IEEE-488 Interface Card: Time-Saving Hints (11/96)

Article Created: 21 September 1984
Article Reviewed/Updated: 14 November 1996

TOPIC --

Keep the following hints in mind when using the Apple IEEE-488 Interface:

DISCUSSION ---

1. Use the IEEE card only from within an Applesoft program. If you try to use
   it in command mode, a SYNTAX ERROR will result, since the Applesoft
   prompt "]" will be sent to the interface. If you do not reset the I/O at the
   end of your program, a "CMD ERR" will result.

2. Issue the command "SC1" as one of the first commands in any new program.
   This command will cause the IEEE commands to be echoed to the screen for
   easier debugging. When the device works properly, the "SC1" can then be
   removed.

3. Ascertain whether the IEEE device you're using requires the REMOTE ENABLE
   command before it will accept anything you send it. (Many IEEE devices do
   require this command.) If the device requires the command and does not
   receive it, the device will not be enabled: it will handshake properly but
   won't recognize its address on the bus, and will therefore return a BUS
   ERROR the next time it's accessed. In some cases, the "RA" command can be
   used to turn on all remote devices on the bus; likewise, the "RM address
   list" command can sometimes be used to enable selected devices.

4. Understand the convention for listener and talker addresses. All devices on
   the bus have a device number in the range of $00 to $1E. If you want the
   device to act as a listener, use the address range $20 to $3E--that is, add
   $20 to the device number. If you want the device to act as a talker, use $40
   to $5E--that is, add $40 to the device number. For example: If an HP 3438A
   has a device number of 3 and if you want it to be a listener you must
   use address $23. From the keyboard, $23 is a , so you could use (for
   example) PRINT "TG ". If the device is to be a talker, you must use address
   $43, which is an upper case C from the keyboard; an appropriate command to
   use would be PRINT "RDC".

Article Change History:
14 Nov 1996 - Reviewed for technical accuracy, revised formatting.

Keywords: <None>

==

This information is from the Apple Technical Information Library.

19961119 08:32:30.00
Tech Info Library Article Number: 531