

GA22-7002-27
File No. S370-00

Systems

**IBM System/370
Input/Output
Configurator**

IBM

Twenty-Eighth Edition (April 1988)

This major revision obsoletes GA22-7002-26. Changes or additions to the text and illustrations are indicated by a vertical line to the left of the change. This edition adds or deletes information about IBM products listed in the Summary of Amendments.

Changes are made periodically to the information herein; before using this publication in connection with the operation of IBM equipment, refer to the latest *IBM System/370, 30xx, 4300, and 9370 Processors Bibliography*, GC20-0001, for the editions that are applicable and current.

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This publication is a guide and reference intended for use by system planners who need to plan the attachment of input/output (I/O) equipment to System/370. It provides basic attachment information about current local and remote I/O equipment used with the following systems:

- The IBM System/370 Models 115, 115-2, 125, 125-2, 138, 148, 158, 158-3, 168, and 168-3
- The IBM 3031, 3032, 3033, 3081, 3083, 3084, and 3090 Processor Complexes

For information about I/O equipment attached to the IBM 4300 Processors or the IBM 9370 Information System, refer to the following publications:

- *IBM 4321/4331/4341 Processors: Summary and Input/Output & Data Communications Configurator*, GA33-1523
- *IBM 4361 Processor Summary*, GA33-1572
- *IBM 4381 Processor Summary and Input/Output & Data Communications Configurator*, GA24-3950
- *Planning for Your IBM 9370 Information System*, GA24-4032

For more detailed information about I/O equipment presented in this publication, refer to the appropriate product description manual for that I/O equipment. The *IBM System/370, 30xx, 4300, and 9370 Processors Bibliography*, GC20-0001, can be used to determine the appropriate publication for further reference.

I/O devices and equipment are announced and withdrawn, and specifications may be changed by IBM. For more information about these changes, contact your IBM marketing representative.

This publication contains the following sections:

- Section 1, "Local Input/Output (I/O) Equipment," provides a listing of the local I/O equipment by category, describes how to use the attachment information charts, and presents the attachment information for local I/O equipment.
- Section 2, "Remote Input/Output (I/O) Equipment," provides a listing of the remote I/O equipment by category, describes how to use the attachment information charts, and presents the attachment information for remote I/O equipment.
- Section 3, "Input/Output Device Priority," provides basic information about I/O device priority sequence.

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Summary of Amendments

This Summary of Amendments applies to GA22-7002-27 as revised April 1988.

The format of the information presented in Section 2, "Remote Input/Output (I/O) Equipment," has been modified.

ADDITIONS

The following I/O devices and equipment have been added to this publication:

3088 Multisystem Channel Communication Unit Model A1
3117 Scanner
3118 Scanner
3151 ASCII Display Station
3162 ASCII Display Station
3163 ASCII Display Station Models 860 and 861
3164 ASCII Color Display Station Models 860 and 861
3174 Subsystem Control Unit Models 81R and 82R
3180 Display Station Models 140 and 145
3191 Display Station Models A40, B40, D10, D20, D30, E10, E20, E30, L10, L20, L30, AD0, BD0, DX0, DY0, DZ0, EX0, EY0, EZ0, LX0, LY0, and LZ0
3192 Display Station
3194 Display Station Models C10, C20, C30, D10, D20, D30, H10, and H30
3206 Display Station
3232 Keyboard Printer Terminal Model 51
3274 Control Unit Models 41A and 41D
3275 Display Station Models 1 and 11
3278 Display Console Model 2A
3299 Terminal Multiplexer
3370 Direct Access Storage
3380 Direct Access Storage Models AJ4, AK4, BJ4, BK4, and CJ2
3480 Magnetic Tape Control Model A11
3480 Magnetic Tape Unit Model B11
3721 Expansion Unit
3727 Operator Console Model 70
3745 Communication Controller
3746 Expansion Unit
3791 Communications Controller Models 1A and 1B
3800 Printing Subsystem Model 6
3812 Page Printer Model 2
3852 Color Jetprinter
3892 Document Processor
3979 Expansion Unit
3990 Storage Control
4201 Proprinter, Proprinter II
4202 Proprinter XL
4248 Line Printer Model 2
4250 4250/II ElectroCompositor Model 2
4732 Personal Banking Machine

5081 Color Graphics Display Models 16 and 19
5082 Projection System, Multi-Media Adapter
5083 Tablet, CursorPad Tablet
5084 Digitizer
5085 Graphics Processor Model 2A
5087 Graphics Screen Printer
5088 Remote Graphics Controller Models 1R and 11R
5110 Computing System
5120 Computing System
5162 Personal Computer XT Model 286
5201 Quietwriter Printer
5202 Quietwriter III Printer
5277 Mouse
5371 3270 Personal Computer/G, -/GX
5373 3270 Personal Computer AT/G, AT/GX
5531 Industrial Computer
5811 Limited Distance Modem Models 20 and 28
5812 Limited Distance Modem Models 10 and 18
5822 Data Service Unit/Channel Service Unit
5853 Modem
6182 Auto Feed Color Plotter
6184 Color Plotter
6186 Color Plotter
7170 Device Attachment Control Unit
7350 Color Image Processing System
7351 Color Image Processing Control Unit
7352 Color Image Display Station
7353 Conversational Monitor Station
7426 Terminal Interface Unit
8525 Personal System/2 Model 25
8530 Personal System/2 Model 30
8550 Personal System/2 Model 50
8560 Personal System/2 Model 60
8580 Personal System/2 Model 80
8815 Scanmaster I Models 3 and 4

DELETIONS

The following I/O devices and equipment have been deleted from this publication:

1001 Data Transmission Terminal
1017 Paper Tape Reader
1018 Paper Tape Punch
1030 Data Collection System
1031 Input Station
1050 Data Communication System
1052 Printer-Keyboard
1130 Computing System
1259 Magnetic Character Reader
1287 Optical Reader (Models 2 and 4 only)
1800 Data Acquisition and Control System
2020 S/360 Model 20

2022	S/360 Model 22	2780	Data Transmission Terminal
2025	S/360 Model 25	2790	Data Communication System
2030	S/360 Model 30	2803	Magnetic Tape Control
2040	S/360 Model 40	2804	Magnetic Tape Control
2044	S/360 Model 44	2816	Magnetic Tape Switching Unit
2050	S/360 Model 50	2820	Storage Control
2065	S/360 Model 65	2822	Paper Tape Reader Control
2067	S/360 Model 67	2826	Paper Tape Control Unit
2075	S/360 Model 75	2835	Fixed Head Storage Control (Model 1 only)
2085	S/360 Model 85	2841	Storage Control Unit
2091	S/360 Model 91	2844	Auxiliary Storage Control
2150	Console	2845	Display Control
2265	Display Station	2848	Display Control
2301	Drum Storage Unit	3135	S/370 Models 135 and 135-3
2303	Drum Storage Unit	3145	S/370 Models 145, 145-2, and 145-3
2305	Fixed Head Storage (Model 1 only)	3155	S/370 Models 155 and 155-II
2311	Disk Storage Drive	3165	S/370 Models 165 and 165-II
2314	Disk Storage Facility	3210	Console Printer/Keyboard
2321	Data Cell Drive	3215	Console Printer/Keyboard
2401	Magnetic Tape Unit	3735	Programmable Buffered Terminal
2415	Magnetic Tape Unit and Control	3780	Data Communication Terminal
2420	Magnetic Tape Unit	5404	S/3 Model 4
2495	Magnetic Tape Cartridge Reader	5406	S/3 Model 6
2596	Card Reader/Punch	5408	S/3 Model 8
2671	Paper Tape Reader	5410	S/3 Model 10
2702	Transmission Control Unit	5412	S/3 Model 12
2703	Transmission Control Unit	5425	Multi-function Card Unit
2715	Transmission Control Unit		

Section 1. Local Input/Output (I/O) Equipment

The following I/O devices, control units, subsystems, and systems can operate locally as part of System/370. They are arranged first by category and then, in the chart entitled "Local I/O Device and Control Unit Attachment Data," by machine type and model or by system. The chart, when used with the legend and the notes that follow the chart, provides comparative information, by System/370 processor, for the local attachment of current IBM equipment.

LOCAL I/O EQUIPMENT CATEGORIES

Audio Communication Device

7770 Audio Response Unit Model 3

Auxiliary Processors

3838 Array Processor Models 1, 2, and 3

Color Plotters

6180 Color Plotter Models 1 and 2
6182 Auto Feed Color Plotter Model 1
6184 Color Plotter Model 1
6186 Color Plotter Models 1 and 2
7371 Color Plotter Model 1
7372 Color Plotter Model 1
7374 Color Plotter Model 1
7375 Color Plotter Models 1 and 2

Consoles

3036 Console Model 1
3056 Remote System Console Model 1
3066 System Console Models 2 and 3
3206 Display Station Models 100 and 110
3278 Display Console Model 2A
3727 Operator Console Model 70

Control Units

2821 Control Unit Models 1, 2, 3, 5, and 6
2835 Storage Control Model 2
2840 Display Control Model 2
3174 Control Unit Model 1L
3255 Display Control Models 1 and 2
3258 Control Unit Model 1
3272 Control Unit Models 1 and 2

3274 Control Unit Models 1A, 1B, 1D, 21A, 21B, 21D, 31A, 31D, 41A, and 41D
3299 Terminal Multiplexer Models 1, 2, and 3
3333 Disk Storage and Control Models 1 and 11
3380 Direct Access Storage Direct Channel Attach Model CJ2
3430 Magnetic Tape Unit and Control Model A01
3480 Control Unit Models A11 and A22
3791 Controller Models 1A, 1B, 1C, 2A, 2B, 11C, 12A, and 12B
3803 Tape Control Models 1, 2, and 3
3811 Printer Control Unit Model 1
3814 Controller Models A1, A2, A3, and A4
3830 Storage Control Models 1, 2, and 3
3851 Mass Storage Facility Models A01, A02, A03, A04, A11, A12, A13, A21, A22, A31, B01, B02, B03, B04, B11, B12, B13, B21, B22, and B31
3880 Storage Control Models 1, 2, 3, 11, 13, 21, and 23
3979 Expansion Unit Model 1
3990 Storage Control Models 1, 2, and 3
5082 Multi-Media Adapter Model 1C
5085 Graphics Processor Models 1, 1A, 2, and 2A
5088 Graphics Channel Controller Models 1 and 2
7170 Device Attachment Control Unit Model 1
7171 ASCII Device Attachment Control Unit Model 1
7351 Control Unit Models 1, 2, 3, 4, 5, and 6

Data Encryption Device

3848 Cryptographic Unit Model 1

Data Transmission Controllers

2701 Data Adapter Unit Model 1
3704 Communications Controller Models A1, A2, A3, and A4
3705 Communications Controller Models A1, A2, B1, B2, B3, B4, C1, C2, C3, C4, C5, C6, D1, D2, D3, D4, D5, D6, D7, D8, E1, E2, E3, E4, E5, E6, E7, E8, F1, F2, F3, F4, F5, F6, F7, F8, G1, G2, G3, G4, G5, G6, G7, G8, H1, H2, H3, H4, H5, H6, H7, H8, J1, J2, J3, J4, K1, K2, K3, K4, L1, L2, L3, L4, M81, M82, and M83
3720 Communication Controller Models 1 and 11
3721 Expansion Unit Models 1 and 2
3725 Communication Controller Models 1 and 2
3726 Communication Controller Expansion Model 1
3745 Communication Controller Models 210 and 410
3746 Expansion Unit Models A11, A12, L13, and L14

Direct Access Storage Devices

- | 2305 Fixed Head Storage Model 2
- 3330 Disk Storage Models 1, 2, and 11
- 3333 Disk Storage and Control Models 1 and 11
- | 3340 Disk Storage Models A2, B1, and B2
- | 3344 Disk Storage Models B2 and B2F
- 3350 Direct Access Storage Models A2, A2F, B2, B2F, C2, and C2F
- | 3370 Direct Access Storage Model A2
- 3375 Direct Access Storage Models A1, B1, and D1
- | 3380 Direct Access Storage Models A04, AA4, AD4, AE4, AJ4, AK4, B04, BD4, BE4, BJ4, and BK4
- | 3380 Direct Access Storage Direct Channel Attach Model CJ2

Diskette Input/Output Devices

- 3540 Diskette Input/Output Unit Models B1 and B2

Display Devices

- 2250 Display Unit Models 1 and 3
- | 3178 Display Station Models C1, C2, C3, and C4
- 3179 Color Display Station Model 1
- 3179 Color Graphics Display Station Models G1 and G2
- 3180 Display Station Models 110, 120, 130, 140, and 145
- | 3191 Display Station Models A10, A20, A30, A40, B10, B20, B30, B40, D10, D20, D30, E10, E20, E30, L10, L20, L30, AD0, BD0, DX0, DY0, DZ0, EX0, EY0, EZ0, LX0, LY0, and LZ0
- 3192 Color Display Station Models C10, C20, C30, CD0, CE0, CF0, F10, F20, F30, FD0, FE0, FF0, L10, L20, L30, LD0, LE0, and LF0
- 3192 Display Station Models D10, D20, D30, W10, W20, W30, WD0, WE0, and WF0
- 3192 Color Graphics Display Station Models G10, G20, G30, G40, GD0, GE0, GF0, and GG0.
- 3193 Display Station Models O10 and O20
- | 3194 Display Station Models C10, C20, C30, D10, D20, D30, H10, H20, H30, and H50
- 3251 Display Station Model 1
- 3277 Display Station Models 1 and 2
- | 3278 Display Station Models 1, 2, 3, 4, and 5
- 3279 Color Display Station Models 2A, 2B, 2X, 3A, 3B, 3X, S2A, S2B, and S3G
- 3290 Information Panel Models 1, 220, and 230
- 3732 Text Display Station Model 1
- 5081 Display Models 1, 2, 11, 12, 16, and 19
- 5082 Projector Model 1
- 7352 Color Image Display Station Model 1
- | 7353 Conversational Monitor Station Model 1

Intersystem Communication Devices

- | 3088 Multisystem Channel Communication Unit Models 1, 2, and A1
 - Channel-to-Channel Adapter

Magnetic Character Readers

- | 1255 Magnetic Character Reader Models 1, 2, and 3
- 1419 Magnetic Character Reader Model 1
- | 3890 Document Processor Models A1, A2, A3, A4, A5, A6, B1, B2, B3, B4, B5, B6, E2, E3, E4, E5, E6, F2, F3, F4, F5, and F6
- 3895 Document Reader/Inscriber Models 1 and 2

Magnetic Tape Devices

- 3410 Magnetic Tape Unit Models 1, 2, and 3
- 3411 Magnetic Tape Unit and Control Models 1, 2, and 3
- | 3420 Magnetic Tape Unit Models 3, 4, 5, 6, 7, and 8
- 3422 Magnetic Tape Unit and Control Model A01
- 3422 Magnetic Tape Unit Model B01
- 3430 Magnetic Tape Unit and Control Model A01
- 3430 Magnetic Tape Unit Model B01
- | 3480 Magnetic Tape Unit Models B11 and B22

Mass Storage Devices

- | 3851 Mass Storage Facility Models A01, A02, A03, A04, A11, A12, A13, A21, A22, A31, B01, B02, B03, B04, B11, B12, B13, B21, B22, and B31

Optical Readers

- | 1287 Optical Reader Models 1, 3, and 5
- 1288 Optical Page Reader Model 1
- 3881 Optical Mark Reader Model 1
- 3886 Optical Character Reader Model 1
- 3895 Document Reader/Inscriber Models 1 and 2

Optical Scanners

- | 3117 Scanner Model O10
- | 3118 Scanner Models O10 and O20

Pointing Devices

5083 Tablet Models 1, 12, and 12A
5083 CursorPad™ Tablet Models 11 and 11A
5084 Digitizer Models 1, 2, and 3
5277 Mouse Model 1

Printers

1403 Printer Models 2, 7, and N1
1443 Printer Model N1
3203 Printer Models 1, 2, 4, and 5
3211 Printer Model 1
3213 Console Printer Model 1
3230 Printer Model 2
3262 Line Printer Models 3, 5, and 13
3268 Printer Models 2 and 2C
3284 Printer Models 1 and 2
3286 Printer Models 1 and 2
3287 Printer Models 1, 1C, 2, and 2C
3288 Line Printer Model 2
3289 Line Printer Models 1 and 2
3736 Printer Model 1
3800 Printing Subsystem Models 1, 3, and 6
3812 Pageprinter Model 2
3852 Color Jetprinter Model 2
4201 Proprinter™ Model 1
4201 Proprinter II Model 2
4202 Proprinter XL Model 1
4224 Printer Models 201, 202, 2C2, and 2E2
4234 Dot Band Printer Model 1
4245 Line Printer Models 1, 12, 20, D12, and D20
4248 Printer Models 1 and 2
4250 Printer Model 1
4250 4250/II ElectroCompositor™ Model 2
5087 Screen Printer Model 1
5201 Quietwriter® Printer Model 2
5202 Quietwriter III Printer Model 1
5203 Printer Model 3
5210 Printer Models G01 and G02
5213 Printer Model 1

Punched-Card Devices

1442 Card Read Punch Model N1
1442 Card Punch Model N2
2501 Card Reader Models B1 and B2
2520 Card Read Punch Model B1
2520 Card Punch Models B2 and B3
2540 Card Read Punch Model 1
2560 Multi-function Card Machine Models A1 and A2
3504 Card Reader Models A1 and A2
3505 Card Reader Models B1 and B2
3525 Card Punch Models P1, P2, and P3

System/370 I/O Interface

3044 Fiber-Optic Channel Extender Link Models C01 and D01
3814 Controller Models A1, A2, A3, and A4
3814 Remote Unit Models B1, B2, B3, and B4
3814 Expansion Unit Models C1, C2, C3, and C4

Subsystems

2305 Fixed Head Storage Facility
3250 Graphics Display System
3270 Information Display System
3422 Magnetic Tape Subsystem
3430 Magnetic Tape Subsystem
3480 Magnetic Tape Subsystem
3814 Switching Management System
3850 Mass Storage System
5080 Graphics System
7350 Image Processing System

Systems

– Series/1
3730 Distributed Office Communication System
3790 Communication System
5150 Personal Computer
5160 Personal Computer XT™
5160 Personal Computer XT/370
5162 Personal Computer XT Model 286
5170 Personal Computer AT®
5170 Personal Computer AT/370
5271 3270 Personal Computer
5273 3270 Personal Computer AT
5371 3270 Personal Computer/Graphics
5371 3270 Personal Computer/Extended Graphics
5373 3270 Personal Computer AT/G
5373 3270 Personal Computer AT/GX
5531 Industrial Computer
6150 RT Personal Computer™
6151 RT Personal Computer
6580 Displaywriter™ System
7552 Industrial Computer
8525 Personal System/2® Model 25
8530 Personal System/2 Model 30
8550 Personal System/2 Model 50
8560 Personal System/2 Model 60
8580 Personal System/2 Model 80

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HOW TO FIND LOCAL I/O ATTACHMENT DATA

The "Local I/O Device and Control Unit Attachment Data" chart contains symbols (for example, "bmsx") that are defined in the legend following the chart, and circled numbers (for example, ③) that are defined in the "Local I/O Attachment Data Notes" following the legend.

To determine data for a particular local I/O device, find the machine type and model or system number in the chart and read across from left to right. For example, in reading data for the 1403 Printer Model 2, the "Attaches to" and "Means of Attachment to System/370 Processor" columns indicate that the 1403 can be attached to a System/370 processor either by a 2821-1, -2, -3, or -5 Control Unit and a system channel, or by an integrated printer adapter on the processor (indicated by an arrow pointing to the "i" symbol). If the 2821 is used, attachment by channel to the 3125 is by byte

multiplexer channel only (indicated by "m"), whereas attachment by channel to the 3168 or 3168-3 can be by byte multiplexer channel, block multiplexer channel, selector channel, or by a selector subchannel of the byte multiplexer channel (indicated by "bmsx"). Considering performance and throughput, the preferred channel for attachment is the block multiplexer channel (indicated by the underlined "b" symbol). If the 2821 with the 1403 is attached to a block multiplexer channel, the preferred UCW assignment (plugging) is unshared (U). The number of 1403s that can be used with a 2821 attached to a channel is indicated as note ④, which can be found in the "Local I/O Attachment Data Notes." The number of 1403s that can be attached by integrated printer adapter to the 3125 is one for each system. Note ⑤ states that the 1403 cannot be attached by integrated adapter to the 3115.

LOCAL I/O DEVICE AND CONTROL UNIT ATTACHMENT DATA

Input/Output (I/O) Device or Control Unit			Attaches to	Means of Attachment to System/370 Processor							Channel UCW Assignment (Except 3081, 3083, 3084, and 3090) ②	I/O Devices or Lines Attachable		
Machine Type	Models	Name		3115 3125	3138	3148	3158 3158-3	3168 3168-3	3031 3032 3033 ①	3081 3083 3084			3090	
	1255	1, 2, 3	Magnetic Character Reader	S/360/370 Adapter	m	<u>bm</u>	<u>bm</u>	<u>bm</u>	—	—	—	—	—	1 per system
I	1287	1, 3	Optical Reader	→	—	<u>bm</u>	<u>bm</u>	<u>bm</u>	<u>mx</u>	<u>bm</u>	—	—	U	8 per system
		5	Optical Reader	→	m	<u>bm</u>	<u>bm</u>	<u>bm</u>	<u>mx</u>	<u>bm</u>	—	—	U	③
	1288	1	Optical Page Reader	→	—	<u>bm</u>	<u>bm</u>	<u>bm</u>	<u>mx</u>	<u>bm</u>	—	—	U	8 per system
	1403	2, 7, N1	Printer	2821-1, -2, -3, -5										④
I				→	i ⑤	i	—	—	—	—	—	—	—	1 per system
	1419	1	Magnetic Character Reader	S/360 Adapter (#7720)	m	<u>bm</u>	<u>bm</u>	<u>bm</u>	<u>msx</u>	<u>bm</u>	—	—	—	③
				S/360 Adapter (#7730)	m	m	m	m	m	m	—	—	—	③
	1442	N1	Card Read Punch	→	m	<u>bm</u>	<u>bm</u>	<u>bm</u>	<u>bmsx</u>	<u>bm</u>	—	—	U	③
		N2	Card Punch	→	m	<u>bm</u>	<u>bm</u>	<u>bm</u>	<u>bmsx</u>	<u>bm</u>	—	—	U	③
	1443	N1	Printer	→	m	<u>bm</u>	<u>bm</u>	<u>bm</u>	<u>bmsx</u>	<u>bm</u>	—	—	U	③
	2250	1	Display Unit	→	m	m	<u>bm</u>	<u>bm</u>	<u>bsx</u>	<u>bm</u>	—	—	SS	③
		3	Display Unit	2840-2										4 per 2840
	2305	—	Fixed Head Storage Facility	See 2305-2										
	2305	2	Fixed Head Storage	2835-2										2 per 2835
	2501	B1, B2	Card Reader	→	m	<u>bm</u>	<u>bm</u>	<u>bm</u>	<u>bmsx</u>	<u>bm</u>	m	m	U	③
	2520	B1	Card Read Punch	→	m	<u>bm</u>	<u>bm</u>	<u>bm</u>	<u>bmsx</u>	<u>bm</u>	—	—	U	③
		B2, B3	Card Punch	→	m	<u>bm</u>	<u>bm</u>	<u>bm</u>	<u>bmsx</u>	<u>bm</u>	—	—	U	③
	2540	1	Card Read Punch	2821-1, -5, -6										④
	2560	A1	Multi-function Card Machine	→	i	—	—	—	—	—	—	—	—	1 per system
I		A2	Multi-function Card Machine	→	i ⑤	—	—	—	—	—	—	—	—	1 per system
	2701	1	Data Adapter Unit	→	m	<u>bm</u>	<u>bm</u>	<u>bm</u>	<u>bmsx</u>	<u>bm</u>	<u>bm</u> ⑥	<u>bm</u> ⑥	U	4 lines max
	2821	1, 2, 3, 5, 6	Control Unit	→	m	<u>bm</u>	<u>bm</u>	<u>bm</u>	<u>bmsx</u>	<u>bm</u>	<u>bm</u>	<u>bm</u>	U	③ ④
	2835	2	Storage Control	→	—	—	b	b	b	b	b	—	U	⑦
	2840	2	Display Control	→	m	<u>bm</u>	<u>bm</u>	<u>bm</u>	<u>bsx</u>	<u>bm</u>	m	—	SS	③
	3036	1	Console	→	—	—	—	—	—	<u>bm</u> ⑧	—	—	U	⑨
	3044	C01	Fiber-Optic Channel Extender Link	→	—	—	—	—	—	<u>bm</u>	<u>bm</u>	<u>bm</u>	—	⑩
		D01	Fiber-Optic Channel Extender Link	3044-C01										⑩
	3056	1	Remote System Console	→	—	—	—	i	—	—	—	—	—	⑪
	3066	2, 3	System Console	→	—	—	—	—	<u>bmsx</u>	—	—	—	—	⑪
	3088	1, 2, A1	Multisystem Channel Communication Unit	→	—	—	—	—	—	b	b	b	U	③
	3117	010	Scanner	3193										
	3118	010, 020	Scanner	3193										
	3174	1L	Control Unit	→	—	—	—	—	—	—	<u>bm</u>	<u>bm</u>	—	③ ⑫
	3178	C1, C2, C3, C4	Display Station	3174, 3274, 3299										⑫

LOCAL I/O DEVICE AND CONTROL UNIT ATTACHMENT DATA (Continued)

Input/Output (I/O) Device or Control Unit			Attaches to	Means of Attachment to System/370 Processor							Channel UCW Assignment (Except 3081, 3083, 3084, and 3090) ②	I/O Devices or Lines Attachable	
Machine Type	Models	Name		3115 3125	3138	3148	3158 3158-3	3168 3168-3	3031 3032 3033 ①	3081 3083 3084			3090
3179	1	Color Display Station	3174, 3274, 3299										⑫
	G1, G2	Color Graphics Display Station	3174, 3274, 3299										⑫
3180	110, 120, 130	Display Station	3174, 3274, 3299										⑫
	140, 145	Display Station	→	-	-	-	-	-	-	-	i	-	⑬
3191	A10, A20, A30, A40, B10, B20, B30, B40, D10, D20, D30, E10, E20, E30, L10, L20, L30, AD0, BD0, DX0, DY0, DZ0, EX0, EY0, EZ0, LX0, LY0, LZ0	Display Station	3174, 3274, 3299										⑫
3192	C10, C20, C30, CD0, CE0, CF0, F10, F20, F30, FDO, FE0, FFO, L10, L20, L30, LD0, LE0, LFO	Color Display Station	3174, 3274, 3299										⑫
	D10, D20, D30, W10, W20, W30, WDO, WEO, WFO	Display Station	3174, 3274, 3299										⑫
	G10, G20, G30, G40, GDO, GE0, GF0, GGO	Color Graphics Display Station	3174, 3274, 3299										⑫
3193	O10, O20	Display Station	3174, 3274, 3299										⑫
3194	C10, C20, C30, D10, D20, D30, H10, H20, H30, H50	Display Station	3174, 3274, 3299										⑫
3203	1, 2	Printer	→	i	-	-	-	-	-	-	-	-	1 per system
	4	Printer	→	-	i	i	-	-	-	-	-	-	2 per system
	5	Printer	→	m	<u>bm</u>	<u>bm</u>	<u>bm</u>	<u>bmsx</u>	<u>bm</u>	<u>bm</u>	<u>bm</u>	U	③
3206	100, 110	Display Station	→	-	-	-	-	-	-	-	i	-	⑬
3211	1	Printer	3811-1										1 per 3811
3213	1	Console Printer	→	-	-	-	i	i ⑭	-	-	-	-	1 per system
3230	2	Printer	3274, 3299										⑫
			→	-	-	-	-	-	-	i	-	-	⑮
3250	-	Graphics Display System	See 3258										

LOCAL I/O DEVICE AND CONTROL UNIT ATTACHMENT DATA (Continued)

Input/Output (I/O) Device or Control Unit			Attaches to	Means of Attachment to System/370 Processor							Channel UCW Assignment (Except 3081, 3083, 3084, and 3090) ②	I/O Devices or Lines Attachable	
Machine Type	Models	Name		3115 3125	3138	3148	3158 3158-3	3168 3168-3	3031 3032 3033 ①	3081 3083 3084			3090
3251	1	Display Station	3255-1 3255-2										2 per 3255-1 3 per 3255-2
3255	1, 2	Display Control	3258, 5088										⑬
3258	1	Control Unit	→	m	b	b	b	bs	b	b	b	SB	③
3262	3, 13	Line Printer	3174, 3274, 3299										⑫
	5	Line Printer	→	-	bm	bm	bm	bmsx	bm	bm	bm	U	③
3268	2	Printer	3174, 3274, 3299										⑫
	2C	Printer	→	-	-	-	-	-	-	i	-	-	⑮
		Printer	3174, 3274, 3299										⑫
3270	-	Information Display System	See 3174, 3272, 3274										
3272	1, 2	Control Unit	→	m	bm	bm	bm ⑰	bmsx ⑱	bm ⑰	bm ⑰	bm ⑰	⑲	③ ⑳
3274	1A, 21A, 31A, 41A	Control Unit	→	m	bm	bm	bm	bmsx ⑱	bm	bm	bm	⑳	③ ⑫
	1B, 1D, 21B, 21D, 31D, 41D	Control Unit	→	m	bm	bm	bm	bms ⑱	bm	bm	bm	㉒	③ ⑫
3277	1, 2	Display Station	3272, 3274										⑫ ⑳
3278	1, 3, 4, 5	Display Station	3174, 3274, 3299, 7351										⑫
	2	Display Station	3174, 3274, 3299, 7351										⑫
		→		-	-	-	-	-	-	i	-	-	⑮
	2A	Display Console	→	-	-	-	-	-	-	i	-	-	⑮
3279	2A, 2B, 2X, 3A, 3B, 3X, S2A, S2B, S3G	Color Display Station	3174, 3274, 3299										⑫
3284	1, 2	Printer	3272, 3274										⑫ ⑳
3286	1	Printer	3272, 3274										⑫ ⑳
	2	Printer	3272, 3274										⑫ ⑳
		→		-	i	i	-	-	-	-	-	-	1 per system
3287	1, 2	Printer	3174, 3272, 3274, 3299										⑫ ⑳
		→		-	i	i	-	-	-	i ⑮	i ⑬	-	1 per system
	1C, 2C	Printer	3174, 3274, 3299										⑫
3288	2	Line Printer	3272, 3274										⑫ ⑳
3289	1, 2	Line Printer	3274, 3299										⑫
3290	1, 220, 230	Information Panel	3174, 3274, 3299										⑫ ㉓
3299	1, 2, 3	Terminal Multiplexer	3174, 3274-41A, -41D										⑳
3330	1, 2	Disk Storage	3333-1, -11										㉕ ㉖ ㉗
			3830-1										㉕ ㉖ ㉗
	11	Disk Storage	3333-1, -11										㉕ ㉖ ㉗

LOCAL I/O DEVICE AND CONTROL UNIT ATTACHMENT DATA (Continued)

Input/Output (I/O) Device or Control Unit			Attaches to	Means of Attachment to System/370 Processor							Channel UCW Assignment (Except 3081, 3083, 3084, and 3090) ②	I/O Devices or Lines Attachable	
Machine Type	Models	Name		3115 3125	3138	3148	3158 3158-3	3168 3168-3	3031 3032 3033 ①	3081 3083 3084			3090
3333	1	Disk Storage and Control	3830-2, -3 →	i ⑤	i	i	i	i	-	-	-	U	②5 ②6 ②7 ②5 ②6 ②7 ②5 ②6 ②7
	11	Disk Storage and Control	3830-2, -3 → 3880-1, -2	-	i	i	i	i	-	-	-	U	②5 ②6 ②7 ②5 ②6 ②7 ②5 ②6 ②7
3340	A2	Disk Storage	→ 3830-2 3880-1, -2	i	i	i	i	i	-	-	-	U	②7 ②8 ②9 ②7 ②8 ②9 ②7 ②8 ②9
	B1, B2	Disk Storage	3340-A2										②7 ②8 ②9
	3344 B2, B2F	Disk Storage	3340-A2										②7 ②8 ②9
3350	A2, A2F	Direct Access Storage	→ 3830-2, -3 3880-1, -2, -11, -21	-	-	i	i	i	-	-	-	U	②6 ②7 ③0 ②6 ②7 ③0 ②7 ③0
	B2, B2F	Direct Access Storage	3350-A2, -A2F										②6 ②7 ③0
	C2, C2F	Direct Access Storage	3350-A2, -A2F, -B2, -B2F										②6 ②7 ③0
	3370 A2	Direct Access Storage	→	-	-	-	-	-	-	-	i	-	⑬
3375	A1	Direct Access Storage	3880-1, -2										⑲ ⑳
	B1	Direct Access Storage	3375-A1										⑲ ⑳
	D1	Direct Access Storage	3375-B1										⑲ ⑳
3380	A04	Direct Access Storage	3880-2, -3										⑲ ⑳
	AA4	Direct Access Storage	3880-2, -3, -13, -23, 3990										⑲ ⑳
	B04	Direct Access Storage	3380-A04, -AA4										⑲ ⑳
	AD4, AE4	Direct Access Storage	3880-3, -23, 3990										⑲ ⑳
	BD4, BE4	Direct Access Storage	3380-AD4, -AE4										⑲ ⑳
	AJ4, AK4	Direct Access Storage	3880-3, -23, 3990										⑲ ⑳
	BJ4, BK4	Direct Access Storage	3380-AJ4, -AK4, -CJ2										⑲ ⑳
	CJ2	Direct Access Storage Direct Channel Attach	→	-	-	-	-	-	-	b	b	-	⑲ ⑳
3410	1	Magnetic Tape Unit	3411-1										3 per 3411-1
	2	Magnetic Tape Unit	3411-2										5 per 3411-2
	3	Magnetic Tape Unit	3411-3										5 per 3411-3
3411	1, 2, 3	Magnetic Tape Unit and Control	→ →	-	bm	bm	b	-	bm ⑳	-	-	SS	③
	3420 3, 5	Magnetic Tape Unit	3803-1, -2, -3	i	-	-	-	-	-	-	-	-	1 per system
3420	7	Magnetic Tape Unit	3803-1, -2										⑳
	4, 6, 8	Magnetic Tape Unit	3803-2										⑳

LOCAL I/O DEVICE AND CONTROL UNIT ATTACHMENT DATA (Continued)

Input/Output (I/O) Device or Control Unit			Attaches to	Means of Attachment to System/370 Processor							Channel UCW Assignment (Except 3081, 3083, 3084, and 3090) ②	I/O Devices or Lines Attachable	
Machine Type	Models	Name		3115 3125	3138	3148	3158 3158-3	3168 3168-3	3031 3032 3033 ①	3081 3083 3084			3090
3422	—	Magnetic Tape Subsystem	See 3422-A01										
3422	A01	Magnetic Tape Unit and Control	→	—	—	—	—	—	—	b	b	—	③
	B01	Magnetic Tape Unit	→	—	—	—	—	—	—	—	i	—	⑬
			3422-A01										7 per 3422-A01
3430	—	Magnetic Tape Subsystem	See 3430-A01										
3430	A01	Magnetic Tape Unit and Control	→	—	b	b	b	bs	b	—	—	SS	③
	B01	Magnetic Tape Unit	→	—	—	—	—	—	—	—	—	—	3 per 3430-A01
3480	—	Magnetic Tape Subsystem	See 3480-A11, -A22										
3480	A11, A22	Control Unit	→	—	—	—	—	—	b	b	b	U	③ ③⑤
	B11	Magnetic Tape Unit	→	—	—	—	—	—	—	—	i	—	⑬
	B22	Magnetic Tape Unit	→	—	—	—	—	—	—	—	—	—	③⑤
3504	A1, A2	Card Reader	→	i ⑤	—	—	—	—	—	—	—	—	1 per system
3505	B1, B2	Card Reader	→	m	bm	bm	bm	bmsx	bm	bm	m	U	③
3525	P1, P2, P3	Card Punch	→	—	—	—	—	—	—	—	—	—	1 per 3505
			→	i ⑤	—	—	—	—	—	—	—	—	1 per system
3540	B1, B2	Diskette Input/Output Unit	→	m	bm	bm	bm	bms	bm	—	—	—	③
3704	A1, A2, A3, A4	Communications Controller	→	m	m	m	m	m	m	m	m	—	32 lines
3705	A1, A2, B1, B2, B3, B4, C1, C2, C3, C4, C5, C6, D1, D2, D3, D4, D5, D6, D7, D8, E1, E2, E3, E4, E5, E6, E7, E8, F1, F2, F3, F4, F5, F6, F7, F8, G1, G2, G3, G4, G5, G6, G7, G8, H1, H2, H3, H4, H5, H6, H7, H8, J1, J2, J3, J4, K1, K2, K3, K4, L1, L2, L3, L4, M81, M82, M83	Communications Controller	→	m	m	m	m	m	m	m	m	—	352 lines
			→	—	bm	bm	bm	bmsx	bm	bm	bm	U	352 lines
			→	—	bm	bm	bm	bmsx	bm	bm	bm	—	352 lines
3270	1, 11	Communication Controller	→	—	bm	bm	bm	bmsx	bm	bm	bm	U	③ ③⑦
3721	1, 2	Expansion Unit	→	—	—	—	—	—	—	—	—	—	1 per 3720
3725	1, 2	Communication Controller	→	—	bm	bm	bm	bmsx	bm	bm	bm	U	③ ③⑧
3726	1	Communication Controller Expansion	→	—	—	—	—	—	—	—	—	—	1 per 3725-1
3727	70	Operator Console	→	—	—	—	—	—	—	—	—	—	2 per 3725, 3745
3730	—	Distributed Office Communication System	→	—	—	—	—	—	—	—	—	—	See 3791-11C, -12A, -12B

LOCAL I/O DEVICE AND CONTROL UNIT ATTACHMENT DATA (Continued)

Input/Output (I/O) Device or Control Unit			Attaches to	Means of Attachment to System/370 Processor							Channel UCW Assignment (Except 3081, 3083, 3084, and 3090) ②	I/O Devices or Lines Attachable	
Machine Type	Models	Name		3115 3125	3138	3148	3158 3158-3	3168 3168-3	3031 3032 3033 ①	3081 3083 3084			3090
3732	1	Text Display Station	→										30 per 3791
3736	1	Printer	→										30 per 3791
3745	210, 410	Communication Controller	→	—	—	—	—	—	bm ③③	bm	bm	U	③ ③⑨
3746	A11, A12, L13, L14	Expansion Unit	→										③⑨
3790	—	Communication System	→										
3791	1A, 1B, 1C, 2A, 2B, 11C, 12A, 12B	Controller	→	m	bm	bm	bm	bm	bm	bm	bm	—	③
3800	1	Printing Subsystem	→	—	—	bm	bm	bmsx ④④	bm	bm	b	—	③
	3	Printing Subsystem	→	—	—	—	b	bsx ④④	b	b	b	—	③
	6	Printing Subsystem	→	—	—	—	—	—	—	b	b	—	③
3803	1	Tape Control	→	—	b	b	b	bs	b	b	b	SS	③
	2	Tape Control	→	—	b	b	b	bs	b	b	b	SS	③
			→	—	—	—	—	—	—	—	i	—	⑬
	3	Tape Control	→	i	—	—	—	—	—	—	—	—	1 per system
3811	1	Printer Control Unit	→	—	bm	bm	bm	bmsx	bm	bm	bm	U	③
3812	2	Pageprinter	→										⑫
3814	—	Switching Management System	→										
3814	A1, A2, A3, A4	Controller	→	—	bm	bm	bm	bmsx	bm	bm	bm	—	④①
			→										⑫ ④①
	B1, B2, B3, B4	Remote Unit	→	—	bm	bm	bm	bmsx	bm	bm	bm	—	④①
			→										④①
	C1, C2, C3, C4	Expansion Unit	→	—	bm	bm	bm	bmsx	bm	bm	bm	—	④①
			→										④①
3830	1	Storage Control	→	—	b	b	b	b	b	—	—	U	⑫⑤
	2	Storage Control	→	—	b	b	b	b	b	b	—	U	⑫⑤
	3	Storage Control	→	—	—	b	b	b	b	b	b	U	⑫⑥
3838	1, 2, 3	Array Processor	→	—	—	b	b	b	b	b	b	U	③
3848	1	Cryptographic Unit	→	—	b	b	b	bs	b	b	b	U	③
3850	—	Mass Storage System	→										
3851	A01, A02, A03, A04, A11, A12, A13, A21, A22, A31, B01, B02, B03, B04, B11, B12, B13, B21, B22, B31	Mass Storage Facility	→	—	—	bm	bm	bm _x	bm	bm	m	U	⑫⑥
3852	2	Color Jetprinter	→										1 per station

LOCAL I/O DEVICE AND CONTROL UNIT ATTACHMENT DATA (Continued)

Input/Output (I/O) Device or Control Unit			Attaches to	Means of Attachment to System/370 Processor							Channel UCW Assignment (Except 3081, 3083, 3084, and 3090) ②	I/O Devices or Lines Attachable	
Machine Type	Models	Name		3115 3125	3138	3148	3158 3158-3	3168 3168-3	3031 3032 3033 ①	3081 3083 3084			3090
3880	1, 2	Storage Control	→	—	b (29)	b (29)	b	b	b	b	b (29)	U	③
	3	Storage Control	→	—	—	—	b	b	b	b	b	U	③
	11	Storage Control	→	—	—	—	b	b	b	b	b	U	③
	13, 21, 23	Storage Control	→	—	—	—	—	—	b	b	b	U	③
3881	1	Optical Mark Reader	→	m	m	m	m	—	m (33)	—	—	—	③
3886	1	Optical Character Reader	→	m	<u>bm</u>	<u>bm</u>	<u>bm</u>	<u>bmsx</u>	<u>bm</u>	—	—	U	③
3890	A1, A2, A3, A4, A5, A6, B1, B2, B3, B4, B5, B6, E2, E3, E4, E5, E6, F2, F3, F4, F5, F6	Document Processor	→	—	<u>bm</u>	<u>bm</u>	<u>bm</u>	<u>bm</u>	<u>bm</u>	<u>bm</u>	<u>bm</u>	U	③
3895	1, 2	Document Reader/Inscriber	→	m (5)	<u>bm</u>	<u>bm</u>	<u>bm</u>	<u>bmsx</u> (40)	<u>bm</u>	—	—	U	③
3979	1	Expansion Unit	3179-G, 3192-G										1 per station
3990	1, 2, 3	Storage Control	→	—	—	—	—	—	—	b	b	—	③
4201	1	Proprinter	3192, 3979										1 per station
	2	Proprinter II	3192, 3979										1 per station
4202	1	Proprinter XL	3192, 3979										1 per station
4224	201, 202	Printer	3174, 3274, 3299										⑫
			→	—	—	—	—	—	—	—	i	—	⑬
	2C2, 2E2	Printer	3174, 3274, 3299										⑫
4234	1	Dot Band Printer	3174, 3274, 3299										⑫
4245	1, 12, 20	Line Printer	→	—	<u>bm</u>	<u>bm</u>	<u>bm</u>	<u>bmsx</u>	<u>bm</u>	<u>bm</u>	<u>bm</u>	U	③
	D12, D20	Line Printer	3174, 3274, 3299										⑫
4248	1	Printer	→	—	—	<u>bm</u>	<u>bm</u>	<u>bmsx</u>	<u>bm</u>	<u>bm</u>	<u>bm</u>	U	③ ④②
	2	Printer	→	—	—	—	—	—	<u>bm</u>	<u>bm</u>	<u>bm</u>	U	③ ④②
4250	1	Printer	3174, 3274, 3299										⑫ ④③
	2	4250/II ElectroCompositor	3174, 3274, 3299										⑫ ④③
5080	—	Graphics System	See 5085										
5081	1, 2	Display	5085-1										1 per 5085
	11, 12, 16, 19	Display	5085										1 per 5085
5082	1	Projector	5081, 5082-1C, 5085										1 per 5085
	1C	Multi-Media Adapter	5081, 5085										1 per 5085
5083	1, 12, 12A	Tablet	5081										1 per 5081
	11, 11A	CursorPad Tablet	5081										1 per 5081
5084	1, 2, 3	Digitizer	5085										2 per 5085

LOCAL I/O DEVICE AND CONTROL UNIT ATTACHMENT DATA (Continued)

Input/Output (I/O) Device or Control Unit			Attaches to	Means of Attachment to System/370 Processor							Channel UCW Assignment (Except 3081, 3083, 3084, and 3090) ②	I/O Devices or Lines Attachable	
Machine Type	Models	Name		3115 3125	3138	3148	3158 3158-3	3168 3168-3	3031 3032 3033 ①	3081 3083 3084			3090
5085	1, 1A, 2, 2A	Graphics Processor	3258, 5088										⑬
5087	1	Screen Printer	5081, 5085										1 per 5085
5088	1, 2	Graphics Channel Controller	→	m	<u>bm</u>	<u>bm</u>	<u>bm</u>	<u>bmsx</u>	<u>bm</u>	<u>bm</u>	b	SB	③ ④④
5150	—	Personal Computer	3174, 3274, 3299 ④⑤										⑫
5160	—	Personal Computer XT	3174, 3274, 3299 ④⑤										⑫
	—	Personal Computer XT/370	3174, 3274, 3299 ④⑤										⑫
5162	—	Personal Computer XT Model 286	3174, 3274, 3299 ④⑤										⑫
5170	—	Personal Computer AT	3174, 3274, 3299 ④⑤										⑫
	—	Personal Computer AT/370	3174, 3274, 3299 ④⑤										⑫
5201	2	Quietwriter Printer	3192-G, 3979										1 per station
5202	1	Quietwriter III Printer	3192-G, 3979										1 per station
5203	3	Printer	→	i ⑤	—	—	—	—	—	—	—	—	1 per system
5210	G01, G02	Printer	3174, 3274, 3299										⑫
5213	1	Printer	→	i	—	—	—	—	—	—	—	—	1 per system
5271	—	3270 Personal Computer	3174, 3274, 3299										⑫
5273	—	3270 Personal Computer AT	3174, 3274, 3299										⑫
5277	1	Mouse	3179-G, 3192-G, 3979										1 per station
5371	—	3270 Personal Computer/Graphics	3174, 3274, 3299										⑫
	—	3270 Personal Computer/Extended Graphics	3174, 3274, 3299										⑫
5373	—	3270 Personal Computer AT/G	3174, 3274, 3299										⑫
	—	3270 Personal Computer AT/GX	3174, 3274, 3299										⑫
5531	—	Industrial Computer	3174, 3274, 3299 ④⑤										⑫
6150	—	RT Personal Computer	3174, 3274, 3299, 7171 ④⑤										⑫ ⑳
6151	—	RT Personal Computer	3174, 3274, 3299, 7171 ④⑤										⑫ ⑳
6180	1	Color Plotter	5085										2 per 5085
	2	Color Plotter	3979										1 per station
6182	1	Auto Feed Color Plotter	3179-G, 3192-G, 5085										1 per station
6184	1	Color Plotter	3979, 5085										1 per station
6186	1, 2	Color Plotter	3979, 5085										1 per station
6580	—	Displaywriter System	3274, 3299 ④⑤										⑫
7170	1	Device Attachment Control Unit	→	—	—	—	—	—	—	b	b	—	③
7171	1	ASCII Device Attachment Control Unit	→	—	—	—	—	—	—	b	b	—	③
7350	—	Image Processing System	See 7351										
7351	1, 2, 3, 4, 5, 6	Control Unit	→	m	<u>bm</u>	<u>bm</u>	<u>bm</u>	<u>bms</u> ⑱	<u>bm</u>	<u>bm</u>	<u>bm</u>	⑳	③
7352	1	Color Image Display Station	7351										1 per 7351

LOCAL I/O DEVICE AND CONTROL UNIT ATTACHMENT DATA (Continued)

Input/Output (I/O) Device or Control Unit			Attaches to	Means of Attachment to System/370 Processor							Channel UCW Assignment (Except 3081, 3083, 3084, and 3090) ②	I/O Devices or Lines Attachable	
Machine Type	Models	Name		3115 3125	3138	3148	3158 3158-3	3168 3168-3	3031 3032 3033 ①	3081 3083 3084			3090
7353	1	Conversational Monitor Station	7351										1 per 7351
7371	1	Color Plotter	3979, 5085										2 per 5085
7372	1	Color Plotter	3979, 5085										2 per 5085
7374	1	Color Plotter	3255, 5085										2 per 3255, 5085
7375	1	Color Plotter	3255, 5085										2 per 3255, 5085
	2	Color Plotter	5085										2 per 5085
7552	—	Industrial Computer	3174, 3274, 3299 ④⑤										⑫
7770	3	Audio Response Unit	→	m	m	m	m	m	m	—	—	—	48 lines
8525	—	Personal System/2 Model 25	3174, 3274, 3299 ④⑤										⑫
8530	—	Personal System/2 Model 30	3174, 3274, 3299 ④⑤										⑫
8550	—	Personal System/2 Model 50	3174, 3274, 3299 ④⑤										⑫
8560	—	Personal System/2 Model 60	3174, 3274, 3299 ④⑤										⑫
8580	—	Personal System/2 Model 80	3174, 3274, 3299 ④⑤										⑫
—	—	Series/1	→	—	b	b	b	<u>bs</u>	b	b	b	SB	③ ④⑥
—	—	Channel-to-Channel Adapter	→	m	<u>bm</u>	<u>bm</u>	<u>bm</u>	<u>bmsx</u>	<u>bm</u>	b	b	U	④⑦

Legend:

- b Block multiplexer channel (housed within a 2880 Block Multiplexer Channel for 3168 and 3168-3).
- bmsx Underline denotes preferred channel for attachment.
- i Integrated adapter.
- m Byte multiplexer channel (housed within a 2870 Multiplexer Channel for 3168 and 3168-3).
- s Selector channel (housed within a 2860 Selector Channel for 3168 and 3168-3).
- SB Shared block multiplexer mode on a block multiplexer channel recommended.
- SS Shared selector mode on a block multiplexer channel recommended.
- U Unshared recommended.
- x Selector subchannel (special feature for a 2870 Multiplexer Channel).
- See the information in the "Means of Attachment to System/370 Processor" columns.
- Not applicable.

**LOCAL I/O ATTACHMENT DATA NOTES
(CIRCLED NUMBERS)**

- ① Attachment information for the 3033 also applies to the 3042 Attached Processor Model 2.
- ② UCW (subchannel) assignments for the 3081, the 3083, and the 3084 are described in the *Input/Output Configuration Program User's Guide and Reference*, GC28-1027.
UCW assignments for the 3090 are described in the *IBM 3090 Processor Complex Input/Output Configuration Program User's Guide and Reference*, SC38-0038.
- ③ No special restrictions; depends on the number of available system channel control-unit positions, available device addresses, and, for some units, on channel loading considerations and/or document throughput considerations.
- ④ One 1403 and one 2540 per 2821-1. One 1403 per 2821-2. Two (or, with a third printer control feature, three) 1403s per 2821-3. Two (or, with a third printer control feature, three) 1403s and one 2540 per 2821-5. One 2540 per 2821-6.
- ⑤ The 2560 and 5203 can be attached by an integrated adapter to the 3115 only. The 1403, 3333, 3504, and 3525 can be attached by an integrated adapter to the 3125 only. The 3895 is supported on the 3125-2 only.
- ⑥ When the 2701 is operating with the 3081, 3083, 3084, or 3090 at a line speed above 56 kilobits per second, it must be attached to a dedicated block multiplexer channel.
- ⑦ One or two 2835-2s can be attached to the first and/or second block multiplexer channels of the 3148, 3158, 3158-3, 3168, or 3168-3, and to the first, second, and/or third block multiplexer channels in a channel group of the 3031, 3032, or 3033.
- ⑧ The recommended attachment for both the A- and B-sides of the 3036 is to a byte multiplexer channel in the lowest priority position.
- ⑨ One 3036-1 console is required, except that two 3036-1 consoles are required by the 3033 Attached Processor Complex and 3033 Multiprocessor Complex.
- ⑩ The channel is attached to the 3044-C01 by a channel interface cable having a maximum length of 61 meters (200 feet). The 3044-D01 is attached to the 3044-C01 by a cable containing a pair of optical fibers having a maximum length of 2000 meters (6600 feet). The 3044-D01 is attached to control units by an I/O interface cable whose length depends on the number and type of control units attached. This cable can have a maximum length of 61 meters (200 feet).
- ⑪ One optional 3056-1 per 3158 or 3158-3 Processing Unit; one required 3056-1 per 3052 Attached Processing Unit; one required 3066-2 per 3168 Processing Unit; one required 3066-2 per 3168-3 Processing Unit without a 3062 Attached Processing Unit; one required 3066-3 per 3168-3 with a 3062.
- ⑫ As many as 32 devices can be attached to the 3174 or 3274. A maximum of 16 of these can be 3277s, 3284s, 3286s, 3287s (or 31 depending on the attachment feature installed on the 3287), 3288s, or PC XT/370s with 3277 Emulation Adapter. At least one device must be a display with keyboard for diagnostic test use, which must not be a 3277, PC XT/370 with 3277 Emulation Adapter, or 3290.
- ⑬ Attachment to the 3090 is by means of the 3092 Processor Controller. For the 3092-1 and -3, two displays (3180-145 or 3206-110) are required; for the 3092-2, three are required. For the 3092-3, one additional display (3180-140 or 3206-100) is optional; for the 3092-1 and -2, three are optional. For the 3092-1 and -3, one printer (3287-1, 3287-2, 4224-201, or 4224-202) is optional; for the 3092-2, two are optional. For the 3092-3, one DASD (3370-A2) and one path to a tape unit (3420-4, -6, -8, 3422, or 3480) is required; for the 3092-1 and -2, two DASDs and two paths to a tape unit are required.
- ⑭ Attaches to a 3168-3 but not to a 3168.
- ⑮ Attachment to the 3081, 3083, and 3084 is by means of the 3082 Processor Controller. For the 3081 and 3083, one 3278-2A is required, one programming support console (3278-2) is optional, and one printer (3230-2, 3268-2, 3287-1, or 3287-2) is optional. For the 3084, the attachment capability is doubled.
- ⑯ Sixteen devices for the 3258 or 5088-1; 32 devices for the 5088-2.
- ⑰ The channel can be initialized for disconnect command chaining on the 3158-3, 3031, 3032, 3033, 3081, 3083, 3084, and 3090. The 32-device option must also be initialized if applicable.
- ⑱ The attachment of a 3272-1, 3272-2, a 3274-B or -D model, or a 7351 to a 2880 that has an IPL device attached is not recommended.

**LOCAL I/O ATTACHMENT DATA NOTES
(CIRCLED NUMBERS) (Continued)**

- 19 The recommended attachment for the 3272 is shared subchannel with disconnect command chaining (DCC) in effect. When more than 16 devices are attached to a 3272, multiple shared UCWs are required for the 3158.
- 20 As many as 16 devices can be attached to the 3272, and as many as 64 to the 7171.
- 21 The 3274-1A, -21A, -31A, or -41A can be attached to an unshared subchannel of a byte multiplexer channel because only one device address is required and the data rate is relatively low.
- 22 The recommended block multiplexer channel UCW assignment for the 3274 -B and -D models and the 7351 is shared with disconnect command chaining (DCC) implemented for the 3138, 3148, 3158-3, 3031, 3032, and 3033, and shared with the DCC not implemented for the 3158, 3168, and 3168-3.
- 23 As many as thirty-one 3290 Information Panels, each with as many as four logical displays defined, can be attached to a 3274-1A, -1B, -1D, -31A, -31D, -41A, or -41D.
- 24 One port on the 3174 or 3274 is used by the 3299. The 3299 can then attach up to eight terminals; each can then be at double the distance that is allowed when a terminal is directly attached to the 3174 or 3274.
- 25 The 3330-1, 3330-11, 3333-1, and 3333-11 each have two disk drives, and the 3330-2 has one. Generally, as many as three 3330s, any model, can be attached to a 3333-1 or -11, thus allowing up to eight drives per 3333. One or two 3333s can be attached to a 3830-2, a 3138 integrated file adapter (IFA), a 3148 integrated storage control (ISC), or to each of the two paths of a 3158, 3158-3, 3168, or 3168-3 ISC. A disk-drive expansion feature provides for attachment of one or two additional 3333s (with associated 3330s) to a 3830-2, a 3148 ISC, or to each path of a 3158, 3158-3, 3168, or 3168-3 ISC.
- As many as four 3330-1s or 3330-2s, in any combination, can be attached to a 3830-1, thus permitting up to eight drives.
- Up to four 3333s (mutually exclusive with 3350-A2 or 3350-A2Fs) can be attached to one storage director of a 3880-2 or 3880-11, or to each storage director of a 3880-1, thus permitting up to 32 drives per storage director.

The 3125 direct disk attachment permits the attachment of one 3333-1, with one 3330-1 or -2, thus permitting up to four drives.

- 26 A 3850 Mass Storage System consists of one or two 3851-A (or one 3851-B) and associated staging controllers and DASD. Each 3851 can be attached to a maximum of four System/370 processors. As many as seven 3803-3 staging controllers can be attached to each 3851. As many as sixteen 3333/3330-1s or -2s attached to a 3830-3 can be designated as staging drives. As many as eight 3333/3330-11s or 3350s (operating in 3330-11 compatibility mode) attached to a 3830-3 can be designated as staging drives. As an alternative to a 3830-3, a path of a 3158, 3158-3, 3168, or 3168-3 integrated storage control (ISC) with staging adapter feature can be used.
- 27 An intermix feature permits both 3333/3330 strings and the 3340 strings to be attached to the integrated file adapter (IFA) of a 3138. A similar feature permits a combination of 3333/3330, 3340, and 3350 strings to be attached to the integrated storage control (ISC) of the 3148, 3158, 3158-3, 3168, or 3168-3. The 3344 cannot be included in any of these configurations. Up to four 3333/3330 and 3350 strings, in any combination, may be attached to each 3880-1 storage director, or to one storage director of a 3880-2 or -11.
- 28 The 3340-A2 and -B2 each have two disk drives; the 3340-B1 has one. The 3344-B2 and -B2F each have two disk drives. Generally, a 3340-A2 can attach a total of three 3340-B1s and/or -B2s and, in certain configurations, 3344-B2s and/or -B2Fs, for a maximum of eight drives per string. One or two 3340-A2s can be attached to a 3830-2, a 3138 integrated file adapter (IFA), a 3148 integrated storage control (ISC), or to each of the two paths of the ISC of a 3158, 3158-3, 3168, or 3168-3. On a 3138 IFA, the first of the two possible strings may contain up to three 3340 and/or 3344 B-units in any combination. The second string may contain only the 3340 units. As many as four 3340-A2s with the associated 3340 B-units (maximum of 32 drives) or four 3340-A2s with 3340 and 3344 B-units, which together use a maximum of 64 logical device addresses, can be attached to a 3830-2, or to one path of a 3880-2, or to each of the two paths of either the 3880-1 or the ISC of a 3158, 3158-3, 3168, or 3168-3. The 3344 B-units may be used only in the first and third of the four possible strings.
- One 3340-A2 with one 3340-B1 or 3340-B2 can be attached to the 3115-0. One string of up to eight drives, which consists of one 3340-A2 plus 3340-B1s and 3340-B2s, can be attached to the 3115-2 or the

**LOCAL I/O ATTACHMENT DATA NOTES
(CIRCLED NUMBERS) (Continued)**

3125-0. If the 3344 attachment feature is installed on the 3115-2, the string can contain up to three 3344-B2s and/or 3344-B2Fs.

One or two strings of up to eight drives each, which consist of one 3340-A2 plus 3340-B1s and 3340-B2s, can be attached to the 3125-2. If the 3344 attachment feature is installed on the 3125-2, only the first string can contain up to three 3344-B2s and/or 3344-B2Fs.

- 29 The 3340 and 3344 are not supported on the 3090. The 3375 is not supported on the 3138. The 3380 is not supported on the 3138 or 3148.

- 30 The 3350-A2, -A2F, -B2, -B2F, -C2, and -C2F each have two drives. A 3350 string can be formed by attaching one of the three following combinations to a 3350-A2 or -A2F for a maximum of eight drives: (1) as many as three 3350-B2 or -B2F units, or (2) one or two 3350-B2 or -B2F units and (at the end of the string) one 3350-C2 or -C2F unit, or (3) one 3350-C2 or -C2F unit. As many as four 3350 strings can be attached to the 3138, 3148, 3158, 3158-3, 3168, 3168-3, 3031, 3032, 3033, 3081, 3083, 3084, or 3090 through the 3830-2 or one path of a 3880-2, or to a 3148 by means of the integrated storage control (ISC). As many as four 3350 strings can be attached to each of the two paths of either the 3880-1, 3880-11 (attachment in native mode format only), or the ISC of the 3158, 3158-3, 3168, or 3168-3. One or two 3350 strings, each consisting of one 3350-A2 or -A2F unit and, optionally, one 3350-B2/B2F or -C2/C2F unit, can be shared by the two storage directors of a 3880-21.

- 31 The 3375-A1, -B1, and -D1 each have one sealed head-and-disk assembly and two actuators. Each actuator is separately addressable and accesses one half of the 819.7 megabytes of storage. As many as four 3375 strings can be attached to each 3880-1 storage director, or to one storage director of a 3880-2.

As many as three 3375-B1s can be attached to a 3375-A1, which contains the controller function for the string. A 3375-D1 may be substituted for the third 3375-B1, providing a dual-controller function with a second path to each head-and-disk assembly. Attachment to a 3031, 3032, or 3033 requires the data-streaming feature on the processor's channel group or the speed matching buffer for the 3375 on the 3880 storage director. Attachment to a 3148, 3158, 3158-3, 3168, or 3168-3 requires the speed matching feature for the 3375 on the 3880 storage director. The speed matching buffer for the 3375 is not supported on the 3090.

- 32 All models of the 3380 except 3380-CJ2 have two sealed head-and-disk assemblies (HDAs), each with two actuators and movable heads for accessing data; the 3380-CJ2 has one HDA. The 3380-A04, -AA4, -AD4, -AJ4, -B04, -BD4, and -BJ4 can store 2.52 gigabytes of data. The 3380-AE4 and -BE4 can store 5.04 gigabytes of data. The 3380-AK4 and -BK4 can store 7.56 gigabytes of data. The 3380-CJ2 can store 1.26 gigabytes of data.

As many as three 3380-B04s can be attached to the 3380-A04 or -AA4. As many as three 3380-BD4s and/or -BE4s can be attached to the 3380-AD4 or -AE4. As many as three 3380-BJ4s and/or -BK4s can be attached to the 3380-AJ4, -AK4, or -CJ2.

The 3380-A04 has one controller, which can be attached to one storage director within a 3880. The 3380-AA4, -AD4, -AE4, -AJ4, and -AK4 each have two controllers, which can be attached to two storage directors within the same 3880 or 3990, or within two separate 3880s or 3990s. One or two 3380 strings can be attached to each storage director. A storage director with a 3380-AA4 attached cannot also attach a 3380-A04. A 3880 with a 3380-A04/AA4 attached cannot also attach a 3380-AJ4/AK4.

Attachment of the 3880 with 3380-A04s or -AA4s and -B04s to 1.5 megabytes per second block multiplexer channels of the 3031, 3032, and 3033 without the data-streaming feature, and the 3158, 3158-3, 3168, and 3168-3 requires the speed matching buffer feature for 3380 on the storage director. The 3880-CJ2 and the 3880s connected to 3380-AD4s, -AE4s, -AJ4s, or -AK4s must be attached to a 3.0 megabytes per second (or, for the 3880-21 and 3990-3, optionally to a 4.5 megabytes per second) block multiplexer channel. The 3380-AD4, -AE4, -AJ4, and -AK4 are not supported by 3880 storage directors having the speed matching buffer for 3380. The speed matching buffer for 3380 is not supported on the 3090.

- 33 The 3410 and 3411 are supported on the 3031 only; the 3881 is supported on the 3031 and 3032 only; the 3745 is supported on the 3033 only.

- 34 As many as eight 800-bpi and 1600-bpi drives (3420-3, -5, -7) per 3803-1 or -2. As many as eight 800-bpi and 1600-bpi drives (3420-3, -5) per 3803-3. As many as eight 6250-bpi or 6250/1600-bpi drives (3420-4, -6, -8) per 3803-2. The 3803 tape switching features permit switching of as many as sixteen 3420s among two, three, or four 3803s.

- 35 A 3480 Magnetic Tape Subsystem consists of one or two 3480-A11 or -A22 control units with associated -B11 or -B22 magnetic tape units. Models A11 and B11 may not be intermixed in the same subsystem with

LOCAL I/O ATTACHMENT DATA NOTES
(CIRCLED NUMBERS) (Continued)

Models A22 and B22. As many as four 3480-B11s may be attached to a 3480-A11, and as many as four 3480-B22s may be attached to a 3480-A22. Each 3480-A11 or -A22 can attach to as many as four channels (attachment to one channel is standard). A two-control-unit subsystem can be attached to as many as eight channels.

③6 Neither channel adapter type 2 nor channel adapter type 3 can be installed on the 3705-A01, -B01, -C01, or -D01.

③7 The 3720-1 and -11 allow the attachment of as many as 28 and 16 communication lines, respectively. Addition of the 3721 expands this capability to 60 lines for the 3720-1 and 48 lines for the 3720-11. The 3720-11 also allows the attachment of one or two IBM Token-Ring Networks.

③8 The 3725-1 allows attachment of as many as 96 lines, either half-duplex or full-duplex. Addition of the 3726 to the 3725-1 expands attachment capability to 256 lines.

The 3725-2 allows attachment of as many as 80 half-duplex or full-duplex lines.

③9 The 3745 allows the attachment of as many as 128 communication lines and either (1) as many as 12 additional high-speed lines or (2) as many as four additional high-speed lines and attachment of as many as eight IBM Token-Ring Networks. The 3745 can attach to as many as eight channels. Addition of as many as four 3746s (a maximum of one of each model) provides a total of as many as 16 channel attachments, up to 512 communication lines, and either (1) as many as 16 high-speed lines or (2) as many as eight high-speed lines and attachment of as many as eight IBM Token-Ring Networks.

④0 Selector channel attachment is not recommended unless dedicated.

④1 Careful evaluation should be made before attaching a control unit to the 3814, particularly one with a high data rate. Without buffering, overrun can occur.

On single-byte multiplexing operations, with more than 16 control units configured to a channel through

a 3814, the control unit polling operation increases the channel use and can limit the maximum data-transfer rate on the channel. An analysis of the system components and data-transfer requirements (average and peak) should be made to ensure that the operation will be within the capability of the system.

The 3814-A may be attached to a 3174 or 3274 to allow host control of the Switching Management System. The 3814-A, 3814-B, and 3814-C each contain channel switch matrices.

④2 Attachment to a byte multiplexer channel is not recommended if a block multiplexer or selector channel is available.

④3 Each 4250 requires one port on the 3174 or 3274. Because of the high data rate requirements of the 4250, the 3274-FIVE program should be used to determine the I/O configuration of the 3174 or 3274 to which 4250s will be attached,

④4 The 5088 operates in burst mode when attached to a byte multiplexer channel.

④5 The 3278/3279 Emulation Adapter allows the 5150, 5160, 5162, 5170, 5531, 6150, 6151, 7552, 8525, or 8530 to be attached to the 3174 or 3274. The 3270-Connection feature for the 8550, 8560, and 8580, and the 3274/3276 Attached Workstation Adapter for the 6580, provide similar capabilities. The 3277 Emulation Adapter furnished with some PC XT/370 models or features allows attachment to the 3274.

④6 Series/1 can be attached to System/370 by means of the 4993 Termination Enclosure Model 1 and the Series/1-System/370 Channel Attachment feature (#1200). Series/1 always requires 32 device addresses.

④7 Each communication path between two systems requires one channel-to-channel adapter. The number of channel-to-channel adapter features that can be installed is model-dependent. The adapter forces selector-mode operation.

When multiple channel-to-channel adapters are used to connect two systems, only one adapter should be used for each channel on each system.

The following IBM equipment can operate in a data communication environment as part of System/370. Input/output devices, systems, and data communication devices are arranged first by category. Then, in the chart entitled "Remote I/O Device and System Attachment Data," the I/O devices and systems are arranged by machine type and model or system number with appropriate data communications devices for operation with System/370. The chart, when used with the legend that follows the chart, provides information for the remote attachment of current IBM equipment.

REMOTE I/O EQUIPMENT CATEGORIES

Color Plotters

6180 Color Plotter Models 1 and 2
6182 Auto Feed Color Plotter Model 1
6184 Color Plotter Model 1
6186 Color Plotter Models 1 and 2
7371 Color Plotter Model 1
7372 Color Plotter Model 1
7374 Color Plotter Model 1
7375 Color Plotter Models 1 and 2

Control Units

3174 Subsystem Control Unit Models 1R, 2R, 3R, 51R, 52R, 53R, 81R, and 82R
3255 Display Control Models 1 and 2
3271 Control Unit Models 1, 2, 11, and 12
3274 Control Unit Models 1C, 21C, 31C, 41C, 51C, and 61C
3276 Control Unit Display Station Models 1, 2, 3, 4, 11, 12, 13, and 14
3299 Terminal Multiplexer Models 1, 2, and 3
3814 Controller Models A1, A2, A3, and A4
3979 Expansion Unit Model 1
5082 Multi-Media Adapter Model 1C
5085 Graphics Processor Models 1, 1A, 2, and 2A
5088 Graphics Channel Controller Models 1 and 2
5088 Remote Controller Models 1R and 11R

Data Encryption Devices

3845 Data Encryption Device Models 1, 2, 3, 11, 12, and 13
3846 Data Encryption Device Models 1, 2, 3, 12, and 13

Section 2. Remote Input/Output (I/O) Equipment

Data Terminal Devices

2740 Communications Terminal Models 1 and 2
2741 Communications Terminal Model 1
3232 Keyboard Printer Terminal Models 1 and 51
3614 Consumer Transaction Facility Models 1, 2, 11, and 12
3624 Consumer Transaction Facility Models 1, 2, 11, and 12
3767 Communication Terminal Models 1, 2, and 3
4730 Personal Banking Machine Models F1, F2, F11, F12, F51, F52, R1, R2, R11, R12, R51, and R52
4730 Self-Service Guest Terminal Model H01
4732 Personal Banking Machine Models 1 and 2
4736 Personal Banking Machine Models RH2 and RS2

Data Transmission Controllers

2701 Data Adapter Unit Model 1
3704 Communications Controller Models A1, A2, A3, and A4
3705 Communications Controller Models A1, A2, B1, B2, B3, B4, C1, C2, C3, C4, C5, C6, D1, D2, D3, D4, D5, D6, D7, D8, E1, E2, E3, E4, E5, E6, E7, E8, F1, F2, F3, F4, F5, F6, F7, F8, G1, G2, G3, G4, G5, G6, G7, G8, H1, H2, H3, H4, H5, H6, H7, H8, J1, J2, J3, J4, K1, K2, K3, K4, L1, L2, L3, L4, M81, M82, and M83
3708 Network Conversion Unit Model 1
3710 Network Controller Model 1
3720 Communication Controller Models 1, 2, 11, and 12
3721 Expansion Unit Models 1 and 2
3725 Communication Controller Models 1 and 2
3726 Communication Controller Expansion Model 1
3728 Communication Control Matrix Switch Model 1
3745 Communication Controller Models 210 and 410
3746 Expansion Unit Models A11, A12, L13, and L14
5088 Graphics Channel Controller Models 1 and 2
7426 Terminal Interface Unit Model 2

Display Devices

3101 Display Terminal Models 10, 12, 13, 20, 22, 23, and 881
3151 ASCII Display Station Models 110, 160, 310, 360, 410, and 460
3161 ASCII Display Station Models 11, 12, 21, and 22

3162 ASCII Display Station Models 11, 12, 21, 22, 31, 32, 41, and 42
 3163 ASCII Display Station Models 11, 12, 21, 22, 860, and 861
 3164 ASCII Color Display Station Models 11, 12, 860, and 861
 3178 Display Station Models C1, C2, C3, and C4
 3179 Color Display Station Model 1
 3179 Color Graphics Display Station Models G1 and G2
 3180 Display Station Models 110, 120, and 130
 3191 Display Station Models A10, A20, A30, A40, B10, B20, B30, B40, D10, D20, D30, E10, E20, E30, L10, L20, L30, AD0, BD0, DX0, DY0, DZ0, EX0, EY0, EZ0, LX0, LY0, and LZ0
 3192 Color Display Station Models C10, C20, C30, CD0, CEO, CFO, F10, F20, F30, FDO, FEO, FFO, L10, L20, L30, LDO, LEO, and LFO
 3192 Display Station Models D10, D20, D30, W10, W20, W30, WDO, WEO, and WFO
 3192 Color Graphics Display Station Models G10, G20, G30, G40, GDO, GEO, GFO, and GG0
 3193 Display Station Models 010 and 020
 3194 Display Station Models C10, C20, C30, D10, D20, D30, H10, H20, H30, and H50
 3251 Display Station Model 1
 3275 Display Station Models 1, 2, 11, and 12
 3276 Control Unit Display Station Models 1, 2, 3, 4, 11, 12, 13, and 14
 3277 Display Station Models 1 and 2
 3278 Display Station Models 1, 2, 3, 4, and 5
 3279 Color Display Station Models 2A, 2B, 2X, 3A, 3B, 3X, S2A, S2B, and S3G
 3290 Information Panel Models 1, 220, and 230
 5081 Display Models 1, 2, 11, 12, 16, and 19
 5082 Projector Model 1
 8775 Display Terminal Models 11 and 12

Document Processors

3694 Document Processor Models 1A, 1B, 1C, 1D, 2A, 2B, 2C, and 2D
 3892 Document Processor Model 1

Modulator/Demodulator Devices

2711 Line Adapter Unit Model 1
 3833 Modem Model 1
 3834 Modem Model 1
 3863 Modem Models 1 and 2
 3864 Modem Models 1 and 2
 3865 Modem Models 1 and 2
 3868 Modem Models 1, 2, 3, and 4
 3872 Modem Model 1
 3874 Modem Model 1

3875 Modem Model 1
 5811 Limited Distance Modem Models 10, 18, 20, and 28
 5812 Limited Distance Modem Models 10 and 18
 5821 Data Service Unit/Channel Service Unit Model 10
 5822 Data Service Unit/Channel Service Unit Model 10
 5841 Modem Model 1
 5842 Modem Model 1
 5853 Modem Model 1
 5865 Modem Models 1, 2, and 3
 5866 Modem Models 1, 2, and 3
 5868 Modem Models 51, 52, 61, and 62

Optical Scanners

3117 Scanner Model 010
 3118 Scanner Models 010 and 020
 8815 Scanmaster™ I Models 1, 3, and 4

Pointing Devices

5083 Tablet Models 1, 12, and 12A
 5083 CursorPad Tablet Models 11 and 11A
 5084 Digitizer Models 1, 2, and 3
 5277 Mouse Model 1

Printers

3230 Printer Model 2
 3262 Line Printer Models 3 and 13
 3268 Printer Models 2 and 2C
 3284 Printer Models 1, 2, and 3
 3286 Printer Models 1 and 2
 3287 Printer Models 1, 1C, 2, and 2C
 3288 Line Printer Model 2
 3289 Line Printer Models 1 and 2
 3812 Pageprinter Models 1 and 2
 3820 Page Printer Model 1
 3852 Color Jetprinter Model 2
 4201 Proprinter Model 1
 4201 Proprinter II Model 2
 4202 Proprinter XL Model 1
 4207 Proprinter X24 Model 1
 4208 Proprinter XL24 Model 1
 4224 Printer Models 201, 202, 2C2, and 2E2
 4234 Dot Band Printer Model 1
 4245 Line Printer Models D12 and D20
 4250 Printer Model 1
 4250 4250/II ElectroCompositor Model 2
 5087 Screen Printer Model 1
 5201 Quietwriter Printer Model 2
 5202 Quietwriter III Printer Model 1

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5210 Printer Models G01 and G02
6640 Document Printer Models 1 and 2
6670 Information Distributor Models 1, 2, and 3

System/370 I/O Interface

3814 Controller Models A1, A2, A3, and A4
3814 Remote Unit Models B1, B2, B3, and B4
3814 Expansion Unit Models C1, C2, C3, and C4

Subsystems

3250 Graphics Display System
3270 Information Display System
3814 Switching Management System
5080 Graphics System

Systems

Series/1

System/3 Model 15
System/7
System/23 Datamaster
System/32
System/34
System/36
System/38
System/88
System/370 Model 115
System/370 Model 115-2
System/370 Model 125
System/370 Model 125-2
System/370 Model 138
System/370 Model 148
System/370 Model 158
System/370 Model 158-3
System/370 Model 168
System/370 Model 168-3
3031 Processor Complex
3032 Processor Complex
3033 Processor Complex
3081 Processor Complex
3083 Processor Complex
3084 Processor Complex
3090 Processor Complex
4321 Processor
4331 Processor
4341 Processor
4361 Processor
4381 Processor
8100 Information System
9370 Information System

3600 Finance Communication System
3630 Plant Communication System
3650 Retail Store System
3650 Programmable Store System

3660 Supermarket Key-Entry System
3660 Supermarket Scanning System
3680 Programmable Store System
3730 Distributed Office Communication System
3740 Data Entry System
3770 Data Communications System
3790 Communication System
4680 Store System
4700 Finance Communication System
5230 Data Collection System
5260 Retail System
5280 Distributed Data System
5520 Administrative System
6240 Magnetic Card Typewriter System
6580 Displaywriter System

6/420 Information Processor
6/430 Information Processor
6/440 Information Processor
6/442 Information Processor
6/450 Information Processor
6/452 Information Processor

4860 PCjr™
5100 Portable Computer
5110 Computer System
5120 Computer System
5140 PC Convertible
5150 Personal Computer
5155 Portable Personal Computer
5160 Personal Computer XT
5160 Personal Computer XT/370
5162 Personal Computer XT Model 286
5170 Personal Computer AT
5170 Personal Computer AT/370
5271 3270 Personal Computer
5273 3270 Personal Computer AT
5371 3270 Personal Computer/Graphics
5371 3270 Personal Computer/Extended Graphics
5373 3270 Personal Computer AT/G
5373 3270 Personal Computer AT/GX
5531 Industrial Computer
6150 RT Personal Computer
6151 RT Personal Computer
7531 Industrial Computer
7532 Industrial Computer
7552 Industrial Computer
8525 Personal System/2 Model 25
8530 Personal System/2 Model 30
8550 Personal System/2 Model 50
8560 Personal System/2 Model 60
8580 Personal System/2 Model 80

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HOW TO FIND REMOTE I/O ATTACHMENT DATA

The "Remote I/O Device or System Attachment Data" chart uses symbols that are defined in the legend and notes that follow the chart.

To find data for a particular remote I/O device or system, find the machine type and model or system number in the chart and read across from left to right. For example, the remote attaching unit for the 3117 Scanner is the 3193 Display Station, which is attached either directly to a 3174 Subsystem Control Unit or 3274 Control Unit, or indirectly by means of the 3299 Terminal Multiplexer. The 3174 or 3274 is attached by means of a communication line with System/370 through a local attaching unit (2701, 3704, 3705, 3720, 3725, or 3745) and a system channel, or through an integrated communications adapter (indicated by the symbol "ICA") in the processor. The type of channel, or subchannel of a channel, of a particular System/370 processor to which the local attaching unit can be attached is indicated in the "Local I/O Device and Control Unit Attachment Data" chart in Section 1.

REMOTE I/O DEVICE OR SYSTEM ATTACHMENT DATA

I/O Device or System			Remote Attaching Unit	Local Attaching Unit
Machine Type	Models/Model Groups	Name		
2740	1, 2	Communications Terminal	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
2741	1	Communications Terminal	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
3101	10, 12, 13, 20, 22, 23, 881	Display Terminal	3174, 3708, 3710, 7426 →	2701, 3704, 3705, 3720, 3725, 3745, ICA
3117	010	Scanner	3193	
3118	010, 020	Scanner	3193	
3151	110, 160, 310, 360, 410, 460	ASCII Display Station	3174, 3708, 3710, 7426 →	2701, 3704, 3705, 3720, 3725, 3745, ICA
3161	11, 12, 21, 22	ASCII Display Station	3174, 3708, 3710, 7426 →	2701, 3704, 3705, 3720, 3725, 3745, ICA
3162	11, 12, 21, 22, 31, 32, 41, 42	ASCII Display Station	3174, 3708, 3710, 7426 →	2701, 3704, 3705, 3720, 3725, 3745, ICA
3163	11, 12, 21, 22, 860, 861	ASCII Display Station	3174, 3708, 3710, 7426 →	2701, 3704, 3705, 3720, 3725, 3745, ICA
3164	11, 12, 860, 861	ASCII Color Display Station	3174, 3708, 3710, 7426 →	2701, 3704, 3705, 3720, 3725, 3745, ICA
3174	1R, 2R, 51R, 52R, 81R, 82R	Subsystem Control Unit	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
	3R, 53R	Subsystem Control Unit	→	3174-1L, 3720, 3725, 3745
3178	C1, C2, C3, C4	Display Station	3174, 3274, 3276, 3299	
3179	1	Color Display Station	3174, 3274, 3276, 3299	
	G1, G2	Color Graphics Display Station	3174, 3274, 3299	
3180	110, 120, 130	Display Station	3174, 3274, 3276, 3299	

REMOTE I/O DEVICE OR SYSTEM ATTACHMENT DATA (Continued)

I/O Device or System			Remote Attaching Unit	Local Attaching Unit
Machine Type	Models/Model Groups	Name		
3191	A10, A20, A30, A40, B10, B20, B30, B40, D10, D20, D30, E10, E20, E30, L10, L20, L30, AD0, BDO, DX0, DY0, DZ0, EX0, EY0, EZ0, LX0, LY0, LZ0	Display Station	3174, 3274, 3276, 3299	
3192	C10, C20, C30, CD0, CEO, CFO, F10, F20, F30, FDO, FEO, FFO, L10, L20, L30, LDO, LEO, LFO	Color Display Station	3174, 3274, 3276, 3299	
	D10, D20, D30, W10, W20, W30, WDO, WEO, WFO	Display Station	3174, 3274, 3276, 3299	
	G10, G20, G30, G40, GDO, GEO, GFO, GGO	Color Graphics Display Station	3174, 3274, 3299	
3193	O10, O20	Display Station	3174, 3274, 3299	
3194	C10, C20, C30, D10, D20, D30, H10, H20, H30, H50	Display Station	3174, 3274, 3299	
3230	2	Printer	3274, 3276, 3299, 8775	
3232	1	Keyboard Printer Terminal	→	3704, 3705, 3720, 3725, 3745
	51	Keyboard Printer Terminal	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
3250	—	Graphics Display System	See 3255	
3251	1	Display Station	3255	
3255	1, 2	Display Control	5088-1R, -11R	
3262	3	Line Printer	3174, 3274, 3299	
	13	Line Printer	3174, 3274, 3276, 3299, 8775	
3268	2, 2C	Printer	3174, 3274, 3276, 3299, 8775	

REMOTE I/O DEVICE OR SYSTEM ATTACHMENT DATA (Continued)

I/O Device or System			Remote Attaching Unit	Local Attaching Unit
Machine Type	Models/Model Groups	Name		
3270	—	Information Display System	See 3174, 3271, 3274, 3275, 3276	
3271	1, 2	Control Unit	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
	11, 12	Control Unit	→	3704, 3705, 3720, 3725, 3745
3274	1C, 21C, 31C, 41C, 51C, 61C	Control Unit	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
3275	1, 2	Display Station	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
	11, 12	Display Station	→	3704, 3705, 3720, 3725, 3745
3276	1, 2, 3, 4	Control Unit Display Station	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
	11, 12, 13, 14	Control Unit Display Station	→	3704, 3705, 3720, 3725, 3745
3277	1, 2	Display Station	3271, 3274	
3278	1, 2, 3, 4, 5	Display Station	3174, 3274, 3276, 3299	
3279	2A, 2B, 2X, 3A, 3B, 3X, S2A, S2B, S3G	Color Display Station	3174, 3274, 3276, 3299	
3284	1, 2	Printer	3271, 3274	
	3	Printer	3275	
3286	1, 2	Printer	3271, 3274	
3287	1, 2	Printer	3174, 3271, 3274, 3276, 3299, 8775	
	1C, 2C	Printer	3174, 3274, 3276, 3299, 8775	
3288	2	Line Printer	3271, 3274	
3289	1, 2	Line Printer	3274, 3276, 3299	
3290	1, 220, 230	Information Panel	3174, 3274, 3299	

REMOTE I/O DEVICE OR SYSTEM ATTACHMENT DATA (Continued)

I/O Device or System			Remote Attaching Unit	Local Attaching Unit
Machine Type	Models/Model Groups	Name		
3299	1, 2, 3	Terminal Multiplexer	3174, 3274-41C, -61C	
3614	1, 2, 11, 12	Consumer Transaction Facility	→	3704, 3705, 3720, 3725, 3745
3624	1, 2, 11, 12	Consumer Transaction Facility	→	3704, 3705, 3720, 3725, 3745
3694	1A, 1B, 1C, 1D, 2A, 2B, 2C, 2D	Document Processor	→	3704, 3705, 3720, 3725, 3745
3708	1	Network Conversion Unit	3710 →	3705, 3720, 3725, 3745
3710	1	Network Controller	→	3705, 3720, 3725, 3745
3767	1, 2, 3	Communication Terminal	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
3812	1	Pageprinter	→	3705, 3720, 3725, 3745
	2	Pageprinter	3174, 3274, 3276, 3299 →	3705, 3720, 3725, 3745
3814	—	Switching Management System	See 3814-A	
3814	A1, A2, A3, A4	Controller	3174, 3274, 3276, 3299	
	B1, B2, B3, B4	Remote Unit	3814-A	
	C1, C2, C3, C4	Expansion Unit	3814-A, -B	
3820	1	Page Printer	→	3705, 3720, 3725, 3745
3852	2	Color Jetprinter	3192-G, 3979	
3892	1	Document Processor	→	3705, 3720, 3725, 3745
3979	1	Expansion Unit	3179-G, 3192-G	

REMOTE I/O DEVICE OR SYSTEM ATTACHMENT DATA (Continued)

I/O Device or System			Remote Attaching Unit	Local Attaching Unit
Machine Type	Models/Model Groups	Name		
4201	1	Proprinter	3174, 3192, 3708, 3979	
	2	Proprinter II	3174, 3192, 3708, 3979	
4202	1	Proprinter XL	3174, 3192, 3708, 3979	
4207	1	Proprinter X24	3174, 3708	
4208	1	Proprinter XL24	3174, 3708	
4224	201, 202, 2C2, 2E2	Printer	3174, 3274, 3276, 3299	
4234	1	Dot Band Printer	3174, 3274, 3276, 3299	
4245	D12, D20	Line Printer	3174, 3274, 3299	
4250	1	Printer	3174, 3299	
	2	4250/II ElectroCompositor	3174, 3274, 3299	
4730	F1, F2, F11, F12, F51, F52, R1, R2, R11, R12, R51, R52	Personal Banking Machine	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
	H01	Self-Service Guest Terminal	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
4732	1, 2	Personal Banking Machine	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
4736	RH2, RS2	Personal Banking Machine	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
5080	—	Graphics System	See 5085	
5081	1, 2	Display	5085-1	
	11, 12, 16, 19	Display	5085	
5082	1	Projector	5081, 5082-1C, 5085	
	1C	Multi-Media Adapter	5081, 5085	
5083	1, 12, 12A	Tablet	5081	
	11, 11A	CursorPad Tablet	5081	
5084	1, 2, 3	Digitizer	5085	

REMOTE I/O DEVICE OR SYSTEM ATTACHMENT DATA (Continued)

I/O Device or System			Remote Attaching Unit	Local Attaching Unit
Machine Type	Models/Model Groups	Name		
5085	1, 1A, 2, 2A	Graphics Processor	→ 5088-1R, -11R	5088-1, -2
5087	1	Screen Printer	5081, 5085	
5088	1R, 11R	Remote Controller	→	5088-1, -2
5201	2	Quietwriter Printer	3192-G, 3179	
5202	1	Quietwriter III Printer	3192-G, 3179	
5210	G01, G02	Printer	3174, 3274, 3276, 3299, 8775	
5277	1	Mouse	3179-G, 3192-G, 3979	
6180	1	Color Plotter	5085	
	2	Color Plotter	3979	
6182	1	Auto Feed Color Plotter	3179-G, 3192-G, 5085	
6184	1	Color Plotter	3979, 5085	
6186	1, 2	Color Plotter	3979, 5085	
6640	1, 2	Document Printer	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
6670	1, 2, 3	Information Distributor	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
7371	1	Color Plotter	5085, 3979	
7372	1	Color Plotter	5085, 3979	
7374	1	Color Plotter	3255, 5085	
7375	1	Color Plotter	3255, 5085	
	2	Color Plotter	5085	
7426	2	Terminal Interface Unit	→	3704, 3705, 3720, 3725, 3745
8775	11, 12	Display Terminal	→	2701, 3704, 3705, 3720, 3725, 3745, ICA

REMOTE I/O DEVICE OR SYSTEM ATTACHMENT DATA (Continued)

I/O Device or System			Remote Attaching Unit	Local Attaching Unit
Machine Type	Models/Model Groups	Name		
8815	1, 3, 4	Scanmaster I	→	3704, 3705, 3720, 3725, 3745
-	-	Series/1	→	3704, 3705, 3720, 3725, 3745
-	-	System/3	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
-	-	System/7	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
-	-	System/23 Datamaster	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
-	-	System/32	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
-	-	System/34	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
-	-	System/36	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
-	-	System/38	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
-	-	System/88	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
-	-	System/370 Model 115	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
-	-	System/370 Model 115-2	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
-	-	System/370 Model 125	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
-	-	System/370 Model 125-2	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
-	-	System/370 Model 138	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
-	-	System/370 Model 148	→	2701, 3704, 3705, 3720, 3725, 3745, ICA

REMOTE I/O DEVICE OR SYSTEM ATTACHMENT DATA (Continued)

I/O Device or System			Remote Attaching Unit	Local Attaching Unit
Machine Type	Models/Model Groups	Name		
-	-	System/370 Model 158	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
-	-	System/370 Model 158-3	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
-	-	System/370 Model 168	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
-	-	System/370 Model 168-3	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
3031	-	Processor Complex	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
3032	-	Processor Complex	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
3033	-	Processor Complex	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
3081	-	Processor Complex	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
3083	-	Processor Complex	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
3084	-	Processor Complex	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
3090	-	Processor Complex	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
4321	-	Processor	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
4331	-	Processor	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
4341	-	Processor	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
4361	-	Processor	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
4381	-	Processor	→	2701, 3704, 3705, 3720, 3725, 3745, ICA

REMOTE I/O DEVICE OR SYSTEM ATTACHMENT DATA (Continued)

I/O Device or System			Remote Attaching Unit	Local Attaching Unit
Machine Type	Models/Model Groups	Name		
8100	—	Information System	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
9370	—	Information System	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
3600	—	Finance Communication System	→	3704, 3705, 3720, 3725, 3745
3630	—	Plant Communication System	→	3704, 3705, 3720, 3725, 3745
3650	—	Retail Store System	→	3704, 3705, 3720, 3725, 3745
3650	—	Programmable Store System	→	3704, 3705, 3720, 3725, 3745
3660	—	Supermarket Key-Entry System	→	3704, 3705, 3720, 3725, 3745
3660	—	Supermarket Scanning System	→	3704, 3705, 3720, 3725, 3745
3680	—	Programmable Store System	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
3730	—	Distributed Office Communication System	→	3704, 3705, 3720, 3725, 3745
3740	—	Data Entry System	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
3770	—	Data Communications System	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
3790	—	Communication System	→	3704, 3705, 3720, 3725, 3745
4680	—	Store System	→	3704, 3705, 3720, 3725, 3745
4700	—	Finance Communication System	→	3704, 3705, 3720, 3725, 3745
5230	—	Data Collection System	→	2701, 3704, 3705, 3720, 3725, 3745, ICA

REMOTE I/O DEVICE OR SYSTEM ATTACHMENT DATA (Continued)

I/O Device or System			Remote Attaching Unit	Local Attaching Unit
Machine Type	Models/Model Groups	Name		
5260	—	Retail System	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
5280	—	Distributed Data System	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
5520	—	Administrative System	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
6240	—	Magnetic Card Typewriter System	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
6580	—	Displaywriter System	3274, 3276, 3299 →	2701, 3704, 3705, 3720, 3725, 3745, ICA
6/420	—	Information Processor	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
6/430	—	Information Processor	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
6/440	—	Information Processor	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
6/442	—	Information Processor	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
6/450	—	Information Processor	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
6/452	—	Information Processor	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
4860	—	PCjr	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
5100	—	Portable Computer	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
5110	—	Computer System	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
5120	—	Computer System	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
5140	—	PC Convertible	→	2701, 3704, 3705, 3720, 3725, 3745, ICA

REMOTE I/O DEVICE OR SYSTEM ATTACHMENT DATA (Continued)

I/O Device or System			Remote Attaching Unit	Local Attaching Unit
Machine Type	Models/Model Groups	Name		
5150	—	Personal Computer	3174, 3274, 3276, 3299 →	2701, 3704, 3705, 3720, 3725, 3745, ICA
5155	—	Portable Personal Computer	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
5160	—	Personal Computer XT	3174, 3274, 3276, 3299 →	2701, 3704, 3705, 3720, 3725, 3745, ICA
5160	—	Personal Computer XT/370	3174, 3274, 3276, 3299 →	2701, 3704, 3705, 3720, 3725, 3745, ICA
5162	—	Personal Computer XT Model 286	3174, 3274, 3276, 3299 →	2701, 3704, 3705, 3720, 3725, 3745, ICA
5170	—	Personal Computer AT	3174, 3274, 3276, 3299 →	2701, 3704, 3705, 3720, 3725, 3745, ICA
5170	—	Personal Computer AT/370	3174, 3274, 3276, 3299 →	2701, 3704, 3705, 3720, 3725, 3745, ICA
5271	—	3270 Personal Computer	3174, 3274, 3276, 3299 →	2701, 3704, 3705, 3720, 3725, 3745, ICA
5273	—	3270 Personal Computer AT	3174, 3274, 3276, 3299 →	2701, 3704, 3705, 3720, 3725, 3745, ICA
5371	—	3270 Personal Computer/ Graphics	3174, 3274, 3276, 3299 →	2701, 3704, 3705, 3720, 3725, 3745, ICA
5371	—	3270 Personal Computer/ Extended Graphics	3174, 3274, 3276, 3299 →	2701, 3704, 3705, 3720, 3725, 3745, ICA
5373	—	3270 Personal Computer AT/G	3174, 3274, 3276, 3299 →	2701, 3704, 3705, 3720, 3725, 3745, ICA

REMOTE I/O DEVICE OR SYSTEM ATTACHMENT DATA (Continued)

I/O Device or System			Remote Attaching Unit	Local Attaching Unit
Machine Type	Models/Model Groups	Name		
5373	—	3270 Personal Computer AT/GX	3174, 3274, 3276, 3299 →	2701, 3704, 3705, 3720, 3725, 3745, ICA
5531	—	Industrial Computer	3174, 3274, 3276, 3299 →	2701, 3704, 3705, 3720, 3725, 3745, ICA
6150	—	RT Personal Computer	3174, 3274, 3276, 3299 →	2701, 3704, 3705, 3720, 3725, 3745, ICA
6151	—	RT Personal Computer	3174, 3274, 3276, 3299 →	2701, 3704, 3705, 3720, 3725, 3745, ICA
7531	—	Industrial Computer	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
7532	—	Industrial Computer	→	2701, 3704, 3705, 3720, 3725, 3745, ICA
7552	—	Industrial Computer	3174, 3274, 3276, 3299 →	2701, 3704, 3705, 3720, 3725, 3745, ICA
8525	—	Personal System/2 Model 25	3174, 3274, 3276, 3299 →	2701, 3704, 3705, 3720, 3725, 3745, ICA
8530	—	Personal System/2 Model 30	3174, 3274, 3276, 3299 →	2701, 3704, 3705, 3720, 3725, 3745, ICA
8550	—	Personal System/2 Model 50	3174, 3274, 3276, 3299 →	2701, 3704, 3705, 3720, 3725, 3745, ICA
8560	—	Personal System/2 Model 60	3174, 3274, 3276, 3299 →	2701, 3704, 3705, 3720, 3725, 3745, ICA
8580	—	Personal System/2 Model 80	3174, 3274, 3276, 3299 →	2701, 3704, 3705, 3720, 3725, 3745, ICA

Legend:

ICA Attachment to the local 3115, 3125, or 3138 by means of an integrated communications adapter.

→ See information in the "Local Attaching Unit" column.

— Not applicable

Notes:

1. The communication facility includes the communication line with signal modulation/demodulation device (modem) at each end. The 3845 or 3846 Data Encryption Device may be used between the local and remote attaching units and their associated modems. The 3728 Communication Control Matrix Switch, which is used in configuring, monitoring, and testing the data network, can be attached between the communication controller and the modem and/or between the modem and the communication line.

2. The 3708 Network Conversion Unit allows ASCII devices to access SNA networks. It provides 3270 emulation for these devices while concentrating as many as nine ASCII lines onto an SNA link. Connection to the communication controller may be remote or direct.
3. The 3710 Network Controller allows certain SNA and non-SNA devices to access SNA networks. With the Eight-Port Communication Adapter, it provides 3270 emulation for ASCII devices in a manner similar to the 3708. The 3710 can be attached remotely or directly to the communication controller and can concentrate as many as 59 lines onto a selected SNA link.

Section 3. Input/Output Device Priority

PRIORITY SEQUENCE

Channel capabilities are affected by the sequence in which I/O devices are attached to the channel. This sequence is called priority. This is most pronounced on the byte multiplexer channel. For assigning priorities, the devices are divided into three groups:

Class 1: Devices subject to overrun.

Class 2: Devices that require channel service in synchronization with their mechanical operations.

Class 3: Devices that do not require their channel service to be in synchronization with their operations.

Device Wait (Critical) Time

After a multiple-mode device requests channel service, it has a fixed length of time that it can wait for service. If the channel provides service within this length of time, the device operates satisfactorily. If, however, the channel does not service the device within the device's wait time, either of two things happens: If the device is not subject to overrun, it continues waiting; if it is subject to overrun, it loses data and subsequently causes an I/O interruption condition. For example, when an IBM 1403 Printer on an overloaded byte multiplexer channel fails to receive data within its particular wait time, it merely waits until service is provided by the byte multiplexer channel. The delay does not cause an interruption condition, nor is a new start I/O instruction required for selecting the 1403. The only effect is a lessening in performance. If an IBM 1442 Card Read Punch read operation does not receive data service within its wait time, however, overrun occurs.

I/O Device Attachment to Channels of the 3115 through 3168-3 Processors

In attaching devices to the byte multiplexer channel, the various classes are normally attached in numeric sequence (1, 2, and 3). Within each class, devices are usually attached in order of increasing critical time intervals. Differences in how individual I/O devices are programmed may require two I/O devices with either the same or nearly the same critical times to be swapped in priority for proper operation. No information can be lost with devices of class 2 or 3. A device not required to operate at its rated performance may be attached with a lower priority than normally assigned.

Devices that operate in burst mode may be attached to the byte multiplexer channel in any physical location; from

a performance standpoint, these units should be assigned lowest priority. On the selector or block multiplexer channel, devices are assigned priority according to data rate within class sequence.

In determining the attachment of I/O devices to selector or block multiplexer channels, the following guidelines generally apply. Class 1 devices with the highest data rates are normally attached to the lowest numbered channels (for example, channel 1). Because service to class 2 and 3 devices may be delayed without the loss of information, they usually are attached to the highest numbered channels (for example, channels 3 and 4).

I/O Device Attachment to Channels of the 3031, 3032, and 3033 Processors

Recommendations for the attachment of I/O devices to channels of the IBM 3031, 3032, and 3033 Processors are in *IBM 3031, 3032, 3033 Processor Complex Channel Configuration Guidelines*, GG22-9020.

I/O Device Attachment to Channels of the 3081, 3083, 3084, and 3090 Processor Units.

Recommendations for the attachment of I/O devices to channels of the IBM 3081, 3083, and 3084 Processor Units are in *IBM 3081, 3083, and 3084 Channel Characteristics and Configuration Guide*, GA22-7077. Recommendations for the attachment of I/O devices to channels of the IBM 3090 Processor Units are in *IBM 3090 Processor Complex: Channel Characteristics and Configuration Guide*, SA22-7120.

I/O Device Attachment to Control Units

In determining the priority of control units which operate multiple devices with different priority rules (for example, a 2821 that attaches both class 2 and class 3 devices and tape control units that may attach devices with different data rates), the highest priority for any of the attached devices is normally used.

Control units are addressed by the channel through a cable that contains 'select in' and 'select out' lines. A particular control unit can be connected to either line. Control units may be in any physical sequence on these lines that will permit connection in accordance with the prescribed priority sequence. Several physical sequences of units are usually possible that will provide the same priority sequence.

PRIORITY CONSIDERATIONS

I/O Device	Class	Byte Multiplexer Channel Critical Time (ms)	Block Multiplexer and Selector Channel Burst Mode Data Rate (per second)	Notes (Listed at End of Table)
1255	1	0.65	See Note	14
1287	1	0.40	400 characters	
1288	1	0.40	1,000 characters	
1419	1	0.655	See Note	4, 5, 14
1442-N1				
Punching Card Image	2	11.00	0.24 kb	
Punching EBCD	2	11.00	0.12 kb	
Reading Card Image	1	0.800	1.07 kb	
Reading EBCD	1	0.800	0.53 kb	
1442-N2				
Punching Card Image	2	11.00	0.24 kb	
Punching EBCD	2	11.00	0.12 kb	
1443-N1				
13-Character Set	3	18.50	1.44 kb	
39-Character Set	3	18.50	0.72 kb	
52-Character Set	3	18.50	0.58 kb	
63-Character Set	3	18.50	0.48 kb	
2250-1	3	Burst mode	238.1 kb	
2501-B1				
Card Image	1	0.486	1.60 kb	
EBCD	1	0.486	0.80 kb	
2501-B2				
Card Image	1	0.486	2.67 kb	
EBCD	1	0.486	1.33 kb	
2520-B1				
Both Reading and Punching (Card Image)	1	*	2.67 kb	
Both Reading and Punching (EBCD)	1	*	1.33 kb	
Punching Card Image	2	9.00	1.33 kb	
Punching EBCD	2	9.00	0.67 kb	
Reading Card Image	1	1.02	1.33 kb	
Reading EBCD	1	1.02	0.67 kb	
2520-B2				
Card Image	2	9.00	1.33 kb	
EBCD	2	9.00	0.67 kb	
2520-B3				
Card Image	2	15.00	0.80 kb	
EBCD	2	15.00	0.40 kb	
2701				
IBM Telegraph Adapter SF #4633-75 bps	1	113.30/N**	8.16 characters	1
IBM Terminal Adapter Type I SF #4645-134.5 bps	1	63.20/N	14.40 characters	1
SF #4646-600.0 bps	1	14.10/N	64.00 characters	1
IBM Terminal Adapter Type II SF #4648-600 bps	1	14.10/N	58.00 characters	1

PRIORITY CONSIDERATIONS (Continued)

I/O Device	Class	Byte Multiplexer Channel Critical Time (ms)	Block Multiplexer and Selector Channel Burst Mode Data Rate (per second)	Notes (Listed at End of Table)
2701 (Continued)				
IBM Terminal Adapter Type III				
SF #4656 and #4657:				
1,200 bps	1	8.30/N	120.00 characters	1
2,400 bps	1	4.15/N	240.00 characters	1
Telegraph Adapter Type I				
SF #7860-45.50 bps	1	141.30/N	5.44 characters	1
SF #7861-56.89 bps	1	113.20/N	7.40 characters	1
SF #7862-74.20 bps	1	86.90/N	8.88 characters	1
Telegraph Adapter Type II				
SF #7885-110 bps	1	85.80/N	9.78 characters	1
IBM World Trade Telegraph Adapter SF #2794:				
50 bps	1	128.80/N	5.97 characters	1
75 bps	1	85.80/N	8.96 characters	1
Synchronous Data Adapter Type I SF #7695 and SF #7696:				
1,200 bps	1	5.83/N	150 characters	1
2,000 bps	1	3.50/N	250 characters	1
2,400 bps	1	2.90/N	300 characters	1
19.2 kbps	1	0.36/N	2,400 characters	1
40.8 kbps	1	0.17/N	5,110 characters	1
Synchronous Data Adapter Type II SF #7697 and SF #7698 For 6-Bit Transcode (SF #9062 and SF #9072):				
600 bps	1	19.10/N	100 characters	1, 3
1,200 bps	1	9.50/N	200 characters	1, 3
2,000 bps	1	5.70/N	333 characters	1, 3
2,400 bps	1	4.70/N	400 characters	1, 3
4,800 bps	1	2.3/N	800 characters	1, 3
7,200 bps	1	1.5/N	1,200 characters	1, 3
19.2 kbps	1	0.59/N	3,200 characters	1
40.8 kbps	1	0.28/N	6,800 characters	1
230.4 kbps	1	0.049/N	38,400 characters	1
For EBCDIC (SF #9060 and SF #9070); ASCII (SF #9061 and SF #9071):				
600 bps	1	25.80/N	75 characters	1, 3
1,200 bps	1	12.90/N	150 characters	1, 3
2,000 bps	1	7.70/N	250 characters	1, 3
2,400 bps	1	6.40/N	300 characters	1, 3
4,800 bps	1	3.2/N	600 characters	1, 3
7,200 bps	1	2.1/N	900 characters	1, 3
19.2 kbps	1	0.81/N	2,400 characters	1
40.8 kbps	1	0.37/N	5,110 characters	1
230.4 kbps	1	0.067/N	28,750 characters	1
2821				
1403-2				
600 Lines per Minute	3	15.70	1.32 kb	
750 Lines per Minute (Universal Character Set)	3	15.70	1.65 kb	

PRIORITY CONSIDERATIONS (Continued)

I/O Device	Class	Byte Multiplexer Channel Critical Time (ms)	Block Multiplexer and Selector Channel Burst Mode Data Rate (per second)	Notes (Listed at End of Table)
1403-N1				
1,100 Lines per Minute	3	15.70	2.42 kb	
1,400 Lines per Minute (Universal Character Set)	3	15.70	3.08 kb	
2540-1				
Punching				
Column Binary	2	14.00	0.80 kb	
EBCD	2	14.00	0.40 kb	
Reading				
Column Binary	2	6.50	2.67 kb	
EBCD	2	6.50	1.33 kb	
51-Column, Column Binary	2	8.00	2.13 kb	
51-Column, EBCD	2	8.00	1.07 kb	
2835 With 2305-2	1	Block mpxr only	1.5 mb	
2840-2	3	Burst mode	238.1 kb	
2955 (Also 3168-3 SVP)	1	14.1	See Note	11, 14
3036				
Service Record File	3	See Note	See Note	11, 13, 14
2955 Emulation	1	7.5	See Note	11, 14
3277 Emulation	3	See Note	See Note	11, 13, 14
3066	3	Burst mode	240 kb	
3088	3	Block mpxr only	See Note	15
3174-1L	3	See Note	1,250 kb	21
3203-5	3	12.00	2.64 kb	
3258	3	Burst mode	256 kb	
3262-5	3	60.0	Up to 1,000 kb	
3272	3	70.00	650 kb	17
3274-1A, -21A, -31A, -41A	3	See Note	100 kb	21
3274-1B, -21B, -1D, -21D, -31D, -41D	3	See Note	650 kb	21
3380-CJ2	1	Block mpxr only	3.0 mb	
			800 bpi 1,600 bpi	
3411-1	1	Burst mode	— 20 kb	
3411-2	1	Burst mode	20 kb 40 kb	
3411-3	1	Burst mode	40 kb 80 kb	
3422-A01 With 3422-B01	1	Burst mode	See Note	20
3430-A1 With 3430-B1	1	Burst mode	1,600 bpi 6,250 bpi 80 kb 312 kb	
3480-A22 With 3480-B22, or 3480-A11 With 3480-B11	3	Block mpxr only	See Note	18
3505-B1	3	9.00	Data mode 1: 167 kb Data mode 2: 350 kb	
3505-B2	3	6.00		
3525-P1	2	67.50	Data mode 1: 167 kb Data mode 2: 350 kb	
3525-P2	2	33.75		
3525-P3	2	22.50		

PRIORITY CONSIDERATIONS (Continued)

I/O Device	Class	Byte Multiplexer Channel Critical Time (ms)	Block Multiplexer and Selector Channel Burst Mode Data Rate (per second)	Notes (Listed at End of Table)
3540-B1, -B2	3	4.11	69-286 kb	
3704	1	Byte mode in emulation	See Note	6, 14
3704	3	Burst mode in network control program mode	49, 92, 166, 276 kb	
3705	1	Byte mode in emulation	See Note	6, 14
3705	3	Burst mode in network control program mode	49, 92, 166, 276 kb	9, 21
3720	1	Byte mode in emulation	See Note	6, 14
3720	3	Burst mode in network control program mode	Maximum instantaneous data rate (no delay): 940 kb	21
3725	1	Byte mode in emulation	See Note	6, 14
3725	3	Burst mode in network control program mode	Maximum instantaneous data rate (no delay): 940 kb	21
3745	1	Byte mode in emulation	See Note	6, 14
3745	3	Burst mode in network control program mode	Maximum instantaneous data rate (no delay): 3.0 mb	21
3791	3	See Note	8.4 kb	21
3800				
6 Lines per Inch	3	5.70	200 kb	8
8 Lines per Inch	3	4.27	200 kb	8
3803 With			<i>1,600 bpi 6,250 bpi</i>	
3420-3	1	Burst mode	120 kb —	
3420-4	1	Burst mode	120 kb 470 kb	
3420-5	1	Burst mode	200 kb —	
3420-6	1	Burst mode	200 kb 780 kb	
3420-7	1	Burst mode	320 kb —	
3420-8	1	Burst mode	320 kb 1,250 kb	
3811 With 3211	3	7.08	288 kb	
3814	—	See Note	See Note	16
3830-1 With 3330	1	Block mpxr or selector only	806 kb	
3830-2 With 3340 or 3344	1	Block mpxr or selector only	885 kb	
3830-2 or -3 With 3333/3330	1	Block mpxr only	806 kb	
3830-2 or -3 With 3350	1	Block mpxr or selector only	1,198 kb	
3838	3	Block mpxr only	3.0 mb	12
3848	3	Block mpxr or selector only	0.5 mb to 3.0 mb	10
3851	3	See Note	Runs at channel speed	13
3880 With 3330/3333	1	Block mpxr only	806 kb	
3880 With 3340/3344	1	Block mpxr only	885 kb	
3880 With 3350	1	Block mpxr only	1,198 kb	
3880-1 or -2 With 3375	1	Block mpxr only	1.859 mb	
3880-2 or -3 With 3380	1	Block mpxr with data streaming feature	3.0 mb	
3881-1	3	See Note	115 kb	13
3886-1	3	See Note	124 kb	7, 13

PRIORITY CONSIDERATIONS (Continued)

I/O Device	Class	Byte Multiplexer Channel Critical Time (ms)	Block Multiplexer and Selector Channel Burst Mode Data Rate (per second)	Notes (Listed at End of Table)
3890	3	360	200 kb	
4245	3	25	Up to 1,400 kb	
4248-1	3	5.2	Up to 1,000 kb	
5088-1, -2	1, 3	Burst mode	1.25, 2.5 mb	19
7351	3	See Note	650 kb	21
7770		<i>Input Manual*** No.</i>	See Note	14
Basic	1	49.80		
With 1 SF #4679	1	24.10		
With 2 SF #4679	1	16.60		
With 3 SF #4679	1	12.00		
With 4 SF #4679	1	9.02		
With 5 SF #4679	1	7.51		
Channel-to-Channel Adapter (SF #1850)	3	Burst mode	Variable, runs at rate of slower channel	2

* Punching and reading should be evaluated separately by using the critical times, device loads, and previous loads listed for the independent operations.

** Milliseconds divided by number of attachable lines.

*** Manual = pushbutton; manual dialing telephone.

Notes:

- Each of the critical times and each data rate is given for a *single* adapter. An estimate of the requirements of a particular 2701 may be obtained as follows:
 - Find the multiplexer channel critical times for each adapter present in the 2701 and use only the shortest time.
 - Divide this shortest time by the number of lines (adapters) on the 2701.

Example: Consider the 2701 to have a Telegraph Adapter Type II, and an IBM Terminal Adapter Type I at 134.5 bps, and a Synchronous Data Adapter Type I at 2,000 bps. The critical times are 85.8, 63.2, and 3.5 ms, respectively. Dividing the shortest time (3.5 ms) by the number of adapters (3) provides the estimated time of 1.1667 ms for this 2701 configuration.

- Is generally attached to the lowest priority (highest numbered) selector channel. For the 3168, the adapter is the first control device on the channel to which it is assigned and has first priority.
- The Synchronous Data Adapter Type II "poll" command requires the following turnaround times between the channel request to end the "poll" and the end of the first data cycle of the command chained "read:"

bps	6-Bit Code (ms)	8-Bit Code (ms)
600	10.8	14.0
1,200	5.4	7.0
2,000	3.2	4.2
2,400	2.7	3.5
4,800	1.3	1.7
7,200	0.67	0.85

- In general, this device should be placed in highest channel priority. However, because of the load imposed on the channel by one or more of these devices as a function of how the device is programmed, it may be necessary for another device to be placed in higher priority.
- When 1419s are the only class 1 devices (devices subject to overrun—highest priority required) on the channel, they should be cabled physically last but logically first (highest priority). However, if there are other class 1 devices on the channel, the primary control units of the 1419s should be arranged as members of that class so that device priority is established in order of increasing wait times. (Refer to appropriate system channel characteristics publication.)

6. *In emulator mode:*

The same restrictions as the 2701 apply—generally, highest priority. Refer to the appropriate channel characteristics publication for a complete description of critical time (wait time) and channel interference.

- Maximum rate is given. Average rate is 113 kb.

- The formula for finding the average data rate is:

$$\text{Average Data Rate (characters per second)} = \frac{\text{Characters per page} \times 30.7}{\text{Length of page (inches)}}$$

- The burst mode data rates apply only to the 3705 Type 2 and Type 3 Channel Adapters. For operation on a 3705-E, -F, -G, -H, -J, -K, -L, or -M, these rates are increased by a factor of 1.2.

- The data rate of the 3848 can be set to 0.5, 1.0, 1.2, or 1.5 megabytes per second in non-data-streaming mode, or 3.0 megabytes per second in data-streaming mode. To operate in data-streaming mode, the channel must be capable of data streaming at 3.0 megabytes per second.

- Data rate varies with changes in configuration.

- The maximum data rate is 3.0 megabytes per second with recommended attachment to the two-byte interface; otherwise, the maximum data rate is 1.5 megabytes per second.

- Byte multiplexer critical time not available.

- Byte multiplexer channel attachment is recommended.

- Two independent data transfers can be active between two separate pairs of channels in either high-speed transfer mode between 0.7 and 1.5 megabytes per second or in data-streaming mode at 3.0 or 4.5 megabytes per second. The 3088 may be configured during installation so that the high-speed transfer mode data rate does not exceed 1.2 megabytes per second.

- The 3814 passes data at the rate of the attached control unit. For switchable interfaces, attach class 1 control units with the highest data rate first, then class 2 and class 3 control units, respectively, with consideration in each class for control unit data rates or timing characteristics.

If I/O devices are configured to a 3814 without regard to device priority or cable length restrictions, overrun can occur in attached unbuffered devices.

- Burst mode is recommended when the 3272 is attached to a byte multiplexer channel.

18. The 3480 operates at data rates of 3 megabytes per second or 2 megabytes per second when attached to a data-streaming channel or 1.5 megabytes per second when attached to a standard (interlock) channel. The data rate is set by a switch in the 3480 Control Unit. The 3480 Magnetic Tape Subsystem is buffered and is not subject to data overruns unless block sizes exceed 131,000 bytes.
19. The 5088 operates as a class 1 device during some data-streaming operations. The 1.25 megabyte-per-second rate can be set by a switch. The normal data rate is 2.5 megabytes per second.
20. The 3422 channel to control unit interface operates at data rates of 3 megabytes per second or 2 megabytes per second when attached to a data-streaming channel. When attached to a standard (interlock) channel, the 3422 operates at 200 and 780 kilobytes per second at tape densities of 1,600 and 6,250 bpi, respectively. The data rate is set by a switch in the 3422 Model A01 (control unit and tape drive).
21. The 3174, 3274, 3705, 3720, 3725, 3745, 3791, and 7351 are buffered devices and are not subject to overrun. If service is not provided within a fixed amount of time, the control unit continues to wait.

Order No. GA22-7002-27

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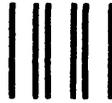
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