```
\ Forth Code to control the AC Relay Module
HEX
\ Relays are active low (i.e. writing a 0 to the relay turns it on).
O CONSTANT RELAY ON
     CONSTANT
                 RELAY OFF
: Control AC Relay ( byte1\byte2\byte3 -- )
\ Sets the relay number to the appropriate state (on or off).
\ byte1 = Module Number. Valid module numbers are 0-7.
\ byte2 = Relay Number. Valid relay numbers are 0-3.
\ byte3 = Relay State. Valid relay states are RELAY_ON or RELAY_OFF
locals{ &state &relay_num &module }
  &state
  ΙF
                             \ turn relay off
   &state &relay num SCALE
   RELAY CONTROL REGISTER &module SET.BITS
                             \ turn relay on
   1 &relay num SCALE
   RELAY CONTROL REGISTER &module CLEAR.BITS
 ENDIF
;
: Read AC Relay Status (byte -- | byte = module number)
\ Reads the current state of the AC Relays. Valid module numbers are
\ Returns a character whose least significant nibble represents the
\ relays. For example, if 1 is returned (0001 in binary), then Relay 0
is
\ off and the other relays are on. If 12 is returned (1100 in binary),
\ then relays 2 and 3 are off and 0 and 1 are on. The four most
significant
\ bits do not matter.
 RELAY CONTROL REGISTER SWAP C@
```