Contents

List of Abbreviations

AC	Accumulator
AF	Auxiliary carry Flag
ALU	Arithmetic and Logic Unit
ARM	Advanced RISC Machine
AR	Address Register
ASCII	American Standard Code for Information Interchange
AT	Advanced Technology
ATA	Advanced Technology Attachment
BA	Base Address
BCD	Binary Coded Decimal
BEQ	Branch if Equal
BIU	Bus Interface Unit
BR	Branch
CAR	Control Address Register
cd	Compact Disc/Condition
CF	Carry Flag
CS	Code Segment
CMOS	Complementary Metal Oxide Semiconductor
CISC	Complex Instruction Set Computing/Computer
CPU	Central Processing Unit
CPSR	Current Program Status Register
CRT	Cathode Ray Tube
DDR	Double Data Rate
DF	Direction Flag
DIMM	Dual Inline Memory Module
DMA	Direct Memory Access
DRAM	Dynamic Random Access Memory
DR	Data Register
DS	Data Segment
EA	Effective Address
EEPROM	Electrically Erasable-Programmable Read Only Memory
ENIAC	Electronic Numerical Integrator and Computer

EPROM	Erasable-Programmable Read Only Memory
EU	Execution Unit
EX	Extra Segment
FIFO	First-In-First-Out
IBM	International Business Machine
ICs	Integrated Circuits
IF	Interrupt Flag
IO	Input-Output
ILP	Instruction-level parallelism
IP	Instruction Pointer / Intellectual Property
IRA	International Reference Alphabet
IR	Instruction Register
ISA	Instruction Set Architecture
LFU	Least Frequently Used
LIFO	Last-In-First-Out
LRU	Least Recently Used
LSI	Large Scale Integration
MA	Memory Address
MAR	Memory Address Register
MDR	Memory Data Register
MMU	Memory Management Unit
MSI	Medium Scale Integration
NOP	No Operation
OF	Overflow Flag
PAAT	Parallel Advanced Technology Attachment
PC	Personal Computer
PDP	Personal Data Processor
PF	Parity Flag
PMD	Personal Mobile Devices
RAM	Random Access Memory
ROM	Read Only Memory
RWM	Read/Write Memory
RISC	Reduced Instruction Set Computing/Computer
SATA	Serial Advanced Technology Attachment
SBR	Subroutine Register
SDD	Solid State Drives
SF	Sign Flag
SIMM	Single Inline Memory Module
SP	Stack Pointer

SPSR	Saved Program Status Register
SRAM	Static Random Access Memory
SSI	Small Scale Integration
SS	Stack Segment
TDMI	THUMB, Debug and Multiplier Integration
TF	Trace Flag
TLB	Translation Lookaside Buffer
ULSI	Ultra Very Large Scale Integration
USB	Universal Serial Bus
UV	Ultra Violet
VLSI	Very Large Scale Integration
WSC	Warehouse Scale Computers
ZF	Zero Flag