing; simultaneous multithreading
SLA	service-level agreement; software licensing agreement; software license agreement	SMT	software mechanics tracking; standards, measurements and testing; simultaneous multithreading
SLEPc	scalable library for Eigenvalue problem computations	SMT	software mechanics tracking; standards, measurements and testing; simultaneous multithreading
SLM	storage lifecycle management	SMT	software mechanics tracking; standards, measurements and testing; simultaneous multithreading
SMB	server message block	SMT	software mechanics tracking; standards, measurements and testing; simultaneous multithreading
SMCCOM	Soldier Biological Chemical Command Research Development Engineering Center	SMT	software mechanics tracking; standards, measurements and testing; simultaneous multithreading
SMDC	Space and Missile Defense Command	SMT	software mechanics tracking; standards, measurements and testing; simultaneous multithreading
SMDC-ARC	Space and Missile Defense Command - Advanced Research Center	SMT	software mechanics tracking; standards, measurements and testing; simultaneous multithreading
SMDC-SimCtr	Space and Missile Defense Command – Simulation Center	SMT	software mechanics tracking; standards, measurements and testing; simultaneous multithreading
		SNL	Sandia National Laboratory
		SNMR	simple network management protocol
		SNWC	Space and Naval Warfare Command
		SOC	system-on-a-chip
		SOE	Special Operations Force
		SONET	synchronous optical network
		SOP	standard operating procedure
		SoSUT	system-of-systems under test
		SOW	statement of work
		SPA	scalable processing architecture
		SPAWAR	Space and Naval Warfare Systems Command
		SPDC	supersonic pulse detonation combustor
		SPEAR	signal processing evaluation, analysis and research
		SPEC	Standard Performance Evaluation Corporation
		SPI	software protection initiative
		SPMD	single program, multiple data (parallel program)
		SPO	strategic performance objectives; system program office

SPVC	soft permanent virtual circuit; switched permanent virtual connection	STIG	security technical implementation guide
SQA	software quality assurance	STK	satellite toolkit
SQL	structured query language	STOVL	short take-off and vertical landing
SR	service request	STRATCOM	US Strategic Command
SRC	shared resource center	STU	secure telephone unit
SRCAP	Shared Resource Center Advisory Panel	STUAS	small tactical unmanned aircraft system
SRI	Stanford Research Institute	STW	strike warfare
SRR	security readiness review	STWG	system testing working group
SSA	space situational awareness; site service agreement; Social Security Administration	SUNS	scalable urban network simulation
SSAA	system security authorization agreement; system security approval authority	SVC	switched virtual circuit
SSAC	source selection advisory council	SW	software
SSBI	single-scope background investigation	SWAP	size, weight and power
SSC-SD	Space and Naval Warfare Systems Center – San Diego	SWMS	Space Weather Modeling System
SSDC	Space and Strategic Defense Command		-T-
SSDP	simple service discover protocol	TA	technical area; technical assessment; Technology Administration
SSEB	Source Selection Evaluation Board	TAAD	task assignment and directive
SSH	secure shell	TACACS+	Terminal Access Controller Access Control System Plus
SSL	secure socket layer (web security protocol)	TACC	Texas Advanced Computing Center
SSN	space surveillance network	TACOM	Tank-Automotive and Armaments Command (Army)
SSO	single sign-on	TAD	time available for delivery (DoD)
SSP	security support provider	T&E	test and evaluation
ST	Supply Technician	TAP	technical advisory panel
STE	secure telephone equipment	TARDEC	Tank-Automotive Research, Development and Engineering Center
ST&E	science, technology and engineering; security test and evaluation	TB	terabytes
STEM	science, technology, engineering, and mathematics	TBD	to be determined
STEP	simulation, test and evaluation process; software test and evaluation panel	TC	tropical cyclone
STEPNET	simulation, test and evaluation process network	TCB	trusted computer base
		TCO	total cost of ownership
		TCP	transmission control protocol
		TCP/IP	transmission control protocol/internet protocol
		TDA	Table of Distribution and Allowances

TDDFT	time-dependent density functional theory	TRG	technical review group
TDY	temporary duty (US military)		
TE	technical evaluation		
TEC	Topographic Engineering Center (ERDC – Alexandria); total electron content		
TECNET	test and evaluation community network		
TEK	traffic encryption key		
TEMP	test and evaluation master plan		
TEP	technical evaluation panel; test and evaluation plan		
TERC	technology education research center; test and evaluation resource committee		
TFLOPS	teraFLOPS (equal to one trillion floating-point operations per second)		
THREATCON	threat condition TI		
	technology insertion		
TIC	toxic industrial compound		
TIP	technology insertion proposal		
TIPT	test integrated product team		
TIWG	test integration working group		
TLB	thread local buffer; transmit load balancing		
TLD	top-level domain		
TMAX	temporal Maxwell server		
TO	task order		
TOR	tactical operational requirement; terms of reference		
TP	transition plan; test plan TPD		
	technical planning		
document	TPS	thermal	
protection system	TPWG	test plan	
working group	TQM	total quality	
management			
TQMP	total quality management plan		
TRA	technology readiness assessment		
TRADOC	Army Training and Doctrine Command		
TRANSCOM	US Transportation Command		
TREE	transient radiation effects on electronics		

TRMC	Test Resource Management Center		and Assessment Center (ERDC)
TRR	test readiness review	UDP	universal datagram protocol; unit deployment plan; unreliable datagram protocol; user datagram protocol
TS	top secret		
TSA	test services agreement		
TSFC	thrust-specific fuel consumption		
TSL	transport layer security	UE	underwater express
TSMO	threat simulation management office; threat systems management office; threat simulator management office	UESC	utility energy service contracts
TSP	trusted platform module; thrift savings plan		
TSPI	time-space-position information		
TSWG	technical support working group		
TT	trouble ticket		
TTP	technology transfer program; tactical targeting program; tactics, techniques and procedures; transition to production		
TVC	trapped vortex combustor		
TWAC	targeteering/weaponeering		
	assistance cell		

**-U-**

UAG	User Advocacy Group
UAS	unmanned aerial system
UAV	unmanned air vehicle
UBR	undefined bit rate
UBS	unclassified, but sensitive
UCAS	unmanned combat air systems
UCAV	unmanned combat air vehicles
UCC	ultra-compact combustor
UCFE	Unemployment compensation for Federal employees
UCMJ	US Code of Military Justice
UDAAC	Unclassified Data Analysis

UGC	Users Group Conference	USGS	United States Geological Survey
UID	unique identification	USI	user system interface
UII	unique item identifiers	USMA	United States Military Academy
UIT	user interface toolkit	USMC	United States Marine Corps
ULA	USACE logistics activity	USN	United States Navy
ULO	useful life expected from an asset	USNA	United States Naval Academy
UMA	uniform memory access	USNCB	US National Census Bureau (Justice)
UNAFold	unified nucleic acid folding		
UNDEX	underwater explosion	USTR	Office of the US Trade Representative
UNI	user network interface		
U-Pass	User Id – Password Administration and Security System	UTC	user training coordination
		UT/CDLT	user training/collaborative and distance learning technologies
UPS	uninterruptible power source; uniform procurement system	UTO	unit table of organization (DoD)
UQ	uncertainty quantification		<b>-V-</b>
URANS	unsteady Reynolds-averaged Navier-Stokes	VAATE	versatile affordable advanced turbine engine
URL	uniform resource locator	VAN	virtual area network
uRPE	unicast reverse path forwarding	VAPO	vulnerability assessment and protection option
US	United States		
USA	United States of America; United States Army	vBNS	very high-speed backbone network service
USACCSLA	US Army Communications – Electronics Command, Communications	VBR	variable bit rate
USACE	US Army Corps of Engineers	VC	virtual circuit
USAF	United States Air Force	VCC	virtual channel connection
USAFA	US Air Force Academy	VCCT	virtual crack closure technique
USAFMSA	US Air Force Management Support Agency	VED	virtual electromagnetic design
USAMRIID	US Army Medical Research Institute of Infectious Diseases	VHDL	very high-speed integrated circuit (VHSIC) hardware description language
USAMRMC	US Army Medical Research and Materiel Command	VHSIC	very high-speed integrated circuit
USARO	US Army Research Office	VI	visual information
USB	universal serial bus	VIP	very important person
USCERT	US Computer Emergency Response Team	VLM	virtual loads monitoring
USCG	United States Coast Guard	VLS	vertical launch systems
USD	Undersecretary of Defense	VM	virtual machine
USDA	US Department of Agriculture	VMS	vehicle management system
USD AT&L)	Undersecretary of Defense for Acquisition, Technology and Logistics	VNC	virtual network computing
		VoIP	Voice-over Internet Protocol
		VP	virtual path
		VPC	virtual path connection
		VPG	virtual proving ground
		VPI	virtual private interface
		VPN	virtual private network

VS IPL	Vector Signal Image Processing Library	XSLT	extensible style-sheet language transforms
VT	virtual token		
VTC	video teleconference		
V&V	verification and validation	YPG	Yuma Proving Ground
	<b>-W-</b>		<b>-Y-</b>
WAN	wide-area network	ZPG	zero pressure gradient
WAWF	wide-area workflow		
WD	weapons division		
WEP	weapons effects phenomenology		
WES	Waterways Experiment Station (ERDC – Vicksburg)		
WESTHEM	western hemisphere		
WGI	within-grade increases (Government employees)		
WGST	Western Greenland Summer Time (daylight savings time in Greenland)		
WGT	Western Greenland Time (non-daylight savings time in Greenland)		
WiFi	wireless (high) fidelity (refers to wireless network access)		
WIPT	working integrated product team		
WPAFB	Wright-Patterson Air Force Base		
WRF	weather research and forecasting (weather forecast model)		
WSMR	White Sands Missile Range		
WSP	Federal Witness Security Program (formerly Witness Protection Program)		
WSUS	Windows server update service		
WTD	weapons training detachment (Army)		
WTI	weapon-target interactions		
WTO	World Trade Organization		
WWW	world-wide web		
	<b>-X-</b>		
XACML	extensible access control markup language		
XAML	extensible application markup language		
XML	extensible markup language		