Addendum

This addendum contains information for the *HP 82169A HP-IL/HP-IB Interface Owner's Manual,* part number 82169-90001.

Section 3, "Translator Mode Operation With Control on HP-IB"

Page 31, under "Setting Service Requests": Be sure that all HP-IL devices are parallel poll disabled when control is on the HP-IB side. This is particularly important when an HP-IL controller passes control to an HP-IB controller. The interface periodically sends Identify messages on HP-IL. However, the interface does not implement an HP-IL parallel poll capability (except as performed using the "C" instruction). Whenever the interface sends an Identify message on HP-IL, the only response that it will recognize is a service request indication in the control bits. The interface *does not* accept a response according to HP-IL parallel poll conventions—by changing a designated data bit. (If this occurs, the interface suspends HP-IB operation—reset the interface to restore proper operation.)

Page 31, under "Parallel Poll Response": The HP-IB controller should not conduct a parallel poll while it is sending data to the interface. That is, it shouldn't set the ATN line true during data transfer to the interface. If the ATN line goes true, the interface checks for an HP-IB command, and several bytes of data may be lost before the interface resumes processing data. (Most HP-IB controllers don't conduct parallel polls during data transfer—two exceptions are the HP 2642A and HP 2647F.)

Section 4, "Mailbox Mode Operation"

Page 40, under "Retrieving Data From the Interface": While an HP-IB device is retrieving data from the HP-IL → HP-IB buffer, the HP-IL controller should not attempt to clear that buffer (by sending a Device Clear or Selected Device Clear message). Either of these messages will probably disrupt the HP-IB interaction and cause data to be lost. If this condition occurs, reset the interface to restore proper operation.

The interface normally sets the HP-IB SRQ line true whenever the HP-IL → HP-IB buffer is empty and data is received from HP-IL. However, if the interface is *already* an HP-IB talker when data is placed in the empty buffer, the interface *doesn't* set the SRQ line true. You can avoid this situation by removing the interface from HP-IB talker status whenever the HP-IL → HP-IB buffer is empty. (If the interface is an active HP-IB talker, the HP-IB DAV handshake line indicates whether data is available in the HP-IL → HP-IB buffer.)

The interface sets the HP-IB EOI line true while the first *and* last data bytes are being sent on HP-IB—not only for the last byte. You can test for the SRQ line true to determine that a byte is the first byte (except as described above). In many applications, the EOI line isn't used because the last bytes are always (CR)(LF).