DATA PROCESSING I/O

PAPER

TAPE I/O

PRINTERS

NO. 1 THROUGH 4

ADDITIONAL PRINTERS

NO. 5 THROUGH 8

PRINTER

AND PLOTTER

1801/1802 PROCESSOR-CONTROLLER

TYPE

1801-1
1801-2
1802-1
1802-2
1801
1802

SPEED

4 spee
2 spee
4 spee
2 spee
2.25 spee
2.25 spee

SIZE

4, 8, 16, 24, 32 K words
4, 8, 16, 24, 32 K words
4, 8, 16, 24, 32 K words
4, 8, 16, 24, 32 K words
24 K words
24 K words

OPTIONAL FEATURES

- Group of 6 Additional Interrupt Levels - Max. 2 Groups
- Up to 4 Digital I/O Adapters

DIGITAL OUTPUTS

ANALOG OUTPUTS

PROCESS I/O
Standard Order of Priority Assignments

01 - Selector Channel *
02 - 2401 Model 2 *
03 - 2401 Model 2
04 - 1810 1st
05 - 1810 2nd
06 - 1810 3rd
07 - 2401 Model 1
08 - 1442 1st
09 - 1442 2nd
10 - 2790-1 Adapter 1st
11 - 2790-2 Adapter 2nd
12 - Analog Input Basic
13 - Analog Input Expander
14 - Analog Input Expander
15 - Analog Input Expander
16 - 1443
17 - Communications Adapter 1st Line Adapt.
18 - Communications Adapter 2nd Line Adapt.
19 - Communications Adapter 3rd Line Adapt.
20 - Communications Adapter 4th Line Adapt.
21 - Communications Adapter 5th Line Adapt.
22 - Communications Adapter 6th Line Adapt.
23 - Communications Adapter 7th Line Adapt.
24 - Communications Adapter 8th Line Adapt.
25 - System/360 Adapter
26 - Digital / Analog Output
27 - Digital Input

* Overlap operation of these two devices will create data overrun conditions.

Deviation from the standard order of priority assignments may create data overrun conditions during overlap operations.

Devices may share a Data Channel with another device provided the other device is located in the same I/O Channel Group. I/O Channel Group 3 devices can only share Data Channels with a device on I/O Channel Group 3. Devices located in the 1801/1802 may share a Data Channel with another device in a different I/O Channel Group (Group 1 or 2) provided the other device is not located in the 1801/1802.

Devices sharing Data Channels cannot be operated concurrently.

IBM Systems Programs assume that devices do not share Data Channels.

Feature Adapter Block

Feature Name

Communications Adapter 2

Standard Order of Priority Assignment

Maximum Number of Data Channel Priority Levels Required

1 Maximum of 8 Feature Adapter Blocks per I/O Channel Groups.
2 Maximum of 5 Data Channel Priority Levels assignable beyond this point.
3 Data Channel Expander required for I/O Channel Group 3. Maximum of 15 Data Channel Priority Levels assignable beyond this point.

* Communications Adapters standard order of Priority Levels are 17 thru 24.

** Tape Control Unit is assigned the Priority Level of the highest mode 2401 installed.

*** 1054/1055 and 2nd 1442 preempted by Data Channel Expander.

2790 Adapters standard order of Priority Levels are 10 and 11.