

## IBM System/7

## SOFTWARE

**OPERATING SYSTEMS:** None. A primitive level of system control programming is available through System/7 Modular Systems Programs. MSP/7 features program preparation on an IBM host computer (Host Program Preparation Facility-HPPF), or direct System/7 program preparation, and includes a Disk Support System (DSS/7) that resides on a 5022 Disk Storage Module and runs on a 4K-word or larger System/7 to permit loading and execution of disk resident programs including IBM supplied utilities for disk initialization, automatic restart, data set definition/deletion (System/3-compatible Volume Table of Contents, VTOC), paper tape program load utility, and disk dump/copy/patch routines. SFS (Symbolic File Support) provides for association of symbolic file names to disk data sets or members at IPL time. Off-line HPPF program transfer is normally handled via punched paper tape or System/7 users who do not have access to a host computer, programming is accomplished through the System/7 Assembler, a no-charge, stand-alone system control program.

For users with host processors available to share the System/7 processing workload, Distributed System Program (DSP) support is available to support multisystem operation. The IBM 1130 (8K words) can be interfaced via a storage channel for direct access, and the System/370 (60KB), the 1800 (about 13K words) can be coupled with the System/7 through data communications links.

Other System/7 host processor (System/370 OS/VS and DOS/VS) System Control Programming support includes a relocatable macro assembler library (MACLIB/R), macro assembler (ASM/7), linkage editor (LINK/7), storage load formatting program (FORMAT/7), source preparation program (PREP/7), and Host FORTRAN IV compiler and library (40KB compiler; 95KB library; and about 6K words of resident main memory requirements on System/7). ASM/7, AML/7, LINK/7, and a FORTRAN IV compiler, are also available for direct System 7 use.

It should be noted that considerable programming RPQ's are available from IBM. Check IBM for details.

**PROGRAMMING:** For stand-alone operation, the System/7 must be programmed in Assembler or FORTRAN IV (24KB to compile, 12KB to execute); with a host processor, the generally accepted programming method is use of FORTRAN to develop programs on the host processor for subsequent execution on the System/7. In some cases the

"RPG-like" Application-Programs Generator (APG/7) is used on host System/360 or 370 systems.

**APPLICATIONS:** Program products for the System/7 include the Application Program Generator (80K partition under OS or VS, 52K partition under DOS or DOS/VS), Automatic Telephone Call Monitoring (8K-word S/7); and about 34 Field Developed and Installed User Programs (FPD and IUP).

## PRICING

**POLICY:** IBM provides the System/7 on a purchase or monthly lease basis (except for the 5028 Operator Station which is also available on the extended-term plan). Applications programs for the System/7 are separately priced. (See Equipment Prices which reflect the latest changes effective March 1, 1974.)

**SUPPORT:** For leased systems on-call maintenance is provided at no additional charge. For purchased systems maintenance is provided on the processor for one year at no additional charge; on most interfaces for 90 days at no additional charge, and thereafter (as well as the 5022 disk and 5028 console) eight hours per day, five days per week on-call maintenance is separately priced.

**EQUIPMENT:** The following typical systems include all necessary controllers and adapters.

**MINIMUM SYSTEM (REQUIRES HPPF):** Consists of a 5010A processor, 2K words, 5501 Modem, operator station, and one 5012 multifunction I/O module. Purchase price is \$17,574, and monthly rental is \$481.

**SMALL ACCA SYSTEM (FOR IBM 1130 HOST):** Consists of a 5010B processor, 4K words, operator station, and two 5012 multifunction I/O modules with analog I/O. Purchase price is \$38,520, and monthly rental is \$979.

**MEDIUM-SCALE STAND-ALONE SYSTEM:** Consists of a 5010A processor, 8K words, operator station, and three 5012 Multifunction I/O modules. Purchase price is approximately \$51,880, and monthly rental is \$1,350.

**LARGE-SCALE SYSTEM WITH HOST INTERFACE:** Consists of a 5010B processor, 16K words, operator station, 5022-2 disk, and five 5012 Multifunction Module and two 5014C Analog Input Modules. Purchase price is \$129,120, and monthly rental is \$3,400. ■

## EQUIPMENT PRICES

PROCESSORS AND MEMORY		Purchase Price	Monthly Maint.	Monthly Rental
5010 A	Central Processor with 2K words	\$ 8,670	\$46.75	\$188
5010 B	Central Processor with 2K words	12,700	55	290
	Each additional 2K words	3,700	11	107
5010 E	Central Processor with 16K words	35,400	229	953
	Each additional 4K words	4,900	31	137
PROCESSOR FEATURES				
1610	ACCA	3,060	13.25	76
2074	BSCA	7,340	55	183
5500	Integrated Modem (1200 bps) leased	535	2.50	15
5501	Integrated Modem (1200 bps), switched	714	3.00	20
2165	Common Carrier Adapter	408	2.50	10
2662	Cycle Steal	1,830	3	45
4703	Internal Clock for BSCA	816	2.50	20
4750,1,2	Line Adapter	1,020	14.25	25
4800	Line Interface 1D	1,020	2.50	25
4805	Line Interface 1G	2,040	.50	51
5026 A2	Enclosure (2 I/O)	4,710	24.25	102
5026 C3	Enclosure (3 I/O)	10,200	28.50	234
5026 C6	Enclosure (6 I/O)	14,400	45.75	346
5026 D3	Enclosure Extension (3 I/O)	10,200	36.50	234
5026 D6	Enclosure Extension (6 I/O)	14,400	54	346
3715	Attachment for D3/6 to C3/6	1,420	4.50	35
4621	Air Isolation C3 D3	2,290	11	45
4622	Air Isolation C6/D6	3,060	22.25	61
5731	Power Failure Detect	2,040	.50	51
7401	Add on power (5010A 10K and larger)	652	1	16

## IBM System/7 EQUIPMENT PRICES

PROCESSOR FEATURES (continued)		Purchase Price	Monthly Maint.	Monthly Rental
5028	Operator Station	\$ 2,280	\$ 46.75	\$ 142
<b>MASS STORAGE</b>				
5022/1	Disk Storage Module, 2.45 million words	15,100	84	397
5022/2	Disk Storage Module, 2.45 million words	16,500	92	464
5022/3	Disk Storage Module, 1.23 million words	13,500	80	306
5022/4	Disk Storage Module, 1.23 million words	14,800	88	372
2664	Cycle Steal	612	1	15
4650	Add on 5022 power supply	1,420	1	35
<b>I/O MODULES</b>				
5012	Multifunction Module	1,830	7	40
1210	Hi Level B Amplifier	510	.50	10
1211	Hi Level C Amplifier	2,040	5	51
1215	Multirange B Amplifier	1,630	2	40
1216	Multirange C Amplifier	3,260	2	81
1221	Basic Analog	1,220	1.50	30
1232	Analog Input B	4,990	24.25	102
1213	Analog Input C	6,930	31.50	173
1245	Analog Output Control	1,220	8	30
1246	Analog Output Point	2,040	5.50	40
7830	Temperature Ref.	408	1	10
3284	Digital Input Control	550	2	12
3289	Digital Input Group	612	3.50	15
3292	Digital Input, Non-Isolated	306	1	8
3296	Digital Output Control	816	1.50	20
3420	D.O. Contact Group	1,630	4.50	40
3421	D.O. Low Power Group	816	2.50	20
3422	D.O. Medium Power Group	1,220	5	30
3424	D.O. Medium Power, Non-Isolated	612	1.50	15
5710	Process Interrupt	408	1	10
5246	Multiplexor/MR4	448	2	11
5248	Multiplexor/MS4	408	1	10
8195	2790 Control	4,080	7	102
5013	Digital I/O Module	1,830	7	40
5014 B1	Analog Input Module	6,120	24.25	153
5014 C1	Analog Input Module	8,970	35.50	224
5014 D1	Analog Input Module	6,120	23.25	153
5014 E1	Analog Input Module	1,590	.50	39
5014 E2	Analog Input Module	1,590	.50	39

## SOFTWARE PRICES

SYSTEM/7	Monthly License Fee
Apartment Complex Monitor*	\$153
Application Module Library	612**
Arithmetic/Data Subroutines*	61
Asynchronous Comm Control Attach (ACCA) Master Terminal Control*	85
Auto Call Monitoring	150
Auto Hematology Analyzer*	86***
Automatic Production Reporting*	190
Clinical Lab Automation*	86
Clinical Lab Control Program*	173***
Communications Control Applications Program (CCAP)	204
Controlled Access Subset*	112
Dairy Machine Monitor*	331
Expanded Gas Chromatograph Monitoring Program*	342
Gas Chromatograph*	229
Graphics Package*	117
Health Care Support/Admissions*	251
Input Output Support for IBM Selectric I/O Writer*	50
Luncheon Meat Slicing Control*	185
Natural Gas Monitoring & Control (Basic) Program*	433
Order Entry/Inventory Allocation Via Touch Tone (TM) Telephone*	310
Package Filling Control System*	229
Paper Tape Modification*	35
Peak Type Analyzer*	91***
Plastic Injection Molding*	204
Plateau Type Analyzer*	81***
Processing Event Recording Translation System*	219
Programmable Terminal & Data Link*	45
Pump Monitor & Control System	112
Remote Control Monitor System*	188
Remote Measurement Monitoring Program*	173
Shop Floor Data Call & Reporting*	265
Tensile Tester Monitoring Program*	296
Textile Machine Monitoring*	285
Touch Tone (TM) Remote Order Entry for Sys Friendly Ice Cream*	175
2790 Data Entry System Bendix*	175
2790 Library Circulation Control*	275***
2790 Transaction Processor System*	200
<b>HOST PROCESSOR (SYSTEM/360)</b>	
Application Program Generator	153
FORTRAN IV	127

\*Field Developed Program (FDP) or Installed User Program (IUP). Monthly license payments end after one year unless otherwise noted.  
 \*\*One time charge.  
 \*\*\*Monthly license payments end after two years.