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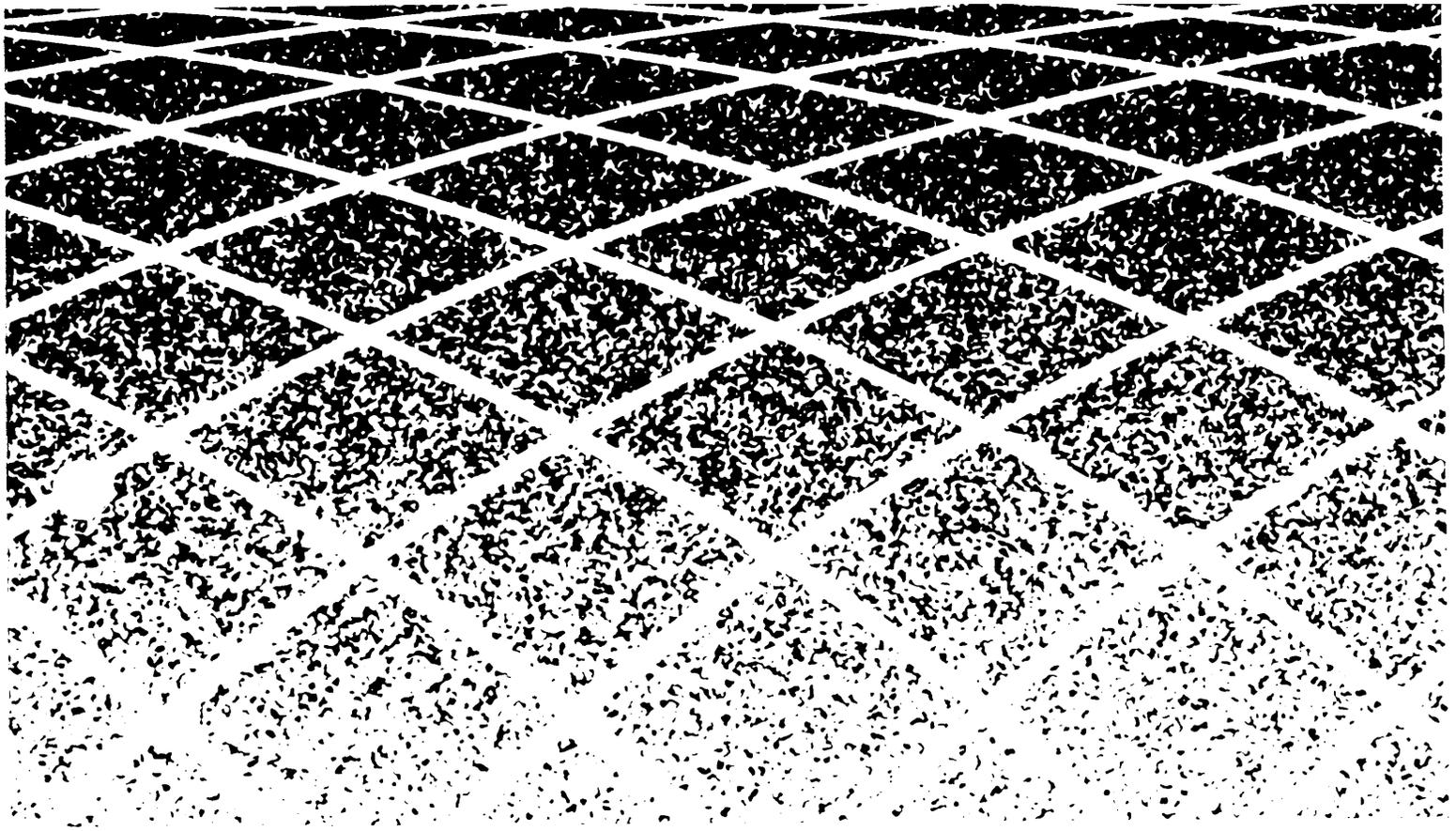
AT&T Intelligent Ports Card Model 1600 (IPC-1600)

Release Notes

NOTICE

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Preface

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Introduction

These *Release Notes* contain important information about the AT&T Intelligent Ports Card, Model 1600 (IPC-1600) product. The information is organized by software, hardware, and documentation notes.

The IPC-1600 is a 16-port, intelligent, serial Input/Output (I/O) controller with a 16-bit microprocessor running at 12.5 MHz. The 16 RS-232, asynchronous ports are connected to RJ-45 (10-pin) fanout modules via two 80-conductor ribbon cables.

The IPC-1600 operates with the AT&T UNIX® System V/386 Release 3.2 and later releases on the following machines:

- AT&T 6386E Work Group System

- AT&T 6386/25 Work Group System

- AT&T 6386E/33 Work Group System

- AT&T 6386E/33 Work Group System Model S.

Software Notes

FACE Outputs Incomplete Confirmation Message

   When using the AT&T Framed Access Command Environment (FACE) to set up IPC-1600 ports, an incomplete confirmation message is output under the following conditions.

   If an IPC-1600 port is to be turned off (disabled) and NONE is selected as the device in the Serial Ports Setup Menu, a message is displayed indicating that the port is currently connected to the computer. Pressing the **F3** (CONT) key results in the following incomplete output message:

```
Connection to computer on serial port xxx has been
```

   In this output message, the *xxx* specifies the port to be disconnected. The output message should be displayed as follows:

```
Connection to computer on serial port xxx has been disconnected
```

Host System Tunable Parameter Guidelines

To obtain proper IPC-1600 performance, certain system tunable parameters should be adjusted to recommended values. Refer to the *UNIX System V/386 Operations/System Administration Guide* for additional information and procedures on setting tunable parameters. The following table shows the tunable parameter guidelines for the IPC-1600.

IPC-1600 TUNABLE PARAMETERS				
PARAMETER	**SYSTEM MEMORY**			
	2MB	**4MB**	**8MB**	**16MB+**
NCLIST	120	170	560	1180
NPROC	100	150	200	400
NREGION	210	300	600	1200

Also note that the recommended minimum NCALL parameter value is 60. Failure to adjust these parameters may result in table overflow warning messages and poor performance.

Input Queue Overflows

When the input queue overflows, 257 characters are flushed from the input queue instead of the 256 characters specified per the System V Interface Definition (SVID) requirement. The IPC-1600 uses 257 character input buffers. Users should be aware that application software expecting the 256 value is affected.

Printer Port Setup

Printers like the AT&T 446 Laser Printer and the HP* LaserJet Series II printers require the use of the **stty clocal** command to prevent loss of printer data. Do not use the **stty -clocal** command.

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* Registered trademark of Hewlett-Packard Company

Hardware Notes

Host System Memory Guidelines

Sufficient system memory must be available to support the number of IPC-1600 boards being installed. The following system memory guidelines should be followed.

IPC-1600 SYSTEM MEMORY GUIDELINES	
NUMBER OF IPC-1600s	MINIMUM SYSTEM MEMORY
1	2MB
2 OR 3	4MB
4	8MB
5 TO 7	16MB

Installing the IPC-1600

Be careful not to damage the ribbon cables (for example, strip some insulation) when threading the cables through the board slot opening in the host computer.

The tasks of threading the cables through the slot opening, connecting the cables to the board, and then plugging the board into the bus connector are easier to do if the expansion slot adjacent to the component side of the IPC-1600 is empty while installing the IPC-1600.

Documentation Notes

In addition to these *Release Notes,* the following documents support the IPC-1600:

- *AT&T Intelligent Ports Card, Model 1600 (IPC-1600) User's Guide,* Select Code 305-920 (COMCODE 105747182)

- *AT&T Intelligent Ports Card, Model 1600 (IPC-1600) Ports Cabinet User's Guide,* Select Code 305-922 (COMCODE 106072705). (See note.)

Note: The AT&T IPC-1600 Ports Cabinet is an optional cabinet, providing mounting space for two 16-Ports Fanout modules.

305-923