PCGET and PCPUT for the Kaypro 10

These programs make it easy to load a file from the PC into the Kaypro (PCGET) or write a file from the Kaypro to a PC (PCPUT). The XMODEM protocol is used for file transfer. The programs use the printer serial port by default, however, if the command line is followed by an M, then file transfer takes place over the modem serial port. (CP/M on the Kaypro 10 assigns the printer serial port to the "TTY" device, so PCGET and PCPUT follow this default convention).

On the Kaypro 10, the printer serial port is wired as DCE and the modem serial port is wired as DTE. When connecting to a PC, the modem serial port will require a cross-over cable or null modem. You'll probably want to change the baud rates on the printer and/or modem serial ports to 9600 for file transfer with a PC. The BAUDP and BAUDM utililites on the Kaypro change the baud rate for the current session only. The CONFIG utility can be used to permanently change the baud rate.

Once PCGET is on the Kaypro, subsequent file transfer – including retrieval of the PCPUT program – is simple. However, getting PCGET onto the Kaypro to begin with is the classic chicken and egg quandary. Following is a way to get PCGET onto the Kaypro for the first time using PIP and LOAD over the printer serial port.

First, PIP is used to copy the Intel Hex version of PCGET to the CP/M system and save it as PCGET.HEX, then LOAD is used to create the executable PCGET.COM. The hex file is sent to the Kaypro using the RDR device which maps to the printer serial port (not the modem serial port).

```
A>PIP PCGET.HEX=RDR:
```
(*press RETURN and wait for CP/M to load PIP at which time you'll see a line-feed)*

Once PIP is loaded, send the file "PCGET.HEX" using simple ASCII transfer. When file transfer is complete, type Ctrl-Z on the PC to signal end-of-file. PIP will exit to the A> prompt after a short delay for CP/M to warm start.

```
A>LOAD PCGET
```
(*create PCGET.COM)*

```
FIRST ADDRESS 0100
LAST  ADDRESS 048F
BYTES READ    0390
RECORDS WRITTEN 08

A>PCGET PCPUT.COM
```
(*use PCGET to retrieve PCPUT)*
```
Send file now using XMODEM on the PRINTER Serial Port...
```