WRTK	Stores key assignments of system functions onto medium. Uses ALPHA register.
WRTP	Stores a program and its key assignments onto medium. Uses ALPHA register.
WRTPV	Stores a program and its key assignments onto medium and make file private. Uses ALPHA register.
WRTR	Copies all storage registers. Uses ALPHA register.
WRTRX	Copies some storage registers into data file as specified by X (bbb.eee). Starts at current register in data file.
WRTS	Stores calculator status onto medium. Uses ALPHA register.
ZERO	Fills a data file with zero values. Uses ALPHA register.

Mass Storage Flag

Flag 11   Automatic program execution
Used with WRTP , WRTPV or WRTA sets a program for automatic execution when copied back into the calculator from the keyboard. (For the WRTA , execution set to start at current position in program memory.)

Interface Control Operations

AUTOIO	Sets the interface to Auto mode
FINDID	Finds the address of a specified device type and places the address in X. If the device is not found, zero is returned. Uses ALPHA register.
INA	Inputs an ALPHA string up to 24 characters from primary device.
IND	Inputs decimal number from primary device.
INSTAT	Input status information from primary device, sets or clears flags 00 through 07 accordingly, and places decimal status number in X.

LISTEN	Sets device as a listener, or remove all listeners for X = 31. Uses X-register.
LOCAL	Sets primary device to its local operating mode.
MANIO	Sets the interface to Manual mode.
OUTA	Output an ALPHA string to primary device. Uses ALPHA register.
PWRDN	Sets all devices to their low power state.
PWRUP	Sets all devices to their operating power state.
REMOTE	Sets primary device to its remote operating mode.
SELECT	Selects a device as the primary device. Uses X-register.
STOPIO	Stops I/O communication in loop.
TRIGGER	Triggesr all devices set to respond (listeners).

Interface Control Flags

Flags 00 through 07: Device Status
When set by INSTAT , indicate that corresponding status bits of a device are 1's

Flag 17:   Suppress End-of-Line
End-of-line indicator is not used. OUTA does not send CR and LF. INA ignores CR and LF.

Flag 32:   Manual Mode
Indicates interface is in Manual mode.

HEWLETT PACKARD

HP 82160A
HP-IL Module
Quick Reference Card

While the HP 82160A HP-IL Module is plugged into the calculator, the following functions are available for your use. All functions are programmable except as noted below. Appropriate peripherals must be connected to the Hewlett-Packard Interface Loop for the functions to be executed normally.

Calculator flags indicated below determine how the interface module performs certain operations. When a flag is set, operations are performed as described.

Printer Operations

Functions marked with * are for the HP 82162A Thermal Printer only.

ACA	Accumulates the ALPHA register into print buffer.
ACCHR	Accumulates a character into print buffer. Uses X-register.
ACCOL *	Accumulates a specified column of dots into print buffer. Uses X-register.
ACSPEC *	Accumulates special character into print buffer. The character is defined by using BLDSPEC . Uses X-register.
ACX	Accumulates X-register content into print buffer.
ADV	Advances the printer paper and prints the print buffer right-justified
BLDSPEC	Executed up to seven times, builds a special character using specified columns of dots. Accumulate using ACSPEC or store in a register. Uses X- and Y-registers.
FMT *	Accumulates a format specifier into print buffer. the print buffer. Leading or trailing specifier centers output, internal specifier prints left- and right - justified