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at the display. Format Management (FM) is the execution-time component of DPS. FM can be used on systems without the IMD feature. In this case, maps must be created by IMD on an 8100 processor licensed for this feature.

DPPX/DATA BASE AND TRANSACTION MANAGEMENT SYSTEM (DTMS): Provides transaction management and routing as well as data base management and control for the 8100/DPPX system. Facilities to assist in developing, operating, and managing on-line applications are provided. The need for extensive user-developed system programs to manage terminals and data in this environment is greatly reduced.

DPPX/3270 DATA STREAM CAPABILITY (DSC): A licensed program that allows certain keyboard display and printer units attached to the 8100 to communicate with System/370 host application programs as if the units were directly attached by data link to the host processor. The 8100 can be installed as a distributed processor while most existing 3270 applications at the System/370 host continue to run without change.

DPPX/REMOTE JOB ENTRY-WORKSTATION FACILITY (RJE): Permits the 8100 to function as an SNA or BSC remote job entry workstation for submitting jobs to a host System/370. The host requires an OS/VS or VM/370 operating system with a job entry subsystem installed.

DPPX/SORT/MERGE (SORT): Provides a sort for the 8100 system that is designed to run with the DPPX/Base and provides users with facilities for extracting and sequencing data sets. DPPX/SORT is designed to address the users' need for sorting and merging of single or multiple types of records from one or more data sets. Related tasks, such as selecting certain records from one or more data sets, are also handled.

DEVELOPMENT MANAGEMENT SYSTEM (DMS)/DPPX: A program product that aids in the design and generation of application programs by providing a simple programming interface to the user. Programs generated by DMS/DPPX are in DPPX/COBOL source code.

DPPX/PARAMETER TABLE GENERATION FACILITY (GEN3644): Provides an efficient means for customizing the 3644 Automatic Data Unit (ADU). The 3644 ADU attaches to the 8100 or the 3630 Plant Communication System and creates an automatic interface between the system and a wide variety of actuators, instruments, computers, and production subsystems. DPPX/GEN3644 customizing consists of selecting 3644 functions and specifying the initial values of stored data items. DPPX/GEN3644 translates the customization data into the format necessary for transmission to the 3644. Translation is performed by editing the source data and converting it into a parameter table format for loading into the 3644. The resulting parameter table works with the 3644 functions provided by IBM. DPPX/GEN3644 also produces a listing of the source data entered by the user. Extensive edits are performed both on a record basis and on an overall table basis. Errors noted on the 3644 program listing are corrected by changing the original input and resubmitting the job. The output of DPPX/GEN3644 is a sequential file containing the Parameter Table Load (PTL) data as required for transfer to the 3644. The records on the sequential file are 256 bytes long.

DISTRIBUTED SYSTEMS EXECUTIVE (DSX): A set of routines and files that give IBM 8100 and 3790 system network users a simple and comprehensive means of data and network management. DSX combines, in one product, the host libraries, holding files, and control files, and the transmission, formatting, and reporting functions needed for library and transmission control in 8100 and 3790 system networks.

HOST COMMAND FACILITY: Designed to enable a System/370 attached terminal to function as if it were directly attached to an 8100/DPPX or DPCX system, the Host Command Facility gives the operator at a central System/370 site the capability to operate and control remote SDLC-connected 8100 systems. Nearly all maintenance, service, and control functions become available at the central System/370 site for problem determination, problem isolation, and remote system control. The System/370 must be running under MVS VTAM/TCAM, VS1 VTAM/TCAM, or DOS/VS VTAM.

DPPX/PERFORMANCE TOOL (PT): A program product consisting of the DPPX/PT Monitor and the DPPX/PT Reporter feature. DPPX/PT monitors and reports the activity of components of the DPPX/Base program product. The DPPX/PT Monitor collects performance data, and the DPPX/PT Reporter generates reports on the basis of data collected by the Monitor.

SUBSYSTEM INFORMATION RETRIEVAL FACILITY: Provides the host location with the ability to retrieve incident and status information, execute problem determination routines, and modify, with appropriate control, distributed system control code. This facility will be available for System/370 systems running under OS/VS-VTAM, ACF/VTAM, DOS/VS-VTAM, ACF/VTAM, OS/VS-TCAM, and DOS/VS-EXTM.

PRICING

POLICY: IBM offers the 8100 Information System for purchase, monthly rental, or on a two-year lease. Rental and lease arrangements include prime-shift maintenance. Purchased components may have a separate maintenance contract.

All 8100 system components listed in the accompanying price table are in maintenance category A, except the 8809 tape drives and the 3289-3 printer, which are in category D. These categories determine the schedule of extended maintenance charges. The two schedules differ for extended Monday-through-Friday maintenance. Prime-shift maintenance is provided for any consecutive nine-hour period between 7 a.m. and 6 p.m., Monday through Friday. The premium for extended maintenance is expressed in the table below as a percentage of the prime-shift maintenance charges, which are shown in the accompanying price list.

	Consecutive Hours				
	9*	12	16	20	24
Monday-Friday—					
Category A	10%	14%	18%	22%	26%
Category D	10	12	14	16	18
Saturday	4	5	7	8	9
Sunday	5	7	9	11	12

*For periods outside the basic 7 a.m. to 6 p.m. prime shift.

The termination charge for the two-year lease arrangement is the lower of 5 months' charges or 25 percent of the remaining value of the lease. The lease arrangement also guarantees a maximum rate of increases for extended leasing periods; the rate for all 8100 components is five percent per year beginning in the second year.

All 8100 components qualify for unlimited usage. Purchase credits can be accrued up to a maximum of 55 percent. All components except the 8809 tape drives and

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3289-3 printer are classified as Customer Set-Up, which permits (or requires) users to install the components themselves.

EQUIPMENT: The following are representative 8100 Information System configurations.

SIX-TERMINAL 8100 SYSTEM: Includes a processor with 348K bytes of memory, 58 million characters of disk storage, 3 printers, 6 display terminals, and 1 communications link. Purchase price is $91,815. The same system can be leased for $2,537 per month under a two-year agreement or rented for $2,981 per month.

EIGHTEEN-TERMINAL 8100 SYSTEM: Includes a processor with 512K bytes of memory, 58 million characters of disk storage, 1 magnetic tape unit, 5 printers, communications links, and 18 information display terminals. Purchase price is $181,702. The same system can be leased for $5,168 per month under a two-year agreement or rented for $5,957 per month.■

EQUIPMENT PRICES

		Purchase Price	Monthly Maint.	Monthly Rental*	2-Year Lease*
PROCESSORS AND MAIN MEMORY					
8130	Basic processor; includes 256K bytes of main memory, up to 1-megabyte removable diskette storage, one disk module, disk storage as indicated, instruction set, up to eight I/O hardware interrupt levels, provisions for up to two communications ports:				
A21	29 megabytes disk storage	$24,000	$122.00	$ 705	$ 600
A22	23 megabytes disk storage, 131K fixed-head capacity	24,720	130.00	729	620
A23	64 megabytes disk storage	25,440	130.00	752	640
A24	58 megabytes disk storage, 131K fixed-head capacity	26,160	138.00	776	660
8140	Basic processor; includes main memory as indicated, 4K bytes non-programmable ROM, up to 64 megabytes disk storage with movable heads or up to 58 megabytes disk storage with removable and fixed heads, instruction set, eight I/O interrupt levels:				
A31	256K bytes of main memory, 29 megabytes disk storage	33,060	173.00	1,128	960
A32	256K bytes of main memory, 23 megabytes disk storage, 131K fixed-head capacity	33,780	181.00	1,152	980
A33	256K bytes of main memory, 64 megabytes disk storage	34,500	181.00	1,175	1,000
A34	256 bytes of main memory, 58 megabytes disk storage, 131K fixed-head capacity	35,220	189.00	1,199	1,020
A41	320K bytes of main memory, 29 megabytes disk storage, floating-point arithmetic	40,260	212.00	1,416	1,205
A42	320K bytes of main memory, 23 megabytes disk storage, 131K fixed-head capacity, floating-point arithmetic	40,980	220.00	1,439	1,225
A43	320K bytes of main memory, 64 megabytes disk storage, floating-point arithmetic	41,700	220.00	1,463	1,245
A44	320K bytes of main memory, 58 megabytes disk storage, 131K fixed-head capacity, floating-point arithmetic	42,420	228.00	1,486	1,265
A51	512K bytes of main memory, 29 megabytes disk storage	45,540	233.00	1,739	1,480
A52	512K bytes of main memory, 23 megabytes disk storage, 131K fixed-head capacity	46,260	241.00	1,763	1,500
A53	512K bytes of main memory, 64 megabytes disk storage	46,980	241.00	1,786	1,520
A54	512K bytes of main memory, 58 megabytes disk storage, 131K fixed-head capacity	47,700	249.00	1,810	1,540
1710	128K bytes additional storage for 8130 processor; maximum one per processor (cannot be used if 1720 storage is used)	2,250	7.50	82	70
1720	256K bytes additional storage for 8130 processor; maximum one per processor (cannot be used if 1710 storage is used)	4,500	14.50	165	140
1490	128K-byte storage increment for 8140 processor, models A31 through A34; maximum one per processor	6,240	30.00	306	260
8101	Storage and Input/Output Unit; provides additional disk storage and device attachment capability for 8130/40 processors; maximum two per 8130 processor, four per 8140 processor:				
A10	Device attachment capability	6,500	17.00	201	171
A11	Provides 29 megabytes disk storage with movable heads	14,970	55.50	477	406
A13	Provides 64 megabytes disk storage with movable heads	16,410	63.50	524	446
PROCESSOR OPTIONS AND FEATURES					
Features for 8130 Processors:					
1520	Feature Expansion, Type I; allows four additional communications ports to be attached to 8130 processor for a maximum of six ports; required for attachment of two lobe loops or communications features requiring 5200 multi-speed clock; maximum one per processor	405	0.50	14	12
1530	System Expansion; provides additional interrupt levels; required for attachment of up to two 8101 Storage and Input/Output Units or one 8101 and one 8809 Magnetic Tape Unit, Model 1B, to processor; maximum one per processor	2,400	10.50	71	60
5500	Non-Switched Integrated Modem, 600/1200 bps; requires 1601 SDLC Communications Adapter with Clock or 1603 BSC/SS Communications with Clock	668	5.00	19	16
Features for 8130 and 8140 Processors:					
1501	Display and Printer Attachment, Type I; provides attachment of 3277 display, 3287 printer, and 3284, 3286, or 3288 printers (8101 A11 and A13 units only); requires 1505/06 adapters	900	4.00	27	23
1502	Display and Printer Attachment, Type II	400	0.50	13	11

*Includes maintenance.

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EQUIPMENT PRICES

		Purchase Price	Monthly Maint.	Monthly Rental*	2-Year Lease*
PROCESSOR OPTIONS AND FEATURES (Continued)					
1503	Communications Attachment, Type I; provides attachment of loops and communication ports (8101 A11 and A13 units only)	900	4.00	27	23
1504	Communications Attachment, Type II	400	0.50	13	11
1505	Display and Printer Adapter	2,300	15.00	75	64
1506	Additional Display and Printer Adapter	420	3.00	13	11
1507	Diskette Drive/Tape Attachment	900	4.00	27	23
INPUT/OUTPUT UNITS AND FEATURES					
4520	Second Diskette Drive for 8101 Storage and Input/Output Unit; 1 megabyte	2,880	27.50	94	80
4521	Magnetic Tape Attachment for 8101 Storage and Input/Output Unit	1,800	9.00	59	50
1507	Diskette Drive and Magnetic Tape Attachment for Model A10; required for attachment of one 4520 diskette drive and one 4521 magnetic tape attachment to 8101 Storage and Input/Output Unit, Model A10	900	4.00	27	23
8010	Card Control Feature	875	1.50	29	25
8050	Card Reader Attachment for 3501 card reader	440	0.50	13	11
8149	Card Reader Attachment for 3782/2502	640	4.00	19	16
8150	Card Punch Attachment for 3782/3521	640	3.50	19	16
3287-11	Line Printer; 80 cps	5,875	54	204	174
3287-12	Line Printer; 120 cps	6,250	65.50	242	206
4110	Friction Feed Paper Handling	160	0.50	6	5
8700	Variable Width Forms Tractor	160	0.50	6	5
3289-1	Line Printer; 155 lpm	8,900	105.00	368	313
3289-2	Line Printer; 400 lpm	13,250	179.00	556	473
3289-3	Line Printer; 500 lpm	13,250	179.00	556	473
1090	Audible Alarm for 3289-1 or 3289-2 line printer	175	—	6	5
1130	Text Print Feature for 3289-1 or 3289-2 line printer	210	—	7	6
8809	Magnetic Tape Units:				
	1A First drive that attaches to 8101 Storage and I/O Unit	10,440	48.00	341	290
	1B First drive that attaches directly to 8130/40 processor	12,780	63.00	417	355
	2 Second or fourth drive that attaches to 1A/1B or 3, respectively	9,270	43.00	303	258
	3 Third drive that attaches to Model 2	10,440	48.00	341	290
4920	8100 System Multi-Drive Feature; required for 8809, Model 1B, if Model 2 or 3 is attached	360	1.00	12	10
8775-1	Display Terminal; up to 2560 characters in 9 × 16 matrix	2,835	19.00	74	63
8775-2	Display Terminal; up to 2560 characters in 9 × 16 matrix or 3440 characters in 9 × 12 matrix	3,195	19.00	83	71
1090	Audible Alarm	90	NC	2	2
3622	Feature Storage	720	3.00	19	16
3624	Enhanced Function; requires 3622 feature storage and 3905 feature adapter	NC	NC	NC	NC
3905	Feature Adapter; requires 3622 feature storage and 3624 enhanced function	405	1.50	11	9
4621	75-Key Typewriter Keyboard	495	2.50	13	11
4622	75-Key Data Entry Keyboard	495	3.50	13	11
4623	75-Key Data Entry Keyboard with keypunch layout	495	3.50	13	11
4626	87-Key Typewriter; APL	675	3.00	18	15
4627	87-Key Typewriter	675	3.00	18	15
4850	Loop Adapter	315	1.50	8	7
4999	Magnetic Reader Control	405	2.00	11	9
6350	Selector Light Pen	585	0.50	15	13
3640 PLANT COMMUNICATION DEVICES					
3641-1	Reporting Terminal	2,955	13.50	—	91**
3641-2	Reporting Terminal	3,530	15.00	—	107**
3642-1	Encoder Printer	5,775	31.50	—	191**
3642-2	Encoder Printer	6,825	38.00	—	226**
3643-2	Keyboard Display	2,445	27.00	—	99**
3643-3	keyboard Display	3,400	33.50	—	133**
3643-4	Keyboard Display	3,590	35.50	—	138**
3644	Automatic Data Unit	5,240	34.00	—	174**
4905	Manual I/O	1,480	6.50	—	45**
3645	Receive-Only Printer	4,700	44.00	—	191**
3646	Scanner Control Unit	2,555	11.00	—	78**
6351	Magnetic Reader Attachment	630	2.50	—	19**
3631	Plant Communication Controller:				
	1A 250K-byte diskette	26,300	224.00	1,042	887
	1B 500K-byte diskette	28,300	247.00	1,110	945
3632	Plant Communication Controller:				
	1A 5-megabyte disk	44,600	273.00	1,604	1,365
	1B 9.2-megabyte disk	47,600	281.00	1,698	1,445

* Includes maintenance.
**5-year lease.

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EQUIPMENT PRICES

		Purchase Price	Monthly Maint.	Monthly Rental*	2-Year Lease*
3640 PLANT COMMUNICATION DEVICES (Continued)					
1006	Additional Storage Feature	1,170	10.00	60	51
3211	Data Link Adapter	1,200	10.50	36	31
3701	EIA/CCITT Host	424	4.00	12	10
3703	EIA/CCITT Data Link	424	4.00	12	10
4780	Loop Adapter	940	17.50	32	27
4502	SDLC Communications Feature without clocking; to 9600 bps	1,200	10.50	36	31
6301	Host Communications Feature with clocking	710	3.00	19	16
6302	Host Communications Feature without clocking	477	2.50	12	10
1010/11	Additional Disk Heads for 3632 Plant Communication Controller	1,080	17.00	33	28
COMMUNICATIONS					
4850	Loop Adapter	945	3.50	25	21
3842	Loop Control Unit	5,725	42.50	—	215**
1051	Alternate Voice	455	2	—	15**
5101	Multipoint Tributary	424	4	—	17**
6101	Point-to-Point	212	2	—	9**
7951	Switched Network Back-Up Manual Answer	500	7	—	24**
1550	CCITT V.35 Interface; up to 9600 bps	510	2.00	15	13
1601	SDLC Communications Adapter with Clock	900	8.00	41	35
1602	SDLC Communications Adapter without Clock	840	7.50	35	30
1603	BSC/SS Communications Adapter with Clock	670	3.00	19	16
1604	BSC Communications Adapter without Clock	450	2.50	12	10
3701	EIA RS-232C Interface	400	4.00	12	10
4545	Expanded Function Operator Panel (8140 processor only)	2,400	30.50	82	70
4830	Loop Adapter	605	4.00	20	17
4835	Loop Adapter, Second Lobe	605	4.00	20	17
5200	Multi-Speed Clock	420	1.50	13	11
5501	Switched Integrated Modem	840	6.50	25	21
5560	Digital Data Service Adapter (DDSA)	840	2.00	24	20

* Includes maintenance.
**5-year lease.

SOFTWARE PRICES

	Monthly License Fee
Distributed Processing Control Executive (DPCX)	$215
Distributed Processing Programming Executive (DPPX):	
DPPX/Base	150
DPPX/ASSM	40
DPPX/COBOL Compiler	80
DPPX/COBOL Run-Time Library	15
DPPX/FORTRAN Compiler	60
DPPX/FORTRAN Library	30
DPPX/DPS Interactive Map Definition	65
DPPX/DPS Format Management	25
DPPX/DTMS (Data Base and Transaction Management System)	90
DPPX/DSC (Data Stream Compatibility)	15
DPPX/RJE	20
DPPX/SORT	20
DMS/DPPX	85
DPPX/GEN3644	15
Distributed Systems Executive (DSX)	175
Host Command Facility for 8100/DPCX systems	85
DPPX-PT Monitor	35
DPPX-PT Reporter Feature	40