

When I6 is set to 1 or 3, an error number message can be reported along with the **<BELL>** character. The message comes in the form of **ERRnnn<CR>**, where **nnn** represents the three-digit error number. If I3 is set to 1 or 3, there is a **<LF>** character in front of the message.

When I6 is set to 1, the form of the error message is **<BELL>{error message}**. This setting is the best for interfacing with host-computer driver routines. When I6 is set to 3, the form of the error message is **<BELL><CR>{error message}**. This setting is appropriate for use with the PMAC Executive Program in terminal mode.

Currently, the following error messages can be reported:

Error	Problem	Solution
ERR001	Command not allowed during program execution	(should halt program execution before issuing command)
ERR002	Password error	(should enter the proper password)
ERR003	Data error or unrecognized command	(should correct syntax of command)
ERR004	Illegal character: bad value (>127 ASCII) or serial parity/framing error	(should correct the character and or check for noise on the serial cable)
ERR005	Command not allowed unless buffer is open	(should open a buffer first)
ERR006	No room in buffer for command	(should allow more room for buffer -- DELETE or CLEAR other buffers)
ERR007	Buffer already in use	(should CLOSE currently open buffer first)
ERR008	MACRO auxiliary communications error	(should check MACRO ring hardware and software setup)
ERR009	Program structural error (e.g. ENDF without IF)	(should correct structure of program)
ERR010	Both overtravel limits set for a motor in the C. S.	(should correct or disable limits)
ERR011	Previous move not completed	(should Abort it or allow it to complete)
ERR012	A motor in the coordinate system is open-loop	(should close the loop on the motor)
ERR013	A motor in the coordinate system is not activated	(should set Ix00 to 1 or remove motor from C.S.)
ERR014	No motors in the coordinate system	(should define at least one motor in C.S.)
ERR015	Not pointing to valid program buffer	(should use B command first, or clear out scrambled buffers)
ERR016	Running improperly structured program (e.g. missing ENDWHILE)	(should correct structure of program)
ERR017	Trying to resume after H or Q with motors out of stopped position	(should use J= to return motor[s] to stopped position)
ERR018	Attempt to perform phase reference during move, move during phase reference., or enabling with phase clock error.	(should finish move before phase reference, finish phase reference before move, or fix phase clock source problem)
ERR019	Illegal position-change command while moves stored in CCBUFFER	(should pass through section of Program requiring storage of moves in CCBUFFER, or abort)

I7 Phase Cycle Extension

Range: 0 to 15
 Units: Phase Clock Cycles
 Default: 0

I7 permits the extension of the software phase update period to multiple Phase clock interrupt periods. The software phase update algorithms, which do the commutation and current loop calculations for motors, are executed every (I7+1) Phase clock cycles. In other words, the phase update cycle is extended by I7 phase clock cycles.