

APPENDIX B. GLOSSARY OF ORGANIZATIONAL ACRONYMS

ARPA	Advanced Research Projects Agency
CIS	Commonwealth of Independent States
CMEA	Council for Mutual Economic Assistance
CoCom	Coordinating Committee for Multilateral Export Controls
DEC	Digital Equipment Corporation
FPS	Floating Point Systems Corporation
GKNT	USSR All-Union State Committee for Science and Technology <i>Obshchesoyuznyy Gosudarstvennyy komitet SSSR po nauke i tekhnike</i>
GKVTI	All-Union State Committee for Computer Technology and Informatics <i>Obshchesoyuznoy Gosudarstvennyy komitet SSSR po vychislitel'noy tekhnike i informatike</i>
HP	Hewlett Packard Corporation
IBM	International Business Machines Corporation
IK AN ESSR	Institute of Cybernetics of the Academy of Sciences of the Estonian SSR <i>Institut kibernetiki AN ESSR</i>
IK AN UkSSR	Institute of Cybernetics, Academy of Sciences of the Ukrainian SSR <i>Institut kibernetiki AN UkSSR</i>
INEUM	Institute of Electronic Control Machines <i>Institut elektronnykh upravlyayushchyykh mashin</i>
IPM	Kel'dysh Institute of Applied Mathematics <i>Institut prikladnoy matematiki imeni Kel'dysha</i>
IPU	Institute of Control Problems <i>Institut problem upravleniya</i>
ISI	Institute of Informatics Systems <i>Institute system informatiki</i>
ITMVT	Institute of Precision Mechanics and Computer Technology <i>Institut technoy mekhaniki i vychislitel'noy tekhniki</i>
Impul's	Scientific Production Association Impul's <i>Nauchno-proizvodstvennoye ob"edineniye "Impul's"</i>
KGB	State Committee for Security <i>Komitet gosudarstvennoy bezopasnosti</i>
KamAZ	KamAZ Giant Automotive Plant
LFIA	Lisichansk Subsidiary of the Institute of Automation <i>Lisichanskiy filial instituta avtomatiki</i>
LIAP	Leningrad Institute of Aviation Instrument Building <i>Leningradskiy institute aviapriborstroyeniya</i>
LIIA	Leningrad Institute of Informatics and Automation <i>Leningradskiy institut informatiki i avtomatizatsii</i>
MGU	Moscow State University <i>Moskovskiy gosudarstvennyy universitet</i>

NIIVK	Scientific Research Institute of Computing Systems <i>Nauchno-issledovatel'skiy institut vychislitel'nykh kompleksov</i>
Minaviaprom	Ministry of the Aviation Industry <i>Obshchesoyuznoye Ministerstvo aviatsionnoy promyshlennosti SSSR</i>
Minelektronprom	USSR All-Union Ministry of the Electronics Industry <i>Obshchesoyuznoye ministerstvo elektronnoy promyshlennosti SSSR</i>
Minelektrotekhpribor	USSR All-Union Ministry of the Electrical Equipment Industry and Instrument Building <i>Obshchesoyuznoye Ministerstvo elektrotekhnicheskoy promyshlennosti i priborostroyeniya SSSR</i>
Minelektrotekhprom	USSR All-Union Ministry of the Electrical Equipment Industry <i>Obshchesoyuznoye Ministerstvo elektrotekhnicheskoy promyshlennosti SSSR</i>
Minpribor	USSR All-Union Ministry of Instrument Construction, Means of Automation, and Control Systems <i>Obshchesoyuznoy Ministerstvo priborostroyeniya, sredstva avtomatizatsii i upravlyayushchikh sistem SSSR</i>
Minradioprom	USSR All-Union Ministry of the Radio Industry <i>Obshchesoyuznoye Ministerstvo radio promyshlennosti SSSR</i>
NATO	North Atlantic Treaty Organization
NIIMVS	Scientific Research Institute of Multiprocessor Computer Systems <i>Nauchno issledovatel'nskiy institut mnogoprotsessornykh vychislitel'nykh sistem</i>
NIITT	Scientific Research Institute of Precision Technology <i>Nauchno-issledovatel'skiy institut tochnoy tekhnologii</i>
NIUVM	Scientific Research Institute for Control Computers <i>Nauchno-issledovatel'skiy institut upravlyayushchikh vychislitel'nykh mashin</i>
NIUVM	Scientific Research Institute for Control Computers <i>Nauchno-issledovatel'skiy institut upravlyayushchikh vychislitel'nykh mashin</i>
NITsEVT	Scientific-Research Center of Electronic Computer Technology <i>Nauchno-issledovatel'skiy tsentr po elektronno-vychislitel'noy tekhniki</i>
NITsSN	Scientific Research Center of Supercomputers and Neurocomputers <i>Nauchno-issledovatel'skiy tsentr super-EVM i neyrokomp'yuterov</i>
OIVTA	Department of Informatics, Computer Technology, and Automation <i>Otdeleniye informatiki, vychislitel'noy tekhniki, i avtomatizatsii</i>
OZVM	Orel' Control Computing Machines Factory imeni K. H. Rudnev <i>Orlovskiy zavod upravlyayushchikh vychislitel'nykh mashin imeni K. N. Rudneva</i>
RSFSR	Russian Soviet Federal Socialist Republic <i>Rossiskaya sovetskaya federal'naya sotsialisticheskaya respublika</i>
SAM	Moscow Calculating-Analytic Machines Plant

	<i>Moskovskiy zavod schetno-analiticheskikh mashin</i>
SO AN SSSR	Siberian Department, Academy of Sciences <i>Sibirskiy otdel, Akademii nauk SSSR</i>
SPZ	Severodonetsk Instrument Building Plant <i>Severodonetsk priborostroitel'nyy zavod</i>
VEM	Computing Electronic Machines Plant <i>Zavod vychislitel'nykh elektronikh mashin</i>
VNIIEF	All-Union Scientific Research Institute of Experimental Physics <i>Vsesoyuznyy nauchno-issledovatel'skiy institut eksperimental'noy fiziki</i>
VPK	Military-Industrial Commission <i>Voyenno-promyshlennaya komissiya</i>
VTs SO AN SSSR	Computer Center of the Siberian Department of the Academy of Sciences <i>Vychislitel'nyy tsentr SO AN SSSR</i>
VUM	Control Computing Machines Plant <i>Zavod vychislitel'nykh upravlyayushchikh mashin</i>
YERNIIMM	Yerevan Scientific Research Institute of Mathematical Machines <i>Yerevanskiy nauchno-issledovatel'skiy institut matematicheskikh mashin</i>
ZEMZ	Zagorsk Electronic-Mechanical Factory <i>Zagorsk elektro-mekhanicheskiy zavod</i>

APPENDIX C. GLOSSARY OF ACRONYMS

AAP	Attached Array Processor
AI	Artificial Intelligence
<i>Akademgorodok</i>	Academic City, Novosibirsk
<i>Akademset'</i>	Academic Network
BESM	High-speed Electronic Calculating Machine (<i>Bystrodeystvuyushchaya elektronnaya schetnaya mashina</i>)
CISC	Complex Instruction Set Computer
CMOS	Complementary Metal-Oxide Semiconductor
DAN	Dynamic Automata Network
DRAM	Dynamic Random Access Memory
<i>Dacha</i>	Country Home
ECL	Emitter-Coupled Logic
EFRNT	Unified Fund for the Development of Science and Technology (<i>edinnyy fond razvitiya nauki i tekhniki</i>)
ES	Unified System of computers (<i>edinaya sistema</i>)
FFT	Fast Fourier Transform
FIFO	First-In-First-Out
Gflops	Giga (billion) Floating-point Operations Per Second
<i>Goszakaz</i>	State order
HPC	High-Performance Computing
IC	Integrated Circuit
I/O	Input/Output
KByte	Kilo (1024) bytes
<i>Khozdogovor</i>	Economic contract
<i>Khozaschet</i>	Economic self-accounting
KOPS	Kilo (thousand) Operations Per Second
LSI	Large-Scale Integration
MARS	Modular, Asynchronous, Extendable, System (<i>modul'naya, asinkhronnaya, razvivayushchaya sistema</i>)
MAYaK	Macro-pipeline Language (<i>MAkro-konveyernyy YazyK</i>)
MByte	Mega (1024*1024) bytes
MESM	Small Electronic Calculating Machine (<i>Malaya elektronnaya schetnaya mashina</i>)
MIMD	Multiple-Instruction, Multiple Data
MIPS	Million Instructions Per Second
MNTK	Inter-branch Scientific-Technical Complex (<i>Mezhotraslevoy nauchno-tekhnicheskiy kompleks</i>)
MSI	Medium-Scale Integration
Mflops	Mega (million) Floating-point Operations Per Second

NPO	Scientific Production Association (<i>nauchno-proizvodstvennoye ob"edineniye</i>)
PEPE	Parallel Element Processing Ensemble
Perestroika	Restructuring
PO	Production Association (<i>proizvodstvennoye ob"edineniye</i>)
PS	Reconfigurable System (<i>perestravayemaya sistema</i>)
PSS	Procedure-oriented Static Scheduling
PTsM	Program-goal method (<i>programmno-tselevoy metod</i>)
RISC	Reduced Instruction Set Computer
S&T	Science and Technology
SIMD	Single-Instruction, Multiple-Data
SKB	Special Design Bureau (<i>spetsialnyy konstruktorskiy buro</i>)
SM	system of Small Computers (<i>sistema malykh</i>)
SOLOMON	Simultaneous Operation Linked Ordinal MODular Network computer
SSI	Small-Scale Integration
TPP	Theoretical Peak Performance
TTL	Transistor-Transistor Logic
VLIW	Very-Long-Instruction-Word
VLSI	Very-Large-Scale Integration
VNTK	Temporary Scientific-Technical Collective (<i>vremennyy nauchno-tehnicheskiy kolektiv</i>)
VUZ	Higher-education Institution (<i>vysshoye uchebnoye zavedeniye</i>)

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