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AMIGA CHARACTER GENERATOR I/O STUFF

This is an attempt to document the hardware configuration of the
EPG & Prevue service for all spurious I/O with the Amiga:

1. Remote keyboard
2. Audio Cart
3. Video Cart / Still Frame Insertion
4. 110 baud control data
5. A2000 differences
6. 2400 baud data

REMOTE KEYBOARD:

EPG: The remote keyboard goes thru the mouse ports and requires two
signal, data and carrier detect. The data goes in port 1 fire button
(pin 6 on mouseport 1). The carrier detect comes in on pin 9 of the
same port. It must be hi for the remote keyboard to be activated.
The carrier detect signal is used to keep the 300 baud data interrupt
off except when carrier is present to avoid slowing the amiga down
unnecessarily.

PREVUE: The remote keyboard is 110 baud and uses just one signal,
DSR (pin 6 of the serial port).

AUDIO CART:

PREVUE: Data is sent out of the 2400 serial port to Covington's card
where the bit is recovered and a relay is thrown to turn the audio
equipment on. Data is sent out of the Amiga on the 2400 baud line
again to turn it off. This output is labeled CART SWITCH on the c.g.
For audio cart to be enabled, the word CART must be a parameter in the
startup-sequence after the select code, i.e.
                esq AP0876 CART

PREVUE: CD (pin 8 of the serial port) is the feedback signal from the
cart machine. It is used to keep the ads in sync. It must be held
hi for 1/2 second in order to resync the ads. This input is labeled
SECONDARY CUE on the c.g.

VIDEO CART:

PREVUE: Data is sent out of the 2400 serial port to Covington's card where the bit is recovered and a relay is thrown to turn the video equipment on. Data is sent out of the Amiga on the 2400 baud line again to turn it off. This output is labeled CART SWITCH on the c.g.

PREVUE: On video insertion, CD (pin 8 of the serial port) is the timer switch that must be closed (held low) for video insertion to occur.   This input is labeled SECONDARY CUE on the 1000 c.g. and external connector on the 2000.

PREVUE 2000: Most of the confusion in cabling has been caused by not giving the above signal a pull up voltage. The proper pull up on a 2000 is serial port pin 9.(+12).

Prevue 1000: On the 1000 the same function was performed on pin 21 (+5).

PREVUE: On video insertion, mouse port 0, FIRE0 (pin 6) is optionally used to input the ON AIR signal from the Lit'l Moneymaker to stop video insertion when the tape machine screws up.
Note: NOT implemented. 4/12/89

EPG: Mouse port 0, FIRE0 (pin 6) is used to output a + 5 volt pulse for stillframe video insertion.

110 BAUD CONTROL DATA:

PREVUE: 110 baud control data comes into the Amiga on one signal, CTS (pin 5 of the serial port).

A2000:

PREVUE: At present the SECONDARY CUE switch on the 2000 hangs off of the RS232 connector. There is no +5 V (pin 21 on the A1000) available on the serial port so +12 V (pin 9) can be used. This difference should be transparent to the customer.

2400 BAUD DATA:

On both EPG and PREVUE, 2400 baud program data enters the Amiga on pin 3 (RXD) of the serial port as expected

PREVUE: 2400 baud data (to CART SWITCH, see above) leaves pin 2 (TXD) of the serial port.

On EPG, there is no inherent technical reason to keep the mouseport signals on the mouseport. I see no reason at present other than operation/customer type problems and the test time, not to switch all the signals on the mouseport (Remote keyboard data and carrier detect and still frame insertion pulse) to the serial port to avoid mechanical problems on the rack.

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